



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
61/994,791	05/16/2014		3060	P49		

CONFIRMATION NO. 4532

FILING RECEIPT



OC000000068759598

110711
Scott Bortner
Natera
201 Industrial Road
Suite 410
San Carlos, CA 94070

Date Mailed: 06/03/2014

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Bernhard Zimmermann, San Mateo, CA;
Matthew Hill, Redwood City, CA;
Philippe Lacroute, Sunnyvale, CA;
Michael Dodd, San Francisco, CA;
Alexander Wong, Mountain View, CA;

Applicant(s)

Natera, Inc., San Carlos, CA

Power of Attorney:

Vicki Healy--48343

If Required, Foreign Filing License Granted: 06/02/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/994,791**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

Title

HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

page 1 of 3

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):	Zimmermann et al.	CONF. NO.:	Not yet assigned
APP. NO.:	Not yet assigned	GROUP NO.:	Not yet assigned
FILING DATE:	Herewith	EXAMINER :	Not yet assigned
TITLE:	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		

PETITION UNDER 37 CFR 1.84(a)(2) TO ACCEPT COLOR DRAWING

The present application is submitted with color drawings. This Petition is submitted to request acceptance of the color drawings as the only practical medium by which aspects of the subject matter sought to be patented in this application may be accurately conveyed.

The first paragraph of the Brief Description of the Drawings section of the Specification includes the following language: The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

As the color drawings are being filed electronically via EFS-Web, only one set of the drawings is submitted.

The Commissioner is hereby authorized to charge the \$140.00 requisite fee, and any other fees deemed due or credit any overpayment in connection with this filing to Deposit Account No. 506075.

Respectfully submitted,

Dated: May 16, 2014

/Vicki L. Healy /
Vicki L. Healy
Reg. No. 48,343
650-249-9091 x473

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		
First Named Inventor/Applicant Name:		Bernhard Zimmermann		
Filer:		Scott R. Bortner/Mark Muller		
Attorney Docket Number:		P49		
Filed as Large Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application Filing	1005	1	260	260
Pages:				
Prov. Appl Size fee per 50 sheets >100	1085	3	400	1200
Claims:				
Miscellaneous-Filing:				
Petition:				
Petition fee- 37 CFR 1.17(h) (Group III)	1464	1	140	140
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1600

Electronic Acknowledgement Receipt	
EFS ID:	19057704
Application Number:	61994791
International Application Number:	
Confirmation Number:	4532
Title of Invention:	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS
First Named Inventor/Applicant Name:	Bernhard Zimmermann
Customer Number:	110711
Filer:	Scott R. Bortner/Mark Muller
Filer Authorized By:	Scott R. Bortner
Attorney Docket Number:	P49
Receipt Date:	16-MAY-2014
Filing Date:	
Time Stamp:	20:49:11
Application Type:	Provisional

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Provisional Cover Sheet (SB16)	P49_COVERSHEET_Signed.pdf	305230 e61242d0b5f78d80c6398419072d84070f7ad675	no	3

Warnings:

This is not a USPTO supplied Provisional Cover Sheet SB16 form.

Information:					
2	Application Data Sheet	P49_ADS_Signed.pdf	1561651 30b40a8b3a6cb6603ee3a0d2b412a939b46569b1	no	8
Warnings:					
Information:					
3	Drawings-other than black and white line drawings	P49-FIGURES_ColorASFILED-COMLETESET.pdf	19185039 93f931f130ebd87689147c5233c2c6efcec2aad6	no	279
Warnings:					
Information:					
4		P49multiplexPCRapplication-AS-FILED.pdf	1953560 4dddad979405d01e8cec0111a1bc5a5b205426d7	yes	305
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	285	
	Claims		286	304	
	Abstract		305	305	
Warnings:					
Information:					
5	Miscellaneous Incoming Letter	P49_petition.pdf	18769 ace80c23ade63f370f3d2cbab69f09553f9a654d	no	1
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	33588 50744f30f13bea3ca4b25f06d26531e97df73bd3	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			23057837		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. _____

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
Bernhard	Zimmermann	San Mateo, CA
Matthew	Hill	Redwood City, CA
Philippe	Lacroute	Sunnyvale, CA
Michael	Dodd	San Francisco, CA
Alexander	Wong	Mountain View, CA
Additional inventors are being named on the _____ separately numbered sheets attached hereto.		
TITLE OF THE INVENTION (500 characters max):		
HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		
Direct all correspondence to: CORRESPONDENCE ADDRESS		
☒ The address corresponding to Customer Number: 110711		
OR		
☐ Firm or Individual Name		
Address		
City	State	Zip
Country	Telephone	Email
ENCLOSED APPLICATION PARTS (check all that apply)		
☒ Application Data Sheet. See 37 CFR 1.76. ☐ CD(s), Number of CDs _____		
☒ Drawing(s) <i>Number of Sheets</i> 279 ☐ Other (specify) _____		
☒ Specification (e.g., description of the invention) <i>Number of Pages</i> 305		
Fees Due: Filing Fee of \$260 (\$130 for small entity) (\$65 for micro entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).		
METHOD OF PAYMENT OF THE FILING FEE AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT		
☐ Applicant asserts small entity status. See 37 CFR 1.27.		
☐ Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.		
☐ A check or money order made payable to the <i>Director of the United States Patent and Trademark Office</i> is enclosed to cover the filing fee and application size fee (if applicable).		
☒ Payment by credit card. Form PTO-2038 is attached.		
☐ The Director is hereby authorized to charge the filing fee and application size fee (if applicable) or credit any overpayment to Deposit Account Number: _____		
260.00 TOTAL FEE AMOUNT (\$)		

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 10 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 2 of 2

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.	
☐	No.
☐	Yes, the invention was made by an agency of the U.S. Government. The U.S. Government agency name is: _____
☒	Yes, the invention was made under a contract with an agency of the U.S. Government. The name of the U.S. Government agency and Government contract number are: <u>Grant No. 5R44HD60423-3, awarded by the National Institutes of Health</u>

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

SIGNATURE <u>/Vicki L. Healy/</u>	DATE <u>May 16, 2014</u>
TYPED OR PRINTED NAME <u>Vicki L. Healy</u>	REGISTRATION NO. <u>48343</u> <i>(if appropriate)</i>
TELEPHONE <u>1-650-249-9091 x 473</u>	DOCKET NUMBER <u>P49</u>

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49
		Application Number	
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Bernhard		Zimmermann		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	San Mateo	State/Province	CA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1	1662 Lodi Avenue				
Address 2					
City	San Mateo	State/Province	CA		
Postal Code	94401	Country i	CA		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Matthew		Hill		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Redwood City	State/Province	CA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1	255 Orchard Avenue				
Address 2					
City	Redwood City	State/Province	CA		
Postal Code	94061	Country i	US		
Inventor 3					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Philippe		Lacroute		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		P49	
		Application Number			
Title of Invention		HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS			
City	Sunnyvale	State/Province	CA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1		1556 Magpie Lane			
Address 2					
City	Sunnyvale	State/Province	CA		
Postal Code	94087	Country i	US		
Inventor 4					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Michael		Dodd		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	San Francisco	State/Province	CA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1		300 Monterey Blvd., #203			
Address 2					
City	San Francisco	State/Province	CA		
Postal Code	94131	Country i	US		
Inventor 5					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Alexander		Wong		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Mountain View	State/Province	CA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1		437 Poppy Place			
Address 2					
City	Mountain View	State/Province	CA		
Postal Code	94043	Country i	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence Information of this application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49	
		Application Number		
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS			
Customer Number	110711			
Email Address	docket@blackhillsip.com	Add Email	Remove Email	
Email Address	vhealy@natera.com	Add Email	Remove Email	
Email Address	sbortner@natera.com		Remove Email	

Application Information:

Title of the Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		
Attorney Docket Number	P49	Small Entity Status Claimed	☐
Application Type	Provisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	279	Suggested Figure for Publication (if any)	

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☒ Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	110711		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49
		Application Number	
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

		Remove	
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49
		Application Number	
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices
If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application. In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.		
Applicant 1		Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.		
		Clear
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor
☐ Person to whom the inventor is obligated to assign.	☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor :		
If the Applicant is an Organization check here. ☒		
Organization Name	Natera, Inc.	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49
		Application Number	
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		
Mailing Address Information:			
Address 1	201 Industrial Road, Suite 410		
Address 2			
City	San Carlos	State/Province	CA
Country i	US	Postal Code	94070
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				Add

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P49
		Application Number	
Title of Invention	HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS		

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications

Signature	/Vicki L. Healy/			Date (YYYY-MM-DD)	2014-05-16
First Name	Vicki	Last Name	Healy	Registration Number	48343
Additional Signature may be generated within this form by selecting the Add button.					Add

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

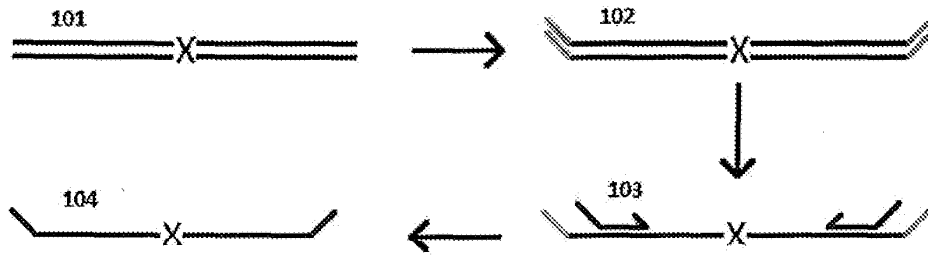


FIG. 1

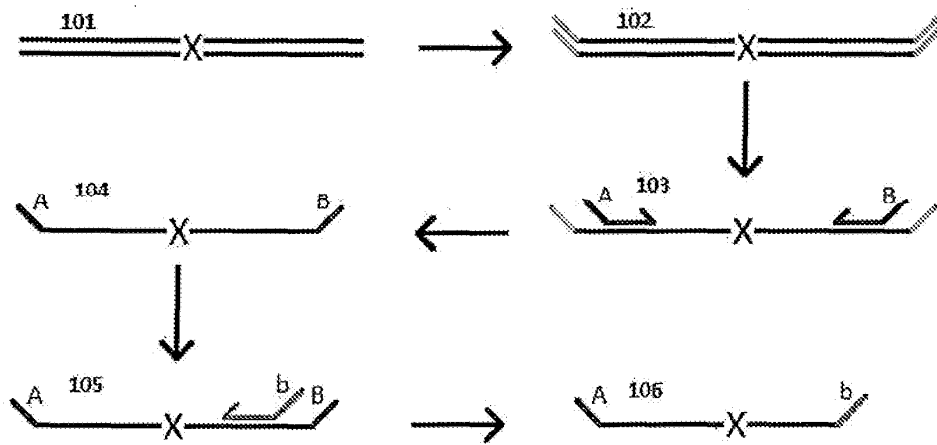


FIG. 2

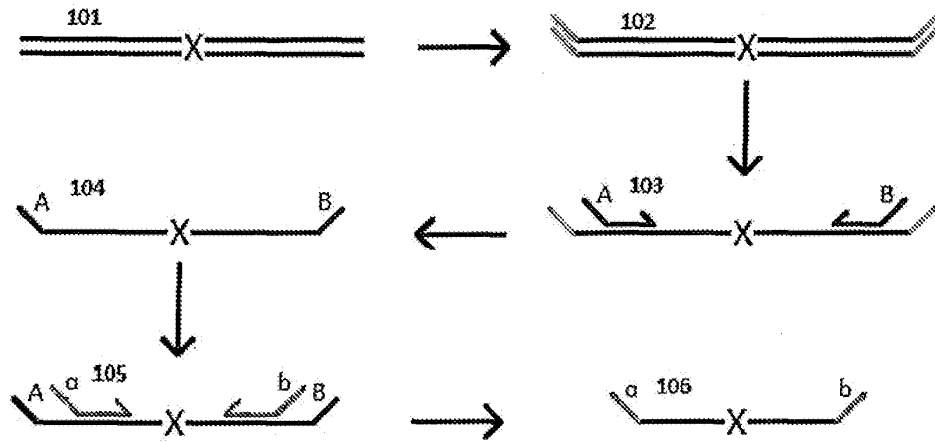


FIG. 3

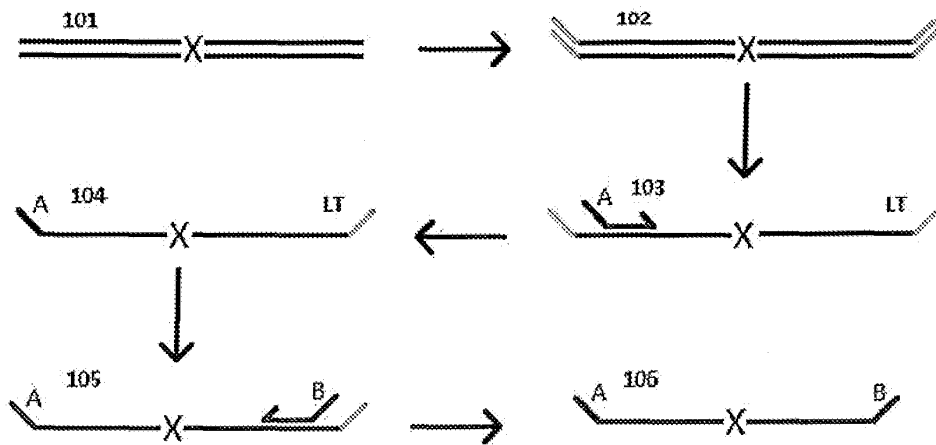


FIG. 4

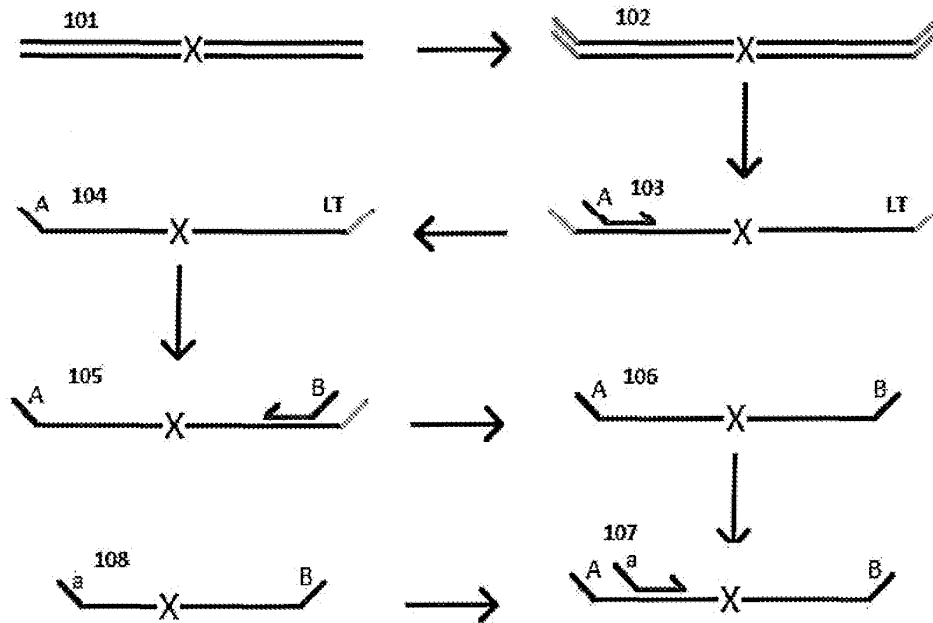


FIG. 5

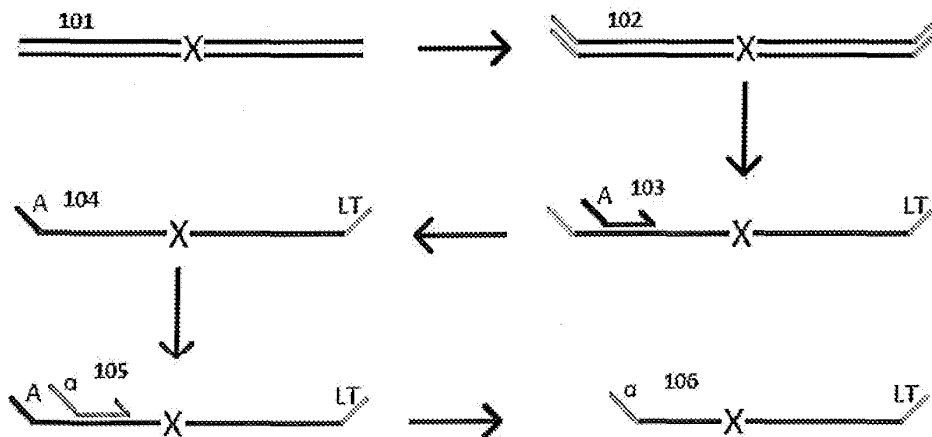


FIG. 6

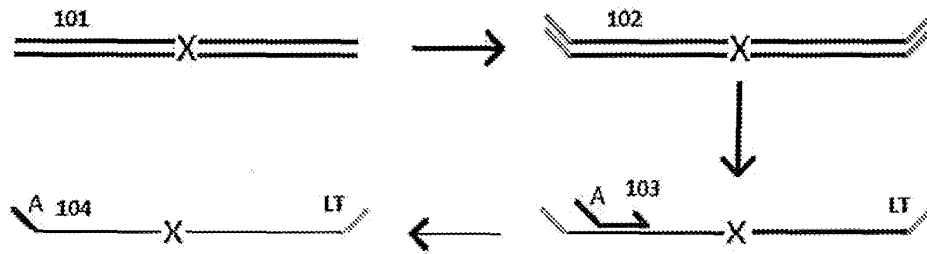


FIG. 7

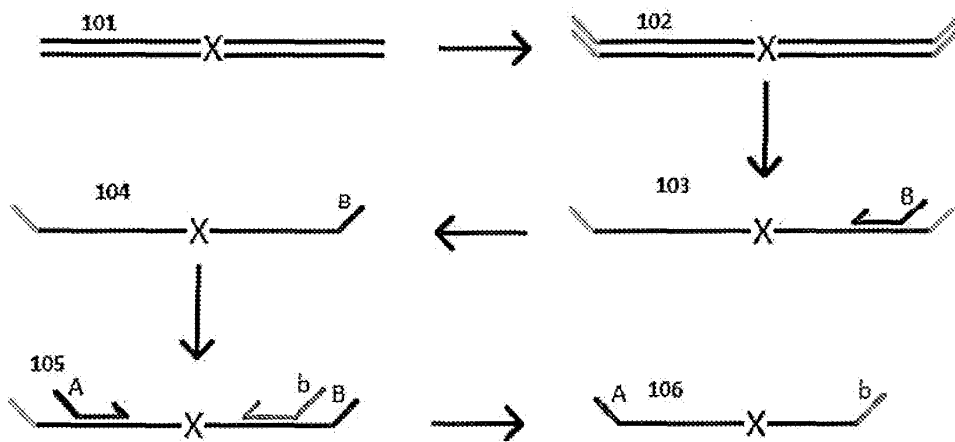


FIG. 8

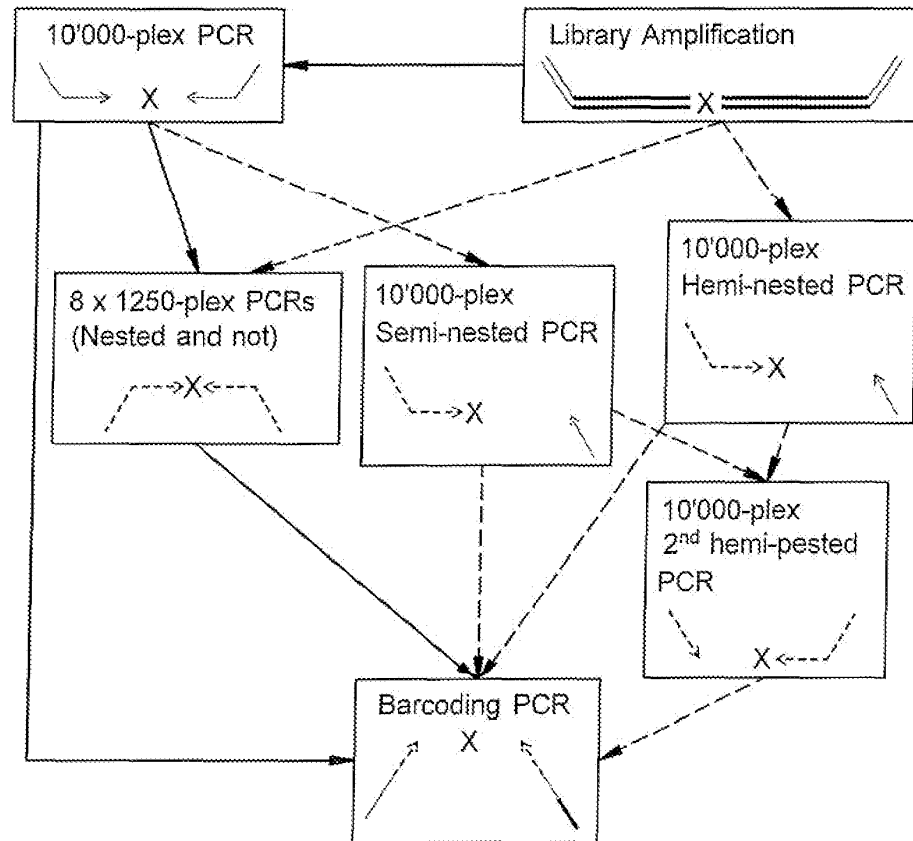


FIG. 9

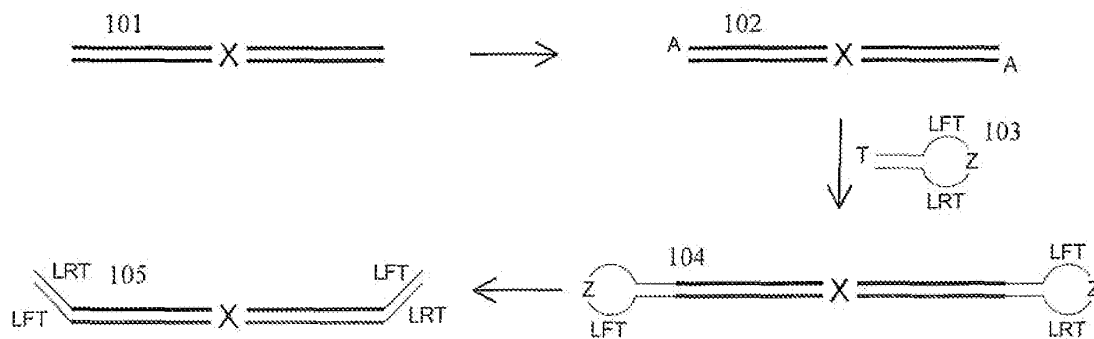


FIG. 10

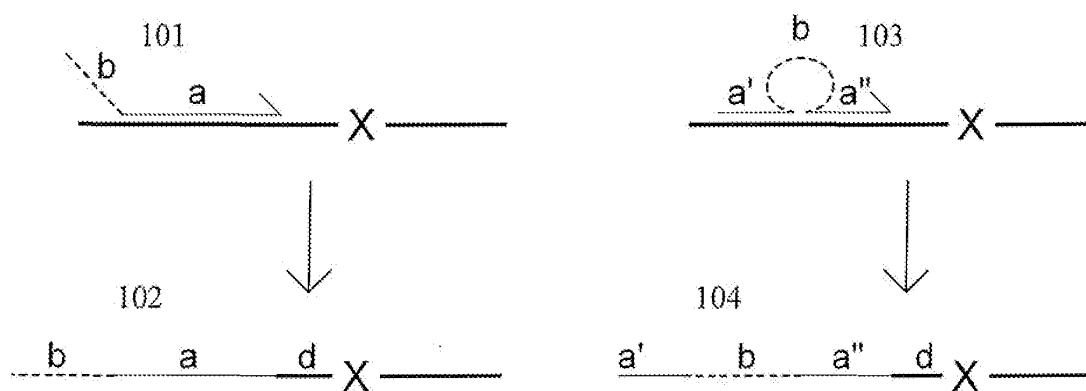


FIG. 11

The sequencing-adaptor sequence is located inside the primer sequence and flanked by target specific sequence on both sides. 10 bases are target-specific at the 3'-end of each primer. Primers were tested successfully in real-time PCR. For sequencing this reduces the number of primer bases that need to be sequenced.		
rs8130564	int-tag 1.10	AACTCAGATAGCAGACGAGCGCTCTCCGATCTTGCAAGCACA
rs2832093	int-tag 2.10	TCCTCTGTGACACGAGCGCTCTCCGATCTCCCTGCTCTT
rs12011281	int-tag 3.10	tcctcttgcacacgacgctcttccgactcgggctgtca
rs6719561	int-tag 4.10	TACATCCTTGAGACACGACGCTCTCCGATCTGCTGTGCAGT
rs10187018	int-tag 5.10	ttgcttgagctACACGACGCTCTCCGATCTcgggagtttc
rs10460481	int-tag 6.10	gtctatgttgACACGACGCTCTTCCGATCTcaagccagt
The sequencing-adaptor sequence is located inside the primer sequence and flanked by target specific sequence on both sides. The internal tag is formed into a hairpin structure by 10 complementary bases on either end. This brings the target-specific ends of the primer into close proximity and hinders unspecific binding to the "internal tag". 10 bases are target-specific at the 3'-end of each primer. Primers were tested successfully in real-time PCR.		
rs8130564	loop-int-tag 1.10	AACTCAGATAGCAGACGAGCGCTCTCCGATCTTGCAAGCACA
rs2832093	loop-int-tag 2.10	TCCTCTGTGAGACGAGCGCTCTCCGATCTCCCTGCTCTT
rs12011281	loop-int-tag 3.10	tcctcttgcacacgacgctcttccgactcgggctgtca
rs6719561	loop-int-tag 4.10	TACATCCTTGAGAGatcggACACGACGCTCTCCGATCTGCTGTGCAGT
rs10187018	loop-int-tag 5.10	ttgcttgagcttgatcggACACGACGCTCTTCCGATCTcgggagtttc
rs10460481	loop-int-tag 6.10	gtctatgttggtgatcggACACGACGCTCTTCCGATCTcaagccagt

Figure 12

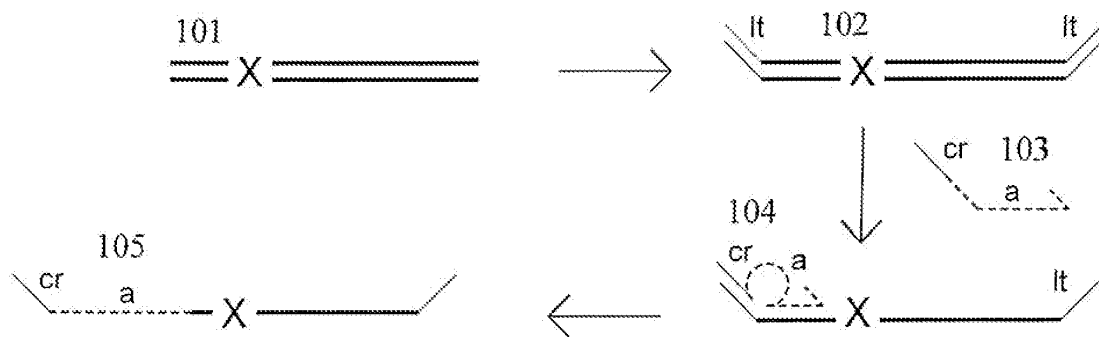


FIG. 13

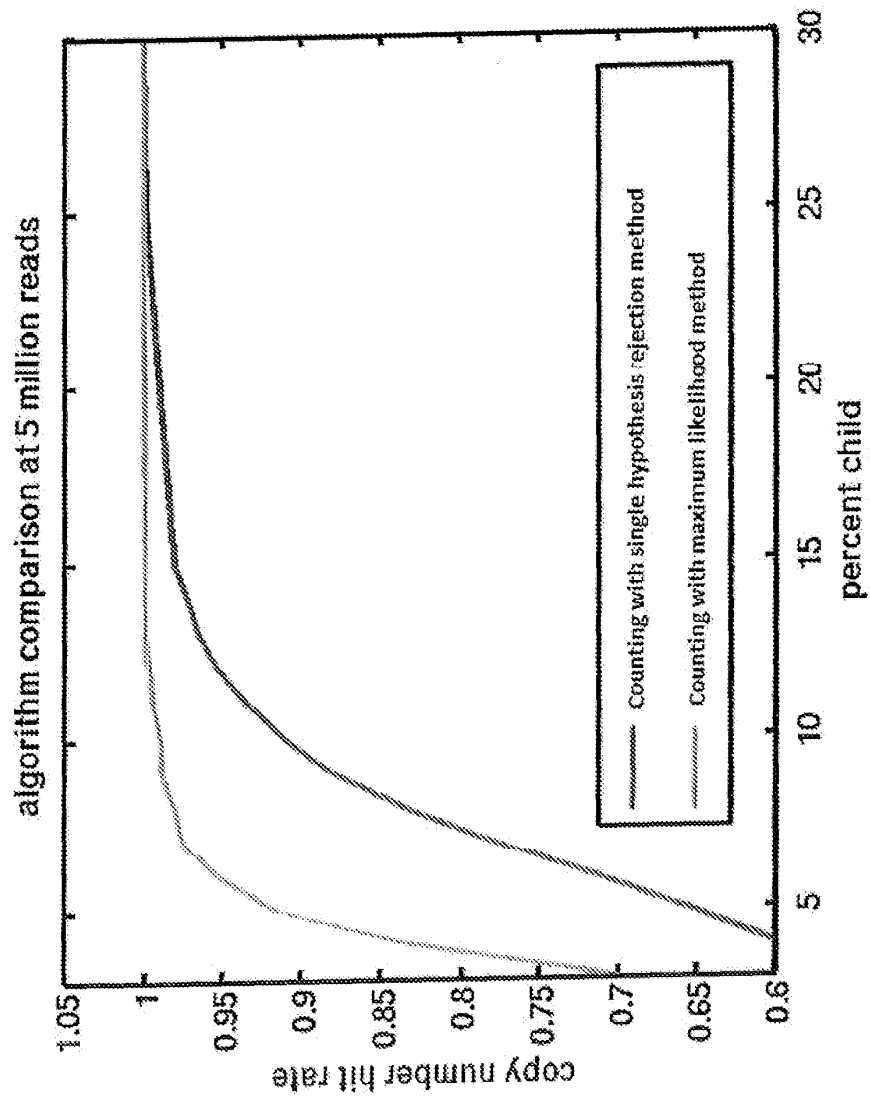


FIG. 14

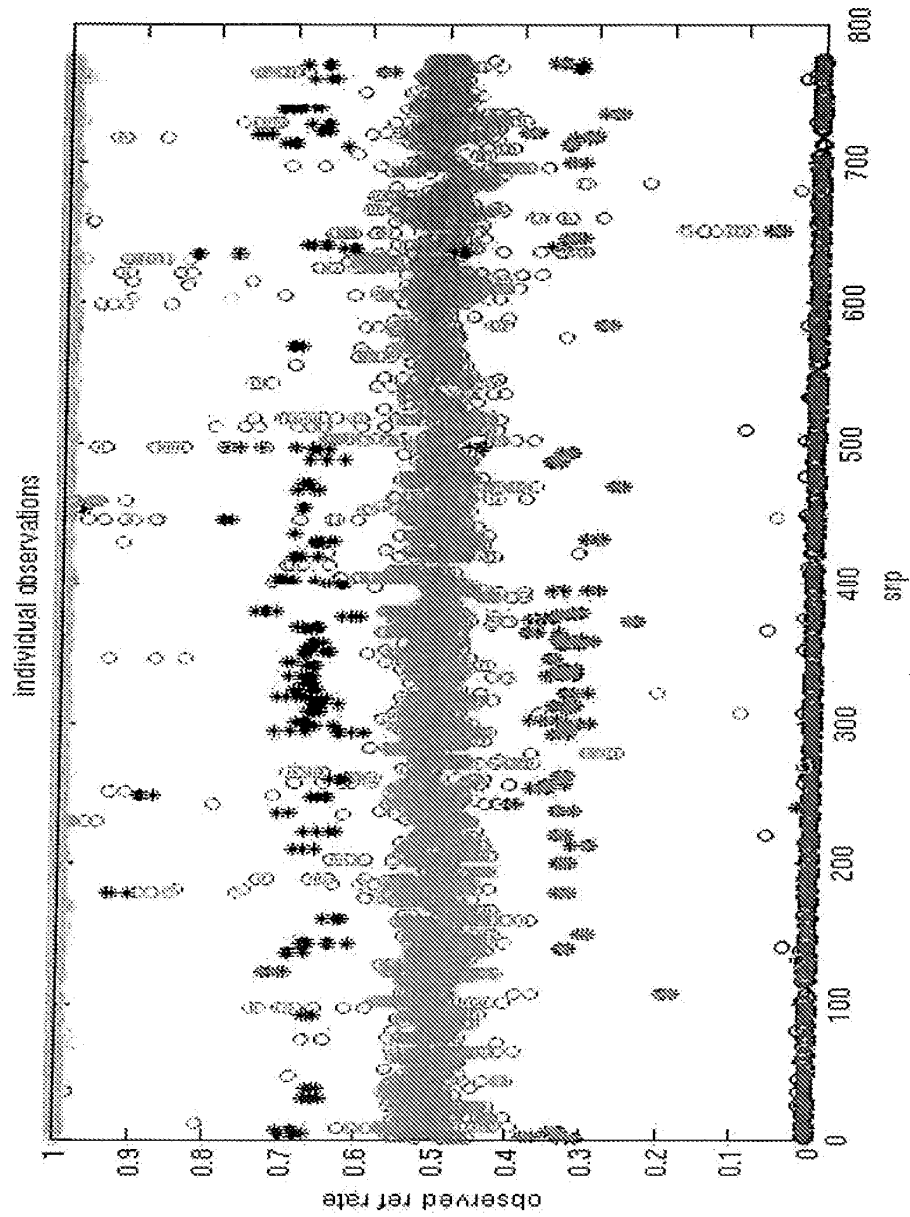


FIG. 15

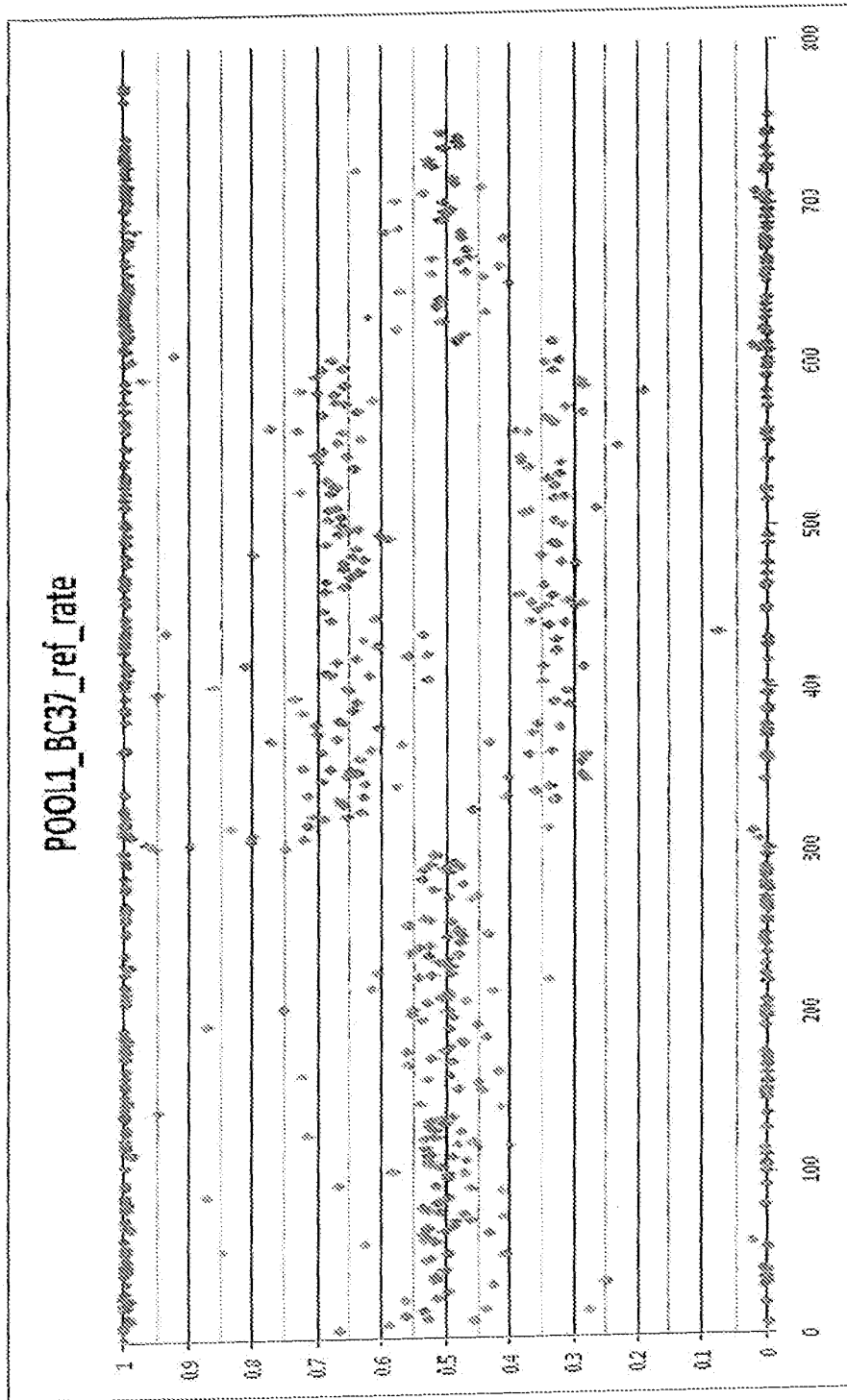


FIG. 16

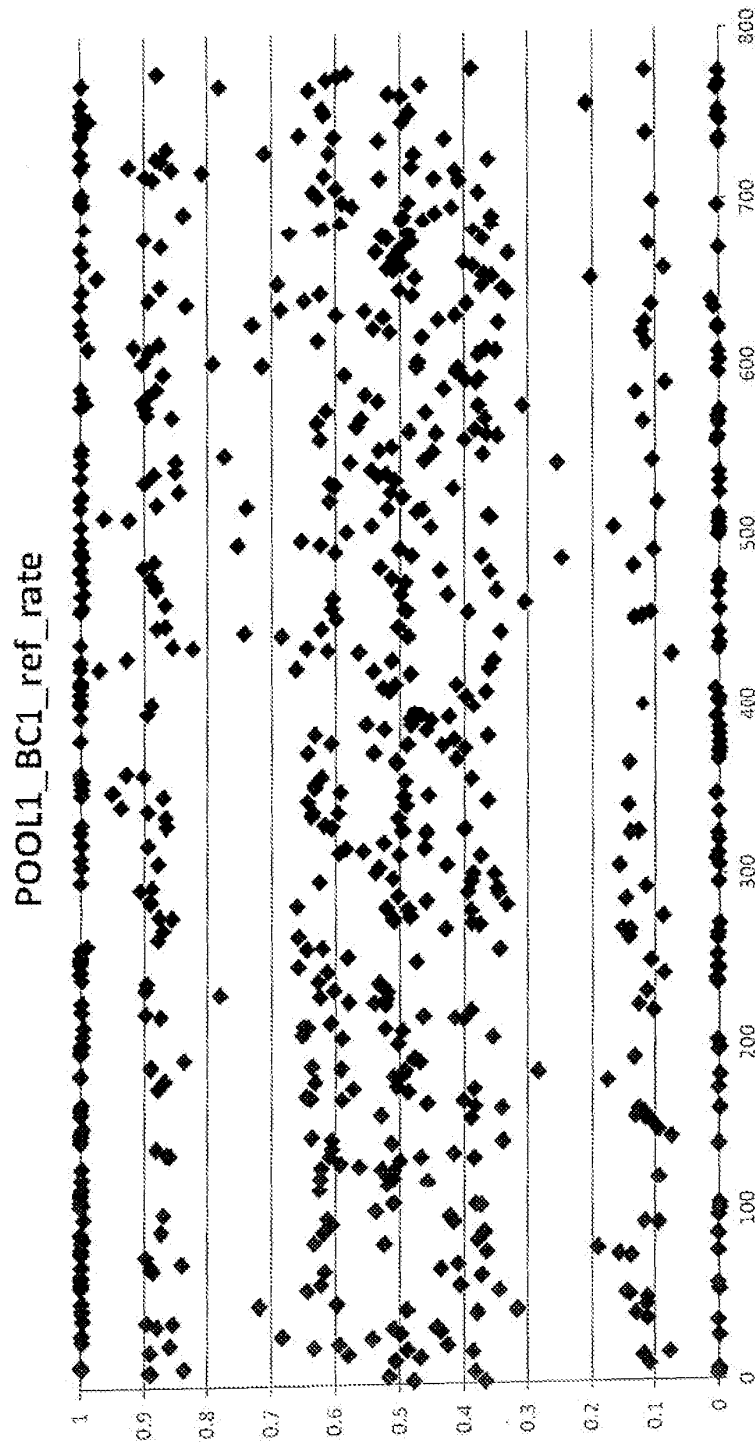


FIG. 17A

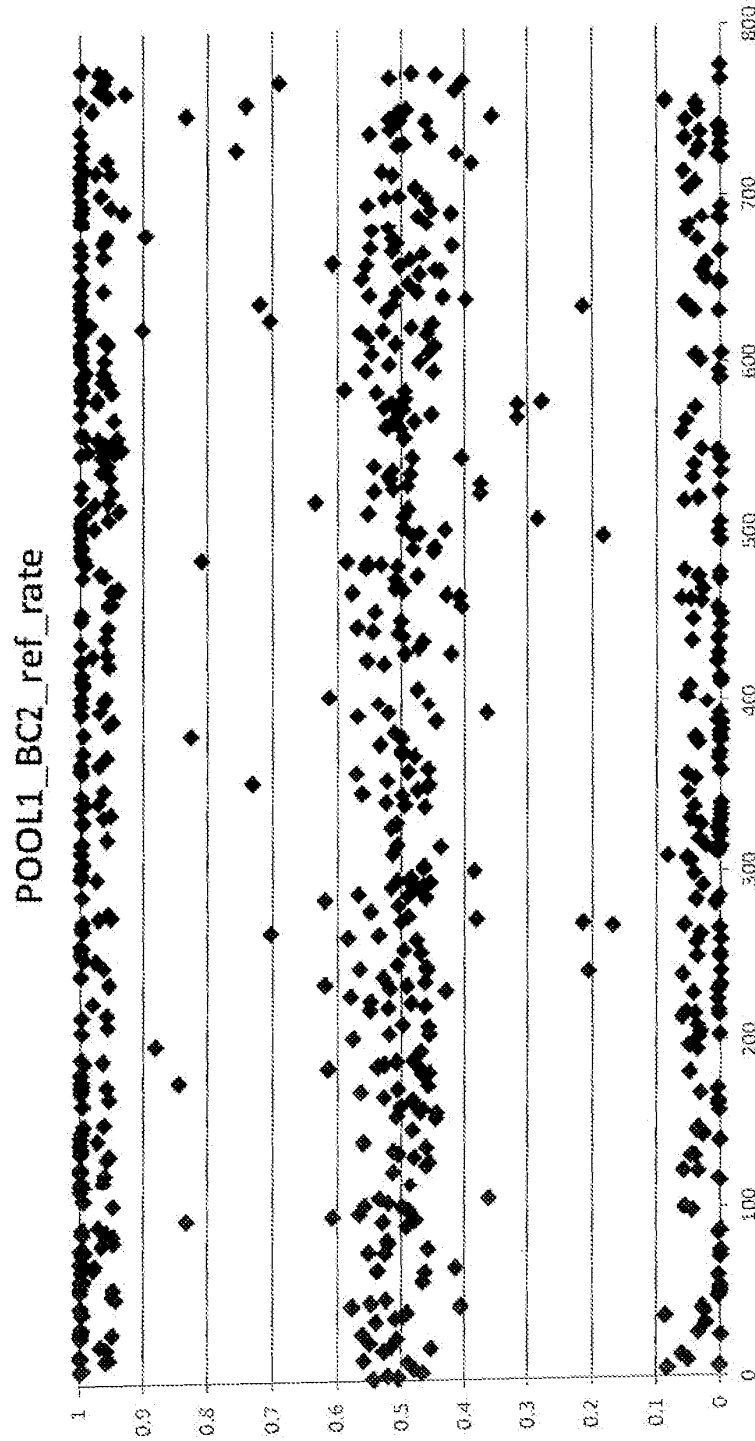


FIG. 17B

No fetal DNA

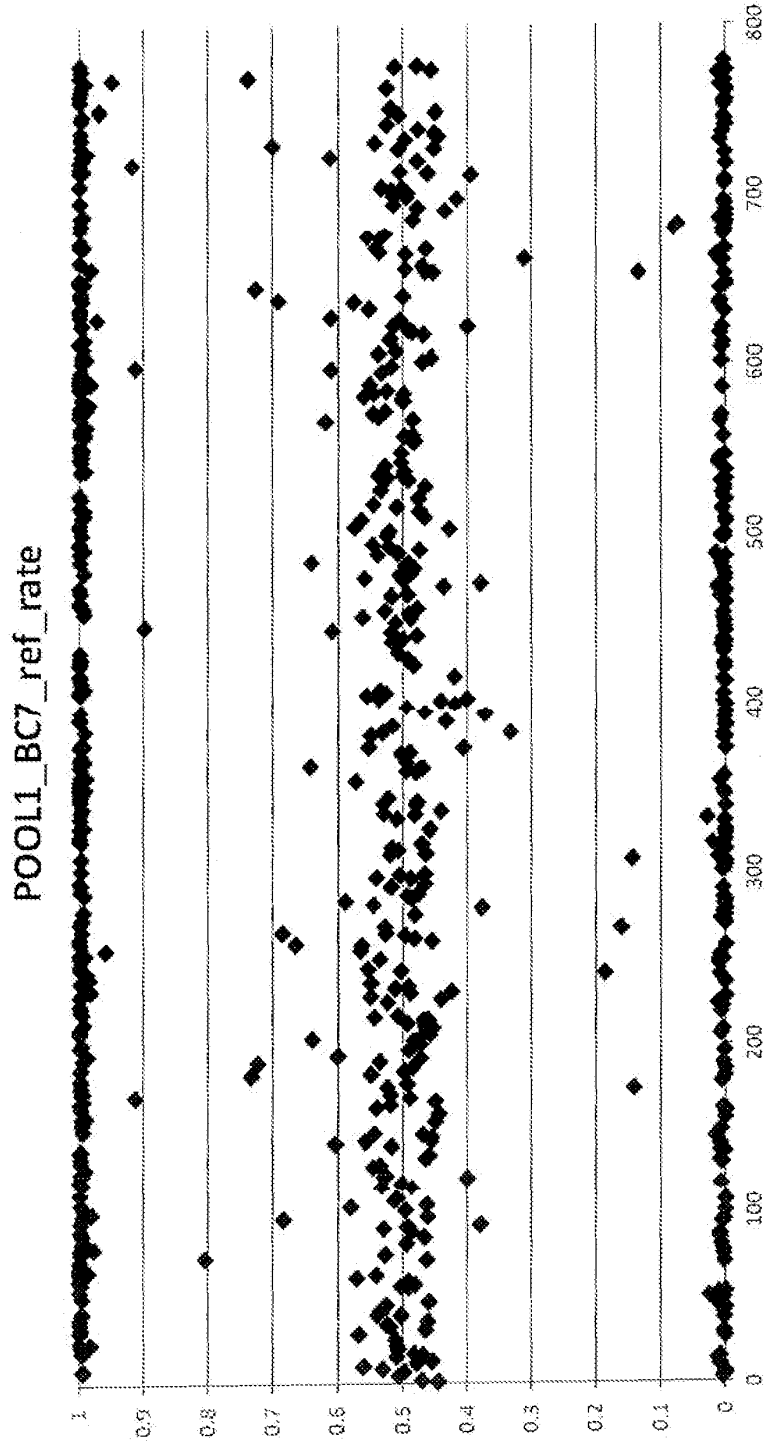


FIG. 17C

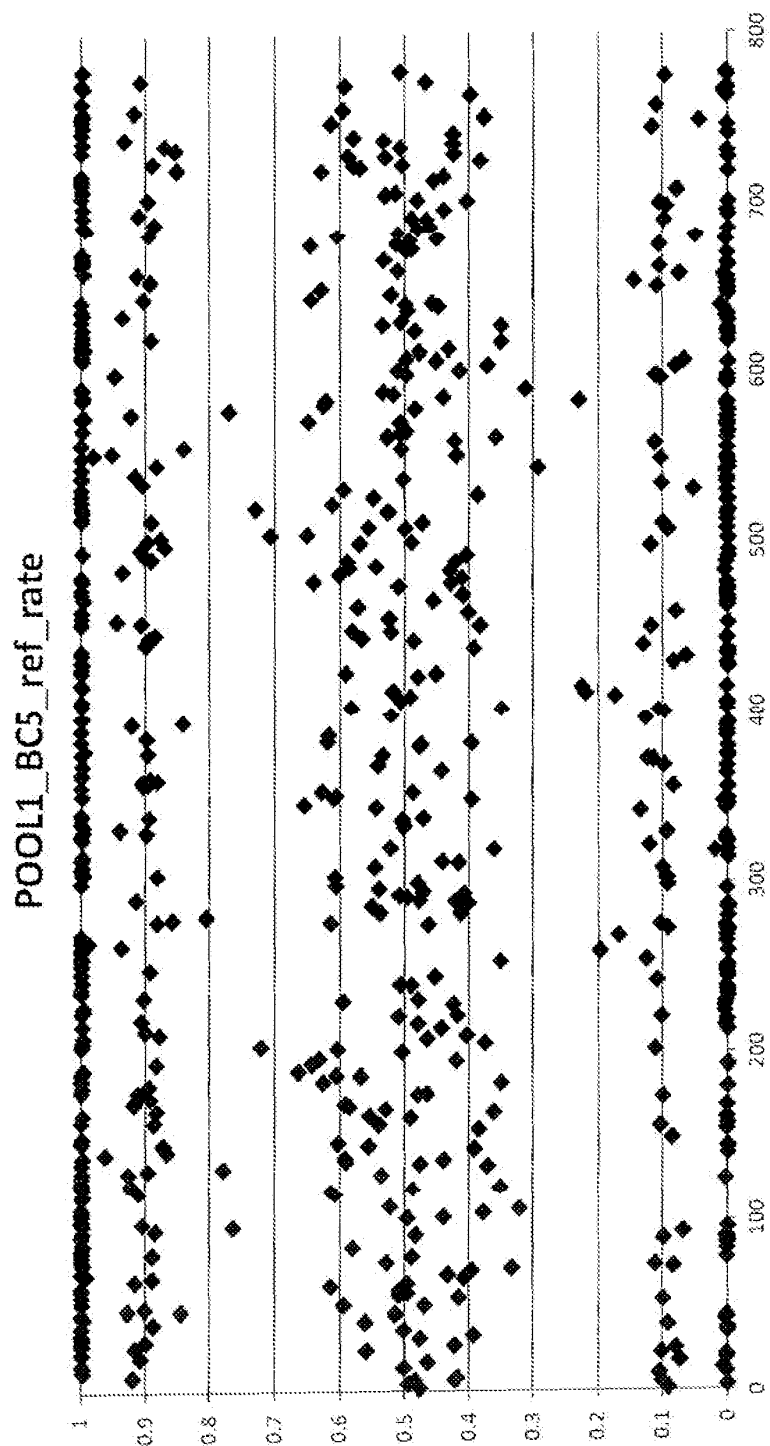


FIG.17D

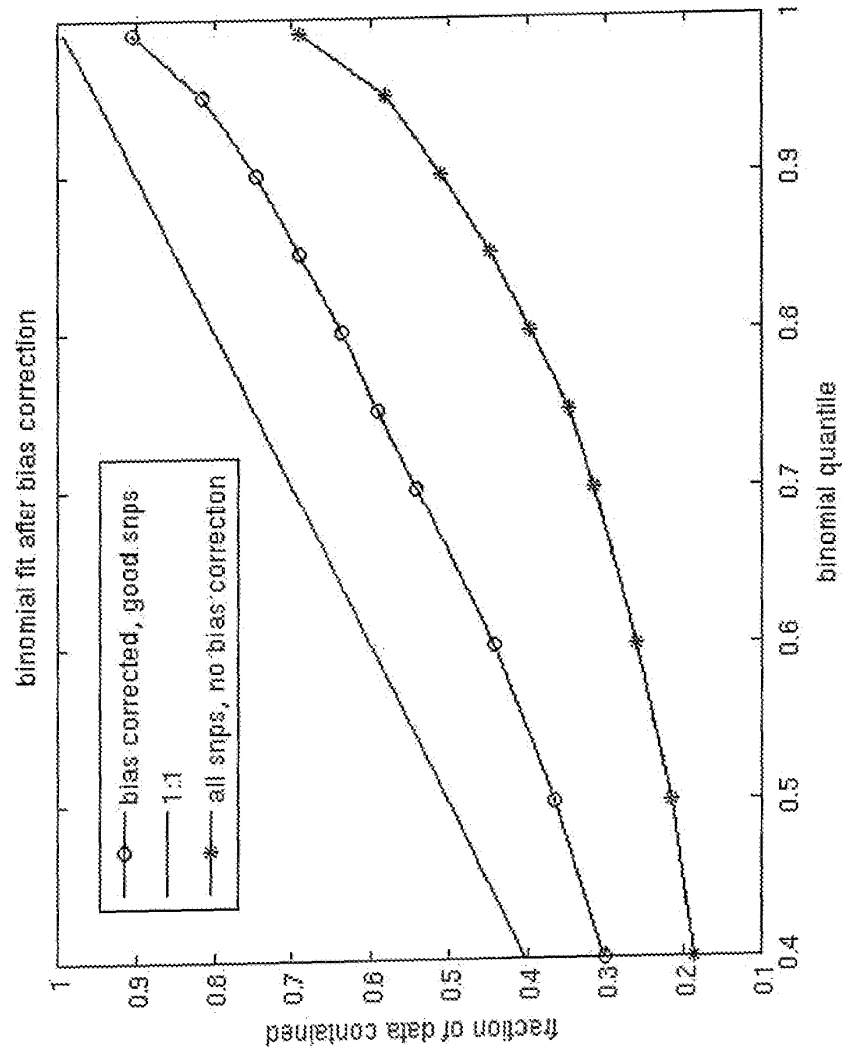


FIG. 18

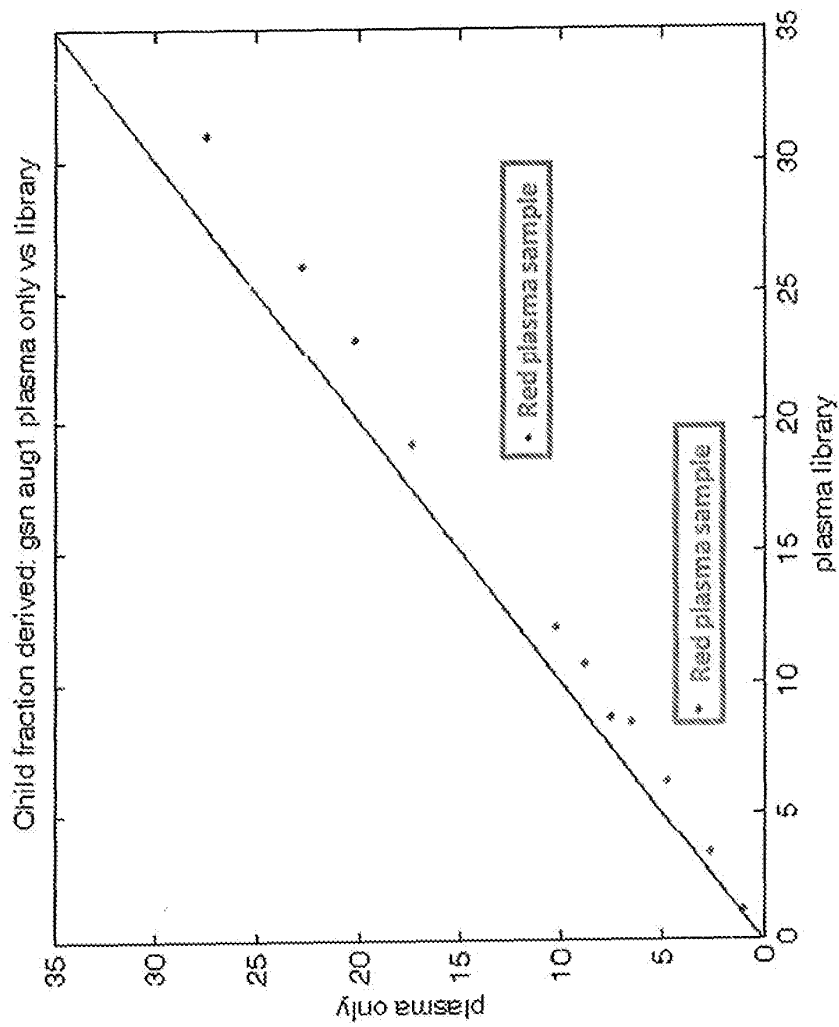


FIG. 19

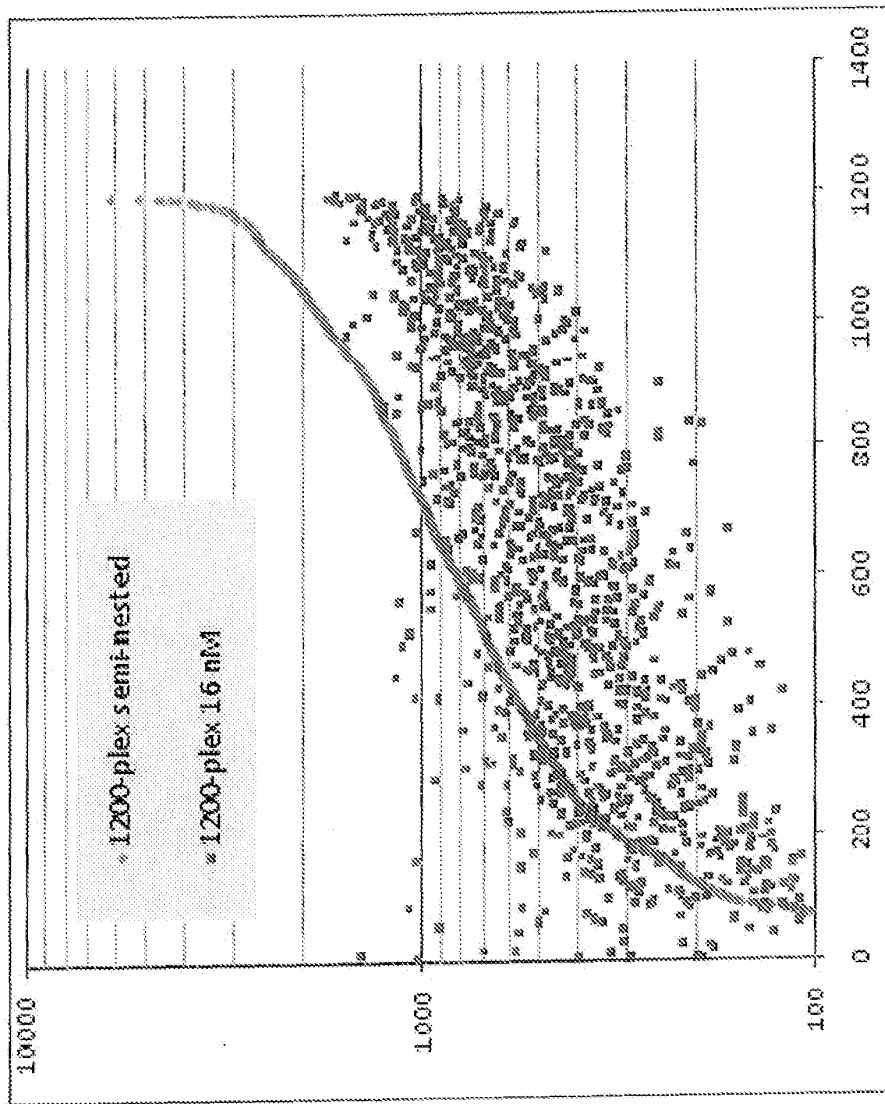


FIG. 20

DOR range direct 1200-plex, 10 nM, 10 min TA

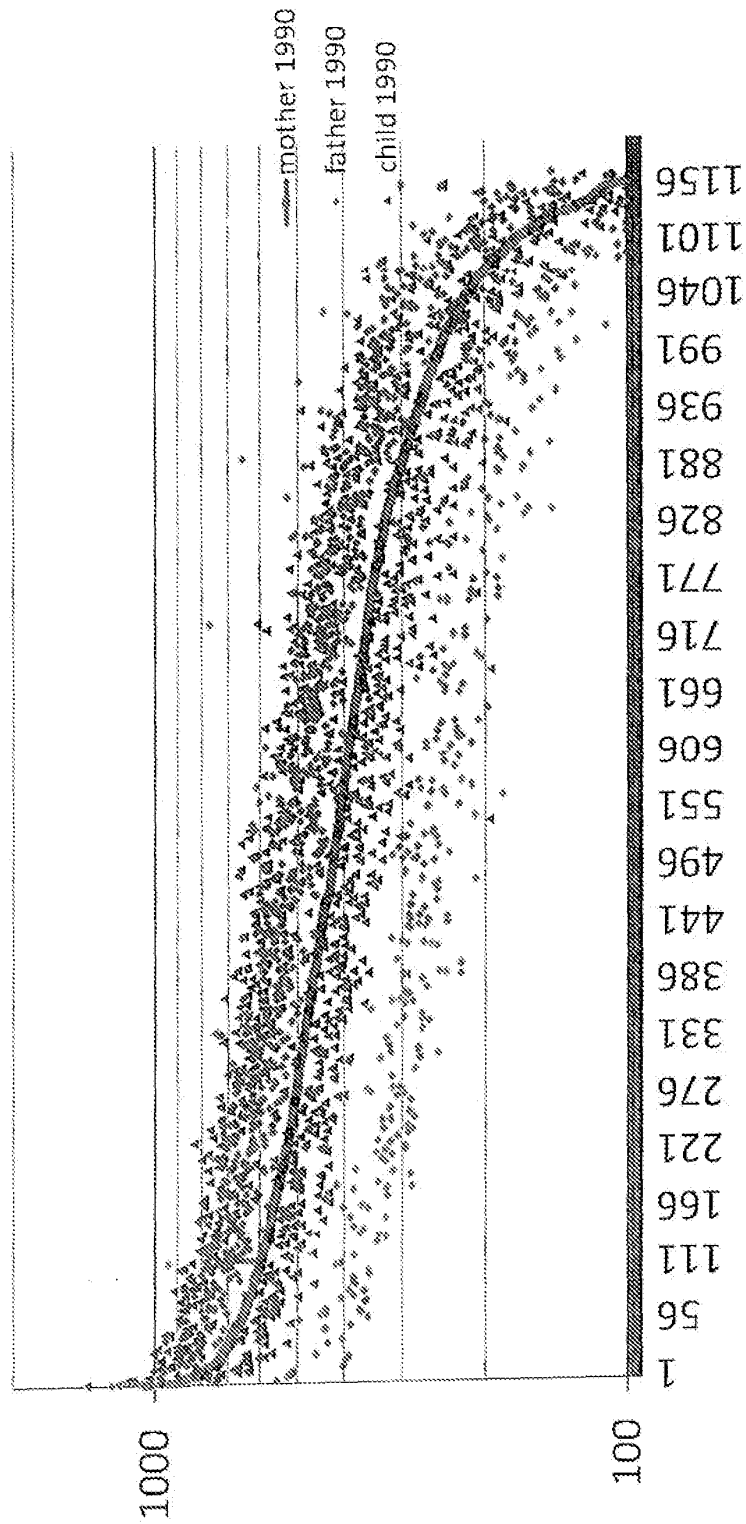


FIG. 21

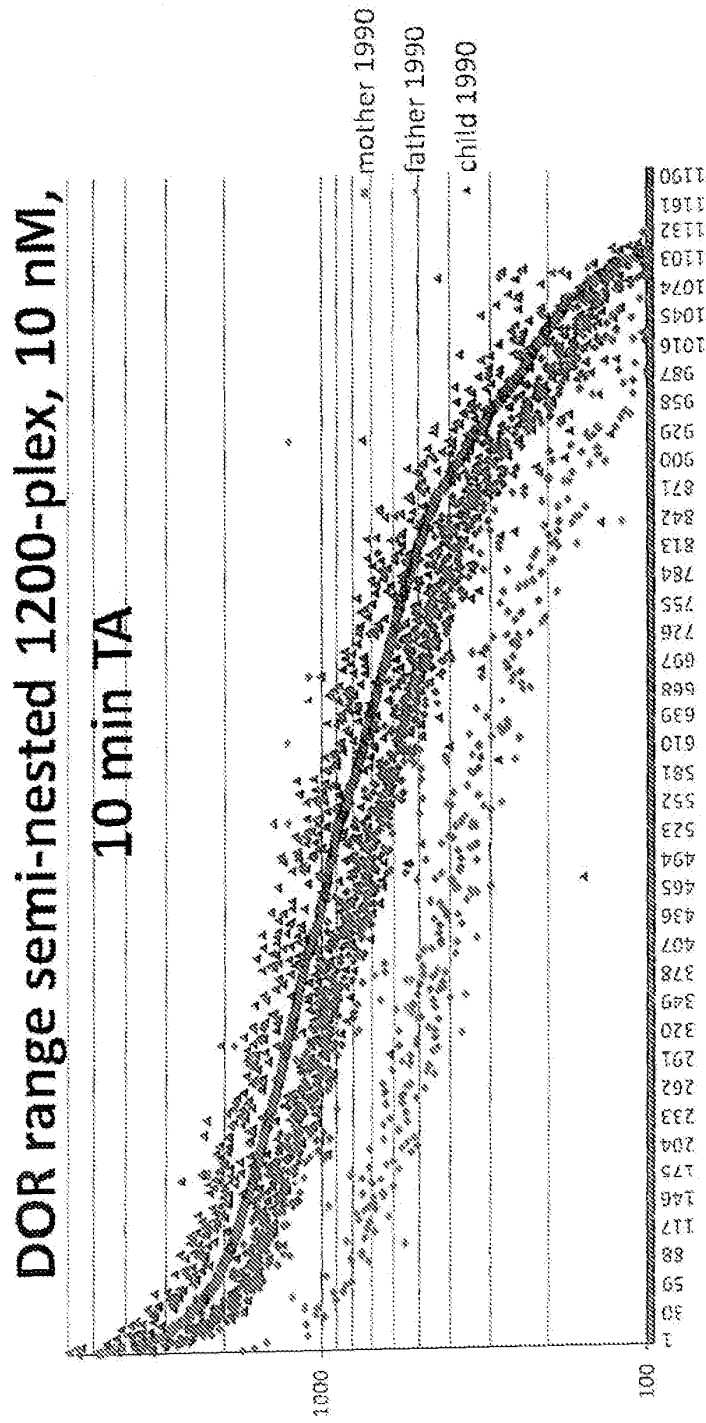


FIG. 22

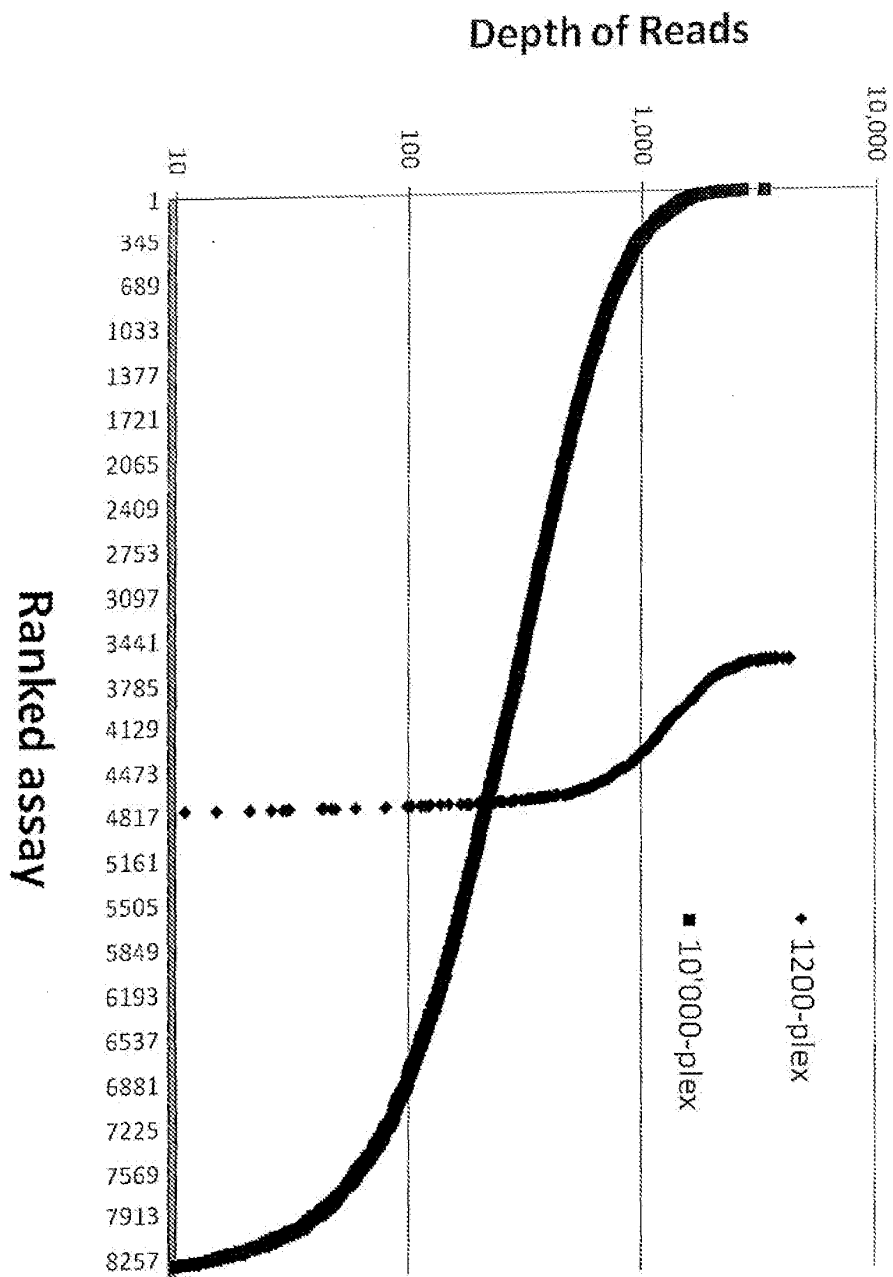


FIG. 23

21/279

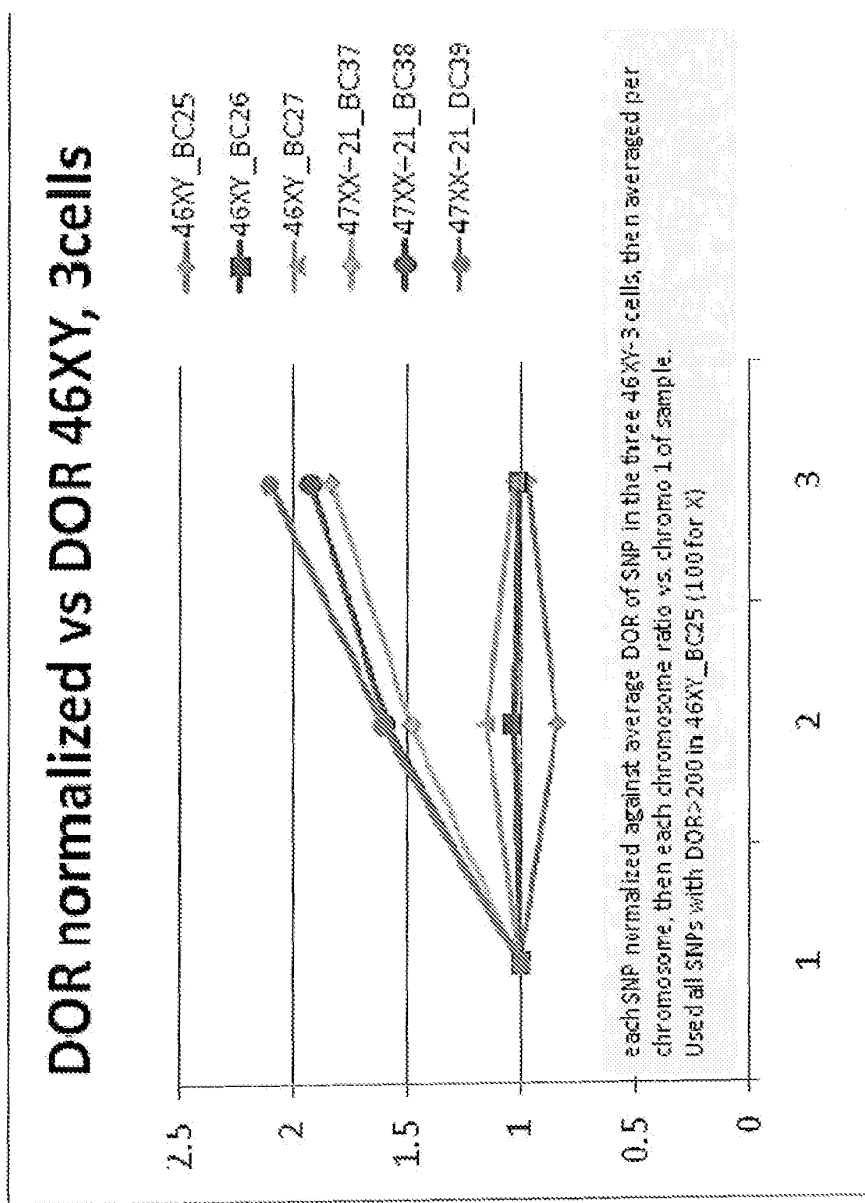


FIG. 24

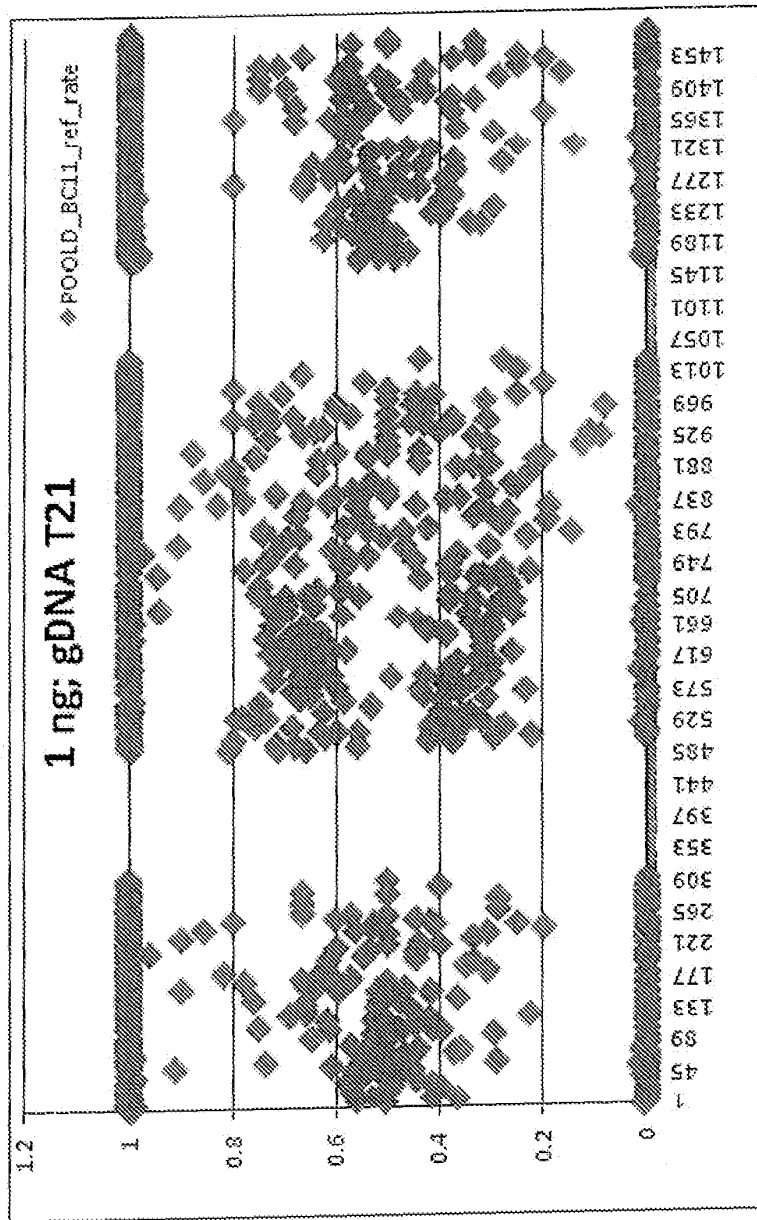


FIG. 25A

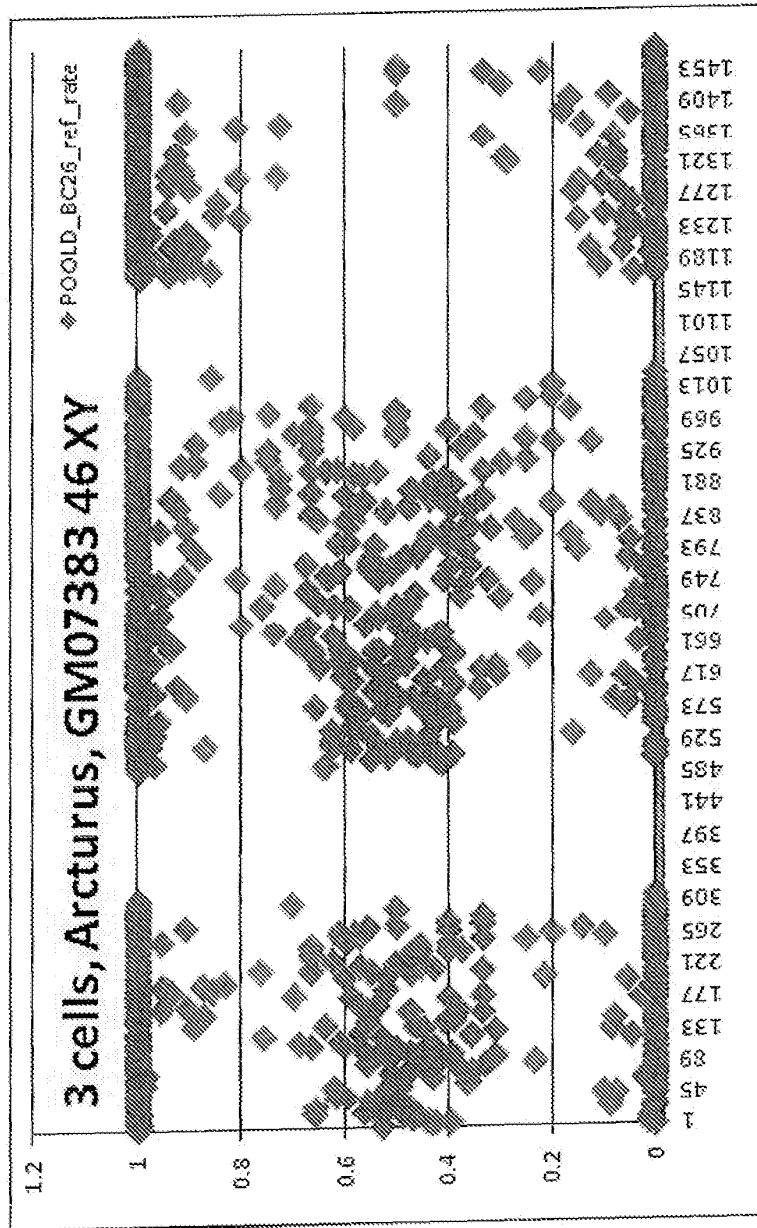


FIG. 25B

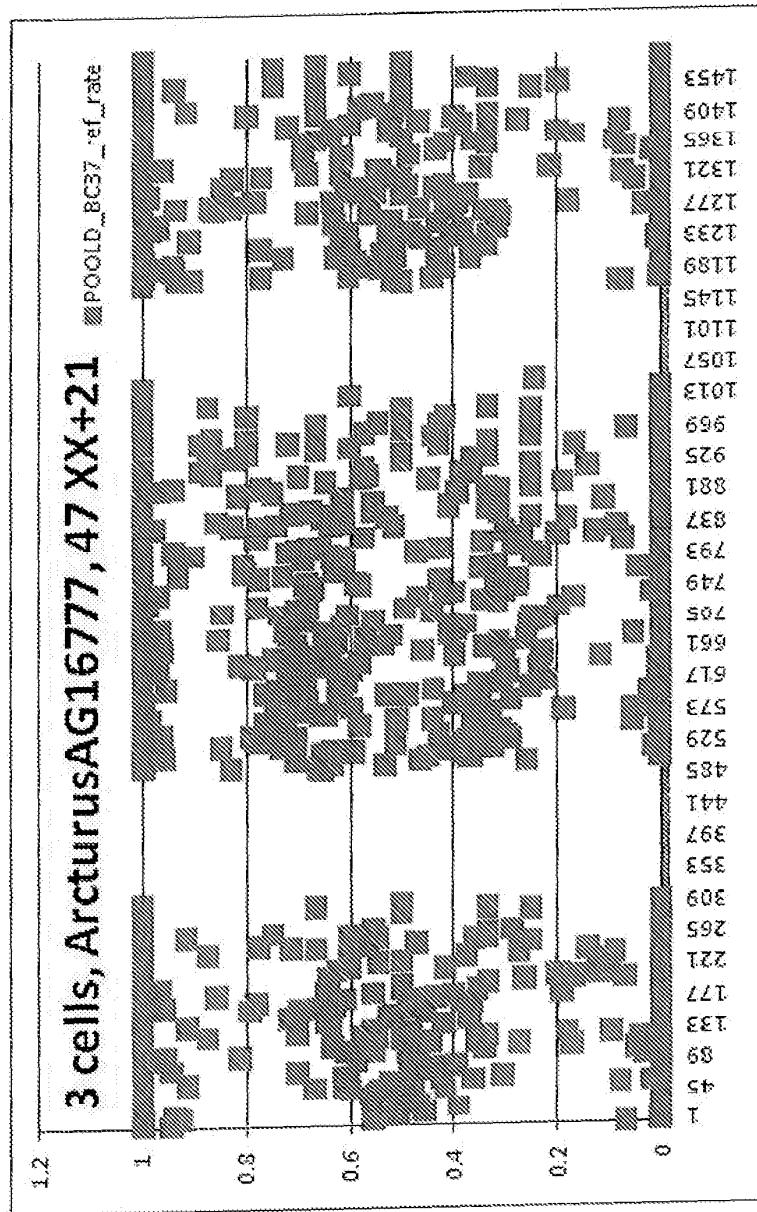


FIG. 25C

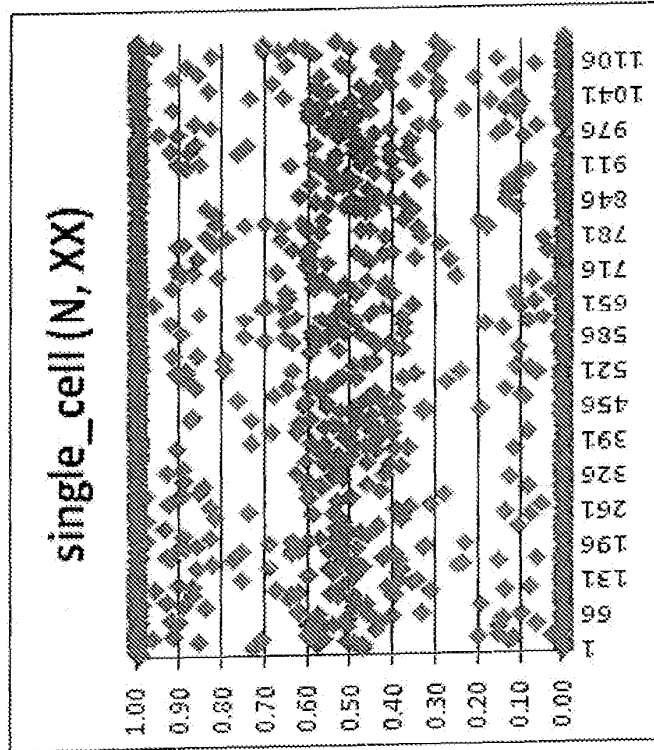


FIG. 26B

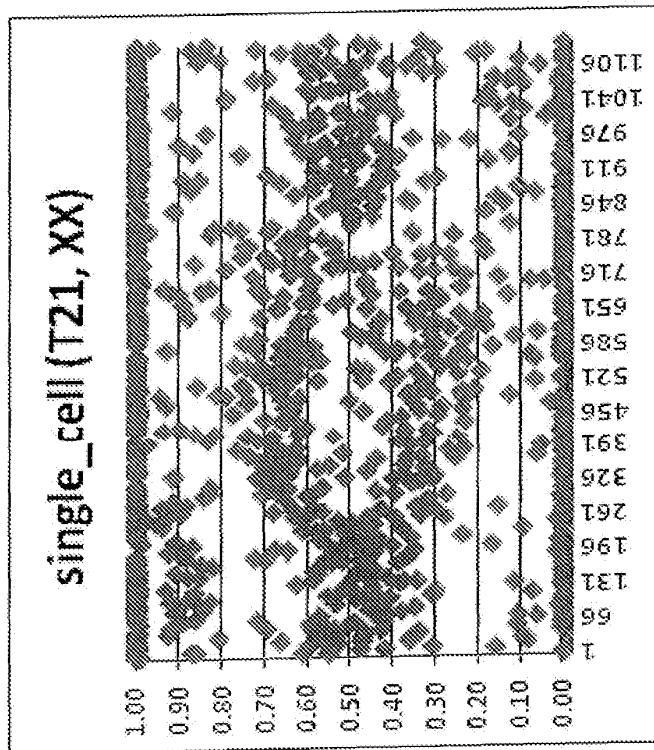
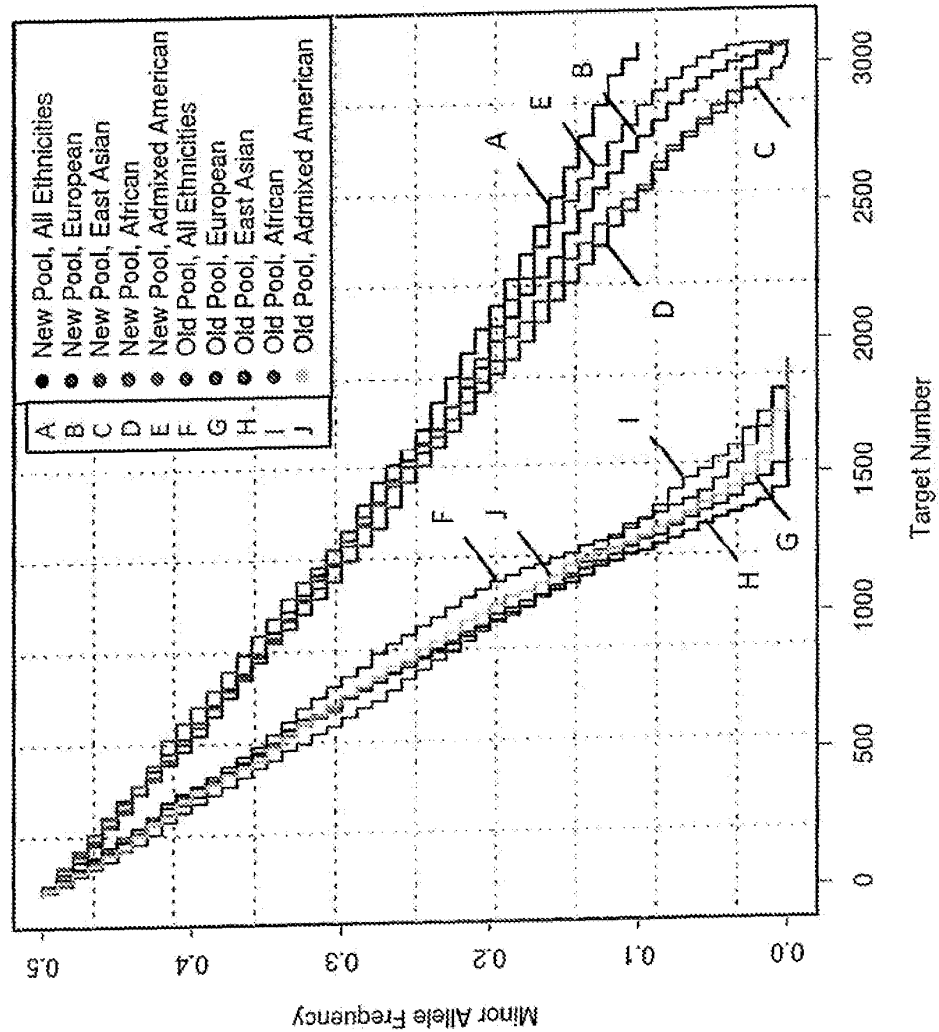


FIG. 26A

Minor Allele Frequencies for NIPD Targets, Chromosome 21



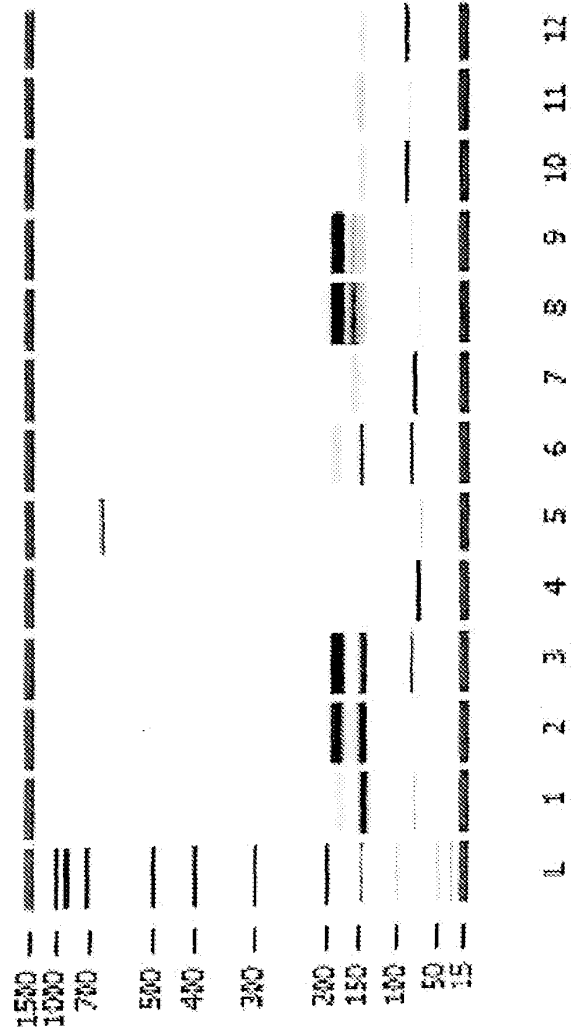


FIG.28A

Direct PCR 2.4k 24ng 10nM

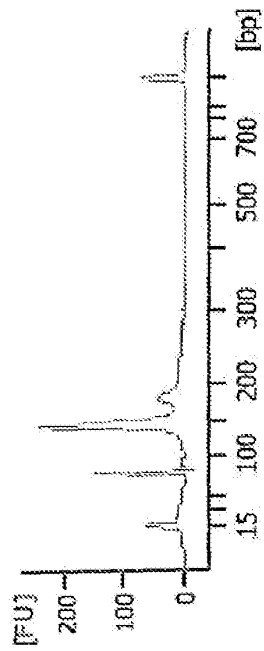


FIG. 28B

Direct PCR 2.4k 80ng 10nM

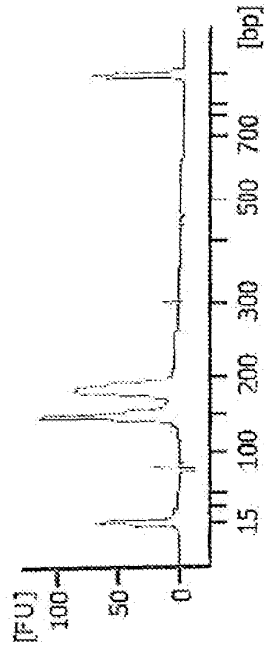


FIG. 28C

Direct PCR 2.4k 250ng 10nM

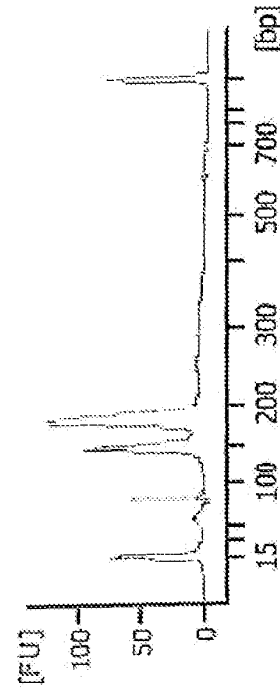


FIG. 28D

Direct PCR 2.4k 24ng 1nM

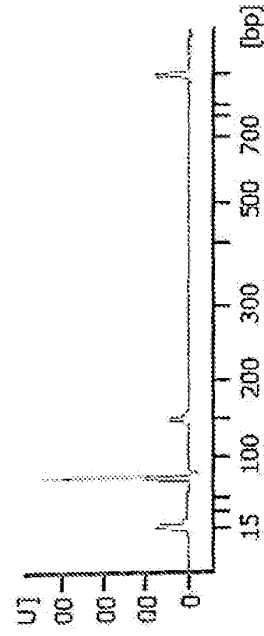


FIG. 28E

Direct PCR 2.4k 250ng 1nM

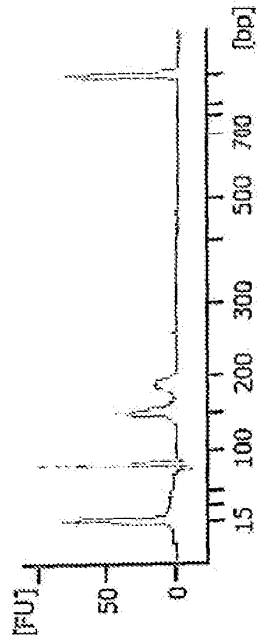


FIG. 28G

Direct PCR 20k 80ng 10nM

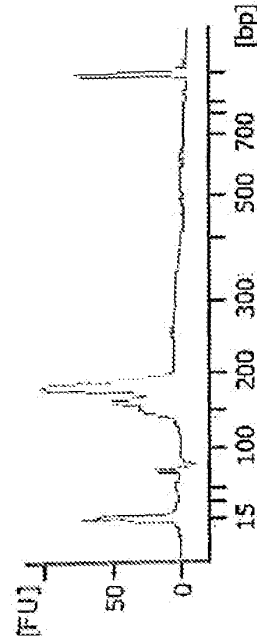


FIG. 28I

Direct PCR 2.4k 80ng 1nM

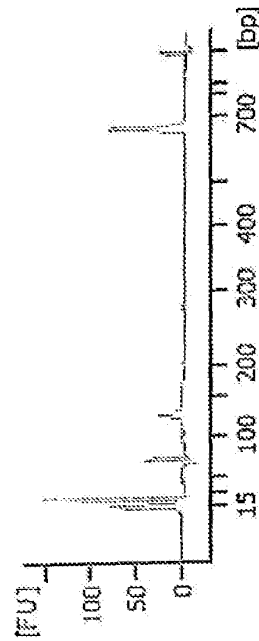


FIG. 28F

Direct PCR 20k 24ng 10nM

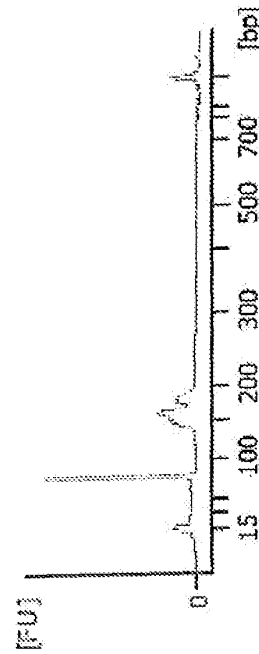
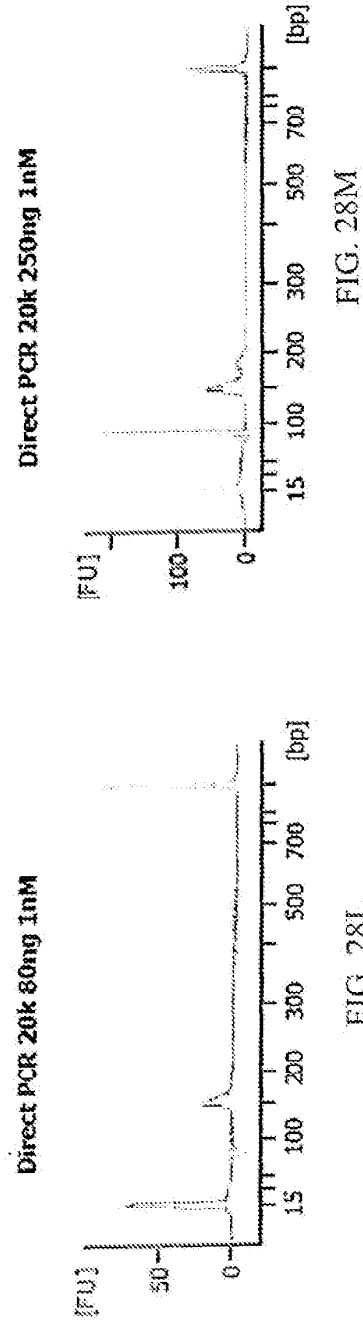
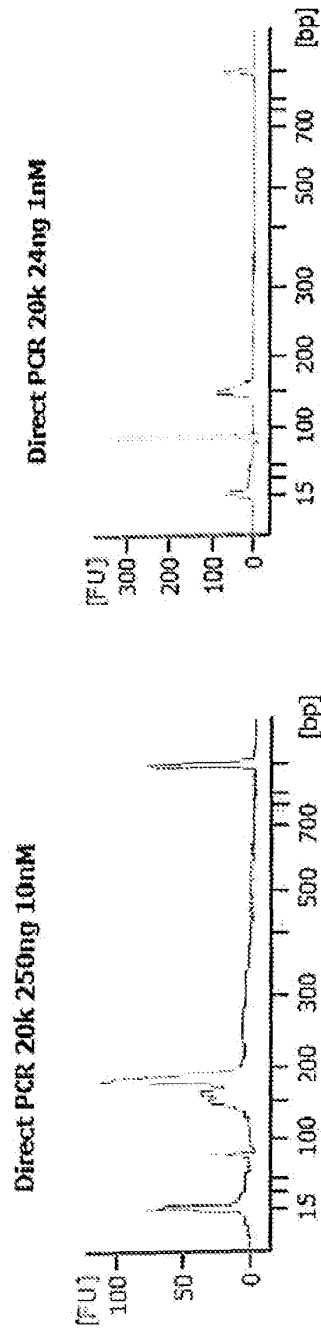
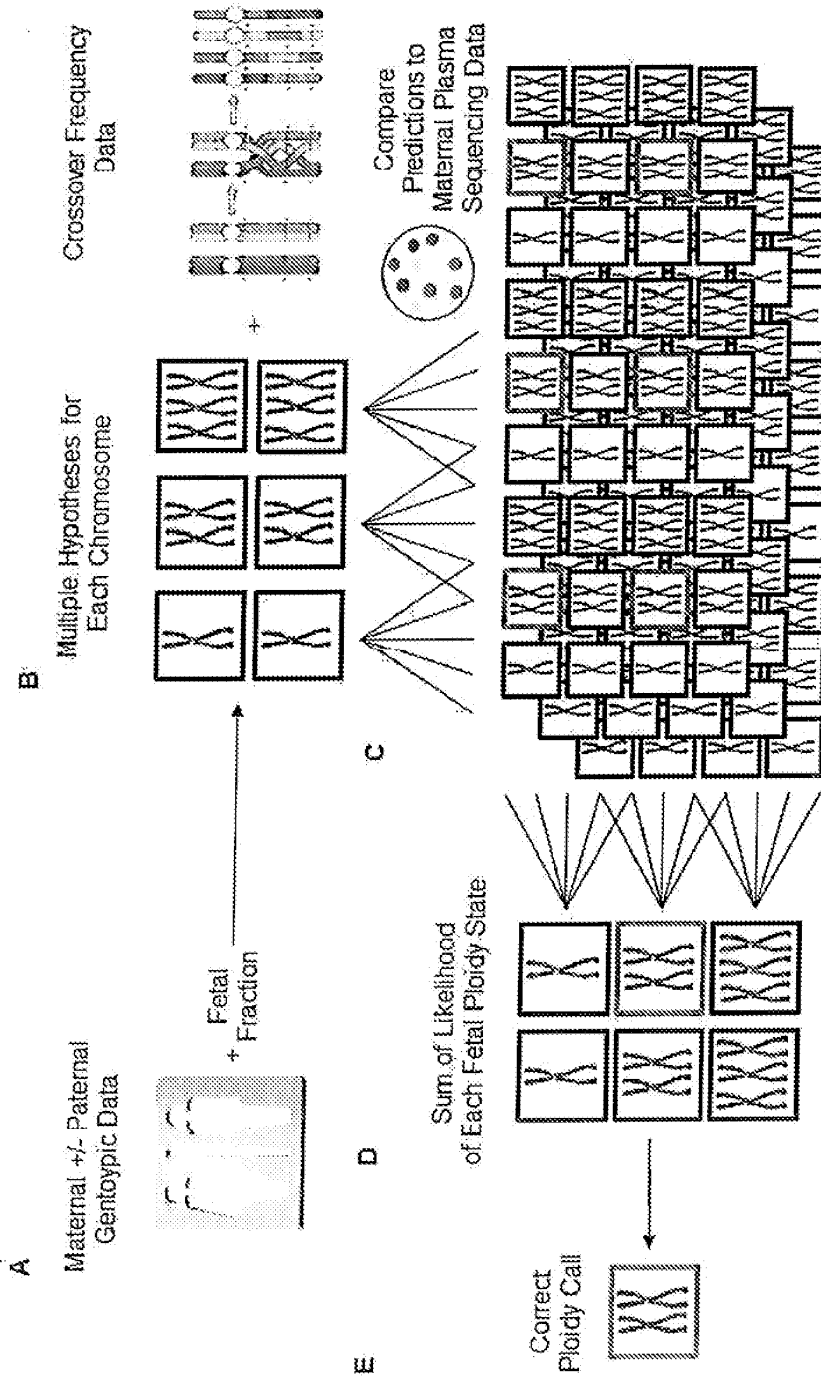
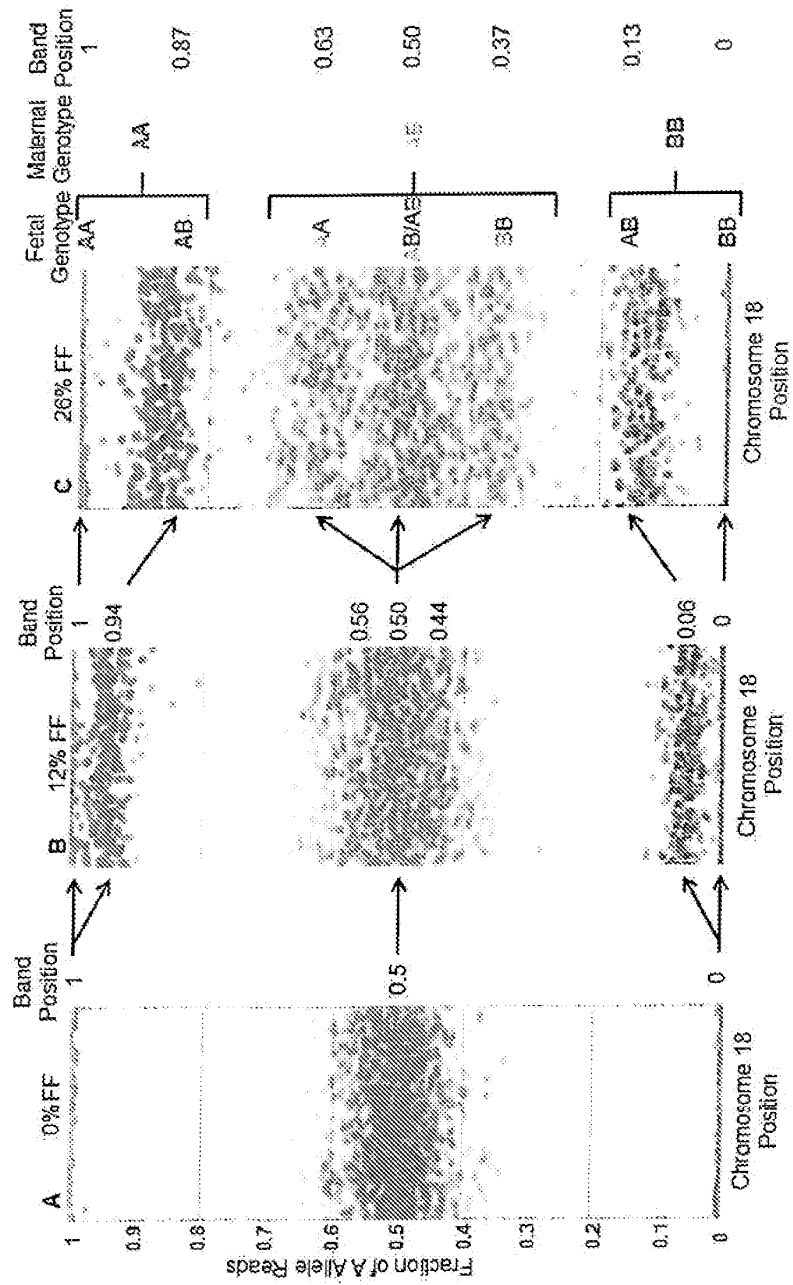


FIG. 28H

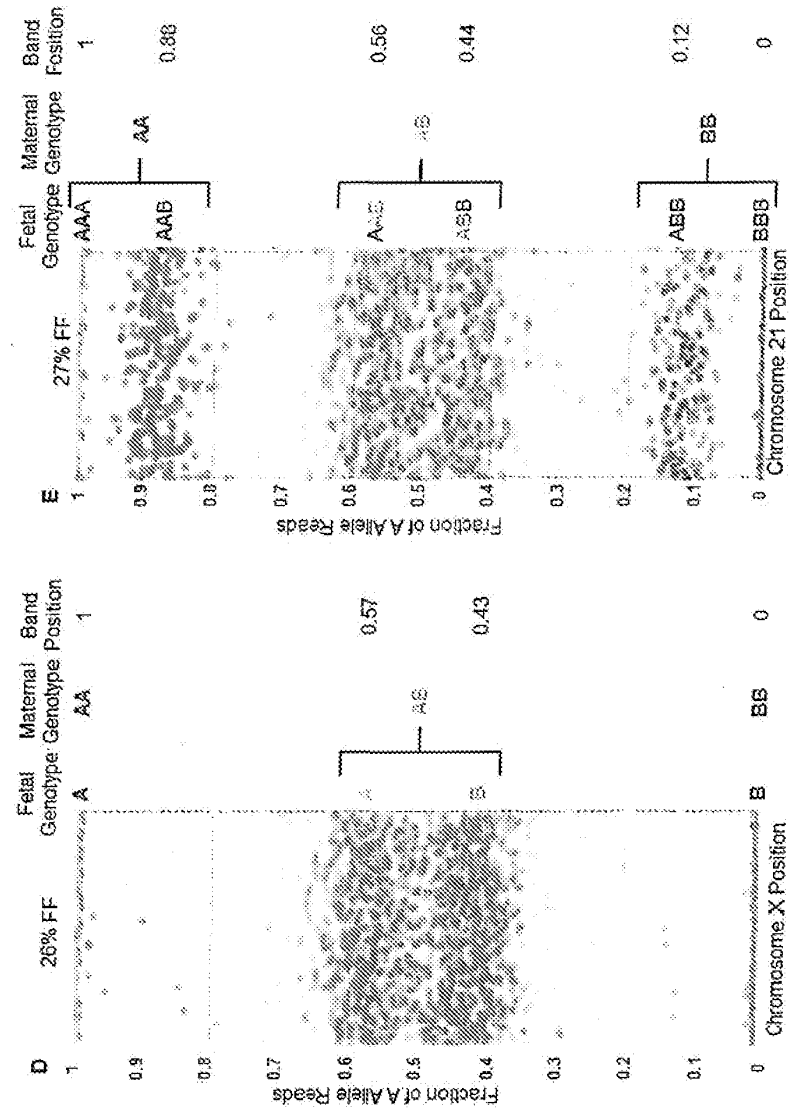




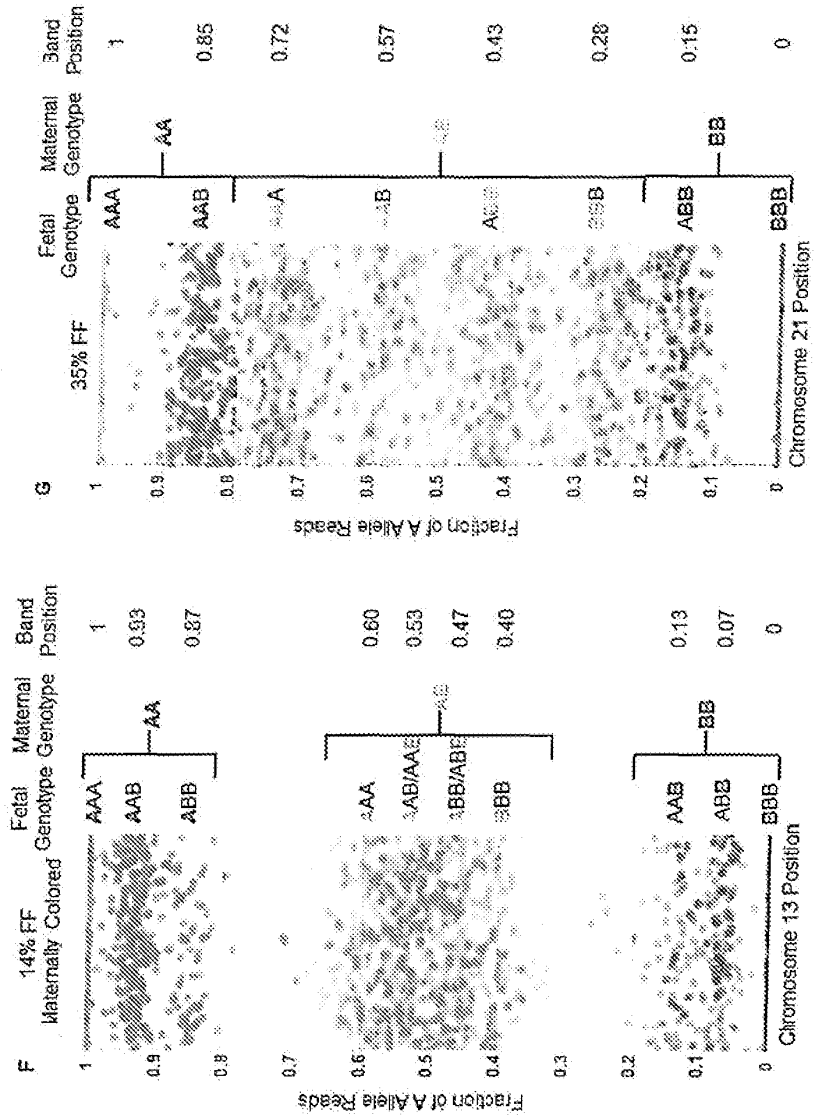
FIGS. 29A-29E



FIGS. 30A-30C



FIGS. 30D & 30E



FIGS. 30F & 30G

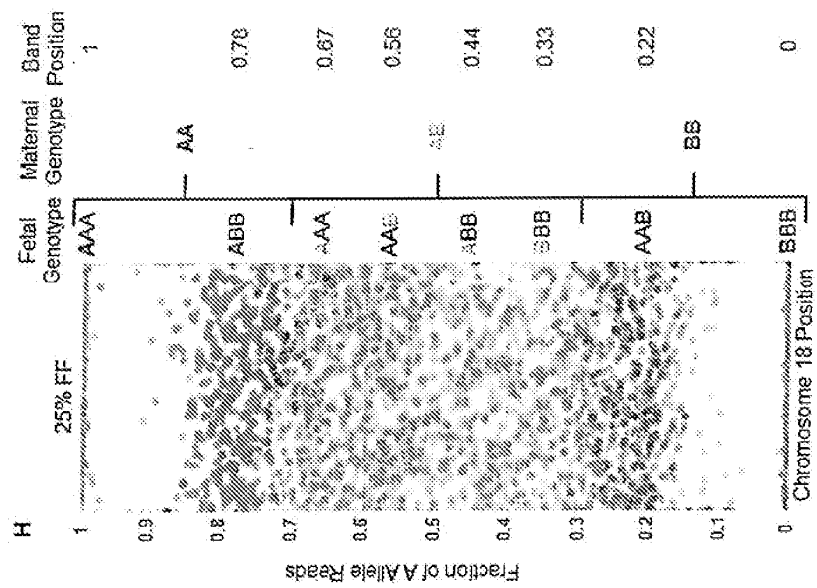
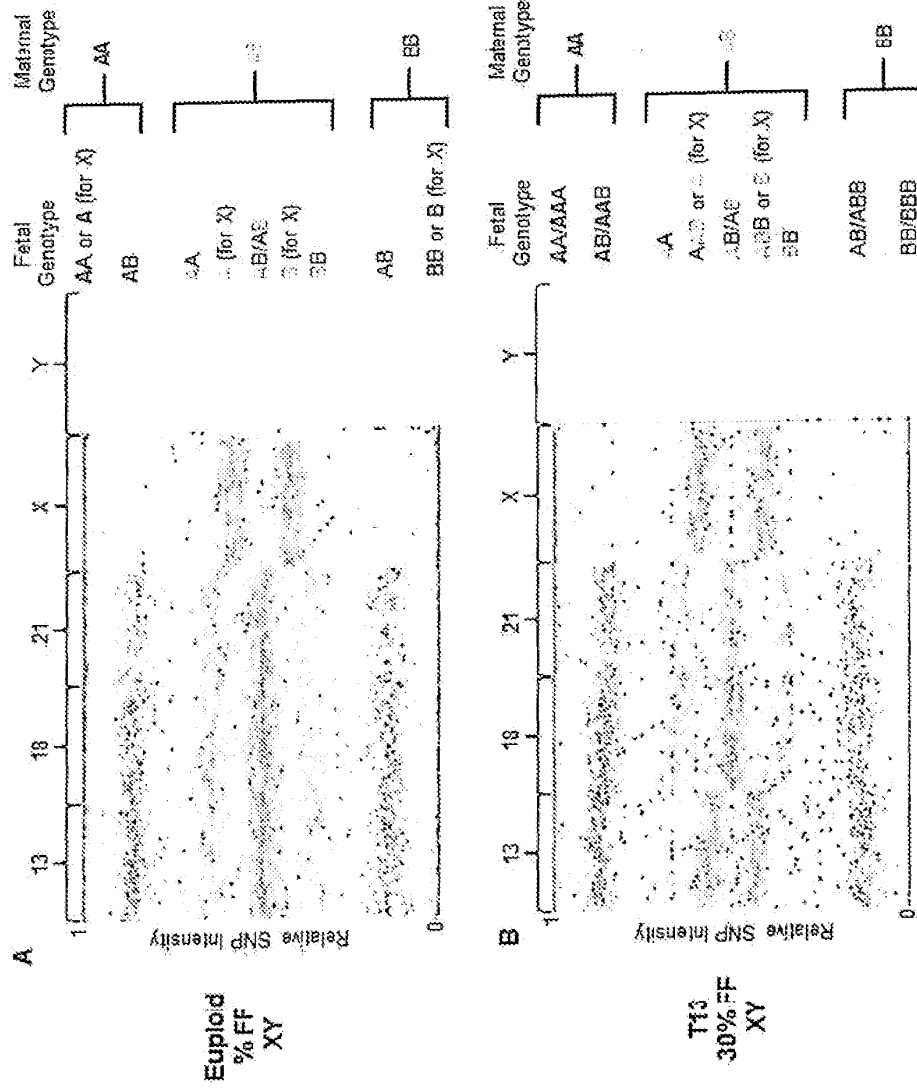
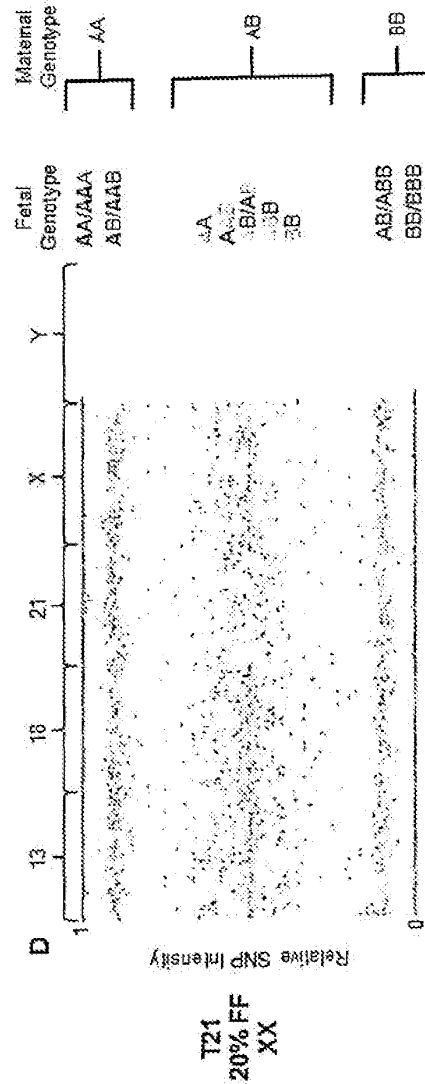
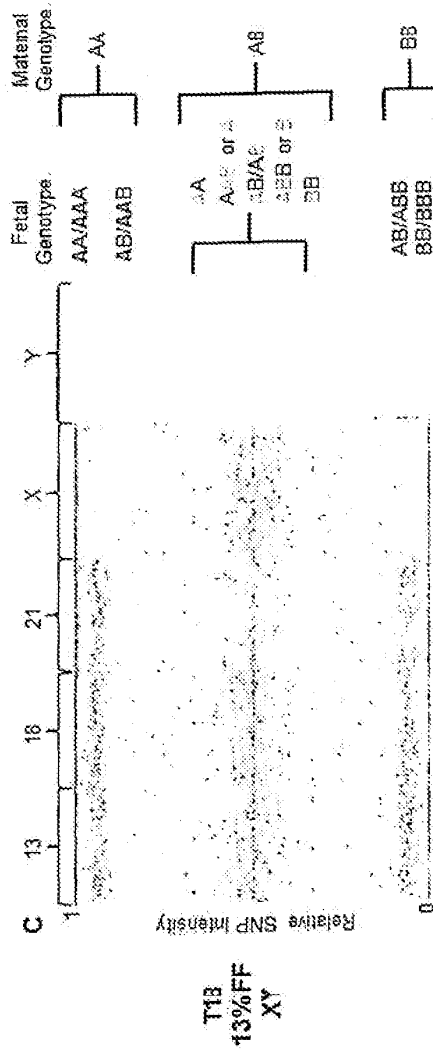


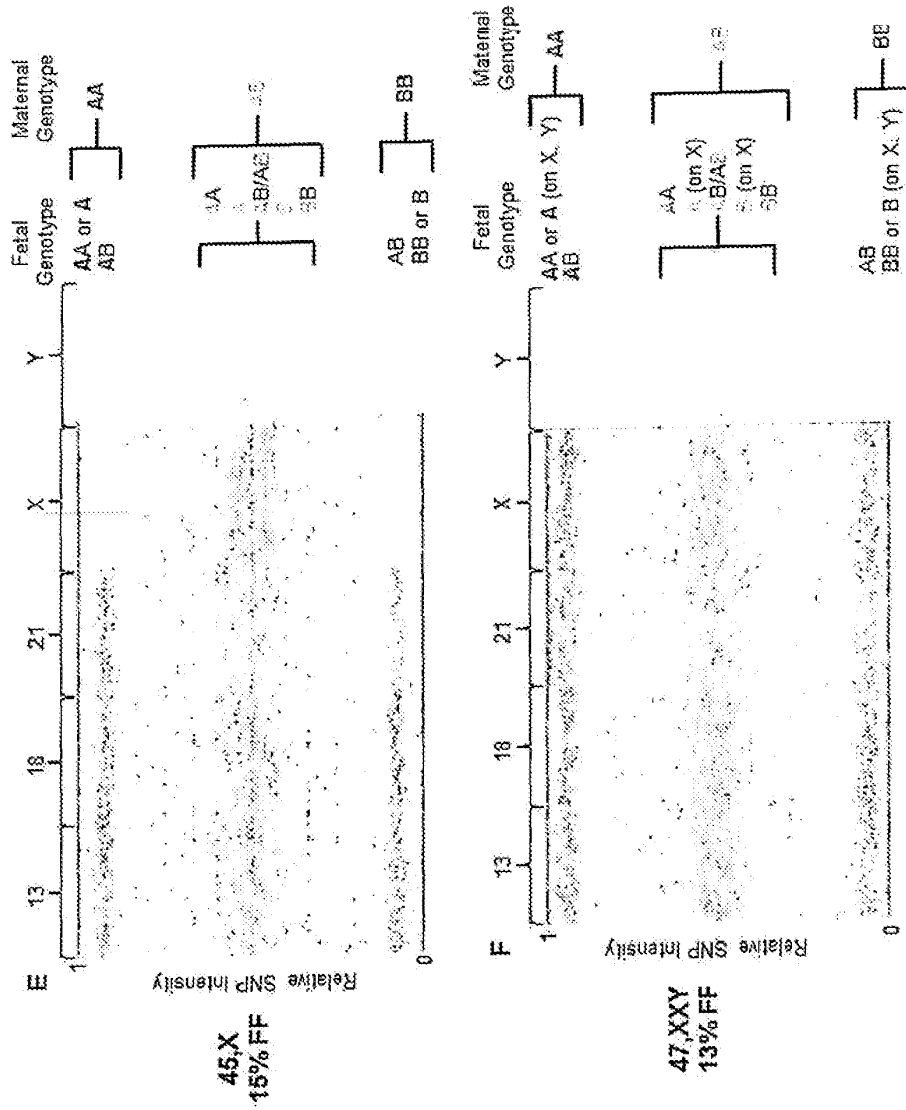
FIG. 30H



FIGS. 31A & 31B



FIGS. 31C & 31D



FIGS. 31E & 31F

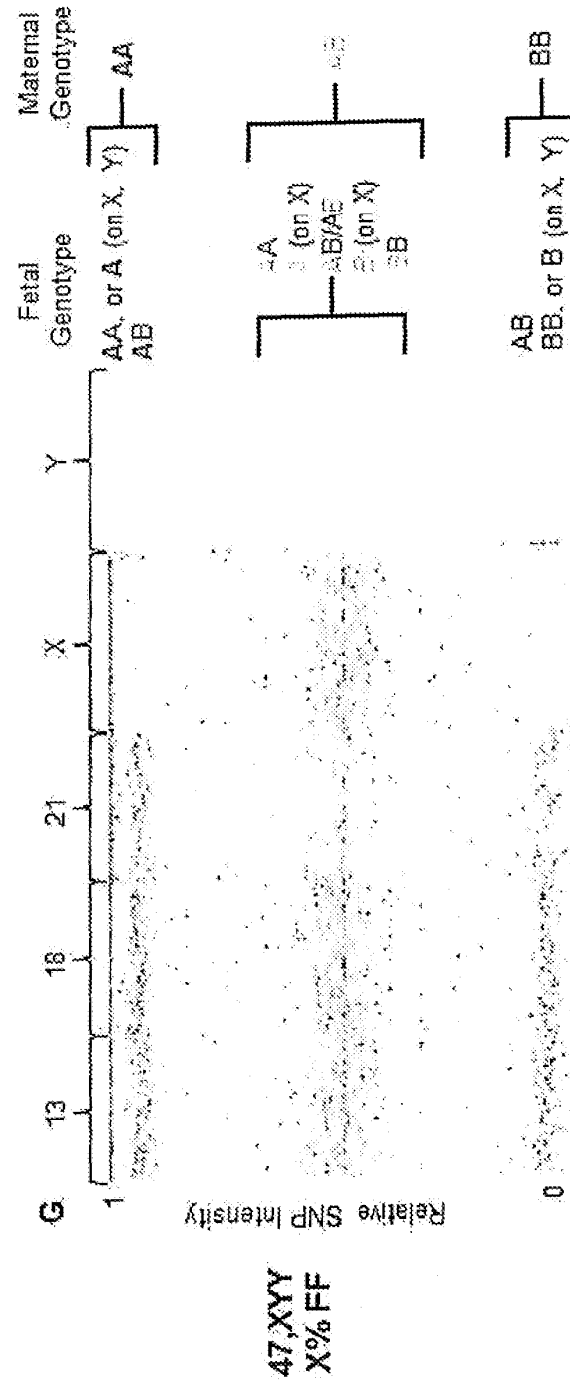


FIG. 31G

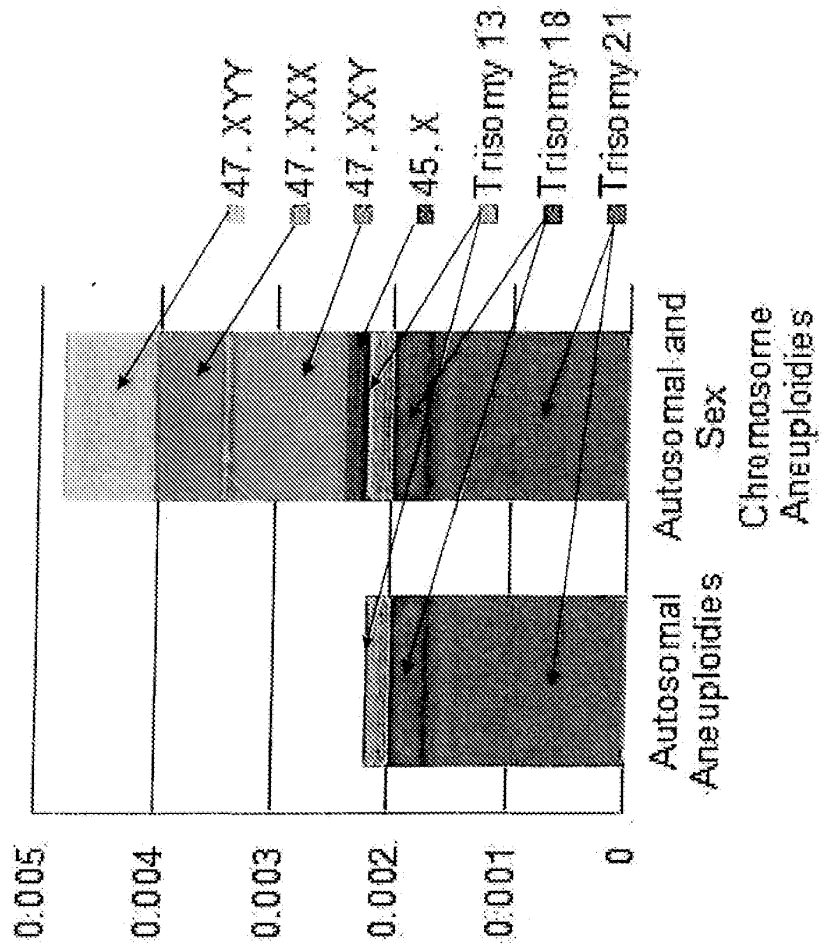
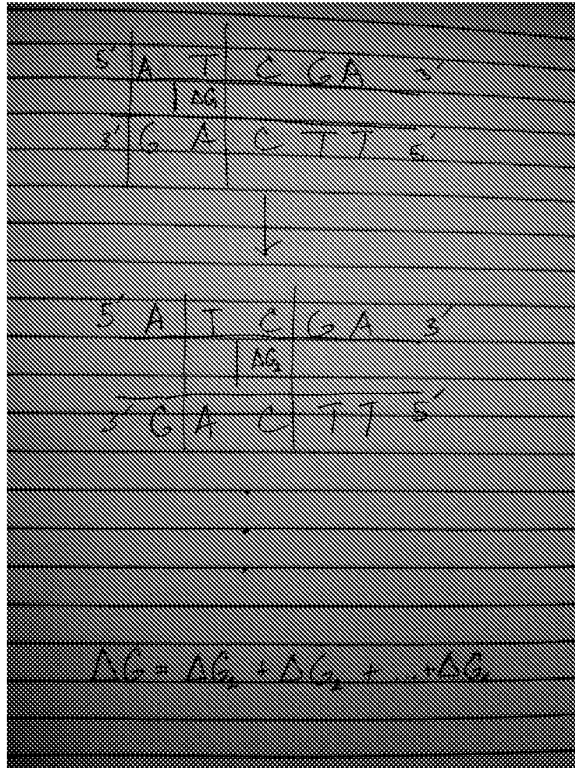


FIG. 32

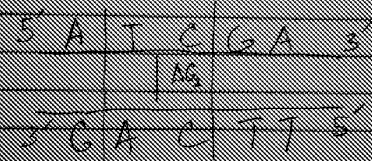
42/279

FIGs. 33A and B

A



B

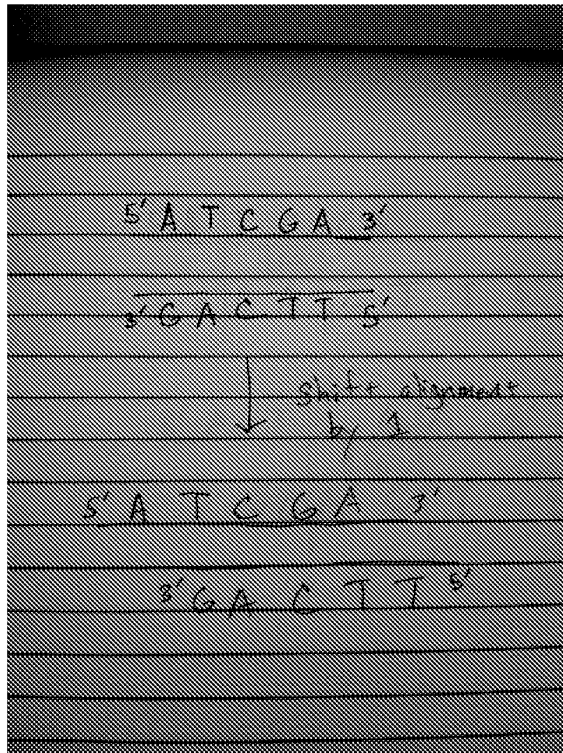


$$\Delta G = \Delta G_1 + \Delta G_2 + \dots + \Delta G_n$$

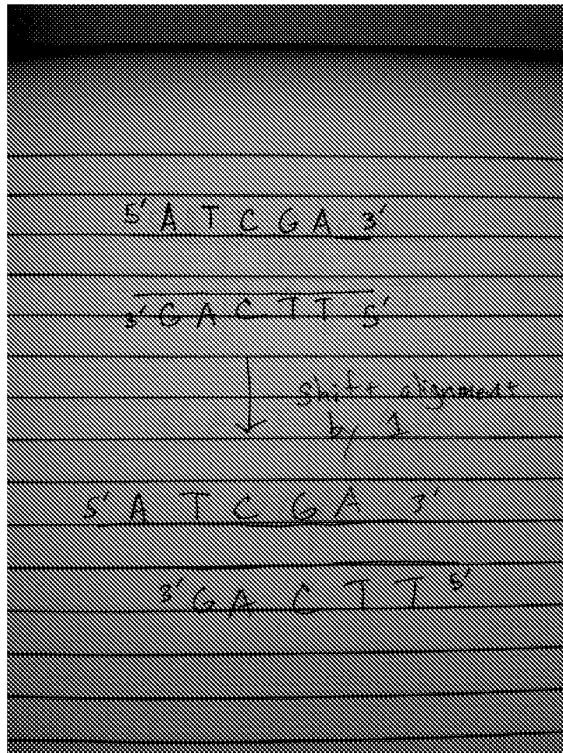
43/279

FIGs. 33C and 33D

C



D



44/279

FIGs. 33E and 33F

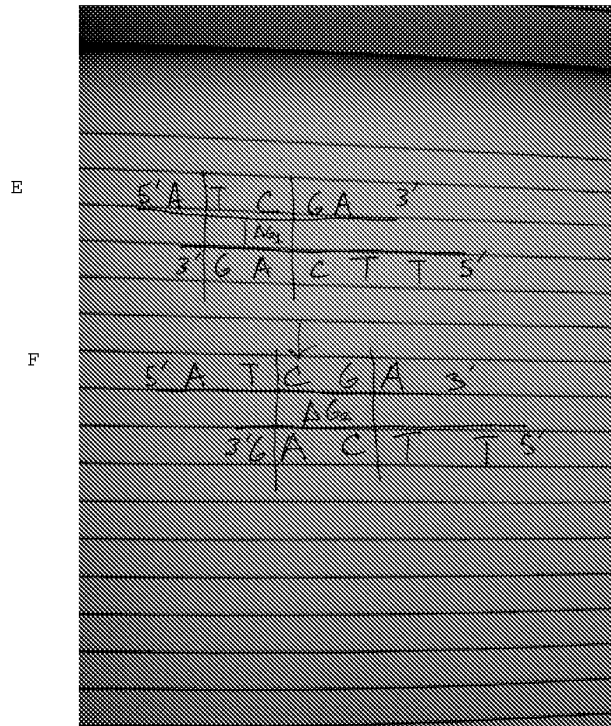


FIG. 34

Target		SEQ	SEQ		SEQ ID	
No.	Pool A Sequence (5' to 3')	ID	ID	NO.	NO.	
1	GGCACAACTTTGGGAGACAAA	1	CTCACTAAACTTTTCCCCAGAACTCA	1201	GCTTAAGCCACAGAAAGGCACAAC	2401
2	CCTGGAACCTGAAAGCTTGCAAAAAG	2	CCTCTGAAGGGAGACTGAAACAAC	1202	CGAGTGCCCTGGAACCTGAAA	2402
3	ACAGGGTGCTCTCCTCTTGA	3	GCAAGAATGCTTGGCTGCAA	1203	AGCCACCACTCTGCTTCTGA	2403
4	GGAAGCAACAGGTAGAGCCTGGTA	4	GTGGCATTTCAGTGCCTTTG	1204	TTGGGGACCCCTGGACTAAG	2404
5	CTACAACAACAGAGCTCCAGGAT	5	GCAGCTTGTTCAATTGTGGTTCA	1205	CCTCCCCAGTATCTTACCACTACAAC	2405
6	TGTCCTTGGTCGTATGTGAGAGA	6	GTGAGGATGAGTTTTCAGTGGCTATC	1206	CACCAAGCCCTCAACTCCTAAA	2406
7	GCAGGAACTGGCTTGCCCTT	7	CCCTGGACAAAATGTAAACGCCAAAGT	1207	GAAGTGAAAGAAAATGGCAGGAAC	2407
8	AGGTTTTCGGCTTTAGTTGTGTGA	8	ACCTAGCTATCCTTCCAGCATTTT	1208	GCTGGTATTGTTTTGGGGATAGAGGTT	2408
9	TGTCGTCTTCTGCCGGCATT	9	GCTGGACAACTACTGCCTCTTC	1209	GTGGAGGAAATTAGATGTCTGCTTCT	2409
10	GTCCCTCACACCTTTCTACCAGAAG	10	GCCAATAGCTGCTTGTATGCAAT	1210	GGGCAAGTCCCTCACACCTTT	2410
11	GGCTGCAGGAGTAGAGGTCTAAATG	11	TAGTTGCCCGGGATTCCCAAGA	1211	TGAGGTCTGGCTGCAGGAGTA	2411
12	GGCAAGAAGAAAACTGGAGCCAAGA	12	GGGAGAGGCTGGTCTGAGT	1212	CTGAAGCCCAAGTGGCAAGAAAG	2412
13	GAGCCTGAGTTCTTGATCACTACA	13	GTTTGTGAAAGGTCAATGTGAGGAA	1213	AAGTCTCTGAGCCTGAGTTCTTG	2413
14	CCTGGA AAAAGCCCCGGTAGA	14	TCCTCGGGAGCTCACAACCTTA	1214	TCTCAGGGTGCTCGAAAAAAG	2414
15	GCAATGGTCCCAGTGAGAGTT	15	TCCCACTGATGCCAGACCAA	1215	GCACGTGAAAAGAGAGGCTATTG	2415
16	GCCCTTTGGAACCTGACCAA	16	CCCAGCTTAAGCAAAATAGGGCAAGTA	1216	TGGGAACCAAGCCCTTTGGAA	2416
17	GGCCTTGATTTGACCCTTCTTTTC	17	TGGCCAGTAGTAAGTTGAGAAGACTA	1217	GGCTTCACTATCAAGAAGGGCCTTGATT	2417
18	CCACCCGCTTCTGAAACACATC	18	CCGGAAGCTTCACGTTCTGT	1218	AAGAGGCCACCCGCTTCT	2418
19	TGGCGCTAAAGCCCAACA	19	GGAGGGAGAGCTCCATCTCTGA	1219	TGGAGCAGGCTGGCGCTAA	2419
20	CCTTCCCCGCTTCTGGATATGAAA	20	CCGGCAATAGGACTCAGCAA	1220	CCGAAAACCTTCCCCGCTTCT	2420
21	GTACGCGTTTACGGCTATTGAGT	21	TAGGGCAGGTGCTCTCTGCAT	1221	GGAAGGGGAATTTGTGACGCTTTA	2421
22	GCATCTCCAGTGCCCTCTGT	22	GTGAACCAAGCTATACTACCTGCTTTTC	1222	GCAGTCTCAGCCTTCTCTTTGCAT	2422
23	CATCTTCTAGACATGCACACAAC	23	GGCTTCTGTGCTCATAGTTTCACT	1223	GTTGGGAAGCATCTTCTTAGACAT	2423
24	GTCCCAAGTCAACTGCCATCT	24	GGGCACACGGAGGTGAAAAAGT	1224	GCCTATTTTGGAGTCCCAAGTCAA	2424
25	GCGTCAGCACAGCTAACACA	25	CGGGAGCCGTTATACCAGCTTAG	1225	TGGGCCACGTTGCTCTACT	2425
26	TCACAATGGGAGGGAACATTCAA	26	GCTTCTATGACCAAGTCCCTTT	1226	CACCTTATTACTACCTTCTCTCACAATG	2426
27	GGTAAAGGCTGGTTGTAAAGTCCACAT	27	GTGTTGGCCAGACCCACTGT	1227	ACTGGGGTAAAGGCTGGTTGT	2427
28	CCGACTCAATGGGGAACCTCTACT	28	GGGCACCTTTGAGTTGGGCTTTG	1228	AAGCCTCGTGGCCGACTCAAT	2428
29	TCCTTACACCTTGGGGCGTCTA	29	GCAGCTCGGTGCTAATGGTT	1229	AACAGGGCGTGAGTTTTCTT	2429
30	GGGCATTTCTAAGACACTTGGACAGT	30	CAGACCTGGCAGGATCAGAATAGT	1230	GGAGAGGCCAGGGCATTTCTAAG	2430
31	CACTGTATCTCAAAGGGCAAAACAA	31	TGCAATGCAGAGGAGAAAAGTT	1231	CAGCCTGCTAGGAACACACTGTA	2431
32	ACTTGTCTCTGCAGACAGTTTCA	32	AGTCACAGGTATCCTGACTCTCATA	1232	GGTGATTCTGGCCGAACCTTGCT	2432
33	GGCCTCTTGGTGCCCTCTGTT	33	GGAGCAATCAGCCTTGACAGAGA	1233	TGGATCGGAAACACCAAGACTCA	2433
34	GCTAGAGAAACAAGACAACATCCAAGTTC	34	TGGCGCCCGGAAAAACCT	1234	CCTGAGACCGTTGCTAGAGAAAACAAG	2434
35	GCGGGCATAGAGAGAAGGAAAT	35	TTCAAGAGCATCCTTGCGCTAT	1235	TGGGATGCGGGCATAGAGA	2435
36	GGCTTCAGTCTTTCACCTCTTTT	36	ACCTTGAGAAGGTGGTATTTGTGT	1236	TCTCCCAGGCTTCAGTCTT	2436
37	TCAGAGTCTTAGGCCAGCAT	37	AGAAAGACCCAGGTAGAAACCAT	1237	CCAAGTTATGCTGCTGCTCAGA	2437
38	GGTTCTCATGGAAGACTGGTTTG	38	CACTCACACATCCACAGGAGACA	1238	GGGAACCTGGAAGACCTTTACTT	2438
39	GTTGAGAAGGGAGTAAGATCAGACAA	39	GACGCAGTATCCACAGAGCATT	1239	GGTGGGATAGTTGAGAAGGGAGTAA	2439
40	CTCCCGCTCTTAATGAATGGAT	40	ACCAGCTCTGAGTCAGGAAGT	1240	CCTCAGCTCCCGCTCTAAA	2440
41	CATTCCCTCCCTACCTCGGAAA	41	CCCACAGTCCGACGAGTGTTTT	1241	GGATGAGCATAAGCAGTGTTCA	2441
42	GAGACTCAATCTGGCACTTGT	42	TCACTCCACTTTACAGGCACATATT	1242	AGGAGTGAGAAGGGAGACTCAATC	2442
43	CCCGGCTGCCATTTAAGACCAT	43	ACGAGGATCAGACAAGTCACAGA	1243	TCAAGTCCCGCTGCCATT	2443
44	GATGAGGGCTGAGTATGGTCAAG	44	CCCATGACCCAGGTTGGAATTG	1244	GACAGAGAGATGAGGGCTGAGT	2444
45	CCCTTTCTGAACCCCTTCAAT	45	CACCTCTGTGCAAGTTGCTGGTT	1245	AATTGCCAGCTGTATTCTCTTCT	2445
46	GGGGCACCAAGAAAGACAAG	46	GTCTGTGGAGCACACCTTGGA	1246	ACAGAGGATGGGGCACCAAA	2446
47	CATCAGTACCCACATAGGTTTAACT	47	GCCTTTCACTGAGCCATGA	1247	GCATGAGGATGGAATGGACTCATCA	2447
48	GGAGCTCAGTATGAGTAGAGGGGAAA	48	CAGCCTGGTTGGTTAGATTCTGT	1248	GACCTTCAAGGGGAGCTCAGTAT	2448
49	TTGTGCACGACGCTGGAATG	49	CTTATGTGTGGCTTGGCTTCTTG	1249	TCTGATATGGAACCCAGGGATTGT	2449
50	TCGCTAGGCCATTCTCTCTGTT	50	GGGGCTGAATCAGACAAGGAA	1250	TGCACCATCGCTAGGCCATT	2450
51	CACGACACCTTAGATAATGTTGGAT	51	CACAGCTTGGAAAGGCTGAA	1251	GTCAGTTCACACGACACCTTAGA	2451
52	TGGCACAAGCCAGGTCT	52	CTCATGATGTCAAATGCTGCTCAA	1252	AGCCTGGAAGAGCTGGCACAA	2452
53	GCCTCTCTGCATCTCTGAACCAA	53	GTTCTGGTGACAGACAACCTTCT	1253	TTCACAGCTCTCTGCTATCT	2453
54	TGCAGCGATCCCTTCACTT	54	TGAGCAGCACAGTCCAATTCT	1254	CTCAAAGGGGAAGAACGTGAGT	2454
55	TGGTAGTCAGGCCTAGTGACTT	55	CCCCTGGGAAAGTTACTGTCGAT	1255	TCTGCTCTCACTTCTTGGA	2455
56	GAGGTCTTCAAAGGCTATTGAGA	56	GTCAAGTGTGCTGCAAGTTTTC	1256	AAGGTGACAGAGGTTCTTCCAAAG	2456
57	CCTGAGCCTGTCACTATTCT	57	TCCCAAATCCTGAGCCTGTCA	1257	TCCCAAATCCTGAGCCTGTCA	2457

58	GAGAGCAACAGGCGTTGAGA	58	GCCAACTATAGACACAACCTTTGGTTAC	1258	GGAGAAAGAGTGGAGAGCAACA	2458
59	AGCCCTACAAGGTCAAGTTTTCA	59	GTTGACTTCCGGCAGTAAGTGATGA	1259	GACTATACGATACCAAATAGCCCTACAAG	2459
60	GGAGGCACTTCACTCCTCCTA	60	ACTGGGACATTTCTCACGTTATCA	1260	GTCACAAGGGGAGGCACTTCA	2460
61	GTTGGGGTCAACTTTCCCTGAAG	61	GGAATCCAGCCCATCCTCACATC	1261	AGAGCTGCCCTGGAAGTGA	2461
62	GAGGTTTGGCTCCATCATCAGA	62	ACTGCACCACACACGGA	1262	GGAAAGGTACCCAGAAATGAGGTT	2462
63	GAGGCTCATGTCTCTTCAGCCTTAG	63	CCTTCAAGGGCTTTCTCTCACA	1263	GGTGGTAGAGGCTCATGTCTCTT	2463
64	GTTGCTTCCCGTTATCCTCACT	64	ACTTCCACATGGCTTAAACAGAGA	1264	TCCCAAACTCCTTTGGCAATGT	2464
65	GGGCTGTCTTGTGTTGATAGTGT	65	TCGTGAAGAAGATGGAGAGGAGTTA	1265	GTGTCAAAGGGGCTGTTCTTGT	2465
66	GTTTGCTGTTACTGAATCCCGAATCT	66	CTGGGACCAACCCATTTTCA	1266	CTCTCATCAGCTGTTTGTGCTTAC	2466
67	GCACATGTAAAAATCCTCCCTACTGT	67	AAGGAAGTGGGGTATGGACTGA	1267	GACCTCTTTCTCCCTGCACATGTAA	2467
68	CCTCTGGTAATAGCACCCAGGATAC	68	TGTTGGCCATACATCATTTCTCA	1268	CCTTCTTGAACCTGCCCTGGTA	2468
69	CTGAGGTCCAGAATCCAGATGTTCT	69	CTCTGCTCTCGGGGATGT	1269	GCTGTCAACCAAGACTGAGACTGA	2469
70	GGACAACAGGATCGGGGATGA	70	CACAGGCCAGAGATTACCACAT	1270	TGAAAGCTATTGGGACAACAGGAT	2470
71	CCATGTGTAGGAAGCCCTGTGA	71	TGGGAAGCCTACCTTGACTCT	1271	CAGGAAGATAAGTACTGAGCCATGTGT	2471
72	GCGACCTCACITTTCCAGTCAT	72	AAGCCCCTGAGAATCTAAAGCAA	1272	GCACATGTCTGCGACCTCACTTT	2472
73	GTCCTATTGTGGCTCTGTAGGTTGA	73	CGACAGGGCTCCCAATTC	1273	CAGCAGAGCAGAGTGCTATTGT	2473
74	GTTTCAGCTGAGAGGCAAGA	74	AGGTAGACACCGGAAGTAATCACA	1274	GCTGTTGCACTGTGAACCTGT	2474
75	GAGATGAAGCGTGTGACCCAAGT	75	TCAGGTAGAGGTGCGCAAGGTT	1275	GCAGCAGACAGCTGGAGATGAA	2475
76	TGCCTCATCTCTGCCCCCTCTT	76	GAGAGGTATGAGAAGTGAGGTTTG	1276	CTGTGCTGTTCCCTACCTGTAA	2476
77	TCTCAGTGCCTTTGGAAGGAAA	77	GGGCGGTTAAAGAGCTTCAGAGA	1277	TCTGGCTTCTCAGTGCCTTT	2477
78	AGGTTTCCCTGGACACACATTC	78	TGCTCTTCTTATGCCCAACAAC	1278	TGCAAGGGACTAAGTTTCTAGGTTTC	2478
79	AGGAGACAGGGACAGGTTTCAATG	79	CTCACACGGGCTCACATTC	1279	GGCTCATGCTTGTGTATAGGAGACA	2479
80	TGGGTTGGAACACGTCCTTTA	80	CCTGCTCACCGATGCTCAA	1280	GCCGAGGAGAATATGGGTTGGAAC	2480
81	GCCCTTAGCAACAGTGCAT	81	GGTCAGAAACAGAGCCTGTAAAC	1281	GCATCTTGTGGTTGCCCTTAGCAA	2481
82	GCAGACACGCTCTGGCAAAT	82	CCTGAGACAGAAGCAGTAGCGTCT	1282	GTCCATTGGGCGAGCCTCT	2482
83	GCCAAAAGTGACAGCAACACA	83	CGCAAAATGGGCTCTGCTT	1283	CCTGATGCTCCCTCTGCCAAA	2483
84	GCACACATCCAATCCTTCAGTAAATC	84	GCCGGATTAGGGGTGAACCTTG	1284	GCCTCATCTCGCACACATCCAATC	2484
85	TCCTCATCCAAGCTCCTTCTCT	85	GGAGGTATTCTGGCTTCCCTAAGA	1285	GCCCTTCTCTTCTGCTGAACAGT	2485
86	GGCACTTTCCACCCAGAACTTAAC	86	GGAAGGGTGAGTTAGCACAATGGTT	1286	ACCTGAAGCCAGGCACTTTC	2486
87	AAGCCCACGTTGTGCTCTTG	87	CCCCTTGACACAAATGCAAGA	1287	TGGGAGAAAAGCCCACGTT	2487
88	CTCAGTAGGGTGAAGGATGGAAGT	88	AGCTGTGGTTTTCTGTGTCA	1288	GCAAGGCTCAGTAGGGTGAAAAG	2488
89	GCTGGATCTACAGAAACAGCAAA	89	TGTGTGTGTTTAGCAAGGGATTTC	1289	GCCAAACTGCTTCTGCTGGATCT	2489
90	TGGCTGCAGATGCTTGCA	90	CGTTTGGCAACGGAGATGTGT	1290	GGAAAGCGGGTGTAATGTGGTT	2490
91	GCCTCTCAGCCTCACGTTCTTA	91	TGCCACCCCTTTTCTTTGCTT	1291	TCTGACCAAGTCCGCCTCTCA	2491
92	TCCTTGACTCACGCTCTGA	92	GGGCTATACATTTCTGGGCTCAA	1292	CCTCACACTTCTCTGCTTGTACT	2492
93	GGAGGACATGGTGTGAGGAT	93	TACATTCCTCTCTCCGCAACA	1293	CAGCTGATCTATGCAATTGGAGGACAT	2493
94	CTACAGTTAGAGTCACACGTCACA	94	CCAGCCAATCAGGATCATGGACAGA	1294	GCATCTACCAATCACTACAGTTAGA	2494
95	CATGCGGAGGGACTTAGCAA	95	GGCCCATGACTCTGCTGGAT	1295	CTCATCAGACACAGGCACTT	2495
96	GCTTTCCAGAGTAGAGGCGTTTC	96	GGAGGCATCTCCGGCTACA	1296	AGGGGCAAAAGCTTCCAGAGTAG	2496
97	TGATGGTGCAGAATTGCTACGATA	97	AGTGCAAGGTTGGAGAATGAAAAG	1297	GCAAAGTTTCATGGCCAAGTGCA	2497
98	GCTGAAATGGACCCACAGAGA	98	CGAGTTGGCCTCGTCTTACCAA	1298	TGCTGCCAGGCTGCTGAAAT	2498
99	TGCTCCAACGATGGCTCTTC	99	CGTGGCAGCTGGCTTTAGAATC	1299	TCCCCAGGCACTGCTCCAA	2499
100	AGGTGAAAGCGATGTCTGCTTAG	100	TGGTGACAGCCACTCTCTTATC	1300	TCACCTACCTAGGATTAAGAGTGAAAG	2500
101	GCCCTGACCTCACCATTTGGA	101	CTCTGGCACATGCGTTAGTTG	1301	GGACAGGTTGGTGCCAGATT	2501
102	TGGGGCAATTGCGGGTATT	102	GGGGCTTTGGATAACCAAGGTA	1302	AAGGAGGTCTGCGGGCAAT	2502
103	GCATTACAGGAGAGTGAAGATGGAT	103	TTGCAACCCCTCCGACATTC	1303	CTTGCCTAGGAAGGGCATTACA	2503
104	GGAGGAGAAAGGTGGTACACTTG	104	AGGAGAAGTTCAGGGGACCAA	1304	GTTGCAGCTGAGGAGAGAAA	2504
105	GAGACAATACAGGTTGGGTGGTT	105	AGAGCTGCTATCATGATGTGGAAA	1305	GCTGGTCAATTCGTTAATCAAGGAGACA	2505
106	GCGGATCTTCTTACCTAGTCTGA	106	AGGGTGAGTCTGGAAGAGGTT	1306	TGGGTGAGGGCGGATCTTC	2506
107	GGATACTGTGTAGGAAGGCAATACA	107	CCCCACTCCCCTCAAGGTATGT	1307	CCCAGAGAGGCTGGATCTGTGTA	2507
108	CAACTCCAACCCAGCCTTTTG	108	GTCACCCTCTGAGGTACACACT	1308	CCTGTGGCTCTGAGAGAGAAATCAA	2508
109	CAGGCCAAGAATGACATACGACTT	109	ATGACAACATCACGGACAGAGAA	1309	TGGGACACTTCAGGCCAAGA	2509
110	GGCGAAAATGAGCACTGTGGAA	110	TGACAAATGCCGAAGGGATTCT	1310	GGCTAGCATTCGCGCAAAATGA	2510
111	GGAAGGCAGTACAAGAGCTTACT	111	CTATGTTTCAGGCCACACCACATTC	1311	GCTCAGATGTGTAAGGAAGGCAGTACA	2511
112	GGCGATTCTGACATTTGATTGCAT	112	CAGGCTTGTTCGGGAAATACAAG	1312	TTCCCGGTGTTCTGGCGATT	2512
113	GGGGTTTGTGTTGGGTGAGAGA	113	GCCGAGGTTTCAAGGTCCAA	1313	GGCATGTAAGGGGTGACAAAGGAGTTG	2513
114	CTGCAATATTGGCCATTTCTCTCA	114	TGCTCAACTCAAACAGGACACT	1314	CCCTCCAGGCTTCTCATCT	2514
115	AGTGTGCACGCTGGTTGAA	115	TGCGGCGATGTGGCTGTA	1315	CCTGCCTACGGTCTTAAAGTGT	2515
116	CCCAGCTCCTTACAAAGACT	116	CAGAGGGTGGATGGATACAGTTC	1316	TCCCTCAAACCCAGCTCCTT	2516
117	TGGAGCTGAGGAGGAAAGAACA	117	CGTGGCCTCTGCACTGAT	1317	GGCATGCTTTTCATTGTGAGTGA	2517
118	TGGGTCAAAAGTGACTCTGTAACATC	118	GTGCAGGCTCAAGTTGCTTCT	1318	GGATCTTCTTCTGGGTGATAAAGT	2518
119	GCTGTGAATGTTACATGGCAGGAT	119	GCTTGTGGAACCGATTTTGGAT	1319	GCTTTTAAACCCAGCTGTGAATG	2519

120	CGTCCCTTACCGGAGCAACTTT	120	GGCGGGACCGAGTGCTTTA	1320	TCITCCCGCTCCGTCCCTTA	2520
121	AGTGAGCTAGAGGCTAGGACTTAC	121	CCTCAATTACTCCCCAGATGTTGAGA	1321	CTGTCCGCAGAAAGCCAAAAG	2521
122	TCCTTTCTCTCATCGCCTTTG	122	TCAGCAGGAGGAAGGATGTTTG	1322	CTGTACTGCCTCTTCTCTCTCA	2522
123	GGGCACAGAAGGGTGTTCCAAA	123	ACCTTCCGGCCATGTGTGAA	1323	CCTGAGCAAGGGCAGACAGAAG	2523
124	GGCCCTCATGTGCAGTCAGCAT	124	CAAATCTGCTCTGTCTATGCTAGGAA	1324	AGGTTTCATGGGCCCTCATTG	2524
125	TCCTGAGATGGGAAAGAGTGAAGA	125	AGCTCCTGACATTATGCCAAA	1325	GGGCTCCCACTTTCTGAGAT	2525
126	GAAACTGCACAACTTCTCTCCTA	126	GGGAAAGCCAGACATCCTCTCCTA	1326	GCAGGCTCGATATCTAATTCAGAGA	2526
127	CGCCTGTGGTTGTTGATGAAAG	127	GCCCAAGGTAGAGGAACAAATCA	1327	GCAGAATCGCCTGTGGTTGT	2527
128	TCCCAAGAGCAGACTCAAC	128	GGAGAATATCAAGCTGTCATGGGATT	1328	GAGAAGCTAAATGGTCCCCAAGA	2528
129	CCTCTTCGCAGACCTTGAGGAT	129	CCAAACGAGGCCCTCTCTCTTCT	1329	GGACTGAGGGGCTCTCTGGAA	2529
130	TCCACACTCTACCATTTGCTGAAT	130	GCCCAAGAAGAGTGCTTGACA	1330	GCCCCCTGTAGTACATCCACACT	2530
131	TGAATTGTGCAGTGAGGCTATATCT	131	GGCAGTCTTAACTCCTGGTTTTTC	1331	CCTTTCGCATGAATTGTGCAGTGA	2531
132	TGTGAGTAGGATCTAGGCATGTTAGT	132	CCAGCAGATTACAGTCCAGATCA	1332	GAGCTCTAGCTGTGAGTAGGATCT	2532
133	GGTCACACAGAGTTAATGGAGACA	133	CAGCCAAGTGACAGACTGGAA	1333	CCTCTTGGCAGGTGCACACA	2533
134	GGACCAAGAGGGCTGAGAAAAG	134	TCCTGGCAAATCTTGACAAAAG	1334	ACTGGGTGAATAAAGGACCCAAGA	2534
135	GGTCTGGGTGTGATGGAACAGA	135	GTGGGATGAGGATCTACAGATGCAGAA	1335	AGAGGCTCGTGGGTGTGA	2535
136	TGTTGAGCGTGACCAAGTGA	136	AGACCTTACCTCTGCCACAGT	1336	TGGGCTCTGCTGCCTGTTG	2536
137	GGCTGAGGCTGTAGCCTTGAT	137	GGAACAGGAGAAGAGCAAGGAA	1337	GATGGTCCCCAGAGGGATGA	2537
138	GATGGGCTCAAGTCAGAGGTTAAG	138	ACTGATGTACCAAAGAGGCTAGA	1338	ACCCCTGATGGGCTCAAGTCA	2538
139	GACAGCTGCTTCTCGGCTACAA	139	CACAACCGCTTCCCTTGA	1339	GTCAATACTGTGGACAGCTGCTTCT	2539
140	ATCGCAGTACTGCCATGT	140	GGGAGACATGCAGGACAAAGT	1340	GGAAGCATCCCCCAGCAGT	2540
141	CCAGACCATGTCATCCACAT	141	GTGCTGAGAGGTTCTCTGGTT	1341	ACTAGGATCTATTTCAACCCAGACCAT	2541
142	GCAAAGAACCATCAGGGTAGACATC	142	CACAGTGCTGTAGTTGCCTGTT	1342	GCCTCTGCCTGCAAAGAACCAT	2542
143	AAGGGAGGCCTTCCACTGTCAT	143	GCCACAATCTAGGACCTGCAGAA	1343	GCTCACCATCTTCTCATAAACAGA	2543
144	AAGAGGCCATTGCCATAGTTCA	144	TTTCTGCCCTAGTTCAAGTCA	1344	GGGAGAGACAGGTTAAGAGGCCATTG	2544
145	TGGGGTTCAACCGGACAGT	145	CCTTGAAGATGCAACAGACATTTCTAC	1345	CCAGCAAGCATGGGGTTCAA	2545
146	CGTGCTTAAGCCCAGGTATT	146	GGATGCAGGCAGGCAAGT	1346	CGCCAGGAATTCGTGCCTTA	2546
147	GGTCTCAGGAATCCACCTCCAA	147	GTGCTAGTAGAGCGAAATACCTGTT	1347	GGCTCTCAAAACCTCAGGCTCA	2547
148	ACACAGGGAACGCTCTGTAAATG	148	CCACAGAATCCCACTCGAATAAG	1348	ATGCTTAGTGCTGACACACA	2548
149	CCTGTCCCTCTTTGGTTGAAGGTT	149	CCCCAGACCAATCCGAAGTGT	1349	ACCGACTCCTGTCCCTCTTTG	2549
150	CAGGCATTATCTACATGTCTGCTGTCT	150	AAGCAACCCAGTTCCTCCAA	1350	CAGGAGGTGGTCTTTACCTCAATTC	2550
151	CGTCCAAGCCTCAGCTGTGTAA	151	CAGCTGTGCCTCATTTGTCAT	1351	CACCTTAGAAAAATGCCTACCCTTGA	2551
152	CTAGCCAAAAGCCATTCTGGTAGT	152	AATGGTAGCCTTTGAGACGATGT	1352	GGAAATAGATTTTCAGGGACTAGCCAAAAG	2552
153	TGTTATCTGCCTTCTCCCAACAAA	153	GCCCCCTTTTCTATGAGGATGT	1353	GCCTTCTACTGCTGAACCTT	2553
154	CCTCACTGCCAAATCTGATACAGACA	154	AGCATGGGAACCAAGTGTTCATC	1354	AGCCTCCTCACTGCCAAATC	2554
155	CGAGAATTACACCATCTGATCCTCTTC	155	TGACAGGACGAGGAGACTCAA	1355	CCCACTACACGAGAATTACACCCATCT	2555
156	GGCAAGGGCTAAGACGTTTGAA	156	TCTGCCTTGACAGGTTACAGAAT	1356	TTTAGCAGGGCAAGGGCTAAG	2556
157	TCCTAACTCTACCTCATACCTCAAC	157	AACCTTTTGCTACCCATGTACT	1357	CAGGGAAAAGACTGAATCCTAACTCTA	2557
158	CCGGGACTAGGGTGGAAGTCA	158	CCGAGCTCGTCTGGGTTTGAA	1358	ATGAGGACGAGGCGCGGACTA	2558
159	TGCTACACACTAGCTCCTCACA	159	CTATCTGCCCCGATCACCTT	1359	GAGTTAGATGACCCTTACTTTCTGCTA	2559
160	GCACAGACATCCAGAACTGCTT	160	CGACGGCTCGGAGAGAATC	1360	CCATTAGTGGCGCACAGACATC	2560
161	GTGTGCCACAGAGACTTGAA	161	CCCACGGGTTGGGTAGCTT	1361	TCCTGGCTGTCACTACTGTGT	2561
162	AAGCCGCCTAATAATGGAACCTA	162	CTTGACCTTGCTCTAGCAGTTTTG	1362	CTGGGAACAAAGCCGCTAAT	2562
163	ATGTTCTGTAGTCTGTTAGGCTTGT	163	CTCACGTAGTCTCCACGTCAT	1363	CGTCTCCGCTGATGTTCTGTAG	2563
164	TGAAAGAGGCGAGGAAAAGGTTGT	164	AACCCCTTCAACCTCCACATT	1364	GTGCCAACTGTGGCTGTGA	2564
165	AGCCAGATACCGTGAGCCAAGA	165	AGTTCTCAGGCCACCTTGTTT	1365	TGGCTAGTGGGGAAGCCAGATA	2565
166	CAGAAGTGGAATTCAAATCCACAGAGA	166	CCCGCAGGACTGAGCACAA	1366	TTGGTACCAGAAAGTGGGATTCAA	2566
167	GGCCCAAAGTGCTTTGAGAACA	167	CATCCAGGCACACCGTTAAGA	1367	CTGTGGTTTGTGATAGGCCAAAAG	2567
168	GTACCGGAAGAACTGGTGGATCA	168	TCGGGAGCACGTTTGACAGAT	1368	GGGCCAACACATGAGGGATGT	2568
169	GCTTAATAGGCGCCAAACATTT	169	GGTGTCTCTACGGAATAAGA	1369	CCACTGGATCACTGGTGCTTA	2569
170	CAGCTTCCCTGTGGAATTGTCTTC	170	CCGGTAAACCAATCCAACAAA	1370	TGGGACAGTGATTCCACGCTT	2570
171	TGAAGGCTACCCAGCCAGAGA	171	TGCACACTGCGTCAGCTT	1371	AGGGACAGGGCAGCCAGTCA	2571
172	GCTGCTCCTAGAGCCACTACA	172	GCATGCTTCAACAACTATCCATTC	1372	TTATAGCCGCTGCCTCCTAGA	2572
173	TTTACGGGCCTCCCAAGTCA	173	GGGCATCCAAGGAGAGAAGAGA	1373	GCTCATCCAGGACCCATCTTT	2573
174	CGTCAGCCGATAATAGCTGTTGCTT	174	TGTGACGCTGGCTTCTGTAAG	1374	CTCATTGGCGTCAGCCGATA	2574
175	TCCTTCCCTACCTGAGCCTGATG	175	TGAGCTGGCTGGTGAAATAG	1375	CCTCGATGTTGGTAGGGACTCTTC	2575
176	GCCATGTTTACCTGCTGCTTAC	176	ACCTCACCTTCAATTCTGGACTGT	1376	GCGAGTCACCTCTGCCATGTTT	2576
177	CAGGGCTTTGTGACCTAGACAGA	177	CGTGACAGCTAATCACCCACAT	1377	AGGCCACTCAGGGCTTTGTGA	2577
178	TCCTTGCAGGACAGGAGAGA	178	GGAACACCTCTCCCTCAATCTTT	1378	CTGGGAGATGATATTAAGCTGACTCT	2578
179	CCTTCCCTCCTTGTGCTCTCT	179	CCTTGGCAGAGGGAGATTGAGA	1379	GCTGCCTCTGTGGTCACATC	2579
180	GCATTTGAGGTAGGATTGGAGGAA	180	GTGAAGCGTCTCCTGTTGA	1380	CCAAGGCAGCACTTGAGGTA	2580
181	GTTGCTTGGTTGCCGTGTTT	181	CCAGACTAGCCGAATTTCCAGGAT	1381	GCCAAGTCTGTGTTGCTCTT	2581

182	TGCTTCTGTCTGGCTGAGAAG	182	TCTGGAGAAAGTGACAGGGTAAGA	1382	ACAACCTCACCTTTGCAGACA	2582
183	CTCCTTCGTGTATATGAGCAGCTT	183	GAAAGGCTGGGTATTTTGAACCAA	1383	GTCATTTGCTTTTCATGACCTCCTT	2583
184	GCCCTTTTCTTAAAAAGCAGGAAGA	184	CACAACCTCACATTTCCAGGTTA	1384	AGTGCAGCAGCCCTTTTCCTT	2584
185	GCGCAGGAAGAGCAGTTTGATG	185	GAGCCACGTATCAGCTCAACA	1385	ATGGCGAAGCGCAGGAAGA	2585
186	GGTTCCTCCAGATTGGCTCAAAAG	186	ACTGCAACCTTTTGCCTGAGA	1386	TGCCAGAGGTTCCCAAGATTG	2586
187	ATCCGCCAGCCGCCAATA	187	TCTCACCGCTTGGTCAGAGT	1387	CAAATAAAGGCCCTCCTCAACAAC	2587
188	CCAAGTCTCAGGTGTGAGGAGTTAC	188	TCTCCAGCCCTCAGTCCTTCT	1388	CAAGGAGGAGGACCAAGTCTCA	2588
189	CACACTGGGTTTTCTGTTTCAGT	189	TGAGAGGTCAACACACACAGA	1389	GCATCTGTATGCACACTGGGTTT	2589
190	CAGGGCAACTCAACGGCAAAAG	190	TCATCCCAGCATCATTTGTTGAGAA	1390	AAGGTGCCAGGGCAACTCAA	2590
191	AGCTGGTCACTGTGGGAGAAGA	191	CCGCTCTCCACCTTTGAACCT	1391	GTTCTGCAGCTGGTCACTGT	2591
192	AGGCTCAGCTCTGGGGATTG	192	CGACAATTTAAGGCGAGACATGGAA	1392	TGCTGCAGCCATGCTTCCTA	2592
193	GGCTGGCTCCATCGTTTGAGAT	193	GCACATTGCCACCGTCCAGAT	1393	AGAAGCGGCTGGCTCCAT	2593
194	CAGGGAAGCTTTGACAGAAGAGATA	194	CCCATCCTTCAAGTCGTGGTT	1394	GCCTTCAGGGAAGCTTTGACA	2594
195	AGGATACAGGTTGGAAAGCAAGATT	195	ACCCGGTGGAGTCAGGATTTGA	1395	GCAGCACCCTCTCTAGTTAAG	2595
196	GTGCGGCTGTATCAACATTCAAC	196	TGGATGGGTGGCTTGGTACT	1396	GACACTAAGTGGCGGTGTCATC	2596
197	GGAAACGGGAGTCAGGTCAAAACA	197	GCTGTGTATTTGTGTGAGCCTTGT	1397	GCTACCGGAACGGGAGTCA	2597
198	TCCCTCTGTCACTCTGGGTCTA	198	GGGGTGAGGTACTGCAGTTAAACAT	1398	ACCTGTTCCTCTGTCACT	2598
199	ACGCGCAGTCCACAAACA	199	ATCGGCGGAGCCAGGATT	1399	GCCAGCTTTAGCGGATGAAGT	2599
200	TGCATATTGTCCAAGGCTGCTT	200	CGAGTCTCTCAACTCTGCTGTTGT	1400	GCTGCGCCCATTTGTTTGCAT	2600
201	GCCCTCTGCATCTAGCCAAT	201	AGGGATGTCTCCCCAATT	1401	GGCACAAAGCCCTCTGCAT	2601
202	TGGTCCATCCAAATCAGGCAAT	202	GTCAGCACCATGTAGCAGATGT	1402	TGGGCCCATGGTCCATCCAAA	2602
203	GCGGCTCTCTTTCTGTCTTAAAAA	203	CCAGCATTTGGGGCAGCTTCT	1403	TTGCCGCTCTCTTTCTGTT	2603
204	GCAAAACAGGCTTTTCTTGACATA	204	GCCCTTTAAGGAACCTTGCTACA	1404	TCITCCCCAAATGGGACCTTCA	2604
205	CCATCTGGCTATGTGACGGATGT	205	TCCAGGTCCACTACTGTGTCA	1405	CCACATAGCTCTCCATCTGGCTAT	2605
206	CAGTAAAGGAAGCTTTCAGGTTTGT	206	CCCTTGGGTCCCTCTTCTTCA	1406	GGAGTTTCCGAAGGCAACAGT	2606
207	TTAAATACTCCCATGCCCGGAAA	207	GGCGGGTATTGTGCCTGACA	1407	TCCTGGCTAAGGGGTGTTT	2607
208	GGTTGTGGAGACAAGGCTTCCTA	208	CCATTCTGCCAAATTTCTGTGTGT	1408	GTGCTCAGGTTGTGGAGACA	2608
209	GCTGTCTCTCCCTAGGTCAAGTT	209	GGGGAGCAGAAATGGATTGTCACT	1409	CTCTTCAAGCAAGGCTGTCTCT	2609
210	ATGTGTTCTGAGAGTCCCTTTAC	210	CAGCTACTCAGGCAACCACAGA	1410	GTGTACAGTGAAGGCCATGTGTTT	2610
211	GGGACATAGCACAGGACTGGAT	211	AGGCAGATCACTAAGTGGTTCTAAG	1411	TCCATGGCTCAGGAGGGACATAG	2611
212	CAGCTCTACAAATTGTGCCATCTTC	212	TCAGTAGAGCCTTGAGGTAGCTT	1412	ACCACGATCCACACCTCCTAAC	2612
213	GGCTCTGGAAGTTGCCAGTCA	213	CCTGCCCTACCAACCCACATT	1413	TTGGCTGGAGGGCTCTGGAA	2613
214	CCAAGATTGGGAAGAGCTGAGGAT	214	CCCTCTGCTTTTGCTCCAGATA	1414	GCACCACTGGAGGCCAAGATT	2614
215	GGCTGAAGCTGTAATCCACACA	215	AAGCCAAGCTAATCTTCCCTGAA	1415	GCTGGAACCTGTGCATAGGCTGAAG	2615
216	CAACCAGGATCGCCTAGAAAA	216	AGGCCTTCAGCCTGAGACA	1416	AGTGGGAGTGGTCTGGTCAAC	2616
217	AACCCAGCTACGGAGAGGATGA	217	TCCTTCTGGGCACGTTCTTC	1417	ACTGGAGCGCTTGAGGTAGA	2617
218	ACCCAGCTTAATGGTTCCAAATAGT	218	GGGATCTCTGCAGCATGACTTG	1418	GCACACCAAGAAGATAACCCAGCTT	2618
219	TGCTCTGCTTTCTCCAGTTTCA	219	TCAACACCTTTTTCGGTGACAGT	1419	GGGCATTATTGAATGCTCTGCTTTCTT	2619
220	CTTTCCTTCTTCTTCTGAACT	220	CCGCGCTCTACCTCTTGATTTA	1420	ACCCTGGAGCTCCCTTCCAAAA	2620
221	GCATTGAAACACCTGGTTTACTTCA	221	TCTGTTCTTGAACATGCCAGTGA	1421	GGCCTCTGGTGCATTGAAAC	2621
222	TGCTTGACAGCTCTGTTGATTGT	222	GCAGTAGGTGGAGGGTGTTC	1422	GTGCATACACTTGACTGCTTGACA	2622
223	GCCAGCTAGAACCTATACCCAGAA	223	AGACCTTCTGGCTTCTTTTG	1423	TGTAAGTGCCAGCCAGCTAGA	2623
224	GTGAAATGTCTTGCCTTGTCTATC	224	ATGGGCTGAGGCGAGATTGT	1424	GACCTGAGTGTGGTGAAATGTCT	2624
225	CACCACTACCCAAGCTCAA	225	GCAAGAGGAAGACCAAGCATCA	1425	CAGGGTGCCTCATCTCAGGAT	2625
226	GATGACTGGACCGCATGTCTCT	226	CAACCTGGGCTGGACTGT	1426	AGCTGAGGCTATGGGGATGACT	2626
227	CTCGTTCTGCTGTGCTTGTAG	227	CAGCCGCAAGAGAGCCTAA	1427	GCTGTTTCCACCCACCTCGTT	2627
228	TGCCTTTGGTCCCTCACACAAG	228	GAACACACAGGTTTCTGCACTAGAT	1428	GCTGAGTGCTTTCTGCTTTT	2628
229	GAGAACCACGGAGAGAGGAAGT	229	CCCCGCTCTGTGCCATCA	1429	AGTGACAGAGTATGGGGTGAGAA	2629
230	CCCACAGTTAGTACATGGCAGAGTTT	230	ATCGGGAGTCAACGCACTTG	1430	GCTTCCCAGATCCCACAGTTAG	2630
231	CCTGGGAGCCATGTCTGAAACT	231	CTGAGAGAGGAGTCTATCTTCTTGA	1431	CCCAGGACTGTCAATTCCTCAAGA	2631
232	GGGCACCTTCACATTGCTGAGA	232	GGCCAAGGGTGAACCTGGAGAA	1432	GGGTTATGGGCACCTTCACA	2632
233	GGACCTTGGTCTTTAGTCCGATT	233	CCCCGCCAGGTACTGTCTCA	1433	GGCAGACACAACCTTGGGGAAA	2633
234	AGCACCAAGGGCTGAAGGAAAG	234	GGACCAAGGGCTGCGAGAAA	1434	GACGTGCTCAGTGGGATTGT	2634
235	GCAACACAGATCCACTGAAGACA	235	GTGGGACATCTTATGATCCGCTTAG	1435	GCAATAACCCATCGGTGGAGCAA	2635
236	GGCTCTCCATAACCATGCTGTGA	236	TGAGTGTCTAAACATGGGCACATAC	1436	TGGTGAGATCTTGGCTCTCCAT	2636
237	TTCCACTGGCCCCACTGTACT	237	AGCCTGCCCCACCCCAATCT	1437	GCCCTCTTTCCTATTGCCAGAA	2637
238	GCCCATCAGTCTCCCTGCTA	238	TGACTATTTGACTGGTCTGGTAAC	1438	GTCTCTGTCTGCCCCATCAGTCT	2638
239	CCAGTCATCCGGGGCACTT	239	GGGACTTGACCTTGCTTCCACAA	1439	GCAGGGAAAGCCAGTCATC	2639
240	GTGGAATCCAATCACTCAGCCTTCA	240	AAGTACCGCCCTCGTCTGTT	1440	CCCCACATTTCTTACAGAGTGGAATC	2640
241	CGCCCACTGCTATCTTACCATTCT	241	TGCCATGGCGTGTGGATCT	1441	TCCCGCCCACTGCTATCT	2641
242	AGTGCTTGGCCATCTGCTGTA	242	AGAGACCTTGGCAGGTGCAT	1442	TGTCTCGGGGTGCCACACA	2642
243	GTGTTTCATCCATCAGGGCCAATG	243	CACATTAGTCTGGGAGCTTGGTT	1443	GCACGTGGAGAGTGTTTATCCAT	2643

244	GCTAACCTTGGCACTGTGGAT	244	CCCCAGTACTCAGGGGACTTTGT	1444	TGAAATGAACAGACCAGCTAACCTT	2644
245	GCTGTCATCCATGGTCCAGACA	245	GATGGGCCATGTGGCTTCT	1445	CCTGGGCTATGCTGTCATCCAT	2645
246	CCATGGAAGAGGGAGATGGAAGT	246	TCTCCCCAGTGGAGCTTATGT	1446	GAGACTGCCTGAATACCATGGAAGA	2646
247	CCACCTCTTGGGCCCTTTG	247	CACCAACAAGCTGGCTCTGA	1447	TGGGAGGGTGCCACCTCTTG	2647
248	CACAGAATATGGGCTGAGAATCCAAGA	248	CGGCTCCAAGTTCACACAT	1448	CTTTGGTTGCAGGCCACAGA	2648
249	GAGTCCCCACCAGCAAGAAG	249	TGTCCAAGGTTGAGGGGTTGT	1449	GGCTGCCTTGGGACACATCT	2649
250	GTGATGTGGCTACTGCTTCACT	250	CTGGAATGGCTGTTAGGCACCTT	1450	GCCAGGAACACTGCTTGTGATG	2650
251	GCTTCCCTCTTCCAGTGCTT	251	GCACATAACTGTACCTCCTAAGCCATA	1451	GAGAGGGGTTTGCTTCCCTCTT	2651
252	CTGCACTGTGATTCTGGCATAGT	252	GGGAAAGCAATGCTGTGTGTTTATG	1452	AGGGGCTGCACTGTGATT	2652
253	CCCCTCCACTAACGGTGCAATTA	253	TCCACAGTCAGGCCAACCAT	1453	CCATCAGCAGATTCACACTCAGA	2653
254	CAGGGATGAAAGACAGAGAGCATTTG	254	ACAGCTGAGCCAGGGGAAGTT	1454	CAGGGAAAAACAGGGATGAAAGACA	2654
255	CCCCTCAGGGCTGTTTTAGTGA	255	CCTGGTGGCATAAGGGATGCTT	1455	CTGCTGTGAAGCTGGAGACTTTTAC	2655
256	CCAGTGTCAAGGCCGAGTAG	256	GATGTTGGTACTCGTTCTCAGT	1456	TCGCCGCTTGACCACTGT	2656
257	TGCTGCTTTACGCCAGTGA	257	GGGTTACTAAAGGGCAGTTCTGTTT	1457	GGACAGGTACTAGGTGCTGCTT	2657
258	GACCAATGGGGTGTGACGCTT	258	TCCTAGGCTGACCACTGTCTAT	1458	GAAGCCGGTTTAACTGGTGTG	2658
259	AGGCTATGGGAGGTGGGAACA	259	GGCTTCCCCAGTCCATTTCT	1459	CAGCAGGAGGGAAGGCTATG	2659
260	CTGTGTATGTGGGTCTGAAGCTCAA	260	TGTCTTTCACAGCCAGACT	1460	CTAAAAGGCAGGTGCTTGACA	2660
261	GGGGCTCAGATCCCTTGTT	261	CGTGTGAGAAAACTCTCTACTAC	1461	TGGTTCCCAAGGGGCTCAGAT	2661
262	AGCATCCGTGGAGGCTTTTAAT	262	TGTCCAACAGCTTTACATAGCACAT	1462	GTGGTGAAAGTAAATGGCATCAAGCAT	2662
263	ACGATTTCTGAAGCAGTCTTGGA	263	CAGAAGCAGTGAGCTGTGGTT	1463	TGCTGTGGTGTGGTCATTTGT	2663
264	GGGCATTAGCTGGCCTTCACA	264	CTGGGCTCAGAGAAATGCTA	1464	TCCAGTGCAAGGGCCATTAG	2664
265	TCCCACCTTACAGGCCGTTCT	265	CAGTGAAGCGATGCTCTGATCT	1465	AGGCTGGCTCCCACTTAC	2665
266	TTTCAGAAAGTCTGGAACCAAGA	266	TGGCCTCTTCTCTAAAAGCATTC	1466	AGAGTAAACTTGGAAGGATGGGTTTC	2666
267	CATGAAAGCACTGGGGTCTCT	267	CAGTCAAACTCTTCCCAAGT	1467	GCAATCCCTGCGACCACAT	2667
268	CGAGAGAGGAGACACTGGAGTGAA	268	GGGTGGGCAAGGCTCCAT	1468	AGGCCAAAGTCCCTGTGAAC	2668
269	CCTTCTCCACACTAAGTGACTGGAAA	269	ATCCACTGCCCTGACCTTGT	1469	GGATGAGATTCCCTTCTCCACACT	2669
270	CAGCCCATCTGGGCATCT	270	ACTCAAACCCCACTGCTA	1470	GCTGTTTCTCTGTGCTGCTT	2670
271	AGGCTGGCAAATGGGCTCAA	271	GGGTCTTAACCTCAGTCTTGT	1471	GGGTGCTGGGAAACATGAGGAA	2671
272	GCTGAGCCAGCAGTGTT	272	ACAGGGCTCCTGGTTCTAACT	1472	CAGCCTTCTGTCCACTCCTTAG	2672
273	CCTGGCTGGGCTACATCTTACCTT	273	CTCTAGGAGCATGGGTCAACAAA	1473	TGCTTCAGAGCCCCACACT	2673
274	GCATGGGGACCTGAGACTTTCT	274	AAGCCGGCAGGCTGAGTT	1474	CAGTCCGATTGTTGTGCAT	2674
275	GGGCCGATGAGCAAGTCAGTT	275	GGAGCCACAAGGAATGCAGAGT	1475	ACACCTGTGGGGCCGATGA	2675
276	CCTCCCGAAAGGAAACAGAGCAT	276	CAAGACCCTGCCACCTCTCT	1476	GTGGTAGTTAGACCTCCCCGAAAG	2676
277	TGGATGGTGAGAAGAGCCAATG	277	GGTGACGCTTGTCTACT	1477	GGGCAGAAAGTGATGGTGAGA	2677
278	GCCTGGTCACCATCCGCTTT	278	GCGGAAGGTGGAAGAACCTTT	1478	GCCCCACCTGTTCTCCAT	2678
279	GACACTCACAGGCTCAGAGAAC	279	GGGCACACTGAAGTCTAGAAGCAA	1479	ACTTCCAGGAGCACCTTGAATAG	2679
280	TGAGCACTCCTGGGTCAAGA	280	TGGGCCCATCTCTTGACTTTC	1480	CCATCAAGAGGTAACAAGCCAGTGA	2680
281	CTTGGCTCGATTGGTCCAACA	281	GAAGGATGAGCGGATGGCTCTA	1481	AACCCCGTCTTGGCTCGATT	2681
282	CCAGAGCAGCCAGGTCTTCA	282	GCAGTACTTGGGGTCTATATCTGT	1482	GCTACACGCTGGGCACCAA	2682
283	TCTCTCGCCCAAGATCAGA	283	TCCACCTACCTGTGGGCAATC	1483	GCCCTATGGCAAAGGCTCACTA	2683
284	CCTCAGCCCAGGACTCACTTTAG	284	CCCGGGTACAACAGTGACCTT	1484	AAGCCTCTGGCTGGTGTTC	2684
285	TCCATGACGGGAGCTGTA	285	TCTCCCGAAAGTCCGGTTCTA	1485	CCTGTGGTTTTGGGCAGGTT	2685
286	CACCTGGGATCAAGTCCAAGT	286	CACCAAGCTCTCACTGTTACT	1486	TGGTTACCACCTGGGATCA	2686
287	TGATGCTGGGACACAGAGA	287	GGGCCAGCTGACCAACTAC	1487	TCTGGTACTCCAGGGTGCTAT	2687
288	AGGGGCTGCTGGGGCTTGTA	288	CTCCCTGAAGCAGCAGCAAA	1488	TGGATACACCGGGCTTGTCT	2688
289	GCGCTGCCTAGTGACATTGGTT	289	GCTGTCACTGACCTGGATT	1489	AAGACACCGCGCTGCCTAGT	2689
290	TGGTGGTGGTCCCCAGTAATGT	290	GCCATGCTGAGAGCCTCTGT	1490	TCCAGAGGCAGAGACAATCA	2690
291	CCCTGGTGGGTTTTGAGTGAA	291	GTCCACGTGTGGAACATGTTTATT	1491	CCGCAATTGGAGCTGAATTCTTAAATC	2691
292	CCCACCTAGAGCCCCAGGAAA	292	GCAAGGAGCTGATCTCATCTGTGT	1492	CCTTGGGGTGGCCCACTTAG	2692
293	CGATCGGCTTTGCAAGGCTTT	293	CAAAGGGCTCCTTCCCCACAAA	1493	TTTTCCCTGACGATCGGCTTT	2693
294	AACCAGATCGTGTCTCCCTAGT	294	GGGAAGCCTTTGAGGGTTGT	1494	GTCAGGGAGAACCTATGGACCTA	2694
295	CCAACAGCGTGAGGCTTCTGA	295	TCTGACCCCTGCCCTGTGT	1495	CCCCAGACAGATGTAAGTCCAACA	2695
296	GCTTGGAAACACTGTACTCTGA	296	TCCCCAGAGTGCAACTCCTT	1496	CTGCATGCCTGGAACACACT	2696
297	TCCTGCCCGTCTGCTCAA	297	GTGTTGGCTGCACGTAGAGAAAAG	1497	CTGGACTGCTCACTCTGGAAC	2697
298	TGAACACAGAAGCTTTCACCTCAT	298	GTTGGCAGTGGGCTTCT	1498	TGCCCCAAGAGGCATGAAAC	2698
299	AGTCAGGGTGTCTCTTCCATGA	299	GACTCAGTCAAGAGAGGGAGAA	1499	TCCTTCCAAAGTCAGGGTGTCT	2699
300	GAGCAAAAGAGCTGTCCAGAGAA	300	CGTGGGGAGGGAGACCACTT	1500	GCAGTGCCAGGAGCAAAAGA	2700
301	CCTTCTACACAGGATGGGATGAGT	301	TCTTCTTTGACAGACTGGGAACAT	1501	AGCCTTAAAACTGCCTTCTACACA	2701
302	TGAAGGGTTCCTCCAAAGT	302	ACCTTCTGAGGTTTGGGGTAGA	1502	GGGATTCACTAGTGTGTGGATTGA	2702
303	GCCTACATGTCTATCCCTGAAG	303	TGTAAGGCTAAGCCGCAATTTG	1503	CCAATGGTGGAACAGCCTACA	2703
304	GCTGGAAACCATGGCGGAGTT	304	TGACAGAAACCACTCGGACAGA	1504	GCTAGATGAGGGAGGCTGGAAC	2704
305	GGGCCAGTACCCAGGAGGAA	305	ACAGGCCCACTGCCCTGTCT	1505	CCTGGATGTGGCTGGCAGTA	2705

306	CACAGGGATGAGCACCACCAT	306	GCTGACGGCTGGAATCATCT	1506	CATTGGCAACCCAGCTCACA	2706
307	TGGCAGAGTTGTCTAGATTTC	307	AGCTCAGGTAAAGGTCAAAGACA	1507	AGCCCGAGCCTCTACAACCT	2707
308	AGGCGAGTGTCCCAAGACAA	308	GCAGGGCAGTAACGTCAATTC	1508	ACAGGGCTCCAGGCGAGTGT	2708
309	GTGAACCAAGGACATCTGGACAAG	309	AGTGCTTCAAGCCTGAGATTGT	1509	TGGGAGGTGAACCAGGGACAT	2709
310	TCAGGCACAGGCCAGGTATAG	310	CCCGGTCCCTCCTTCTCCAT	1510	GGGCTGCAGAGATAAGCTCGTT	2710
311	CCGGACGCAGACGGAATTACT	311	GGTGACCGATGGCACTGAATGT	1511	CGTCACAGCCAGTTCTCACACA	2711
312	GGCAGTTTGGGGAGCTGTGT	312	CACCCTGATCACCTGGGAAAAG	1512	TCTGACCTGCGGGCAGTTTG	2712
313	CTGACATTGCGGGCTGTGTG	313	TGCTGTACGCCACTCTACACA	1513	GCGAGAAACACCACTGACATTTG	2713
314	CTTCATGGGACCCAAGCCTATG	314	TTCCCTTAATGCAATGGAGGTCAA	1514	CCCAATGGTAGCTGGCATGCTT	2714
315	CTGGCTGGACCCCTTCTGAT	315	CAAGCTTGCTCCCTGACACT	1515	ACCTCCCCAGGGACACTCACT	2715
316	GGCCCTTGGCTGTGTGAA	316	AGGCAGTGCCAGGCTCTGAA	1516	AGGCAGTGGCCTCTCTTTGTA	2716
317	TTCTCTGTGGACCCTACTGTGT	317	TCCTCCAGGGTTCGTTTGT	1517	TTGCCGGTGGATCCTGACTT	2717
318	CGTTGGCTCCTAAAGTCAGCTA	318	GCAGTTACCAGGGACATTACTGAA	1518	TGCAATTGATCGTTGGCTCCTA	2718
319	GTGTAAGGGCGGCTCTAACTGA	319	GGACCTGAAAGTGGATGAGCTTTGT	1519	GGCCGCTTCTTAGGGTGTAAAG	2719
320	ATCAGAGGAGGGCGGACCAA	320	AGCCCTGGACCAGATTGAGA	1520	GGTGAAAGGTGAGGATCAATCAGA	2720
321	GGAGACCATGGGAACCTTCAAC	321	GCAGAAGGAGCACCTCTCTCCATA	1521	TGTGCCTTCTGGGAGACCAT	2721
322	GGTCTGTCTGTGAGGTAGTCA	322	GTCACAGCCATCCAGTGCAA	1522	GGTTCTCCAGAATGGTCTGTCTGT	2722
323	GGGCTAGCAAAACACCCAAGT	323	GAGCGAGCCTTGCCCTTGTTA	1523	GCAGCCTTAGGGCTAGCAAA	2723
324	GCCAATGAACTCTGGCCCTGTA	324	AAGGCTAGAGTGGGAATGACT	1524	CCCCTAAACCTGGGCCAAATGA	2724
325	GCCACAAAGGCCCACTACAGA	325	ACATTGTTCTAGGAGGATGCAA	1525	TGACAGGCCATGCCACAAG	2725
326	GTCTTCCAGGTGAGCAATCCAA	326	GAGGGAATGAAAGTGGAGCTTT	1526	CCCCTCTATTACCCCAAACGTCTTC	2726
327	CATGCCAGCAATTGTCCTTAG	327	CAAGGGCTGGGGCTCACAT	1527	ACTGCAGCCCTGTGAATAC	2727
328	GCAGTCTTGGCAGAGCTTTACT	328	CAGACACAGTCAGCGTCCAT	1528	GGAGACGTCCTGCCTGCAGTCTT	2728
329	GAAAGTCAAGTGGCCTTGAAGA	329	TGTTCTTCAGAAATGTGCCGTTT	1529	GCGCACAGCAGAAATGGAGAT	2729
330	GTGGTGATATGTTGATGCCAGCTA	330	CTGCAAAAATCTGACCCAGTCT	1530	GCATGCAGTGGTGATGTTGTAG	2730
331	GTGGGGTAGTGGTAAAGTAAGCAT	331	CCACCTTGTTGGCTCTGAGT	1531	GCCTAATGTTTGTGGGGTAGTGGTA	2731
332	GGGTCCTGCTCCATCTCATTT	332	CCTGGAGCGGCTGTCTCATA	1532	GGGAGACCAGGCCCTAAGA	2732
333	AGGGCCCTCCCGCAATTAGA	333	CAGTCTGTCTGAACCCATTACACCA	1533	TCCCTGCAAGGACCCCTCAGT	2733
334	CCTGAGGTCTTGGCCCAATA	334	CAGTGTGAGTGCTGAGAAACAAAG	1534	TCTCACCTGACCCTGAGGTCTT	2734
335	TTACGCGGGAACCAACATGT	335	CACCCTGGGAAGGATGGAAAT	1535	GACGCAGCTTGCTTAGACTTC	2735
336	CTGACTTCTAGTCTTCCCTTCTATGAA	336	AGGGCTGCATGCCACAGA	1536	GGGTGCAGCTGACTTCTAGTCTT	2736
337	GGTTTACAGGTTAGGGCATGGAT	337	CCTGTACTCCCTTCCCTGGTATC	1537	GTGCGGTCAAGGTTTACAGGTT	2737
338	AGGACCGGAGGACTGCTCTATT	338	TCTGTGTCGAGGCTGTGT	1538	TCACAAGTCCCTCCCTCAAG	2738
339	AAGGGCAGCGTATCCCTCTACA	339	TCTGAGACTTCTCCCTTGTA	1539	TCTGCGTGTGCGTGTGTT	2739
340	GTGGCCAGTTTTTGCTCAGAGA	340	CCTCATGGTGGTCTTGGTGACTT	1540	CAGTGACATGTGCCCAGTTT	2740
341	GGTGACAGATTTTCTCGACCTCTTT	341	AGACGGAGAGCCCTGTG	1541	TGTTCAATGATACTGGTGCAGGATT	2741
342	TCTCTGTGTCTCTCACCAAGT	342	CATGGGTACAAGCTCCAATTCCTT	1542	GGCGTGGAGTTGCTTCACTCTCTT	2742
343	CCAAGTGGTCCCTGCATTCCTG	343	GAGGGAAGGGTGGGAAAAATC	1543	TGGGGTGGCACAGCCAAT	2743
344	GTGTGAGGATCTCTGCAGCATTTA	344	GCACTAGAAAGGGAAGGAACATA	1544	ACCAAGTGCAGAGGTGTGAGGAT	2744
345	AGTCCCTCAGCTCAGCCATA	345	GAGGTAAGCCTTGGGCATTTCT	1545	GGAGTAGTCTGTAGGGAGAGTTG	2745
346	GCCAAGGGGTAACCTAAAGGTA	346	GTGAGGTGATGGGCAGACTAC	1546	ACATGATTGATGCCAAGGGGTAA	2746
347	GGTTGGAAGGTGACGCTACA	347	CCTTACCAGCAGGCTTACACA	1547	TGCGTGCTCAGAGTCACATAAG	2747
348	CCTGCACTTGCCCGGTTCT	348	TACCAACCCACCCAGTCCATT	1548	AGCACACCCCTCTGCACCT	2748
349	GCTCCAAGAAGTGATCCAGGTT	349	GAACTTGCTGGGAGGTAGAAC	1549	CCAGGCGGCTCCAAGAAGT	2749
350	GTGCTGGGTCACTCAAACT	350	CTGTGGTCTTGGTGTGAGAGA	1550	AAACCTGGCAGAGGTTGCAT	2750
351	TGTCGTCCCCACTGTGGAAC	351	CAAAGGGGCTACAGTGACAACA	1551	CAGGATCTGAACGGGAGGTTTC	2751
352	CCCCAGGCAACTCACTTACA	352	CAGCAGTGTGGCCTTCTCTAC	1552	GGTGGAAATCTACCCAGGCAACT	2752
353	AGAGTAGACGCGCCCTGGAA	353	TGCCACACGGAGCTTGTTTC	1553	CTGCCGTTGAAGTGAAGTAGA	2753
354	GCTAGCAGGACTTGGGCAACA	354	CACCATGTACTTGCACTCTCAGAAA	1554	ATCCCTGGCCATGCTGCTA	2754
355	CTGAACCAAGCTCGACAGAGAAG	355	CGCCAACGTGGCTGATGTTT	1555	AGTGACTCATCTGAAAGTCTGAA	2755
356	CACCACGTTGATGCAGAGTTTC	356	CCTGGCCTTACTTCTCTGAGT	1556	ACAGGAAGGCACACGTTGA	2756
357	CCAAGTGCAGAAGCTGGAAAACA	357	GACTTCTGCAAGCATTTCAACA	1557	GAGGGGCCAAGTGCAGAAG	2757
358	GACCAGGCCCTTGTATTGTTCTGT	358	TCAAGCCAGGAGACCCATACA	1558	AGAGGTGACCAGGCCCTTGA	2758
359	TAAGTCCCCGTGCTCACAGCAT	359	CCCGGAAGCACTAGCTCGTAAG	1559	GTGACGCGACCTGCTCATAAGT	2759
360	GCTCCATCTGTGAATGAAGTAAGT	360	CGCTCGAGCTTTGACTGTAG	1560	ACCTGGGCTCCATCTGTGAAT	2760
361	GGGATCCATCACCGTTCCAAACAT	361	GGTCTGCTGTGTGAGGGTAGA	1561	GCTCAATTCCTCCACTGCTTCT	2761
362	GGAGAGTCCAGGGCGTCTT	362	GAGCGTGGAGAGAAAAGCAATGT	1562	CTCTTCTGGAGAAGGGGAGAGT	2762
363	CTTCACAGTGCTGGGACATTT	363	CGATAAGCCCGTTCCTGTT	1563	GTCCAACCTCTTCCATCTGAATCTTC	2763
364	TCCAGGATGGGGAAGGACCTAAG	364	ACGCTGGATCTCCAGGACACT	1564	CACGTAGGCCTCTGTTTCTGGTT	2764
365	CTAAGCTCAAAGTCAAGGGACAGA	365	CACCCTCTTCCCTGTTAAAGGATT	1565	CCCCTGGCTAAGCTCAAAGTCA	2765
366	GAGAAGAAAGTGCCTCGAAAATAC	366	GCTGATTCTGTGCAAGTCCAGTGT	1566	GGAAAACACCCGACAGAGAAG	2766
367	GTGCTTTCCACAGCGAATC	367	CGATGAAAGGCTGGGAGCTGAA	1567	GCAAACCTCTAGGCTCTGTGCTT	2767

368	GGTGCTGCAGAGGGTGGAAA	368	CCGGCCACTGGTGCTATAC	1568	GTGAGAGGATGTGTGCGTTCCAT	2768
369	AACTACCTCCCAACCAACA	369	CTCTGCATGTGGAGCAAAACAA	1569	CATTACCCAGTTGGCAGAAAAC	2769
370	GTGGGTGGACAGTCTTTTCATCTTG	370	AGGTAAGGGGAGGCTGCAGAA	1570	GACAAGTTGGGTGGACAGTCTT	2770
371	GTGCTCTCCCTTGAATGAGGAT	371	GCTAGATAATGCTGCCTGCTTTG	1571	AAGGGGTGCTCTCCCTTGA	2771
372	GATGGTGGAACCGACCAACT	372	CTGAAAAGATCACTACCGGATGCTA	1572	CCCCGTGAAATGATGGTGAAAC	2772
373	TGCAGGGTGGCAGCATGA	373	AGACAACAGCGTTGCTTGAGTA	1573	GGTAATCAACCTCAGTCTCTCATC	2773
374	GCCCTCTGACTTCACTGACCTACT	374	AGGGAGAGCCTCTGATGAAAAGT	1574	AGGCCAGCCCTCTGACTTC	2774
375	TGGGGTTGAGGTCCCCCTATG	375	CCAGTGTAGGCTCACATTCTGT	1575	GCTTGGGACTCTGGGGTTGA	2775
376	CCCCCTCATCTGCCCTGGTAGT	376	CCCAGGAGTCTCTGTCCATTGT	1576	CCTGGCTTTGCCCCCTCATCT	2776
377	CCTCTGCACCTTGGCCTACATT	377	TCCTGGTGTGGACGTGTCTCAT	1577	AGCCAGCCTCTGCACCTT	2777
378	GGCGGAAACCAACCTCAGA	378	GGTCAGGGGTCCCTCTTTTGT	1578	CCTCTGAAAGGCGGAAACCA	2778
379	GGGCCCTCCACATACACA	379	GCCAGAGCCTTCATTGGGAGAAA	1579	AGTGGCCAGCAGGAGCAA	2779
380	GCCCATGCTGAGGACTAACCTT	380	TGGGCCTCTCCAGCCTT	1580	CCAGGGCAGGACTCTAACCATTTG	2780
381	CCCTAAGGTTGGGTGAGTTG	381	GTTTTCCAGGCCTCTCTTCTC	1581	GTTAGGAAAGGGTCCCTAAGGTT	2781
382	CAGGGTCCCAACGGGTTTCTA	382	GGGATGTACCAAGGCTTCTCT	1582	GGTGGCTTGGATTGCTCTACT	2782
383	GCCCCAGATTACACTGCAT	383	GGTGCTTACAGGGTTACAGT	1583	TCCACCTGGCCCGGAGCATT	2783
384	GCAAGTAGCTGGGCCTTGTC	384	AGCCAGCAGGTGCCATTCTAT	1584	CGTGGAGGGGAGGAAGCTTG	2784
385	GCACCATCAGGAGATGCAGACT	385	GGGAAGTAACATCCAGCTTCA	1585	ACCAATGGGAGGCACCATCA	2785
386	CTCTGTCAAGTTCTGAGTGGGATGA	386	GCAAGTTCTCCCTGCAGGCTT	1586	GAGTTGCATTGTACTCTGTCA	2786
387	GAGGCCTCACTCTCCCTTAT	387	CTTCCCCTATTGCTAAGGAATTTCT	1587	GGCTTTTGGCTTCCAGGTTGATG	2787
388	TCATGCTGCTTGGGTAATGTTCT	388	CTGTGCAGCAGAGGCAGTTATG	1588	CCCGCAAGGGTTGGGGAAT	2788
389	CTGGGCCATCTCTCTGTCT	389	GGGCCTCGAAAGGCAGAAATC	1589	TCCAACACCATCCGCTCTTC	2789
390	TGGAGAGTGGGGAGGAGCTT	390	GCATCCATCCGGGCAGTTTCA	1590	GTGGGTGCCAGAGTTGAGATTC	2790
391	GGAGCATGCCGCTTGTACT	391	GAAGAGCAGGAGTACTTCTATCCAT	1591	GGCCGGGAAAAGGGAGCAT	2791
392	GTCTCTCCCTGAAGTAGGGTTGT	392	GACCCAGACTCAGTCAGTAGATG	1592	GTCTTCCCATAGTTAAGTTGTCTCTC	2792
393	TCATCTACATCATCATGGTTGGAT	393	CAAACTGGAACCATACCCACTTC	1593	GCAGCTACGCATACAAATCACTCACATC	2793
394	GGAGCAGCATTGCCTTCGTT	394	TGGGGCTCCACCAGCCAGAA	1594	ACTGGACTCAGGGAGCAGCAT	2794
395	GCCTCGCATCACGCAAGTTT	395	GGCTCTAACAGCCTCACCAAT	1595	AGGCCACTGCGTCGCATCA	2795
396	CCCCTTTGAAGAAATGATAGCTCGAA	396	CTGGTGGGAGTGGGCTTATTT	1596	GGACTTTTGTTTTCCCCGTTTGAAG	2796
397	GGGTGCTGTTCTGGCTTTGA	397	GCAAGTGTTATCAGAAGTCCACCTTAGT	1597	TCTAAATGTTCTCTGGGTGCTGTTT	2797
398	GGCTGTGGTTGTTGACAGAGT	398	TGAGCCAAAGACTTTCCCTGTATT	1598	GGGGTCTAATGGCTGTGGTTGT	2798
399	CCCTGTGGAACAAAGTGGGAAC	399	GCCAGACGCGAGGCTAGTAA	1599	GGCTGTAGCCCTGTGGAACAA	2799
400	GCAAAGGCTTGTCTGACAGTGA	400	TGGCCACGTCTCTCCACTA	1600	ACGGCAGAGCAAGGCTTGT	2800
401	CAAGAGGACCTTCGAAACTTTGA	401	ACAGCAGGCTTAATCCTAGAGGTA	1601	GGACAAGGCCCTTTAATTCATACCAAGA	2801
402	AGGCACACGAGGTCTCATC	402	CCCAGAGTTGCAGTAGGACACAGT	1602	AGCCCAGAGCAGCGTTCA	2802
403	GTGTAGAGGGGCAACTCCTATCTTG	403	CTGCTTGCCCCGACCTCTT	1603	TGGTAGTGTAGAGGGGCAACT	2803
404	CAGACTACAAAGGTGTTTGCTGTTTGT	404	TGCCCGGCTCAGTTTGAAT	1604	GGGCCAAGCGTTCAGACTAC	2804
405	CTGCGTTTGCTCTACTCTGT	405	CTGCCTTAGGGATCTGGGTGATG	1605	ATGCTCAGGCTGCGTTTGT	2805
406	GGTGTCTCCCGCACTTAGCAT	406	GGCTTTGGGAAGGAGCATCTGT	1606	TGGCTCCTGAGGAGTGTGTTG	2806
407	GTGAAGCCAGACAGCAGTAATCA	407	CCAGCTTCAGTGTGCACCAA	1607	CAGAAAAGTCTAGTGAAGCCAGACA	2807
408	GGAGGGTGAACAAGGCAAGATG	408	CCTGAGAGCTGTACTGTTGCTCGAA	1608	CACAGACAACTGGAGGGTGAAC	2808
409	ACCTGCAGGAGCTAGTTAGAGA	409	TTTCTCACTGGGTGGGATCT	1609	ACATACCTGCTGTACCCCAATG	2809
410	GCTTTCAGTCCCCACTTGTGA	410	GCGGGCAATTCACATCTGA	1610	GCAATGAACAACGACAGGCTTTCA	2810
411	GTGAGGCAGGAAGGATGAGTTT	411	CCAATCAGGGCAAGTGGTTCT	1611	GACTGAGCTTGTGAGGCAGGAA	2811
412	GAGCTTTGGAGACAGTGGGGTAAC	412	GGTTGCAAAAGTACTGTGGGAATAAAG	1612	GCATACTAAAGGAGCTTTGGAGACA	2812
413	CCAGCATCAGGTACAATGAAC	413	GAGGACTTGGGCCTTCTCTATC	1613	GCCAACGAGGCCAGCATCA	2813
414	ACTGAGGGGCGCATTGCTTA	414	TCTGCGATGCGTTCCTGTT	1614	ACAGAGCGGTACAGCGGAATC	2814
415	GCGGCAAGGAGGGTTTCTAA	415	GTGAAGCTTGGGCTGTTTG	1615	GAGAAAGTGAGCATTTGCCATGAAAG	2815
416	TCAGAGTTCTGCTCAATGGAGGAA	416	CCATACAAAGCAAGAGTGGGAAGT	1616	GGTCTTACCTTCAGAGTTCTGTCTCA	2816
417	CCTAGTCTGGAAAACAGCACCAA	417	GGGAGGGGTTTCCCACTAAGA	1617	GGGGAACATTTACAGCCAGATAACACT	2817
418	AATCTGGAACACTCTTGCTAA	418	CATCTTCAATGTGGAGCTGTCA	1618	AGGGCCAATCCTGGAACACT	2818
419	GTGTGAGCTAGTTCCTTCTGCTCTTC	419	CAGCCGCTGACTGCCTCAT	1619	CCTTGACCAAAAATAGAAGTGTGAGCTA	2819
420	CAACTGCAGCGTGTGATTTTA	420	GCAAAAGGGGATGTGTCTTTC	1620	ACTGCCAAGTGCTGCAA	2820
421	AATCGGCCACAGCCCCAGAGA	421	CCCCGCTGGTGGTCTGTTT	1621	CACAGCTGAACCTCAGGCAATC	2821
422	GGATCTTCTGAACACCATCCTT	422	GGGCCTGGGTTCTCTTCT	1622	CAACAGCCGGGATCTTCTGAAC	2822
423	ATCCAGTTCCCTGGGTGACTCT	423	CAGTGCGTGTGGTCTCACACT	1623	GGGCCTAGGTGTGTGTATCCAGTT	2823
424	GTTTTCTCCACCAACACACCTTCT	424	GCTTACACTGACGCTGCAACTGA	1624	CCTGTGGAATGTTTTCTCCACCAA	2824
425	AAGGGGACTCGGAGGACAAGA	425	TGCCCTGCACCTCTGATCT	1625	GGGTCTAAGGACACGGGTCTA	2825
426	GGGCCAATGTGTCTGGTTTGT	426	GGAGGCCACACACCTCCTA	1626	TTTCCGGTGGGGCCAAATGTGT	2826
427	TGCCATGGCCTTGCCTATAC	427	TCTCAGCCGACTCAGATCACT	1627	GCATTGTGAGGCTTCTCTTTT	2827
428	GCTCTCAGGGAATCATCCATTTG	428	CATTCTGAGTGTGGGTGGATT	1628	CAGAAATCAGAAGCTCTCAGGGAAA	2828
429	CCTGGGATTTACCATGTCCCATAA	429	ACGGTGAAAATGAGGCTGTGT	1629	ACTCTTTTGCTGGGATTTACCAT	2829

430	CGTGCTCCACTTTCTGACAA	430	GGGGACAGGAGGCATGAGA	1630	ATCTGGCCCGTGCTCCACTT	2830
431	CAGGGATGAGCCGCTGTTTCTA	431	TGCCACTGCGTCATCTGTGA	1631	AACACCTGGGGAGGCAACA	2831
432	AGATCTTCGGGGCTCCAGACA	432	GGCGCTGGGGACTTCATT	1632	AGGCAGGGAGCACAGAGAT	2832
433	GCATAGTCCACAGTAGGAAAAATGCAA	433	CTCTGGCCCCACAATCAATGT	1633	GGTTTTGGGGCATAGTCCACAGT	2833
434	GGCAGCTGCAACAGTATGTCT	434	ACCCTGTCCCCAATACCCTGTATC	1634	CCTCCCCCTCCAGCATGAAG	2834
435	GGTCTGTCTGATTCCAGCTGATAC	435	GCCTGACCTATGACCTTCAGTAAC	1635	TCCCTGGGTGGTCTGTCTGATT	2835
436	CTCAGTGGGCTTAGAATAAACCTGAAT	436	GGAGCCACCATGACGACTGT	1636	CCCCATCCCATTGCTTCTCAGT	2836
437	GGAGGTTTGCTGGGTCTTT	437	CCTGAGCCCTAACATGATCCAAA	1637	TGGCTTCAAGGTAGGGAGGTT	2837
438	AGGCGGGTCCCCAGGAAACA	438	TGAGCCTCTGCCTGCTA	1638	GGAGGGTGGCAGTGTGGTA	2838
439	ACAAGGGGCTGACTCAGCTT	439	GTGCCCTTTGGCCACCAT	1639	GCTGTATCCAGGGAGGTGACAAG	2839
440	CCTGGTGTGCTCTGCCTTGAA	440	GCTGGATGGGCAGACAGGAAA	1640	CCTGCGTGTCAAATACTCCTTTCTA	2840
441	CCTCGGTGGACACTTGGTCTTG	441	ACACGGCCGTCCAGTCAGT	1641	GCTGTTGTGTTAAGAGCCTGGAT	2841
442	GGAGATAGGAAAAGTCATGGAGGGTAA	442	TGCGTGACAAGGGGCAAGAT	1642	ACCAGGCATAGTGGAGATAGGAA	2842
443	AGTCTCATGGCAGGCTGCTT	443	CCACCAGGACTCGGGTCTTCT	1643	TGCCGGCTCCCACTCTCAT	2843
444	AGAACCCTGCACCCTCTTTCT	444	GGACCTCCTGGATGAAGATGAGA	1644	TGCTCGGGCAGGGTGAGAA	2844
445	GGCCTTAATTGACACCGCTAATCTTG	445	GGGGACACCGATGGGAGACA	1645	GGCACCCTTTGGCCCTAATTG	2845
446	GGAGAGGCTAAGGGGAAACAGA	446	GTGGAATGCAGGACTGTGTCT	1646	TGGTGGGCAGGAGAGGCTAA	2846
447	ATGGTGGTGGCTGTGCGATT	447	CCAGACCCCTTGACTCTATCCAA	1647	AAGTGGGTGCTACAGAAGCATT	2847
448	TTGGGTCATAGGGCCGAGAATG	448	TCCACTTCAGCTGCGCCAAA	1648	GGGCTAAGAATGAGTGATGGGTCTA	2848
449	ACACGAAAGCGCGTCAGAA	449	GTGTGTGATTTGGCCCGGATCT	1649	TTCAGGCTCTGAGACACGAAAG	2849
450	TGGGCTTCTGGGTCTAGATGT	450	AGAAGGGATCACCCACCTT	1650	ACTCCTGACCGAGGGAATGT	2850
451	GGAAACCATGCCATGTCTACTGTGT	451	CTCCGCTCAAGTACCTTGAATTT	1651	CCCAAAGGAAACCATCCCATGT	2851
452	TCCCACTTACTACGCTCCAAGA	452	GCTTGGACTCATGGTACACGTT	1652	CACAGGTTCCCTCCCACTTACT	2852
453	TCTGCCCTAGCTGTGGCTTT	453	CATCGCCACTACAATTCACCTCTGA	1653	AGCCGGGGAATGTCCTGTATTC	2853
454	CGCAAATAGCCCCAGAACT	454	CTCCCTTGCCACTTTCCTCTGA	1654	CCTTCTGATGCTTGATACCGCAAA	2854
455	TTTGGTTAGCGGGGCTCTCT	455	GCCAACACCTTGATGGCAGGTT	1655	GCAGATCAGGATTGCAAGGCTTG	2855
456	CCAGGATAAGAAATGTTGGCTCCTT	456	GTTATCCATCGATTCCCTGCAT	1656	GGCCTCAGAAGCCAGGATAAG	2856
457	CTGTTGCCCGTGGGATTAAATG	457	TGCGAGGCAGAGCACGTT	1657	GGTTTCGCTCATGCCTCTGTTG	2857
458	TGTGCTACCTGGAGAGGGTTTC	458	GGGGATGGGTTACAATGTATGTCT	1658	TTCTGAGAGGGCTGTGCTA	2858
459	CCCTTCTGCAGCATGTGCATT	459	GATTGGGGAATGCAGCTTACAGA	1659	ACCAGCTCCTCTCCCTCTCT	2859
460	GCTAGGAATGGGAACATTGGCATCT	460	CAGGCTTTGGGGCAACAGAGA	1660	GCACAGCTAGGAATGGGAACA	2860
461	GTCTTTACAAGCAGGCCCATTTG	461	GGGGCATCTGCCTTCTGGAAT	1661	GCTAATGCTCAAAGGGAAAAGTGCTT	2861
462	AGACCACCTGCCCTAAGACCAA	462	CACTAGAGCCAGCTCGGAATAC	1662	GTGGCATTGTGGAAACAAGCAAG	2862
463	ACCCCATCCCCACCACTT	463	CGGATTCTCAGAGAGCAAGCGTAA	1663	CCTGCCAGCAGGGCATTITTTCT	2863
464	GATTGGCTCCTGTGCTCTGAGT	464	GCTGCACCTTGAGCAT	1664	CCTCAGATGGCTGAGGGAAGA	2864
465	CCTGCAGGGAAACCTGCAACT	465	TTTCCGTGCCCTGACCACTCT	1665	GTTCAGGCCTGCAGGGAAAA	2865
466	CTTTACAGCATTGCTCTCTCTA	466	GCTTTCAGGGTGGTGAGTGAGT	1666	GGGTACAATAGCCTTTACAGCATTG	2866
467	GGCCACTAGTCTGGGACAAAG	467	GCCAGAGGACATATTTCCAAGCAATC	1667	AGGCAGCTTAGGCCACTAGTCT	2867
468	GTAATGTCAAGTGGCTCTAGGTAAAGA	468	CACAGACTCACACGGGTGTTCA	1668	GAACCTCACCCAGTTCTAAGGATAG	2868
469	GGAGAGGGAATGCTGCGAAT	469	CCCTCAGGCAAAATCCCATACA	1669	CCCTGGAAGAAGGAGAGGGAAT	2869
470	GGAGGCACAGCAGGTCTGA	470	CTCTCTGTCCCTCTGGAGTAAGAA	1670	AGGGCAGTGAGCACTGAGTTG	2870
471	GGACACCAACGATGACACAAAAT	471	TCTCTGACTACCATCTTCCACTGT	1671	ATCCCCACGGACACCAACGAT	2871
472	AGGGAGCCGGCATCCTTTG	472	CGCAGCACCATAGTCACAGCAA	1672	GCAGCCATTCCCTCACCACAT	2872
473	TGCCAAGAGGCTTCTCAGTTC	473	GCCTTGGATGTGGAGCAAGT	1673	CCCCGGGCAACACATACT	2873
474	CCTGGGCACTAAGCTAGCAATG	474	GTCTCCAAACTGCTTTCTCAA	1674	ATCCTGGTCTGGGCAGTAA	2874
475	TCACCCCTCACTGCACCTCT	475	AAGTGAGGGCTGCAAGGAGTCA	1675	ACCAGGTGCCAGCTCCCTATAC	2875
476	GCTGAGAATCCAGAGACTGTGTT	476	ACGTGGTGATCTGGGAGAGA	1676	GTGGAGCAGGACTAGCTGAGAATC	2876
477	CCACACCATAAAGGGATCTCAA	477	AGGCCGAGGAGCTGGACTT	1677	GCCAGAAATCCACACCATAACAAG	2877
478	AGTGGATGAGAACTATCATGGCAAA	478	CAAGGTGTGCCAATCCAATATC	1678	GGGGACAGTTTCAAGTGGATGAGA	2878
479	CTTGAGGCAGTTCCGACTTCA	479	GGTGGTGGTCCCTCAGTCT	1679	AGGTGAGGGCTTGAGGCAGTT	2879
480	GCCAAGAACACGTCAGGTCTCA	480	AAGGGCACGGCCAGTAAAC	1680	TGAGGGAAACCAAACTGCATTC	2880
481	TTTCCACTCTCCCTATTCTGCAA	481	AGCCTGGGGCTGGGAATTA	1681	AGGCCTTTTCCACTCTCCCTTA	2881
482	CCACAGATGCAAGAGAGCACTTC	482	CACCGTGGCTGTGTGGAGAT	1682	CCCTTACAAACCACAGATGCAAG	2882
483	GGGAGTGTCTGTGGTCCAGAAT	483	TGGAGAGATGGGCTCTCCTTAG	1683	CACTCTTAGGAAGGGAGTGTCTGT	2883
484	CAAAGCTGTTTTCGGCTAGA	484	CTGCATTACCTGCCCTACCTATCT	1684	ATAGGGAAGTGGTGTGGTCAAC	2884
485	GCTGCGGAGGCCAGAAAGT	485	CCCTCGGGACTTGTGGTAA	1685	TCCCTGCTGGGCTTGT	2885
486	TTGTAGACAATGGGGCCACTAAG	486	CAGTGGTGTCCCTAAAGCACTCT	1686	CAGGAGCTGAGGCTTTGGTTTG	2886
487	TGTGCCAGTGTGACCTTCATT	487	ACGGGGCTGCTATAAGGATTAAG	1687	TGTTTTCTGTGTGCCAGTGTGT	2887
488	GGGTTTCAGGCCAGTAGAATGACCTAT	488	CGACAGAGGCTGTGAATCCCCAAA	1688	GCAGGGTTTCAGGCCAGTAGA	2888
489	TTGAGGACAATAGAGAAGGTCTGTTT	489	GCCACTGATCCAGGTGACTTCT	1689	AGCTGGGATGGAGGGACATTGA	2889
490	GCTGGATCCTAAGACAACACTGTAT	490	GCCAGCTGACAGTTTCTTACA	1690	GGTGTAACAATTGCTGGATCCTAAGACA	2890
491	AGGCTGGCATGTTGGAGTCA	491	AGTGGGATGGGGCTGCTGTT	1691	CAGCCTCCAGGCAAAATTTCCAA	2891

492	TGTGAGCTGTTCTTGCCATGT	492	GCAGAGTCCCTTGGTGGTGAAG	1692	GCAAGTTTGGCCATCTCTTGTA	2892
493	GTGTTACCTGGCGCTGAATGT	493	CAGGCCACATTCTCCACAGA	1693	CGTCCATGAAGGAATAGCTGGTGT	2893
494	AGCTAAGTTTTCAGGCGATGT	494	TGCAAAACATGGACGGGTTGAT	1694	ACCCGGCTATACGAGAAGCTCTT	2894
495	GTGAAAGAGCCATGATAGTCTGA	495	GTGTTGACGACTAAACATCACA	1695	GTTTCATGAAAGTGAAGAGCCATGA	2895
496	GATGCCCGCACCTGCTAGA	496	ACAAAGGGAAATCCAATGGTCACT	1696	GGGACAAAATCGGCTCCTTCAGA	2896
497	TCGCCCTTGTGGATCCAAGT	497	GCTGGGAAGCTCTGCCTCAA	1697	ATGCCCTGAATCGCCCTTGT	2897
498	AGGGGACGTCTCCAGGTT	498	TGGGAAGTCCACCACTCCAA	1698	CCCACACCTCTTGCCAAGGAA	2898
499	ACCCTGCATCGGGTCTCA	499	CCACGGAGGAAGAACAGAAAGT	1699	GCCCATGGGTAAAGGACAGAA	2899
500	GTCTGTTCCCGCAAGGTTGA	500	ATCACCCGGAGGACCATGT	1700	ACTGGCCGGTGGTCTGT	2900
501	GTGTTGTTCTCTTCCCAAGGAAT	501	AGGGGCCTAAGTGGGCTCTTC	1701	CGCTGTCTGGAAGTGTGTTTC	2901
502	GTCTCAGAGATTCACAGCCTACA	502	GAAAAACGGGTTAGGGCAGAGA	1702	TGGCCACAGAAAGGTTCTCA	2902
503	ACAGATGCCAGATGCAGAAGAAA	503	CGGAATGGGATGCCTGGAA	1703	TCTCTGGTTAACAGATGCCAGATG	2903
504	GGCTCTGAGGTATCTCTGTATCA	504	CACTGTCCCGCTGCAGAT	1704	CCCAAAAGGCTCTGAGGTCATC	2904
505	CAAGTCCCTCCAGCAACAA	505	TGTCACAGATCATTTGGTGAATGT	1705	GGACATGACTCCCTGGGACAA	2905
506	CGCCTCTGTCTCTGTCACTTT	506	CCAGGACCCGAGATGGTCTGT	1706	TGTCTTAGCTGCGCCTCTGT	2906
507	GGATACCAACCCCGCCAGAA	507	AGAGACCAAGGGCTTCTCTCTAA	1707	GCCAAGGGCAGGTGGGATA	2907
508	CCATCATCTGGTTATGCTACAGTCT	508	GAGGGAGGTGAATCCACGAGAGA	1708	CCTTTCCAACCTCCATCATCTGGTTA	2908
509	CTTGATGACTCCACTTCTCCATCA	509	AGGGCCACCACGGTGAGAAA	1709	CCTGCCTGATACCTTCTTGATGACT	2909
510	GCCAAGGAGTGAACCAAGGTTTG	510	AGAGAGCCATCTCCCTTCCAA	1710	GGCCTAAAGGCCAAGGAGTGAA	2910
511	CGACCTGTGTTAGGGGTTTCAGT	511	ACTTCTGAGCAAGTGTGATGTGA	1711	CACTGCTTAGCGACCTGTGT	2911
512	GTGGCCCAAGGCTGCTT	512	GGCGACAGTTCTCTGGACTTA	1712	TGGTCAGCGTGAAGCTCTGT	2912
513	CACAGGAGGTCAATTAAGGTTCAACA	513	CAGATTGGCGACCCACCTTAT	1713	AGGCTCCACAGGAGGTCATT	2913
514	GCAGACATTGTATGTCGGTGAACA	514	GGCCTTTCTAAGCTGATGTTGA	1714	TGTGAAAGAAAGGGCAGACATTGTA	2914
515	TGGGTTGCGACGGCTGTT	515	GCTGGCATCTAATGCTGCCATGT	1715	CCAGTGTGGGATCTCAGGCATT	2915
516	ACCACCACACCTAGCTGCAAAAG	516	GCTGCTCAGAGAGAAATGCAT	1716	GAATTTACTCTGACCACCACACCTA	2916
517	TGTCCTTGGGGCCACTGAA	517	GATCCGCTGAGAAGGAACAAG	1717	TGCTGTGTGACAGGACTGT	2917
518	GTGGGGTAACAGCCACAGGTAT	518	ATGCCCTCGAGACCAGCTAGAA	1718	TCAGGTGACAGGTGGGGTAACA	2918
519	CTGCCGAGACTATGCTCAGTA	519	GAGGTTTGGGGTGCGAATGAT	1719	GAACCAACTCGCCGAGACT	2919
520	GTCACCCAGGCCATGTGAACCT	520	GCAGAAGTTGCTGGTTCTGTTT	1720	AAGGAAGTGGCCGAGTATG	2920
521	GGGCCATGTCTGCTCTGTAG	521	GGGCAGAGGCAGGACCATTG	1721	AGCGCTGGGCCATGTCTATT	2921
522	CCCCAAGATGTCTGCCATAGTTC	522	GCTGATATTTTCGTTCTGCAATG	1722	GGTTAGTTCCTTTATTGCCCAAGAT	2922
523	GCAGTTGGTAAAGGCAAGCTTAACGAAA	523	TTGCCCTCTCCCTCAA	1723	GTGTGAGTTGGTAAAGGCAAG	2923
524	AGACTAGGCAGGGTACACACA	524	ACATGCCTACACCCAAAGTCATC	1724	GTGATTTTCCAGCACCTCCCACTA	2924
525	GTGAGCACAAATTTGGATCGAGTGAGA	525	TGCCTGGAGGAAGGAAGTCA	1725	GGGAAACCTGTAATAACTCACTCTGT	2925
526	GAGTGGCTAGCTCTCAAGACACA	526	CCTTCCCTCTGGATTTTGGGTTT	1726	GTCAGTGCTTTTCATGGCATCTT	2926
527	GTGTGGGAAGGAGATTCCATGT	527	AGCTCTCACCCAGCCTCAA	1727	AAATTACTCATGTGTGGAAAGTGT	2927
528	ATGGTAGGTGACAGCCAGAAGT	528	ACACCTGTGGACCATGTCTGA	1728	GCCTGATTGAACCCCTACAACA	2928
529	CGTCAGGAGACAGTTAACTCTTG	529	GCCCCAGGTATGCTTGACCAT	1729	CGGCGTCCAGGAGACAGTT	2929
530	TTCCAAGAGCATTAGGTGCTT	530	ACCCAGCAACCCAGCAATC	1730	CCAGGGTCTTTCCAGAGCATTC	2930
531	AGCAGCTCAAATATGCCAAAGA	531	GGAGACCAGAACATGACACTCCAAT	1731	GTTTCTCAGGATAAGCAGCTCAAAC	2931
532	AGTGCCAGAGCCCGCTAGAAA	532	CTGGGCACCTTGACGCTTTT	1732	TGACCAGGCAGAGGGCTGAT	2932
533	ACCCCTGTGCTTAAGCTGAAAGT	533	AGGCCCTGTTTCCCTGGAATG	1733	TTGGCCACCCAGAGCAGTCAT	2933
534	CTGTGCTGGCTGCTGTTTCA	534	ATCTGCCGAGCCAGGTCACTT	1734	GCAGTGATGCGATGTGAGTCT	2934
535	GATGGGTGTTGCAAGGCAAAG	535	GGTTTTGCCACCACTCTGA	1735	GAACCTAAGGATATCAAAGGGCTGAT	2935
536	GGCCCATTTACCTTTCTATCATGT	536	AAGGTTGTGCTTTCTCTCGCTAT	1736	CAGGCCCAATAGGCCCATTTAC	2936
537	CAAGTGGATTGTGGGTGGACACT	537	CCTTAGCTCGGTGCGCTAACT	1737	CTGGGTGAGCTCAAGTGGATTG	2937
538	TGTGTGACATTCTGGTGCTAAA	538	CCCACTATGGCAAAGATCCATCA	1738	TGTGCCGTGTGTGACATTC	2938
539	AGGCAGGCGATGAGCCAAAT	539	TGGCACCCAGTCATCTGCTA	1739	GCCCAGGCATCCAATCCCTAAG	2939
540	GTTCCAATCAGAGCAGGGGTAT	540	CATCCCCGTGTTTCAAAGGAAAG	1740	TGATGTGCCTCTCTTGTTCAT	2940
541	GGAGATGCAATCGGCCATAA	541	AAGGACGTACAATTCGGAGTCA	1741	AGGAACTCTGGGAGATGCAA	2941
542	TGTTGGCCAGGGGTTAGGTT	542	TCCTTCCTAGCTGGGCCTTT	1742	CGTTGCTGCAATCAAGGTGTTG	2942
543	GTCATGGGGACCTGGATTGCTA	543	GGGGCGATAGGCACACACA	1743	GACACCTCTCTATCTGTGGAATG	2943
544	GCCACATGACACCTCACACTT	544	CTGACATAGGTGGCTGGAGTGA	1744	AAAGGTAATGTCCATTGCGCTAGAT	2944
545	GGTTTTCTATCGGTGTTTGAGGTCTAC	545	CCGCAGACAGAGAAGCAGTCTA	1745	CGGAGAAAATGGTTTTCTATCGGTGT	2945
546	CAGGGTGATAAGTCCACAGCATTC	546	GACTGCCGAGCTCTTGTA	1746	GCACTAAACGCCAGGGTGAT	2946
547	CAGCACCCAGAGAGCAGCTT	547	GCCATGGATTAGGGTCTGGAT	1747	AAAGGGGACCTGCCACCTTCA	2947
548	GCGCAGGCGCAGCATTATT	548	CTCCCCGGGTAGAGCAGTGA	1748	TGGTGTGACCTCGTTCCTTCT	2948
549	CACGACACCACACGATTCA	549	CACTGGGGCTTCCCTTTACGAT	1749	CACCACACAGGTGCATCACA	2949
550	TCCCATCAGCACCAAGTGGAAC	550	CCGATGGCCAAAGGCTCTCAA	1750	CCCATTGCCAAAAGCAAAGT	2950
551	GGGAGATCATACAGAGAGGAGGTT	551	ACACACTTCATCACGCTTGT	1751	AGGGCCACAGCAGAGGAGAT	2951
552	TCAGGCTAAAGACATTGCTGTAGAA	552	TCCTTGATCTCCCACTCCATTTTC	1752	CTGCGTTTGTGTTCAAGGCTAAAG	2952
553	CCCTGCTCTCCATGCTGCTAA	553	ACCTGGCTGGCCACTTCTCA	1753	ATGTTCCAGGCCCTGCTCT	2953

554	CCTAGGAGGGTAAAGGCGGAGTT	554	ACCTGCCTGCCTCGTGTTT	1754	CACGCGGAACTAGCAACCTA	2954
555	TTGCCAGCTCTGCCCTGCTA	555	AAGTCTCAGGGCCATCCAT	1755	ATGTGCTGCCTACCCCACTTG	2955
556	GCACCAGGAGTGTGCTGAAGTT	556	ATCAGGCCAGAGAGACATGA	1756	TGGGTGCACCAAGGAGTGT	2956
557	GTCTCTGACAATACATTAGCCACTA	557	GGATGAGGGGCTGGCTTCATAC	1757	CTCAGGGACTAAGTGTCTCTGACAA	2957
558	AAGGCTCGCTGAGGGTGAA	558	ACCCAGGGGAAGCAAGCAT	1758	CCTAAATACAGGGAGTGGGATGTAGAAG	2958
559	CGTGATTAAGTACGGCTGCCTGTT	559	CGCGTGGCTGCTTGAGAA	1759	GCTTCTCCACCCCGTGATTAAG	2959
560	GACCACAGAAATTGGAAGGAGCTA	560	AGCTCAAGGGAAGATGTCTCCTA	1760	GGAGAACCTCCGACCACAGAAA	2960
561	GGCAGCTTCCCTTCGCTCTT	561	GCCCTCCTCAAAGTTAGGACTGA	1761	AGTCCCAGGGAGGCAAGCTT	2961
562	GCCTGCTGTTGGGTGAATTAAGTGT	562	TCGCCCTAGCCCTGGAAATTCA	1762	ACCCAGAGCCTGCTGTT	2962
563	GTGATGCTGCTACGGAGGAA	563	GGGCAGTGTCCGCAAGTTC	1763	CTCAGCTGAACACTTGTGTGAT	2963
564	CCCGCAATGCCAAGTGACA	564	AGACTCCGTCAACCCTCCACAAT	1764	TGGAAGGGACGCCGCAAT	2964
565	AGGGGCTGAGTGCTTTTCTTC	565	TTGTAGCCGTCCAAAGAGCAA	1765	ATTTGGCTGGAGGGGCTGAGT	2965
566	GCATCAGAGCAGTGGGCTTACA	566	CCAGAAAACCTGTAGGCAAGATGT	1766	GAAGTCAGTGGTCAGAGCATCA	2966
567	TGGAGGGAGGGAGCTGTTT	567	CGACTCACCCGCTCAGCAAA	1767	CACCGTGTCTCTAAGGGTCAGT	2967
568	TGGGAGGGCCAGAGACTCATT	568	CTGCCAGGCCTCTCTACA	1768	GGAGCCACAGAATTAGCACAGTCA	2968
569	GAGAGAAAGCCAGGCTCCAAAAC	569	CCTGTCCCTGAGCCCTCTGT	1769	CAGATTTGGCTGGCATTTCAGAAG	2969
570	ACAGTTGGGGCAAGCACAT	570	ACGGCTGGTCTTCCAGTCA	1770	CCTGTCTGCTTTTGTCTCAACAGT	2970
571	TGCAACGCGAGGGTGAGTT	571	CTCAGGCTTTGTGGACATCT	1771	AGAGAGGTGAGACGGTGCAA	2971
572	GGAGAGATGCGTCCATCACAGA	572	CATGCACACTCTGCCTCGAA	1772	CGACAGGGGAGCAGGAGAGAT	2972
573	GGATGGCTTCAGGCAGTTGA	573	GCCAAATCACCTCCATCACTCAAG	1773	GCTGGATGGTCTAGGATGGCTTCA	2973
574	CACITCTGGGGCACTTGTGT	574	CGGACACCAACTGTCTTGTTTT	1774	CCAACCTCAGCACATGCACITC	2974
575	CTCTTGCAAATCGAGGAACGAGAGA	575	CCACCATGCTGTCTCACT	1775	GCACGCACTCTTGCAAACT	2975
576	ACCTTCAGGGCCACCACTGTT	576	GATTTAGTTGCACCTTTCCAAAGTT	1776	CACACCTTTTCTCAGGTACACCTTCA	2976
577	TGCACTCACTCAGGGCAGAAGT	577	TGTGCTGCCAGCTGTGGTTA	1777	TGGCGTCTGCACTCACTCA	2977
578	GCAGTGCCTGTTCTTGCATCA	578	CAGCCCTCGTTTCTGTTCT	1778	GCTATGAGGCAGTGGCTGTT	2978
579	TCAGGCAGGGCTCAGAACTGT	579	TTCTCTTCCGCCCAACACT	1779	AGATGGGGCAGCAGCATTC	2979
580	TCCTCTGCCTTCAGCACTGT	580	CCTCTGAGACCTGAATGGTGTA	1780	CTCATGACCTTTGCATTTGCTGAT	2980
581	GGAGAAAGCTCGGGAACACACA	581	GGAAAGCGCTCTCCCTTGA	1781	TGCCTCCCACTCTTGGTGT	2981
582	CACCCCTAAGTTTGAGATCTGTTGATTC	582	ACGTGGCCCCAGTGTGACT	1782	GGCTTCTGCACCCCTAAGTTTG	2982
583	TGCCCTTCCAATCCTGTGTGA	583	GGCTGCAGCAGAGACTGCTTT	1783	CTTGCTGTGCCCTTCCAAT	2983
584	GCCACAGGGGATGAATAAAGCAGTA	584	CTCAATGAGACCGATGCAAGTTC	1784	AGTACAGGCCACAGGGGATGAA	2984
585	CAAAGATGGGTCAAGTTCCTCTCA	585	TGGACACAGAGGCAGAAGAGAT	1785	AAAAGCCACAAAGATGGGTCAAG	2985
586	GGTGGGCCACAGAACT	586	CCTGCTAGCCCACTCTTCTGA	1786	GCAGCCCTGAATTGGAAGTTCT	2986
587	AAGGCTGCCCTGGTCAAACA	587	AAGGCTCCCTGCATCCTAAAG	1787	CCCATTCCACAGAGCAGGAA	2987
588	GTTTTAGGACAGCCAGTCGAGAA	588	CCAGGCTAGACAGAGGATGTTTAC	1788	CCCACAGGAGCAGGTGTTTAC	2988
589	ACAGTTGAAGTCCAGGCTTATTGTA	589	AGAAGCAGCATATGGTGAAACT	1789	CAGTAAATGGTGAGGCCACAGTTG	2989
590	CAGTGGACCCAGATGGTGACTTC	590	CGGTGGTGTGTTGGAA	1790	ACCAACCAAGTGGACCCAGAT	2990
591	TGCTTTAGGGAGCATGGAGTACA	591	TGCTTTGCTGGGATCTTTCTT	1791	CTCCAGTTCACTAAGGAACATGAAATGCTT	2991
592	CCTCAGTCTTAGCCTGGGCTCTT	592	CTGACCCGAATGCCAATCA	1792	GGTCCCTCCATGTCCCTCAGTCT	2992
593	ACAGACCCAGGACGCTGAAG	593	CTGATGCCAGTGCCACAT	1793	TCCTGTGGCTGAAGGACAGA	2993
594	CGAGGGGCTTTGTACCACTGTT	594	ACGCTGGCAGGCTCTCAATAG	1794	AACTGAGCGAGGGGCTTTGT	2994
595	CCATCTGGAGCAGGGGAGAAG	595	GCCTTGGCCCTCAAACAAG	1795	GGAGCCACAGGGGATGGAA	2995
596	GGTTACCCCATTCATCTTCTGTGA	596	TGCTACCTTTGGCAGGGTGTA	1796	TCCAGCAGGCTGAGGCATTG	2996
597	GGGAGAGAGCTGGCGTTCA	597	AGAAGGAACGGCTCCAGTGATG	1797	TCCTGGTCCGGGAGAACGAT	2997
598	CCTGCATGTCTCTGCTCTTGG	598	GCCTAAGGTTTTCTTAGGTCTTGGA	1798	AGGGAAGCCTGCATGTCTCT	2998
599	CCGCACAACCTACTATTGCTGTTG	599	CCAGAGGAAGCTTGTGATGAGA	1799	GTCTGGAACCCGCAACCTTAC	2999
600	AGGAGTGAATCAAGGATGGAAGTAG	600	TCTCCCACTTGCCCTTT	1800	TGGGTTTTTCCACCATAGCAAGA	3000
601	GTCTTCTGCAGGGGTGAAAACAGT	601	GCAGGCACCTGCAGTACA	1801	GGACCGCACGGTGTCTTCT	3001
602	AGGCCCTGAAGTTGCTGGAA	602	CCAGCAAAGGCTCCTTCTTCT	1802	GGTGGGTCCCTTGTGAGCAT	3002
603	GTGAGTAAGTCAACAGTGATGAGGAA	603	CCGCCAAAATCTACTGGGACTTT	1803	CACCTCGTTCAATATCCAGGTGAGT	3003
604	CCAGCACAGAACCAGACAGTT	604	AGCCCTGCCAGTGACGAT	1804	TGGAAGTGCACACAGCAGAGA	3004
605	AGCTGCCGATCTTGCTTTC	605	CTCCCAACCCCTCTAGAACAA	1805	GTACCTCCAGCCAGGAA	3005
606	GATGTTCCCAAGGAGCCAATGT	606	AGGTTAGAGCCCCTGTGCAA	1806	AGGAGGGGCTCAGCATGGAT	3006
607	CGTGACAGCTCACATTACTCTTG	607	GGAAAATGCACGGTGGAAGAGA	1807	TGGACGTGCAGACCTACA	3007
608	GCCTGAGTGTCCATGAACCTGT	608	AGGTACATGGGCTCAGAGACA	1808	TCAAGGAAATGCAGTGGTATGTGT	3008
609	TGGATAGCTACATGCTTCTTCTT	609	GAGGTGGGTTTGCAAGTGTT	1809	GGGCAGTGGGTGAAGAAGAACCCATT	3009
610	CGGAGCCACTTTACTCCACAA	610	TCCACCTTTCTAGCCTTTCTT	1810	TAGGCCACGGAGCCACTTTA	3010
611	CTTAGCAAAGACCTTCTGACTGT	611	GCAACATAGAAGCAAGGCAGTTTTT	1811	CGCTTCTGTTTAAATGCCTAGCAA	3011
612	ACAAGGGAAAGCTGAGGGTTCT	612	CACAGGGCATGATTTCTGGCTTA	1812	GGGCGAGTTTCAGAACAGGGAAAG	3012
613	CAAAGCACCAATCCTCTGTGTGA	613	ATGGGGCGGAGTTGTGTTCAA	1813	CTGTATCTGTGGGCTTTTCTTCA	3013
614	GGGCAAAAGAATACTCTGGTCAGT	614	GCTACTTCCCAATTTGTTTGCACAA	1814	TCTATCCATGGAAGGGCAAAAG	3014
615	CACITCCCAACCTCCCTACA	615	TGCTGGGGCAAGGCTCAAA	1815	TCAAAACAGAGTCTCACTGTCACTT	3015

616	GCACTTTGCCTGGACTGTTTC	616	ACATGTGACCCAGGGATGT	1816	GGCCCTCTCTGGGCACTTTG	3016
617	CTCCGCCACAACTGAAATCTCT	617	TGGTCCCTGTCTTGCACTCT	1817	CCTCATATTGCTCCGCCACAA	3017
618	TGGGCAAGAGTGTGGAGTCA	618	CCCAGACCTTGAATAGGACTTG	1818	CCTTGTCTCCGGCGATGTT	3018
619	CCGAAATCATTGAACGAGCAGGCTAT	619	AGGGCTGCCCCCTTCACCTT	1819	CTGATGTGTACCCGAAATCATTGAAC	3019
620	CCACCTAAGCCCTAGGATCATCT	620	GGCTGAGGCAAGGTTTTTGAT	1820	GGCTCCTCCATTTCTTCCACCTAA	3020
621	CAGCAGGAAGGGGTGAGTTC	621	CCTCCCCCTCTCTCCACTGAT	1821	CACATCAGAAACGTTTGGGCTGATAC	3021
622	CGCCTGGAGCCTCAAATTGGTT	622	AGTGACCACAGGTGCAAGAAG	1822	TCGGGCCAGCCAGATTTACT	3022
623	GTCTGGAACCAACAGAAATTGCTACT	623	TGTGTATCCTTGGGATCTGGTACA	1823	CAAGAATTTCCCTGTCTGGAACCAA	3023
624	CAAGACCTTGGACGCTCAAGAA	624	GAGCTTTCTGATGCCTTACACT	1824	GGCCAGCCAGAGTAGTAACAA	3024
625	GTCAAGCAAGGAAGGAGTACCAT	625	CGCAGGCTTCTGCTGTTGA	1825	GACAGAGGGCTAAGGTCAGCAA	3025
626	CAGAAGTCATTGTGAGGAGGAA	626	TGACCTGAAAGCTCTTTGTTCCAT	1826	CAGCCATCACCAAGAAAGTCA	3026
627	CTGGAGAAAGATGCAGTCGACCAT	627	CCTCTGGAGGCCCCACTGTAAT	1827	TGCCAGGTGCTGGAGAAAGA	3027
628	AGCTCTACTTACAGAAAGGAGTTG	628	TTCTAGTACATGCCTTTTGGTGGAT	1828	AGCATACCCCTAGCTCTACTTACA	3028
629	CCTGCTCTGTGGCCCTTA	629	GCATGGAAACAGGGCATGACT	1829	CCTTTGTTGTTGCTCTTCCAGTTC	3029
630	CCAGCCTTGCTTCCCCTTCAAT	630	CGCTTTGTCCCCACTCTTACA	1830	CAGTTTCCCCAGCCTTGCTT	3030
631	GGGGCAGGGAATACAGGAATTT	631	CACCTGTGCAAAACAGTTGTAG	1831	TTCACTGAGGGGCAGGGAAT	3031
632	GAAATACTCACAATGCCCTCAGCAT	632	TCAGCACCATCTTGCTCATC	1832	GGCCAACCTTGGTGTAAAAATCCCTTGAA	3032
633	GTGAGGTGTGGAACGAAGGTTTG	633	GGAGACTCTACCCAGCTT	1833	GAGTTACCACTGAGGTGTGGAAC	3033
634	TTGATTGAGCGGGAGCAAAAG	634	GGGATTGTTAATGGCCGAGACT	1834	CGCCTCCACGGCTTGATTGA	3034
635	CAACCCGAAGAATCTTTGTTCTCAAG	635	ACCCACCACTTGACAGTTAC	1835	GGCACCACACTAAAAATCAACCCGAAGA	3035
636	GGCATGGGAATAAATGCCAGGTGAA	636	GGGTCCCTAAGCAGCTGTGAGAAG	1836	TGCTTTCTTGGGCATGGGAATA	3036
637	GGAGACTTGGAGGGTAAGGCAACT	637	AACCAAGCCTTGCGGTAAAG	1837	AAGCCTGAGGGCAGGAGACTTG	3037
638	GCAGTTTGAAGGCCTAGTTATGTTT	638	CCTAGGGAACAGTCCACTGAGAGA	1838	GCAGAATAGCCAGCAGTTTGAAG	3038
639	GCAAGGTCTGAGTGGAGAGGAT	639	GCCCGTGTTTGAAGCTACTGTCT	1839	GCAGTACTTGCAAGGTCTGAGT	3039
640	ATTGCAGCTCCAGGCTCCGAGAT	640	GCCAACCACTTCAAGTTGGGAGTCA	1840	CCTCCATTCTGGATGCCACTTTTG	3040
641	CAGCCCTCTCTGTTCAAGTGT	641	GCCAGCTAGTGGCTTAAACCAAGT	1841	GCACCTTCAACAGCTCTGTCTCA	3041
642	CGAGGGTCGTTGGCACTTCAAT	642	GCTTCGCCCATGGCTGTCTT	1842	GGCGTGGAAGGATGTCTAACAAAGT	3042
643	TGGGAAAGAGCGAGATCCAAAA	643	CGTGATCTACCCCACTGAGACA	1843	CCAAATGGGGCAGGTGGGAAA	3043
644	TCTGCCAGCCGATGGAGTA	644	AGTTGGGCATGGAGGCATGT	1844	ACTCCTGGGCTCAAGCAATC	3044
645	GTCACTCCCTCTGTTCTCTGTCA	645	AGGCCTTGCAAGGAGAGAAATG	1845	CTGCATTGTCAAGTCCCTCTGT	3045
646	TGACACAAGAATCAGGTTGGTTGA	646	CACCTCTGCTTTAGGTCTCAGGTTT	1846	GCAGAAGTTATAGCAGGGATGACA	3046
647	TTTATTGGCTACCCAGGTCCTA	647	CGATGCTGAGCTAAGGAGCCTAAA	1847	CCAGCAACCTTTTTGGAGTGTTT	3047
648	GATGCTTCCCTGAACAGTCAGAA	648	GTCACCTATTCTGCTCTACCCAAA	1848	AACAGCTTGATGTCTTCCCTGAA	3048
649	GCTGGGCTGGTTAGGGAAACA	649	GAGCATCCTCGAGAATTGCAATTGA	1849	GGACAGAACAAATATCTGCTGAGAA	3049
650	CAACACTGTGCTGTATGGGAAAAT	650	GACAAGTCAGCTGGTGAAGAGTGAA	1850	CCACCAGAGCAGGCTTCTACAAC	3050
651	CAACCCAGGAAGACACACCAA	651	GGCTGTGGCAAACTTGAACATGA	1851	CCAAATGTGAGGATCAACCCAGGAA	3051
652	AGAAGGTAGTTCACCTGACCGTTA	652	TCCACTGTGGTTTGAGTGGAAG	1852	GGAGCTAAGGCCAGAAGGTAGTTC	3052
653	GGGCTGGCAGATATGTAGTAGAAG	653	AGACTCGCTCATCTCACTT	1853	ACAGAGTGGGCTGGCAGATA	3053
654	GGCGACAACATTGGCAGGATCT	654	GAATCCAGCTCAGCCCCCTTCTA	1854	GTGTGTTTACGGCGACAACA	3054
655	CTCAGCTCAGGTATTTGTGCTGTTA	655	TCAAGCAGAACAGGACTGACAAAT	1855	GCCGCCCCCTCTCTTTCTCA	3055
656	GCTGCACTGCATACATACATGGAA	656	TCTCAGCCTTCCCGCTTCAT	1856	GAATGGGGCTGCACTGCATA	3056
657	GGCAAAGTGATGGTGGCAGCTT	657	AGGGCCAGGTTCCCTCTT	1857	TTACCCACACTAGTAAGGCAAAAGT	3057
658	GGAAATCTGAGCATGTGGAGTGA	658	TCCCTTCCAGGATGACCATTTGA	1858	GTGAGAATCCATTGGAAATCTGAGCAT	3058
659	CGATACCCAGGTACCATGTTGAGA	659	AGCCAGGAAGCCTCAGAGT	1859	GGGCCCTGAATAACCAATAGCGATAC	3059
660	GGAAAGGCCATTTGGCAAGAATC	660	TTGCTCTACCTCTCCAGCTT	1860	GCCAGGAGAGGAAAGGCCATTT	3060
661	CTTGGTCTGTCCCCAGGTTGTTAG	661	CCCCTGCCCTATTTTAAACCACAAAG	1861	CAAAGCTGCCCTTGGTCTGT	3061
662	TCGAGAGAAAGATGGGGTAGAAAGT	662	CCACTGCACCCAGCCAATCT	1862	GGCCTTAAAGAGGACATCGAGAGAAAG	3062
663	CCCTGCCTAACCCACATCTGTGT	663	AGGCAGGAAGCCTGTTTCTA	1863	TATGGCTCCACCTGCCTAAC	3063
664	GTGGAAGGCGCTCAGACTGT	664	TGTGCAAACTCTGTGATGGAATGTA	1864	GGGTGGTGAGGTTTGGTGGA	3064
665	CCTGCGAGTTCTGTGAGCAAT	665	AGGGGCCCTTCTGGAGGTTT	1865	GGAGACAAACAGCAAGCGAACA	3065
666	GGACTAGGTGGTTGGTGCAA	666	TCGTTCCACCATGCTTTTCTT	1866	GCTCTCTCACTGGGATGGACTA	3066
667	AGGGCTTTTCATGTGAGTGTGT	667	TGCTTAAACGAACAGGGCTTTG	1867	ACAACCTAGGAAGAATTAGGGCTTTTC	3067
668	AGCATCTGGCTCCCAAGTGCTA	668	TCTGCAGGGGTGTGGTATTTT	1868	CCTACCCAGGACAGAAAGCAT	3068
669	GGCAAGAGACGAAGTGGAAGCATT	669	CCACATATGCCACCAAGGTAT	1869	GTCAAGGATAGGCAAGAGACGAAGT	3069
670	GCAAGCTGGGTGAAGTTATCTTGTTTC	670	CCCCTCCCTCGCAGAAGTATAAG	1870	CTGAAGCAAGCTGGGTGAAGT	3070
671	GCCAGTTGAGGGAAGCCATCT	671	GCCCTCTAATGGCACCAGATCA	1871	GGTCCCCAAATTTCTCTGCCAGTTG	3071
672	GCCTCCTAGTGGGCAGGTT	672	GCCTCAGTCTCGGTTAGCTTCA	1872	CCGAAAGAATCGGCTCCTTAG	3072
673	CGGAAACAAACAACCTTCCCAGAT	673	TGCCCTGTGCCCTCAATTCT	1873	GAAAAAGAGCTGAACAAACGGAAC	3073
674	TGAGCCTTGTCTGGCTGTCA	674	ACCCTGTACTCTCTCATTACA	1874	TGCTGCTCCAGCCATAGGTT	3074
675	TGGGAGGCATAGTCCCTGTGAT	675	CCGCGTCTGGTCTGCTTCTT	1875	AACACCTGGGAGGCATAGT	3075
676	TTCTGTGGGGCACTTGACTTT	676	CTGGAGGAGAGGGCAGTCAT	1876	GGCCCTCAAACCTCATGGAAGT	3076
677	CAAAGGAGGTTCAAAGACCAAGTTTGT	677	GGGATTACAAAGTTGCGCGTTTC	1877	GCTCTCACAAGGAGGTTCAAAGA	3077

678	CCTTAGTCTACTTTTCCCTTGCAT	678	GGATGGAGACGGCAGGAATG	1878	CATGCCTATCTCCCTTAGTCTACT	3078
679	GACCTTGAAGAACGGAGTCA	679	GGACAGAGAATCAGGTCACGGTAT	1879	AGTCAGCTCAGGGGTGACCTT	3079
680	GACTGCCATCTGGCATTGAGAAC	680	ACCTCGGCTCAGGACTTCT	1880	CCACAGCACTGACTGCCATCT	3080
681	AGCCGCTCTGCTTTTGA	681	TGCTCACAGGCTCGGAGATAGT	1881	ACATGCTGAAAGCCAAAACCTCTA	3081
682	GCCAAAAGTGCAGAGTTATTTCACT	682	AGCAGTCAGGTGCTCTCCTT	1882	CAGAATAGCACAGAGTGTACAGA	3082
683	TATTGGCCGCCAGCACTGT	683	TGGTATGGGGCGGCAGTGA	1883	CCACATCTGCCATAGGAGCTA	3083
684	GAGCGCTAGTCAGTACTTTGT	684	CCCAGCTGACACAGGCTCAT	1884	TAGGGCAAAGAGCGCCTAGT	3084
685	GAGCCAAGTTGGTGGAGGAT	685	GTGTCCAGTCTCCTTGAGTCAATTTG	1885	GGAATTCTGTAAAGCTAAGAAGCCAAGT	3085
686	GAGAAGGGAGAGATGCATGGGTTT	686	GGAGGCATGCCCATCTCA	1886	GCTCCCAACCCAGAACACT	3086
687	GGCCACCCCTGTGCATCTTTA	687	GTGGTGCTTGTGGCACTGT	1887	GGCATTCCAGCAGTGACCATAG	3087
688	TGAATGGTGGCCGAATTGTGT	688	GGGCAGTGATAGAACTGACATTTG	1888	CCATGGGCACAAATCCAAGCCTAT	3088
689	GCCCTTTCTGGAGGTACTTGAGCTTAT	689	GGAACGTCAAGTGGTCAGCTT	1889	GGGGCCCTTTCTGGAGGTA	3089
690	GCAGTCTCCAGTGCTGTTCTTC	690	TGTCAACCTCTCTGCTCATAAGT	1890	AACGGCAGGTGAGCAGTCT	3090
691	CTTCACCCACAGCCAGAAATGT	691	GTTCATCCCAAGGACACAGA	1891	GTGGTTGCTTTCACCTACTTCTTC	3091
692	CTGGCTTGGAAACAGAAACCATGACT	692	GGGACTGGACCAAGAAGGGTATG	1892	GACTCCTGGCTTGGAAACAGAA	3092
693	AAGGCTTGAGACGTGCTTGT	693	CCATGGCAGAAGCTCAGGAAAC	1893	GCAAAGATGACATAAGCAAAGGCTTGA	3093
694	GCTGCAGTGAGCCACGAT	694	GGTCTCGCTCTGTGACACCATT	1894	GGAGTATCACTTTAGCACTGGAGTT	3094
695	TGGCTGGAGCAGAGTGAACA	695	GCTTCCCGTGACTGTCTCTAT	1895	AGGATCGGTGACGGCAGTGT	3095
696	CGCCATCAGGGGTGATGTAA	696	GAGAGGTACTGTGTAAGCATTTTC	1896	TCCAAGCCACGCCATCA	3096
697	AGGGATCAGGGCCATCTTCA	697	AAGTGTGGGGCCCTCCTAAG	1897	CCTCCACTCTACAAAGCTTATAACA	3097
698	AGTCAGCAGGCTGGAAAACT	698	GCAGCTGCTGTCTGTGCAATTC	1898	TACGCTGACCACCTGACACT	3098
699	CTGTGCAGGAAGCAAGGTAGAT	699	CCTTGCTCTGTGCTCTCTGT	1899	GTGGTACTACTCTGTGCAAGAA	3099
700	TGAGTCAAGGTGATACTTGCTTCTT	700	CAAAGGCAAAAAGTGGCATCTGT	1900	TGAGGCATTTGAGTCAAGGTGATAC	3100
701	ACCTATACAAAGGGGAAGTCAGGAT	701	GAGCCTACCTCTGTGGACTTCA	1901	TGCCTGGGTTAAGGCGCATA	3101
702	ACCTTCCCCACCATGTTCTACA	702	GGAAAAACCTCTGAGCCTCACATT	1902	GGGAACCTTACTGATCACTAGTACAAAAC	3102
703	CACATGCCCAGTAAATGGAACAAA	703	CGGCCCTTAGCTTGAGTTAGT	1903	CTCCTGACACATGCCCAGTAAA	3103
704	CACCTGGAAGCTGAAGCCAAAG	704	GAGGCTGCCTAGAGAGACAGA	1904	AGTGTGGGGCCACCTGGAA	3104
705	AGTGGGCGAGCGCCCTTAT	705	GGCCACGCATGGGCATTTG	1905	ATGTCCGGTCCGAGGTACAGT	3105
706	AGCCCTGCTGCGTGGACAA	706	GGGGCTCGCGTCTCTGTTT	1906	AATACTGCCCTCCCGGACTACA	3106
707	CTTGGGAACTAAGTGAGGGCAAAG	707	CTGTGGGATGTCTGGAACATC	1907	CACTGCAGCAAAGGCTTTCAAC	3107
708	GCAGCTTTTCTGTTGCTTTTC	708	CTTCGAGAAAGGCTTGAGATACT	1908	CTCAGCTCTGTGCCTGGATAATG	3108
709	GGGGTGGTTAAGTATGGGCTAGCAA	709	TGGCCCTCAAGGAGCTGTA	1909	CTGATGAATTGCTGGGGTGGTTAAG	3109
710	AGTGAGCATACAGCTTCTCAGAAAT	710	GCACCCAGCCAGCAATTGGATA	1910	GGTTTAGTCTCCTCACTAGTGAGCATA	3110
711	GGATCTAAGCAGTGATCTCTGTGT	711	CCCCGATTCTCGCTTTGCTT	1911	CGGGTTCTTTCTTGACAGGGGATCT	3111
712	GGTGACTGTGCACGCGTTAAT	712	AGAACCCTGTCACATGCTAAC	1912	AGGCTTCCCTGGTGACTGT	3112
713	GCTCAAGTACTCCCTGGCTTCT	713	CCAAGGCCCTCTCTCTCTAAG	1913	AGAGCTGGCAGGCTCAAGTA	3113
714	CAGGATCTTCTTTGTTGAAGGAGCTT	714	CACAGGCAGTTAGGGTAGGTTCT	1914	CTGGGGCTGCAAGTTTGATT	3114
715	GGCAGACAAATCAGCCCACTT	715	TCCCCACGATGGCAGTGAGTT	1915	GCAGCCTGAATCTTGCCAGACA	3115
716	GTCAATGAAGTGGCTTGCAT	716	TGGAGCAATATGGTGCACTGTT	1916	GAGCTGTCCACTAACCATTAAATTAGGTCAT	3116
717	GGGACTACAGATAAGCACCAGTGT	717	CACCTGTCAAGTTTTGCCGTCTT	1917	TCTCACCTTAGCCTCCCAAGT	3117
718	CAAAGAGGCCCTCATGCTCAGT	718	GCAGGCATGACAGACTTTCTT	1918	TGGCTGCCCTCCTTCCATGAT	3118
719	TTGGTCTTACACCAAGCAAGT	719	GGCTTCCCATGGCATGTCTAAA	1919	CCCAGGAGTGATCTTGCTCTACA	3119
720	GCCAGAGATGAATGGTTGCGAATG	720	TTGGAGTGGACGCTTCTCTATTTT	1920	GCGGATTTTGAAGCCAGAGATGA	3120
721	CCTGTGCTATAGAATCAGCACTCT	721	CAGGGCTCCCTCCTCCATT	1921	CCATATGAGCTCTCCCTGTGCTA	3121
722	TGTGTGTTGTGGAGAGGGAGAT	722	CAGCACTGAGTTCATTGCCTCAAAAA	1922	GCGTGGTGCAAGTGGTGTTT	3122
723	GAAAGCTCTTACATTAGTGCCAGGTT	723	GCCATAGGAGAGACCCTGAATCT	1923	TGGTCTCCTGGAAGCTCCTT	3123
724	TGCACTCAGAGGAGAAGTTAAAACA	724	GACTGCAACAGAGGCTGACCTA	1924	TGTAAAACAGGGAAGATGCACTCA	3124
725	GGATCAAAGTTCAAGGAGTTAGTGTGA	725	TGCCCTGGGTGGTCTTGT	1925	CCTCCTGTGAGGATCAAAGTTCAAG	3125
726	GCGCCACGACATTTGAGTCTTG	726	CAGCAGAGACCTGATAGCCCTATGT	1926	GGAAAATCCGCCACCAAGCAT	3126
727	CCGGCCAAGAAGGTAGCAA	727	GCAACAGGTTTTGTCTCTGGTT	1927	AGCAGTCAGTCAGTTTCCAGCTA	3127
728	GGGCTTTCTGGCCGAGATGAA	728	CCTCGTCTCTCCCATCCAAA	1928	CCTCAATGATTACCGGGGCTTTT	3128
729	GCCACAGGTTGGAGGCAAGA	729	CTGGAACGCGCCAGAGT	1929	GGCTCTCTTGCCACAGGTT	3129
730	AGTGCCCTGCTCAACCAATAC	730	TGGTGGGGACATTTTCTGAAAG	1930	CACGCCAGAAATCAAGCCAAAG	3130
731	TCCCTCTTGTTCAGAGTTTTTGT	731	CTGGTTGCAAGTGGGAGCAT	1931	CCTCTAGCTGTCCCTCTTGTTTC	3131
732	GGAGGCTCCATCCACAGTCA	732	TCAGATGTCAACCCGCTAT	1932	ACACACCCACAGCTTCTTC	3132
733	GGGCAAACTGTGTCTCTCCAGATA	733	CGGCCTGACTGGAGGCTTT	1933	GGCTGGAGGGCAAACTCTGTG	3133
734	GGGTTACAGGTTGACTCTGGATT	734	AGGTAGCCAGCAGTTCTCCAT	1934	GCCATCACAGAGGGGTTACAGGTT	3134
735	CCTAGCCTACAAGCGCACTCT	735	TGGCCTGCCTCACTTGCTTA	1935	TCACTAAGTATAAGGCTAGCCTACAA	3135
736	GAGTACTGAGGCAGGGAAGGTTT	736	TCCGGAAGACACAGAGGAAA	1936	GGGTCCAATGTGAAAGACACAGAGT	3136
737	CCAATGAGTTGTAGAGCTCAGATTGT	737	ACATGGGTTTTGAGTCAGCCATT	1937	CAAGGCCATAAGGCCAATGAGT	3137
738	GAGGGGTGCTAGTCAACTGTGT	738	GAACTTGGCTTTTCAAGTCATC	1938	CCTGAGGTGAGGGGTGCTAGT	3138
739	AATGCCAAGGCCACCTGGAA	739	TGACTGACTGGGCCTTCAGA	1939	GGCATGCTTTCAGGGAGAAGTTAG	3139

740	AGGAACCCACAGCGGTAAGTGA	740	GGCAAGGCAGCCAAATAAGGATGTA	1940	TGTCCCCAGCACCAGTAAGTTC	3140
741	TGCGAGCTGAGTGCAGCAT	741	GGGCTCTGTTGGGCTTGTITTTG	1941	GCGGGAATTGGACACAGACTGGTA	3141
742	CTCCAAGTCCAGGATATATGAAGCAA	742	CAAAGTGGTGAGTTCCTTGGGTTT	1942	GGCTTCTTCAACTCCAAGTCCAGGATA	3142
743	GCACAGAAATAATCTGTCAGGAAA	743	TTGCCCTCCCAAGTGGCTTCA	1943	GGGCTCCATTGTGTTCTCTCAAC	3143
744	GGGAGCAAACTCTTAGGAAGACA	744	GGTGCTCTAGGGCTCACAC	1944	GGTTCTGAGGGAGCAAACTCTT	3144
745	TTTGGGGTTTTGGGATGAGGATAA	745	CAGTGAGGAACGTATTCAGCCTAT	1945	ACCTCTTAATTGCTTTGGGGTTTT	3145
746	TTCTCCGCCCAACCGTCTTT	746	GGCATCGCTCCACCCAAGT	1946	CGTGGAGAGGTATTTTGGCAGTGT	3146
747	GCTACCCTGAAGTGCTGATGGAT	747	AAAGAAAGAGGCCATGTGGTACA	1947	GGCTGATTCTGCTGCTCTTCAAGCTA	3147
748	CTTGATCTGTCAAGGGAGAAGAGAGA	748	TCTGGCCACCTGGCGATT	1948	CAGTTGCCTGCATCTTGATCTGT	3148
749	GCAAGGGAGTGATGGGAGATGA	749	GACATGACCCACAAAGCCTTCCTT	1949	GCACTGGTGGAAGAGACAGCAAAAG	3149
750	CCGACTCTTGGTGGGTTGAA	750	TGCTGACCTCCATGGGAAC	1950	ACCCATGACAGCCGACTCTT	3150
751	TGTGTTCTAGAGACTCTGGCTTT	751	GCCCATGTGAGGCATAGACTT	1951	CCTTAGAAGGCCTCTCTCTCTGT	3151
752	ACCAGCTGTGTAGCTAAGTTG	752	AGAAAGCCGAGGCTCAGAGA	1952	CGGTCTGAACGGAAACTGCCATA	3152
753	TTGCCCTTCCCTGTCTTTGGAA	753	AGGCAAGCTAGCTGATATCCTTTC	1953	ACCTGTGTCTGCTTGCCTTT	3153
754	GCAGGACTAACAATGGCTCAGA	754	GGTGGAGTGACCCAAACCTTCA	1954	GCTCAATCGAGGCAGGACTAAC	3154
755	CACGAGCCACTGGGAACT	755	GGCATGCTTTCAATATATCCTCTAGT	1955	GGAGTTGGCCACAGAACTTCCAT	3155
756	TGGAGAAGAGCAATCCATGTTGT	756	CCGGGAAACCTGGGAAGTGA	1956	CTAAGGGCTTGAGAGAAGAGCAAA	3156
757	CCAGGACCCAGAAGTACTCCCTAT	757	CCTGGTGAGTAACGGAGAGTCA	1957	AGCCAACCCAGGACCCAGAAGT	3157
758	CTACCATATGCAAGGCCACCAT	758	CAGGCATGGGCAGTTTCTTTTATC	1958	AGACACATTTGCATGCCTACCAT	3158
759	AGAAGTCCAGGCTTCCCACCTG	759	ACCTCTGCTTCTGGTGTCAGT	1959	CACCTCATTAAGCCATTTGGGAATAGAA	3159
760	GGGCTTGTTAAATGAACCGAGAAGT	760	ACGCCTACAGTGAGCGGAAA	1960	GCAGCCAAAAGGGCTTGTTAAATG	3160
761	GCCACAGTAAACAAAGTACACAGT	761	GGGGCATGGAATCAGGAACCT	1961	TGGGTACCAGTTAAGCCACAGT	3161
762	TGTGCAGTGAATGCAGAGACTAT	762	TTAGAGTGGGAGCGGAGACCTT	1962	AGAGGGACTTATGTGCAGTGAATG	3162
763	CTCACAAGCCTAGAAGGGTATGTT	763	GCAATGATCAGTGGCGTTTTCAGA	1963	GCTGGTTTTCTCACAAGCCTAGA	3163
764	ATGGGACACCTCCCTGCTGAGT	764	ACCACAGGGTTGGGCAATGA	1964	AGACTGCCTGCTGTTTCATCA	3164
765	GGTGATGACAGGGAGAGAGATTGGTT	765	ACGGTGCCCGGCCATTTCT	1965	GCAGGGGCTGTAAGGGTGTA	3165
766	GGCCTTGTGCTCTCCACTTA	766	GCATGTGCTGTTTTCTAACCAT	1966	CTGGGTCTTCTATGGCCTTGTTG	3166
767	CACITCATAGTGTACCTCGTTGT	767	GCCACCTTTACCTCGCTCAACT	1967	GGTGCCTCACTTCATAGTGTCAT	3167
768	AGAAGTGTCTTCTGCTTGTCAT	768	CCTCTGCCACCACATCTATCA	1968	AGATGGAGGGCAGATTTTCAGAA	3168
769	GATTGTTTGTGCTCCAGAAAGAGA	769	TGGTGACGGAGGATGGCAGAA	1969	CACACAGAGCCTGGGCTTATATC	3169
770	GAACAGTTGGCGATAGGCTGAA	770	TGCATCCCACCTGTCTATGACT	1970	GCCTGGGATCTCTGAAGAACAGTTG	3170
771	GGCCCTATACTGCCTTCAGAGA	771	AGCCAGAGTTCTGCCTTCTTG	1971	CCCTTTGTAAGCATGGCCCTATAC	3171
772	CACAGGTGATAGCAACAACCTACCAT	772	AGGCTCGGAGTTTGGCAGAT	1972	TTCTCATACACAGGTGATAGCAACA	3172
773	CCTTGGGTGGAACCTGTGATTCAA	773	GTCCCTGTGTGTGCACTT	1973	CCTCTTGGCCCTTGGGTGGAA	3173
774	AGGCACCATGCTCAGCTCCTA	774	GCACTATGCAGCAGGAACCTAAG	1974	GTTGTTGGCCAGGCACCAT	3174
775	GCTCAAAGCCTTGGGTTCTAC	775	ACAGGCCTGGTTGGCTTTGT	1975	CCCTGGCTACTGCCCATGTTT	3175
776	GCTCCAATGTGACGTCCCTTCA	776	CCAGGTGAGGATATATTATGGAACA	1976	GCCTGTGCTGACGTCCAATGT	3176
777	GCTGGAGTTCAGGTTGGACTT	777	CCGTGGCCACTCATTAAGA	1977	CATCTTTGTGGGCTGGAGTTC	3177
778	GGGCACCCACCATTTGGAA	778	GGGCTCACTTGATGGTGCTTAAG	1978	GAGCCACATCCCGTGAACA	3178
779	GCCAGTCTGTGGTGTTCTATTGT	779	CCAAGTGTGACAGTGTCTTTGTTT	1979	GAATGTGTCCGCCAGTCTGT	3179
780	CACCTGGGAAGCTGACTGTA	780	CGATACAAGTGGATGGCTCTTCATTC	1980	CCTGGAAGCCAGCTAGAAACCAT	3180
781	GTGGCATCTGAGGTGAGCTTTG	781	CATCTCACCATCTGTGAGTGCTAA	1981	GGAGAGGAAGACAGTGGCATCT	3181
782	GCCGGTAGTTGTGACAATAGGAAA	782	AGGTGGAGCTGCCATCTTGA	1982	GGGTGAATGCCGGTAGTTGTGA	3182
783	GGGCGTACTTCTTTTCACTTCTAC	783	AGACACAGTTAGCCAGACCTATTG	1983	AGCCGGGCGTACTTCTTTT	3183
784	TCTAGGCTGGACTGGACACCAA	784	GACATGTGCGGAGGCTTAATCTGAAC	1984	GCTGTATGTCTGCAGGTCAAGT	3184
785	GAGTTTCTGTCTGGGTATGGGTTT	785	CCTGCCTAAAGGTTTGCAGACAA	1985	TCCTCACATGAGAGTTTCTGTTC	3185
786	GAGACACCTGGAAGGACGAACA	786	CCACCCAGATGGACCTCCCTTTTA	1986	CTCCAGCATCTGGAAGGAGACA	3186
787	GCTTGCCTGAGAAATGCCTGTGA	787	TGCTGTGTGACTGCCCTTA	1987	CGGGAGGCTTGCTGAGAAA	3187
788	CCCACACAACTGCTCACA	788	GAATTCTGCCGTCTGGTCTTTTC	1988	TAGCCAGCTCCACACACAA	3188
789	TGGCAGGACAAGGGGTTTG	789	ACCCAATGTCTTTGCCAGTAG	1989	TGGGCGTAGCAAGAATACTCA	3189
790	CCTATTTCCATGGAGCCATTGTTG	790	GGCTGCAGTACACCCAGACT	1990	TGGGTTGCTCTTTGCTGTTCAA	3190
791	ACCTTGCTGAGGGAGCAGTA	791	GTCTTTGGGGTAATCACCACAGTTAA	1991	GTGGCAACAACCTCTGAGGCTAAC	3191
792	CAAGGCAGATGGGAGAAGAGCAA	792	CACACACCTTTTGGCCCTTTTG	1992	GGGAAGAATGCTGTGCTCTCACAA	3192
793	CCACCTTCCAGCCCTTGA	793	TCTGGAGGGGTAATAAGCTGACT	1993	ATTCTCTGCCGTGCCACCTT	3193
794	GCAACATCTGGGGCACAGA	794	GTAGGACCAAAACATGGAGACTGT	1994	CACAGAAAGCTGGGGCAACA	3194
795	TCCCAACACAGGTGGCTAGA	795	CACTAAGTGCCCGAGTCAAGTT	1995	CCAGTACATGCTTTCCCAACACA	3195
796	GGAGTGGATGCAGAAGTGTCTTTCT	796	CAACCATTTGGTGCGGCAAAAC	1996	CCTTTTAAAGGAGTGGATGCAGAA	3196
797	GTACACTAGCAAGTACCGGTGAGA	797	GACAGCACATGCTATCCCTACTT	1997	GAGCCCCAAATGTACACTAGCAA	3197
798	TGAGGCTGTGTTTCGCGATGT	798	AGAAACCAGACTGTGAGGGAAGA	1998	GCCAGTGTCTTTCTTAATTGCTTTGA	3198
799	ACTGGACTACTGGACTACTTTGAT	799	AGGGGAAGGGTCCCTCATTT	1999	CCACTGGACTACTGGACTACTACT	3199
800	CCAAGAGCCCACTGATTCTCT	800	ACCTTAGGTACCAGTCCAGACA	2000	CAATAGCCAGGGTCTGAATTGCAT	3200
801	TGATAGGCAAAACAGCAGACAGT	801	AGGGCTCTTGAGACCAGCAA	2001	GAGTGCAGAAGAATGGGTTCTGA	3201

802	CCCCGCTTACAATGCAACTT	802	GTGTGGATTGTTGCAGGAGGAA	2002	AAGCCCTAAACCCGCGTTAC	3202
803	CACCTTCCAAAAGGCAGCTACAATC	803	CAGCAAAGACTGGATTCTACTCA	2003	AGCAGAAATCACACAATGGCAATAC	3203
804	TGCCTGGTGATCCTCCATCA	804	GGCATCATTGCATTCAAAGACATTC	2004	TGCCTTCACTGCCTGGTGAT	3204
805	GCTGCAAAACGAGAAGTAAAGCAT	805	CACCCATGGCCACCTTTCTT	2005	ACCCTCCCCGCCATCAAGTA	3205
806	GCCCTATGCACATTGGCTTGT	806	CCTCTCTGATCATTTGGCAGGAAGA	2006	CGTCTTTCTCCAGTTTCTGAGCCCTAT	3206
807	AAGGACTGAGCAATGGCTGTT	807	TCATTGTAACAGGGACTCCACGTA	2007	GGTCAGCTGTGTCAATAAGGACTGA	3207
808	GGCCGCAGAGCCTCAACTTT	808	CATATTACCCTGGGAATCACAGCAA	2008	GGAAGCAGGTGTCAAGTGTA	3208
809	GGAGTCTGCAGTTTGAGGTTTATATG	809	TTGGCTGCCACATCCCCTAT	2009	GGTCTGCTTCTGGAGTCTGCAGTT	3209
810	CCTGTTTCAGGATTAAGGGCTTCT	810	CCCAAAATGGCAGAGGCTGTGT	2010	CACACTCGGTTCTCTGTTTCAGGATT	3210
811	AGCTTTGGGGTCCCTCAGTAT	811	CCTGATTCCTTCAGTCTCTGTTCT	2011	ACACCCATCCCAAAGGGATTAAAAAG	3211
812	AGATCAAATCACCCAGCTTTGT	812	TGCACTAATGTCTTAGAGGAGCTTTC	2012	CCTGTCTCCCTTGCCAGATCAA	3212
813	CACACATGTCCTGCAGTTTG	813	CAAGGCCACACAGGATGTGTCT	2013	AGGCTTCCCTGAGCAGAGATATT	3213
814	GGCTCTGACTCATGCTGTT	814	GGGTCCAGGGTATAGGTGGAAGA	2014	TCTCTGGCTCCAGCGTCTGA	3214
815	CCGGCTTCTTACCCCACTTAG	815	GCGCTCTGGAAGGTGAGATT	2015	AGGGATATGGCCGGCTTCT	3215
816	CACCCAGACCCCAAGTTC	816	GGCCTGGGTAAATTTCTACCTACATA	2016	GTGGTGGTGGTGTGTCTACT	3216
817	AGCCTGTCTGCCACCTGAAA	817	TGAGTGAAATGCAAGGCTGCTA	2017	CCTTCCTTTTCACTAAGCCTGTCT	3217
818	GGAGCAGAGCGACCGTCAT	818	CACCTGGATGATTGCCATTGCTT	2018	GAGAGATTGGAAGGGGAGAGATTG	3218
819	GCACTGGACTAGTATTCGGGAGAT	819	GGTCAGTGACAGATCCAGGACTA	2019	GGTGGAGTAAAAACAGCACTGGACTA	3219
820	CTCTTCTGGCACAAGGTGTGTCT	820	TTTCAGGCCCTAGCTCCAGGAT	2020	CCTTCAGGGCAGTGAGTCTCTTCT	3220
821	CACCAGCAAAGAGGGAAGTTAGA	821	CAGCCTCTTCTAGGGTGTGTGT	2021	TCCAGGAAAAGGAAGTCAACA	3221
822	GATGTCAACGTACTGACTCCAACA	822	GGCAGTTATTGCAGCAAGGAAATCT	2022	CGCATGTGTACCTTAATGATGTCAAC	3222
823	CCACAGCTTCATTGGTCTCT	823	GCCACCTTAAGTGTCTATGT	2023	CCCTGAATGTTTCCACCAAGCTT	3223
824	GGGATGGTTATCATGCCCTCTTC	824	CAGGACAAGGTGCTCAGAGTTTC	2024	GCCTCCAGAGCTAGGGATGGTTA	3224
825	GGTTCTAGATCCGCTCTCTTCT	825	AAGATGGAGGCCGGCAGTTC	2025	TGGAGGGGACCGGGTCTTA	3225
826	CTCTGGTACCTGAACCTTCCATT	826	GTGAGGCTGAAGCCCATGA	2026	CCTGGATTGTCTCCTGTCACTTC	3226
827	TGCTTCGAGGAGAGGTAGTGA	827	CCACTTAGCATTGCTTGTCACTAA	2027	GGGGACACGTCTTACTGTAGTCTT	3227
828	GCACTTGACTCACAGGGAGAA	828	TCCAGGAACAACCGCACAGT	2028	TCAGCAGGAAAAGCACTGTGACT	3228
829	GTTATGGCAGCTGACACCAAGTA	829	GGAGCCCCAAGAACCTTGGATT	2029	GTTTCCTTCTTGTGTTGAGAGTT	3229
830	GTCACAGATTACGGGAGAAGCAA	830	GGCTATCGAAGCCTTCATGTCTA	2030	CCATACCAGACACAAAACAGTCACA	3230
831	CAGCCTTTTCCCTAGGCAATGT	831	GTGACAACGTGTGGGTGAGTA	2031	CCTGACTTTCTAGTTCAACTCAGCCTTT	3231
832	GCTCTGGCTACTGCTATTGGTGTGA	832	TGGGACACCTGAGTCATGGAT	2032	GTTGATGCTCTGGCTACTGCTA	3232
833	ACACAAAGAGTTCGATGGCCTTT	833	AGTACTCATTTTGGCAGCACGTA	2033	CAAGGGCTATTTCAGGACTCACAAA	3233
834	TGTTTTCCAGACAAGCCAACAAGT	834	CAGGCTGTCAAGGCATTAGT	2034	CACCTGCATACCAGCAAAATGATTGT	3234
835	GGCAGAGCAGCTTCTTCCATCT	835	GGTTGTTGTTCCCGACTCTGAATA	2035	ACTGCATGGCAGAGCAGCTT	3235
836	GTCCAGCCTCGGAGCAAAA	836	GGATTGAGGAAGGTAGCGCTTT	2036	GCAGAGCTCTCAAAGGGGAAA	3236
837	TCACATATGAACCCTACCACCACTA	837	GTGGTAGTAAAGCTGGTGATGACA	2037	CCACCACTACCATCATCACTATGAA	3237
838	CCCTGCGCTTCTGGTAGTAA	838	CCCAGCACCAATCCCATGAA	2038	GTGAGTGAATGGGTGGGAGGTA	3238
839	AAGCGAGCCCTCCGGAACA	839	CAAATTACAGGCAATGACGCACATAG	2039	CATGTGCTCTAGCAAGACAATCAAA	3239
840	AGGCGGAGCTCTAAGCACTA	840	TCTGGCCACTTTAACCCTCATT	2040	GGAGACCACAATGCACAGGTCTAC	3240
841	ATGAGCTCTGCAGTCATTGAATTG	841	GGGTGATGCTTCGTTGATACTGT	2041	AGCTCTGTAGGAGGGCAAGGAT	3241
842	CTGGCTGCTATGCACTCAGA	842	TCTCTACCCACCCAGCAAAT	2042	TCCATGGCTCTGGCTGCTAT	3242
843	GCTTCGTGCTTTACCTGACTGT	843	CACCAGAGCCCTCATTCTTAAAC	2043	CCGTGACTAGTGCTTCGTGCTT	3243
844	CAAAGGACAGACCTCCAGAGA	844	GGAGGGCAAGGGCATCTCA	2044	GGACCAATGGCTGGAAGACCAA	3244
845	GGGGTACTTACCGTCCAGACAAATTC	845	CTCCCTGTGCACTCTTCTACT	2045	CAGAAGTGTGGTGGGTTACTTAC	3245
846	GCAGAAGCATCACTGCGTAATATC	846	GTGGTAGATAGACCCGCTAGACT	2046	GGCTGTTGCAGAAGCATCACT	3246
847	ACCATCTCTCCCATCTCAGTAAA	847	GGTCCTGAGCAACTGGGTAAA	2047	CCAAACCTGCTCTCCACCAT	3247
848	CGTCTCCATTTCTGTATCCCTCTCAA	848	GAAGATGGGACAGGCGTTGT	2048	GCCAGGTCTCGTCTCCATT	3248
849	GTGGGGTAACGTTTAGGAGTTG	849	GGGTAAGGTGTGCCCTTGTCT	2049	TGAGCCTTGCAAGTGGGGTAAC	3249
850	CTCTAATTAAGTCCGATTGCTGT	850	CAAGCGGAGCACAGAAGTGA	2050	GCATAGCTCTTTGTAGAACTTGACCCTTA	3250
851	AGCCTGGAGAACAAAAGGTGAAA	851	GCAAGATCCCAACCTCCAGGAGAA	2051	CCACAGTGAAGCCTGGAGAAC	3251
852	CGAGGCAATTTCCCTGCAA	852	GGAGACATCTCGCTGAACCTA	2052	GGACATGGGCGAGGCAATTT	3252
853	GAGGTGACATGCTGTTGTCT	853	GGCCTGAGCTAAGCTTTTCTTGTCTA	2053	ATCCCAGGGAGGAGAGGTGACAT	3253
854	GCCCTTCTAGTGAATGTTTGGGTTCA	854	GCCAGCATTCTGCTGCTT	2054	CGTGGCCCTTCTAGTGAATGT	3254
855	CCAACAATCTCTGTGCTCTACT	855	ACAGTGGTGCCCAAGTGTGA	2055	CTGCAATTTCCCAACAATCTCTGT	3255
856	CCCTGCCTAAAGGTCTCCAAAAC	856	GCAGAATAAACAGGTCTTGTGTCA	2056	GGCTGTCTCCTGCCTTAA	3256
857	TGAGGGCTATCTCGACCTTT	857	CCCAATCAGCCCCAGCAATTTG	2057	GCTGTGGGGTTTGAAGGCTAT	3257
858	GTGGTAGCTACTGAATCAGCCCTAT	858	TCGCTCTCTCTCCACCTCTGT	2058	CCCTGAGAGTGGTAGCTACTGAA	3258
859	TCCAGGTGAAAGCAGGTCAAG	859	GTGTGTGGCAAGGTGTGTCT	2059	GCCAGATCAAATCATTCCAGGTGAA	3259
860	GCAGATAAAGCAAAAGGGTGACTT	860	AGGTGGGATTGGAGGTTGGAA	2060	CACAGAAGGGCAGATAAAGCAAAA	3260
861	TCCAGGTCACTGCCTCATAGAT	861	CAGGCAGAGAGGAAGCCAAA	2061	GCCATGTGGATTTCAGAGTCACT	3261
862	TGTGGGAGGAGAGTCAACCAT	862	CCTGCTCCCCAACAGTGA	2062	CGCTGTAGCTGAAGCACTGTCTA	3262
863	AGGGCCTAGCGGTCAACATT	863	TCCCTTAAACAAGTCAACCACTTC	2063	CTGCTGATTCAAGACCACAGAA	3263

864	GGGCAACAGAAAGTAACATCCATTAG	864	CCCCTCAGCCTGTATGTCTCT	2064	AGCACAGGGCAACAGAAGTAAC	3264
865	TCTGCTACAGTCTTTGCGTTCA	865	CCCTTCCTAAGTGCCAGAGAAAC	2065	GGGCCCAACATCTAGTTCTGTCTACA	3265
866	TGACCTTTTCAGCTTCCGTTGT	866	AACCTCACTGTTGCGTGAGT	2066	GAGAAAGCAGGTAAGTACCTTTTCA	3266
867	TGGAGGACCAAGCCCTCAT	867	CCCTGCTCCCAAACTCTTTA	2067	CCAGTCTCCATCTGGAGGACCAA	3267
868	GTGACACCTCTGCCTTTGCATGT	868	CAGAGTAGGATTAGCCACTTCAGTAAG	2068	GGCAAGCCCATCATAGATTTTAGTGACA	3268
869	TCTGGGATTTGAGCATGGAACCT	869	GCTCGGAGACTCTGCCTCTCTAT	2069	CCCCACCTCTTTCTGGGATTTG	3269
870	GACCGTCTACTAACAGCACCAAGT	870	CCTCAATGCAGGGGCGAGTCTAT	2070	AGTGGCTGAACAGACCGTCTAC	3270
871	GGTGTAAGACTAGGCTCCCTCTA	871	AAAATTGTAGCCCCACCATGT	2071	CAGCCTAGTGAGGGGTGAAGACTA	3271
872	GGGGCGTAGTGAATCTCCAATG	872	GGGAGTTTACCCTAAGATGTTTTT	2072	GGGTGTGGGGCGTAGTGAA	3272
873	ACCACCACACTCCCTTCTCT	873	GCCTGAGGTCCATGACTTTGT	2073	GCAGAGGCACCCACCACT	3273
874	GAGAGGTCAAAGACAGGAGACTGAATC	874	AGGCCCATCTGTACATGGAT	2074	CCTGCATACGGAGAGGTCAAAG	3274
875	GGCATAGGTGACATGCCATCAGA	875	GCGGTAGGCTGCCTGAACA	2075	GCGCCATCTTTTGAGGCATAG	3275
876	CAGACAATGGAAGTACGCCTGCAT	876	TGGGTTCCCGAGGCTCTGT	2076	GGAAGTTCTGACAGACAATGGAAGT	3276
877	CGCCTGAGCTTAGACTTCACCTACA	877	CATAGCACTGGGATCAAGAAAGACT	2077	CATCTTCCACGCCTGAGCTT	3277
878	TCCCACCTGGAGCCCAAAAT	878	GTCTGTCTCACTCAAAGCACAAAG	2078	GCTCATGGGCGAGGTTCACTT	3278
879	CTGTCCAGACTTGTCCCAAGA	879	AGGGACCCTAGAGGACAGGAAA	2079	GCAGAAGCACTGTCCAGACT	3279
880	AGGAGACAGTGCAAGCTTTTGT	880	CTGCTGTTGGACCCTAAACACT	2080	CCTTCTATCAGTAGCAAGGAGACAGT	3280
881	TGGACTCACTGTTCTCCAAGTGA	881	TCAGGCTTTCTGTCCCTCTT	2081	AGCGGGTTGGACTCACTGTT	3281
882	GCCTGGTGGAATGCACATTTTG	882	TTGGATATTGTTGTACCCCTACA	2082	GGCTAACTGAGCCCTGGTGAATG	3282
883	TGGCATCGAGGATGGCATGA	883	GGCCACCTCGTCACTATG	2083	CTGGAGACGTACATGCCAGTCA	3283
884	TCCTGTTTGTATGGGAACCAAGT	884	GCTTACAACGCAACTTCACACA	2084	CCGCCATCTCTCTGTTTGT	3284
885	GCATCCAGCCCAAAATCCTCACT	885	CCCACCTGAGCCTTCACCTC	2085	GGGGAACAGCTGGAAAGCAT	3285
886	TCCTCCCTGAGACCACAGCTT	886	TTGGTGGCGCCCATGAGTCT	2086	AGTCTGGCCTGTGGTGTCTGT	3286
887	CCATACCCATTTACCCCTACTTG	887	TTGAAAGCCTCGTGCCATTG	2087	AGGGACCCCATCACCCATTAC	3287
888	ACTGCTGTGAGGCTTGCTT	888	TTTAGGTGGGATGTGAATGTGTCA	2088	GGAATAACAATAGACATAAACTGGCTGTCA	3288
889	GCACGAGATGAACTAAGACACCATT	889	CACATAAGGGAACAAGCGCACAA	2089	TGTTTTAGCAGCAGAGATGAAGT	3289
890	GAGGGAATGGTACCTGGATTAGCAA	890	CCTCAACCTAGACTGGATGTCA	2090	AGGCAAATGGCAGGAGGGAATG	3290
891	TGCCACTTCACCCATACTGAATTT	891	GACTTGGTCTGGGTTTTGAGA	2091	GAGATTACAGGAGCATGCCACTTC	3291
892	CACACTGCCACCTGCTTGAGTA	892	TGACTGCTGACACGGGAGGAAT	2092	TGCTTTCGAGAAAAGCCACACT	3292
893	TGATGAGTGGAAGCCCATGTTG	893	TGGTGGCGAGGGTAGAAGAT	2093	GCAGCGGTATAGACAGATCCAA	3293
894	TGCTCATCATGGCTATGCTTTCT	894	ACTCACAGTAATCCAGGGGAAAAAG	2094	GCACTGCCTCTGCCTCAAAA	3294
895	GCTGATCCAGAGATGGACACAA	895	CTGCAAAAATACCAGGGAGGAAGT	2095	TACCACCAGGGCTGATCCAGAGA	3295
896	GCAGTGCTGTCTATGCCAATG	896	ACTCTCACACCTTAGGCCTTT	2096	GTGGTCTGCAGTCCATCTTGA	3296
897	GCCAGATGTGGAGTTAACAAGTCA	897	ACCGCGCCCCATCACTTACT	2097	GTCCATCAGCCAGATGTGGAGTT	3297
898	TGACTTAACAGGTGACCTAGACACA	898	CTGACCCTGGGCAAATGACTCT	2098	GGGTCTGTCGCTGACTTAACA	3298
899	CCTTGGAGGCCAGCAACAA	899	CGCCACGGAATGCTGTT	2099	AGAGGTCAGGGGTGAAGCACTA	3299
900	GAGGCACTGATTCAATCAACAGGATT	900	TTGGCTTTGTATCTCCAGCAACT	2100	GGAAAAAGTGGAGGCACTGATTCATT	3300
901	CCCATGGGTAACTGCTGTAAGTA	901	CATCGCTACCGGTTATGTTTTT	2101	AGAGAATAGTACCTCCATGGGTAAA	3301
902	CAGGCTCAAAAACGGAAGAAG	902	AGAGGCAAAATCCGCACCTAA	2102	GCAGAGCCAGGCTCAAAAC	3302
903	GGGGAGAAGTGTCAACAGATTCA	903	CCCTGCCCTTCTCACTACAAA	2103	TGAGTCTGCCGCTTCA	3303
904	GCGGGTTAGGAAGATTCCCTGAAG	904	CATGCATGACCTGCTCACTTT	2104	GTGGGAAGCGGTTAGGAAGAT	3304
905	CTTCTCACCCGTCCTTAATAACA	905	GGCCTGCCTTAAGTTCTGCTAAAAG	2105	GGAGCCAGACTTCTTGTCCTT	3305
906	GGTGCTTTCTTTCCACCGAAGT	906	GGAGTTCTGCACTTGATGATGTC	2106	GCGTTGTGGTGCCTTCTTTT	3306
907	GGGAGGAACAGTGATCTGAGCAT	907	GCGTCCAAGGCTGGGTAAAGA	2107	AATTTTCAGAGGAAAGGGAGAACAA	3307
908	GAGAATTAACACAGGGCTTTGAGGGATT	908	GGCAGCCTGGGTATGCTTG	2108	GCACCACATAGGTGACAGCAA	3308
909	CACCGAGCACTCGGGTGAATAA	909	TCAACTTGATTGTCTCCACACTGTA	2109	AGTGACAGTCCGCCGTAA	3309
910	TTGATGGCTCCCATGTAAGTTTGA	910	GGCCGGCCATCCAGTATAATTT	2110	TCCTCAGGTTGTTAGGCATTTTGA	3310
911	CGAAGAAGCAAGACCCGAGTAAC	911	GTGCGGGGCTTGAAGGAT	2111	GGCACTGGGGAAGACGAAGAA	3311
912	CTCTGGGGAATGCCTAACAATGA	912	TTGTTCTATCGATTACCCACCAAA	2112	TCCTGCTTGCTCTGGGGAAT	3312
913	CAGCAATGAGGCCAGCGTAGTT	913	CTAGTACCACCTTCTCTTGCTCATT	2113	ACCCTGGTGGGATCCAGAAA	3313
914	CCCTATCCAGAAAGAAAAGCCAAGTGA	914	CTGCCAGACCACCAATCTCA	2114	CGAGCCCCTATCCAGAAAGAAA	3314
915	CCTTCTGCAAGTCAAGGACTCA	915	CCAGGCAGGACGCAACTCA	2115	GCTCAAATCACCTTCTGCAAGT	3315
916	GCCGTAGGTAGTTCCATGCTAA	916	TGGTATAGCCACTCTGGCATTTT	2116	GGTACTTTTACTTTTGCCGTAGGTAGT	3316
917	CATCTCTTGCCGTGTGTGACT	917	GGAGGAGTGCCTGCAGAAGTATCA	2117	GGGCTGTTACCTCATCTCTTG	3317
918	CAAGTAGCGTTATCCAGGAA	918	GCCTCTGTTTTCTCGGGCTAAG	2118	CATCATGCCAAAGTAGCGTTCA	3318
919	GGCCCTGAAATTGGAAGCAAAT	919	CCATCTACCCCTGTGCCAGAAA	2119	GGGATTTTGTAGCCCCGTGAAATTG	3319
920	GCCACAGGTGCGCTTCTGAAC	920	GCCACGCTTGGCCTTGT	2120	ACACCGGCGACTTCTCAAT	3320
921	GGCAACACTCTGTACAACCTCCTTACT	921	TCCGCTTCCACAACCAAGAAC	2121	TGGCTCAGGCAACACTCTGTA	3321
922	AGGCCCTTCAAGAAAGTTGAAACA	922	CCACTTTGCCAAATTCCTTTTCATC	2122	CTCAGGGCTAAAGTAACTCCTTGGAAAG	3322
923	CCCCTGTAGCCAAGAGACTGAAG	923	ACGAGGACCCGCGATGTCT	2123	AGTCTGCAGAGACCCGTGTA	3323
924	TGTGTGGTACAGGCCGATCT	924	GCGCCAGAGACTCACTCAGAA	2124	TGCTGGGTAGGTGTGTGGTACA	3324
925	GCTCTCAAGGACTTTGCACTCT	925	ACCCACCAACACCACATTGAT	2125	AACACAGGCCTGGCTCTCAA	3325

926	GAGGGAGGTGCTTTGCTGTCAA	926	TCCCTTGAGCCTCTCTGTCTT	2126	GGAAAGGGAGGGAGGTGCTT	3326
927	GGCTCTGTGAGGATGGAGAGAT	927	GGGGACAGTGGGAGGATGTCA	2127	GCTCTCTGGCTCTGTGAGGAT	3327
928	GCCAGGGGAAGTGGTGTAAAG	928	ACTGGCTAGCTCCCAGTGATG	2128	ACAACCTAGTGCCAGGGGAAGT	3328
929	GTAGACTCCACACCTTCTACCTT	929	CGCCACCTGGACAGGAAACA	2129	ACAAGCCCCACAGGGTAGACT	3329
930	TCTCTGGAAATGTGAACAGGATTG	930	AGCAATCTCAGGCCAGGAAAG	2130	GAACCAAGTTTCTTTCTCTGGAA	3330
931	CTCGCTGCATCTGAGTGAGT	931	GCCTCTGTTACCTTTCTCCATT	2131	GGAAGCCACTCGCTGCAT	3331
932	TCGGATGCTTCTGGGCAAAG	932	AGCTGCTGGGAGTGGGAAA	2132	TGGGTGCCTCGGATGCTT	3332
933	CAACCGCTCAGGCTGTGAA	933	GCCAGTGAAAGGGCAAACCT	2133	GCTCATTAAATGCACGCAGACACA	3333
934	GATGATAAGCCTGTCCCTGAGATG	934	GGTCCGTGCAGACTGGACAAT	2134	GGTGGTACAGAATACAATGGCTGTGATG	3334
935	CAGGAGGGAGAAAGCTTTGGAAGA	935	TCCATCACATGCTGGTGAATGT	2135	TCTGGTAGCAGGAGGGAGAAAG	3335
936	CATCCGTCTCTCACTAGCTGTAAAT	936	TCTATGCTCAGGGCCCTAACACT	2136	GGATGTGTTTCATCCGTCTCTTCACTA	3336
937	GTCCCTCTGCTTCTGCCATA	937	CACCTTCCCACGTTGCCTAT	2137	AGACATGGGTCCCTCTGCTT	3337
938	GCTGTACTCTGGGTGACATTC	938	TGAGCTACCCATCAGGGTATTTTT	2138	CCTGGTACCTGATATGATGTTAGCTGTA	3338
939	AGCCCTCTGATTCCAGGTAAGA	939	CCATTGAGTTTCACTGGGGTACA	2139	GGTCCACCCATAGCCCTCTGA	3339
940	TCGATGGCAGAGACAAATGACA	940	GCCTCATCAACGACCCGATCA	2140	GGTAGGCATTTTTCGATGGCAGAGA	3340
941	CAGGGTCACACACTCGGGTATT	941	ACCAGGACCCCACTGGTT	2141	AGTAGAGGCAGGGTCACACA	3341
942	CTCCAGCAGACAGCATGCAAAC	942	AGGTCTCAGCCCTGACTGTT	2142	ACTAAGGAAGCCTCTTGGGTTCT	3342
943	GCACACCTGAAGGTCAAACGAACA	943	TGGTTTACCCTGAATCCACTCTGA	2143	CTCTTCCCTGAAGACAACCAACTT	3343
944	GTTGATGGTCGATTCCAGATGTA	944	ACCATATGACCGTCAGGCTTCT	2144	CCTTCCAGGTTGATGGTCGCATT	3344
945	TGTGGCCTGGCTCAGACATA	945	CCAGGGGTTGGCGTGAAAG	2145	CACTGCCCAGATGGCAGAAG	3345
946	TTGGCGGCACTGTCACTACT	946	CAAACCAAGTGCTGGTAGATTTCA	2146	CGTGGCTGCATCTGATCCTTTT	3346
947	CAAACTCTTTTGGGTGTTAAGTGT	947	CCTCCACTGCCCATCAGT	2147	TGTGAGAGGCCCTTGGGAAA	3347
948	TGCCCTGATGGATAGGTGGAT	948	GTAGCCAGGCATGCATTTTGA	2148	GGAAATGTTTGACTCATGCCCTGATG	3348
949	AGAGCTCCAGGCTCATCCCTAT	949	CCCAGCTGTCAAAGGACTTCA	2149	AGTCAGCCAGATGCCAGAA	3349
950	CAGAGTCCCTTGGATCTGTTCTCA	950	CTGTCCCGTGCGTTCCTCA	2150	AGCTCAGGACTGCGTTCCTC	3350
951	CTGGGGCAGGACCAGGAAA	951	GCCACCTCCCTCCCAGCTAA	2151	CCATGTACCCAGGAGAGGTGATGA	3351
952	CAGTGGAGCTTGCTGGTTGACT	952	GCATTTTGCTTTGATGCCTGAAATA	2152	TGTGTGCTGCAGTGGAGCTT	3352
953	GGGTACCTTCTCTCAAAGCAGCATCT	953	CCGCACAGTAGCACCTCTGTAAG	2153	GGCGTAACATAGGGTACCTTCTCT	3353
954	CATCCAGCACCATGGCATCT	954	GGCCTCCTCCTCTCCCAT	2154	GGGTCTGGGAGAGGGATAAATTCA	3354
955	TGGCAGAGACTGGCAGGAA	955	TCCCACCCTCGATCCCAT	2155	GTGGTAACTGCACGAGGACAAAG	3355
956	TTCTGAAAGGGTTGTACAGTTG	956	GAGGACATGGCCATCAGCAA	2156	GGAGCCTCTTGGTCTGTGT	3356
957	AGGGCCCTGCTGAACACTGAA	957	AGGCAGAGGGCGGTGCTT	2157	AAGACCTCTCGCAGGCCGATT	3357
958	CATCTCCAGACGGTGGTGTTC	958	CGTCTGCCCTCTCTGGGTTT	2158	AGTGAAGGCCCTCTCCTGAA	3358
959	CTTGCTTGGGACTGTCTCTCT	959	AGGTGACCATGTGACCACAGA	2159	CCTCGATTCACTCTGGGACATT	3359
960	ACTGGCAGACCCAGGATT	960	GGGTAGCTTATTGGGGTTCAGTTCT	2160	TCACTTTCCACCTCTCGAGGAA	3360
961	CAGGACTTCTGAAACCCACTGT	961	GCGGTATTGACAGGCACAATCT	2161	AGGTGAAGCAGAGCAGGACTTC	3361
962	CATCCCTGCGCTAACTTAAG	962	AAGCAGGCAGGAAGGAGACA	2162	GCCTCCTCATCTCATGGGTTTCA	3362
963	TGCACATGGCGGCTAAACA	963	TGGACCACTCTCACAGCAGAT	2163	AACCCCTTTGGTCTTGACAT	3363
964	GGAGTTTCGATGGTACCTCCCTTA	964	CAGGCCAATGGACAGTGGAAGCTA	2164	GCTGCTATGGGTATCAGGGAGTTT	3364
965	AGCCATGCCGATTGCTCTT	965	GGTGGCGAAGGGGTAGTGAAA	2165	GCAGGAGCAGGTTTAGCTGACA	3365
966	TTGGTCTTCAGTCCGGAGGTT	966	ACTTCCCGGCTGCTGCTTCT	2166	CTCACACTTGGGCACTGCTT	3366
967	GGCTTTTGTGGGAAGCACAGAA	967	GCTAGGAACCTTCCAGGCATTTTA	2167	GCTCCCACTGATGGGCTTTT	3367
968	TTGAGTCGTGGGGCTCTCT	968	GTTCTGACTTTCTAGTAACCAAGGATT	2168	CCTCTGTCTACACAGTGAACAGCATTG	3368
969	TGTGGATGGCCAGGATGTGT	969	TCCACAGCCGTGCATCTGA	2169	AGCACCCCTGAGCATGTGGAT	3369
970	CCATGACAGACCCAGCATCT	970	GTGATGCCAAGTGGGCCATGTA	2170	CGATGCAGGCCATGACAGACA	3370
971	CCTGCCTCAAACAGAGGAACTCTA	971	GCTGAAAGCTTTGCTGGCTTCT	2171	ATAATCAGCCTGCCTCAAACAGA	3371
972	CACTGAGCAATCATGGCATTTGT	972	CAATGGGTAAGTGGCAAGGGAATTAT	2172	GCTGCCAAGAGAAATGGGACACT	3372
973	TCCATCCCTGTCCAGCTCCTA	973	CCCGGCCTCCTTATAATGGAAGAA	2173	GCCATCTCAAACCTCGGCCAATG	3373
974	GGAACAGCAGCCTAAGTCATGT	974	GCCAGTTCTGGCGATGGCTAA	2174	GCAGCTTGCATGCTTTGGAACA	3374
975	GTAAGAAGGAGGGCTCGGAATC	975	TTCCCTACCCCTTCCCAGAAC	2175	GTGAATGGAAGGTGCATGTAAGAAG	3375
976	TGCTGGGTCTTGCCCAACAT	976	GGAAGAAAGCCCTCTCGAGACAA	2176	GGGGAGAAACATAATGCTGGGTCTT	3376
977	GCCTGGAGATCAAGCTGCAAA	977	GAACTAGCCACCTTGATGTCATCTGT	2177	GACAGACCAAGCCTGGAGATCA	3377
978	CACCAAGGTAGGTATCCAATACTGT	978	TGCCCAACAGTGAGACTAAAC	2178	GCTTCACTAACACAGGGTAGGTATC	3378
979	GCAACTGAATGCACGTGTGTGA	979	GCAGGTGCTAAGTGTCTGCTT	2179	GCTGGAAGTGGGATTTAGCAA	3379
980	GGACCTTAGAGCAATGACCTTCA	980	GAGTTCTTTCCCTCCAGTTTCTTG	2180	GTCCATAACAGGACCTTAGAGCAA	3380
981	GGAGTAGGTGGAAACAACTGCTTCT	981	GCCAGCTGAGGACTCTCCTT	2181	GCTCTTGGGAGTAGGTGGAAC	3381
982	GAAAGCAGTCAGCAGTGCTCAGA	982	CAGTGCCAGTGGAATCCAGAT	2182	GGTTTTGGGACCTAGAAGCAGTCA	3382
983	GCAGTCTCTCTCTCCAGCAA	983	CTCAGCCTCCCTGAGAACAAAC	2183	GGGATAGCAGGTCTCTGTTCCAA	3383
984	GAGCTCTACCAACTCTTGGCTCTA	984	GCCATGCCCTTCCAACTT	2184	CTCTTCTGGAGCTCTACCAACT	3384
985	CCCTGAAGAGCTGAATCAGACACA	985	ACAGACTGCGTGTCTGCAA	2185	CCCTTTTCCCTGAAGAGCTGAA	3385
986	AGGAAGGTGTAGGAACTGCAAATAC	986	GATTACGAACGTAGGGCACAAAC	2186	GGAAGGTGAGGAAGGTGTAGGAA	3386
987	CCTCAACATACGGGCTACCAAA	987	CCCAGGGGTTCTGAGTGAAAA	2187	GCAAAACTCCGGGATCCTCAAC	3387

988	GGCAAGGAGTTCTGGGAGCTT	988	GCCCATCCCCAGGAGTTAGGAT	2188	TTCCCTCCCAGGCAAGGAGTT	3388
989	GGTGGAGGGTTTGGTGCTATG	989	AAC TTCCTCAAACCTTCCACTCCAT	2189	TGCCCAGGTGGAGGGTTT	3389
990	CAAAGCAAAGAACCTCTACCCATGA	990	GGCTTTGAGAGCAGGGTTGAA	2190	AATCAGCCCCAAAGCAAAGAAC	3390
991	GCCAAACAGCTCTGCACTGA	991	CCACGTTGGGATGTGAGGTT	2191	CCAAAGTCGGGAGAAGCCAAA	3391
992	GCAGCCCAAGATGCACCTGAAAG	992	CTGGAGCCAGGAAGCCAAAGAA	2192	CCTCAACACAGCAGCCAAAG	3392
993	GGGAAGGAGCTCTCGACCTA	993	GGATGTCTGCTGTTGCCTCTTC	2193	CCCACTTCGGTACAAGTCAGACA	3393
994	CTCCCAAGTCACCTGCGTTTGT	994	TCCAGAGGGCTCCACCCAAA	2194	GCCAGTGTCACTCCCAAGTCA	3394
995	GCCGTACAACCTGACGCCAAA	995	CTCGGTCTCTCTGTAACCTACTT	2195	GGGTAGACAGCAGCCGTACA	3395
996	GCTCTCTCTCCAGCTCAATTT	996	ACGACCCACTTCTCTCTCTGT	2196	CCCCCTCTCTGCAGGGTTCTA	3396
997	CTCGGGTGCTTGGAATTGTGT	997	CCAAGATGCTCATCAAGAATGGAA	2197	AGGGTCAGTTGGGAGTAGAACA	3397
998	TGGTTCCTCCGCTCCATTCTCT	998	TGAAAAACCGCTGGGGAGCAAA	2198	TGTTCCACCTCTTTATCCTCCTT	3398
999	CTGTGTGTCTGGCTGCTGACAT	999	GAGAGGGCCAAAGATGGGAACAT	2199	TCAGCGGGCTGTGTGTCT	3399
1000	GTTAGCGTGGGTGGCTCTGAAT	1000	CCCCAACACACTGCACAGAA	2200	GGAGGGCTGCAGCTGAACT	3400
1001	GGGCACCTCTGAGTGCTTGA	1001	CTGCTCTGCTCAATCCATACCATTTT	2201	ACAGCCACAGGGCACTTCT	3401
1002	CTCTCTGTTCCCAACCCACTA	1002	CAAGGGCAAGCCAGTGTCT	2202	GCAGAAGCTTAGGACGGCATTTC	3402
1003	GTCTGAGGAGATAAACCCACACT	1003	CGGGGAGGCCATCACTGTT	2203	GCCTTTCCACCTTTGTCTGAGGAGAT	3403
1004	GGAATGCATGGGCATAAATTCTGTCTT	1004	GCCCATGGTCACTAGCTCAAA	2204	GGGCAGGAATGCATGGGCATAA	3404
1005	GCAAGGAGCCTATTGTTACTAAGAGAGA	1005	GCTCCCAGATGTTTCGGATCAA	2205	AAAAGTCAAGGAGCCTATTGTTAC	3405
1006	GGGTGTGTGGCAAATGGAAGT	1006	TCCCCAGGTGTCTGTGGAAA	2206	GCAAACAGCTGGGCAAGAGA	3406
1007	CAGGAGCAGGAGGAGGTAGAATTAATGA	1007	GTTCAAGCCCAACCTGGAAAGT	2207	TCCAGGAGCAGGAGGAGGTA	3407
1008	GGCCCCAGTGATGTTTTAGGTTC	1008	GATTTTTCAAGGACCTACTGGACACT	2208	TGAATGGCCCCAGTGATGTT	3408
1009	TGATTTTTTCCATCGTGATGGTGTTG	1009	CCCAAGGCAGTGGTATTTCCTTCA	2209	GAGGCTCAGAAAGATGCAGTAT	3409
1010	GGGAGAGCAGTCACTTGGAAGA	1010	AGGGTGGTGGCCTACAGGATT	2210	AAGGTGTGGGAGAGCAGTCA	3410
1011	CGTGGCTAGGGTTGTAAGTGTCTT	1011	TACAACGCGCCAGGTGTAAC	2211	GCCTTCGTGGCTAGGGTTGT	3411
1012	CCATGCGTGCAGGGGAGAAATTA	1012	ACAGCGGCTCCTTCTCTTTT	2212	GGACGGATGCACCAACCTGTAT	3412
1013	TGTGCTCAGTAAGTCTGTTTGA	1013	TTCATGTTGAATGCATGTAG	2213	CCAATCAGCCATTTGGTGAATAGTT	3413
1014	TGGTGAAGGCCCTGACTCGAT	1014	ACCTCAGGATGCTGCCATTTG	2214	CACAAAAGCGCCTCTGGTGAAG	3414
1015	GGGTCCCTCTCTAGGCCACTTTT	1015	CAGCAGTGGTGGGCAAG	2215	TAACGCTGTGGCGGACTCA	3415
1016	GGACCTTAGATTCGGGAGAAAATCACT	1016	GAGCCACCTGAAACCAACAAAG	2216	TTTCTACCTGTGCTATTGGACCTT	3416
1017	CTGACCATCTAGCTGCAAGT	1017	GCCCTTGGCGGCTCTACATTA	2217	ACCATGACACTTTTCTGACCCT	3417
1018	GGCAGGCAGGGTGTGGATTTT	1018	TGAGGCAGGCATTGGACATT	2218	GCATCTCCACTCCAAGTTCTCT	3418
1019	CTGTGCCAGTGACGAAAGACA	1019	TCTTGCTTTGCCTAACAGGGTATT	2219	GTTAGAAAACCTCTGTGCCAGTGA	3419
1020	GATGTGAAGGTGCAATGAAGTTACA	1020	GCAATTTTGGCCCCACTGAACACT	2220	ACGTATATTTTGGTGGGGTTGATGT	3420
1021	CCCCAGTTTGGTGCTTCTCA	1021	GGTGCCAAGCTGAGAAGGTACTTG	2221	CCCGGAGTGTTCCTCCAGTTT	3421
1022	GGACAGGAAGCAGCTCTCACA	1022	GCAGAAGAGCCTCACACACT	2222	AGGCTAGTCCCAGGACAGGAA	3422
1023	CGGCTCCTGAACTGGAAGGAGAT	1023	GGAATAGGCTGGCTGTAACCTT	2223	AGTGCTACCGGCTCCTGAACT	3423
1024	ACTCACGGCCCTGAAGCAAA	1024	AATCTCCTGGTCCCACCCCTACT	2224	GGGCCACTGTGATTGCAGACTT	3424
1025	CAGGAGCACCAAGACTGGTAGATG	1025	TGGCACCCCTGGCTCTCTCT	2225	CCCAGGCAGCTGGTCTCTA	3425
1026	CCCTCCAAGTGTCAACCAAGCAA	1026	AGCTCAGCCAGTGTCTTGATT	2226	AACTGATGGCCCTCCCAAGT	3426
1027	CAGTGCCATGTCAAGTTTACCATTG	1027	AAGGGGCGGCAACATTCA	2227	TGCCCAACAGTGCCATGT	3427
1028	AAGGACTGGACCCACCCACTGA	1028	ATGTACTGTGCCCGGCACTT	2228	AGGATGGCGAGGGCTGGAA	3428
1029	CAGAGAAAAGCCCCACTCGTTAC	1029	GCCACTGACAAATTGCCGAGTTT	2229	TGTTTCCAGCTACTACAGAGA	3429
1030	CACATCTGCCTGATGCCTGCTA	1030	GGGTAGACATGGTGACGTGGAT	2230	GGAGCCTGGTTTTCCATGCCATT	3430
1031	GGGTTATGGTGGGCAGCAA	1031	CCTCAGCAGTGCCACAAATG	2231	CAGAAGAAAACATGCAGGGGTATG	3431
1032	ACAGAGAAAATGACCTCCAGGAA	1032	GCTCATGGGGCTGAAGATAGACA	2232	CCAGCTACCAAACTCATTTACAGAGA	3432
1033	CTGGTGCCCTGGTTATAGGAAGAA	1033	AGGTCTGTGGCCTAGCATGT	2233	TGACTTCTGGTGCCTGGTT	3433
1034	CTTTACGCTTATGGCATTGGATT	1034	ACCCTGGTCATTGTGGAAAAG	2234	TGCAGGGGACCAACCTTTCA	3434
1035	CAGAGGCAGTTTGGACCTACA	1035	CCAACATCCCAGCCAAATCAAG	2235	TGCCTAAGCAGAGGCACTTTG	3435
1036	AGCAAAAATAGCCTCTGGGACAA	1036	GGTGACGGTGTCTTCACTTCA	2236	TCCAATGTCAGTTGGGGTAACATAA	3436
1037	GCATTTGGAGGGCTAGGGACAA	1037	GGTATCAGACAGCCCTGCATCT	2237	GTCCATTTCCACTTATTCAGCAATTTG	3437
1038	GCAAGGGCAGGTAGGGAGAAAAT	1038	AGTCGCGTCTGGTAGAGCAT	2238	CCATTGAGAGCAAGGGCAGGTA	3438
1039	CCTCCAGTGGAGTCTGTGTTTC	1039	TGCTGCCGTGGCTCTCACA	2239	TGACATGTGTGTTATGAGGGAGAA	3439
1040	GCTGTCAAGCCACAGATG	1040	ACCCTCATCAGCACTCCACTA	2240	TTCGGTGGGAGGGCTGTCA	3440
1041	GAGGACGCATATGGACCCGAAT	1041	TGTTTACGCTCTCAACGTGAT	2241	CCTGATTCCTTGCTCTCATCCATAG	3441
1042	GTCTAGAAGCTGTATCCCAGAGTCA	1042	ATCTCCAGAGCTCGGCAATG	2242	TGCTGCTTATTGTCTAGAAGCTGTATC	3442
1043	GCTTTCGCTAAGGGAGCATCT	1043	GCAGGGAAGAGGGCAGATTGA	2243	ACATCCCTGCCTCCCAAGT	3443
1044	CACGGTCACAATGTTTGTGCAT	1044	AGCGTGTGCAGGGTAATGAA	2244	TGCTCCTGCACGGTCACAAT	3444
1045	GCCCTTGGCTACATTGAGGTTGT	1045	GTTCTCACTGCGTGGTGACTA	2245	GTGATCATTTGCCCTTGGCTACA	3445
1046	GGATTGGGGTGTTCAGAGCAAGA	1046	ACTGCTGATTTTTCTCAGACCAT	2246	CTGACAATGATTATGGATTGGGGTGT	3446
1047	AGGAGCGTGCCTGAATGTGT	1047	AATCCGGTTCACCTCCAT	2247	CCCTAGAGGTTTCATGGGTACAGACA	3447
1048	GGCACTGAGGGACTGGAACCT	1048	GGGAGGTGGTGGAGTCAGAATCA	2248	ACAATGGAGCCGGCACTGA	3448
1049	GAGACTTTGAGGCAGACTGTCA	1049	ACACACAGCTAAAAGAAAGCAGTTG	2249	GCTTGTGGGTTTACTGAAGAGACTTT	3449

1050	CTGGAAGTCAGGAAAGTACAGTTCTA	1050	ACCTTTGTGCTCTGCTGAATCT	2250	GGCCTTGGAAAGTCAGGAAAG	3450
1051	GGTTGTCTCGTTTCGCAGAGTT	1051	GACTGGCTGGCACCAGATT	2251	CCAGCCTTGGTTGTCTGGTT	3451
1052	GCCTGATGGGAGAAATCAGAAACT	1052	CCTTCTACAGACATTGCAGGTCATC	2252	GGAAGGTAATACAGCCTGATGGGAGAA	3452
1053	GGCAAAATCAAAGCCTGCCTTTTC	1053	GGCAATGATTTTAGCTACGGTGTA	2253	GCAAGCAGTGTCTGGCAATC	3453
1054	AGTGTGGGCCCTACCTGTGATT	1054	AACCCACAGGGTCCCCAACA	2254	CCAACTGCTTCCTGCTGACTGT	3454
1055	TTTTGCCGCTGCCCTGAT	1055	CAGTCCAGGGGAGAAACTGA	2255	GGTACTAATGCCGCTGATGCTT	3455
1056	GGACTGTGTGGGTGCAATAAC	1056	GTCTATGCCAGTTGCTAGAGGAAAC	2256	GTGGTTTAAAGTGGGACTGTGTTG	3456
1057	ACCCGATGCCCCATGACT	1057	GGGGACCATCAGTGCCATCT	2257	TGAGGGAGGGTCGGCACCTAAA	3457
1058	CCCAGTGAAGCCCCACCTTTAG	1058	CCGCCAGGCTTCAGACCTT	2258	GGAGCAGGTCCCCAGTGAA	3458
1059	GTGGCAGACAAGGACAGTGAGT	1059	TGGGCTCCCCCTGAACAA	2259	AGTGCTGAGGGTGGCAGACA	3459
1060	CCATGGCAACTCCATGCTTCAA	1060	GAGGAGTCAAGGAATCGAGGATGA	2260	GTTCTCAAATCAATCCATGGCAACT	3460
1061	GCTTCCAGGATACCCACCCATTA	1061	GGTAATGTGTAGACCCACAGTTCA	2261	CCTTCTCCAGCTTCCAGGATAC	3461
1062	GCTGTCTCGGTCTCGTTAGT	1062	TGAACCCACAGCCCCATCTCA	2262	AGGCGATGGCAGCTGTCT	3462
1063	GAGCCGATTTTATATCCATGCCTGTAG	1063	ACCTCGCGCAAGATCTCAGT	2263	CAACATCCAACAGAGCCGATTTT	3463
1064	CCCAAGAACGAGCCATGGAAAG	1064	TGCTGGGTCCCTGGATGGAT	2264	ACACAAGGGGCACCCAGAAA	3464
1065	AGGTGCGCCAGAGTGCTGTGA	1065	ACTCTCCACAGGCATGCAGAT	2265	GCTTCAGGGGAGATAAGGAAATCAAGA	3465
1066	CCAAACCAATTGCAGCTGTGTAAAC	1066	TCTGAGAGAGGCTGGCTACCTT	2266	GCAATCACCCAGACCAAAACCAAT	3466
1067	GCTGCCCTCTTGAGCTCCTGATTT	1067	AGCCTGAGGACTTGGCAGTCA	2267	CAAGGGGCTGCCCTTTTGA	3467
1068	CAGCCTAGAGGCAGCAAACTGT	1068	TCGGGCAACTGCTCCTCTGT	2268	TGCCCCATTTCCCTCAGAGT	3468
1069	GCAAGTGTGAGGTCCCTCTAGTCA	1069	GGGACAACCTTTGGGGCTTGA	2269	TTGTGAGGAGAAGGCAAGTGTC	3469
1070	AGCCAACTGAGCCAGGAACA	1070	GGCCAAGCTTTAGCCTTTT	2270	GCCTGTGCCATCAGCCAAT	3470
1071	CTGTGATGCTTGGGTTAATTCTTG	1071	CTGGATGAGAATGGTTGGCTAAT	2271	AACCAGATACACCTGCTGCTT	3471
1072	AAGGGGAGCTGTGTGCTCTT	1072	AGCGAGCCCTGCAGCAAGA	2272	ATGCCGGGGAAAGCCAGAA	3472
1073	CCAATCCTACGACGGGACCAAA	1073	CAGAGCAGGGCTGTCTTGTCT	2273	CCATCTGTGCTGGCCAATCCTA	3473
1074	TGCTGATTGCCTGTGTTGCTA	1074	CAGGAAATCCAGGGGACAGAAGAA	2274	TCCCCACCATCCGAGACTTTG	3474
1075	GGGACACTGACCTGCACCAAAA	1075	GGCCAAACACATCAGGGAGCAA	2275	TGTGCCCTGGGACACTGA	3475
1076	GGACCTTCTAAGCCACTGATCTCT	1076	TGGGGTCTGGGAGAGGAA	2276	GCTGGGTCTGGACCTTCTAA	3476
1077	CTAACCCAGCTCAACCTCTTG	1077	GGGTGGCAACCTCAGATT	2277	GGTGTGCTGGACCGAGATTCTAAC	3477
1078	GTGACACAGGCTGCTTCTCATC	1078	CTTGTGTCAGATTTACCTGTGT	2278	TGCACGCACTCTCCCTTATG	3478
1079	TTGGTGTAGGGAGCAGGAGAT	1079	GCTTGTGCTCCTGGGTGTCA	2279	GGAATGCTGCCACTTGGTGATG	3479
1080	CCTCTTACACCACTGTTCCACTAAG	1080	AAGGCGAGGTCACTGAGTAAG	2280	ACACCCACCATCTCTCCTT	3480
1081	GAAGCATTTGCGGTGAGAGAGA	1081	CCAGAAGAGGTGTGGCTGAAAG	2281	TGCCCCAGGCCAGAAAGCAT	3481
1082	GGAAACCTGGTCCAAACCAAA	1082	CAGTAGAGCTGAGGCGCTGTT	2282	CCGACGGCAGAACGGGAAAC	3482
1083	AGGCACCTGTTTGCCGAATG	1083	GGATGGGAATGGGTAAGGCACAGA	2283	AGGGCACCAGAGGTGACA	3483
1084	GCTGTGAGAACAGCCTGAGTAT	1084	GGAGCTTTTACTGGGGTTCCT	2284	TGGCAGGTGCTGCTGTGAGA	3484
1085	GCGGTAGGATGTTAAAGGCAGCTT	1085	CCAAGTCCCTGGTCTGGAAGT	2285	TGTTCCCTGCGGTAGGATGT	3485
1086	GGTTCAATCTCAGGCTCACACT	1086	GGGCAGAGCAATAGCCGAAA	2286	GCCCTTGTGCTTTGGGGTTCAA	3486
1087	GCATGGATCTGCGTGGAGACA	1087	GGCCCCAGTGGTCTGAGATTGT	2287	TCCTTACTGCTCAGCATGGATCT	3487
1088	CAGAACTGGGTGGTGTGTTTTG	1088	CGAGAGCCTGAGCATGTACAAAT	2288	GGAAACCTCCTATAGTACGGCCAGAA	3488
1089	CAGACCACTTGAGAGCAGGTT	1089	GTTATCTTCTCAGTGTCTGTTCTTAG	2289	CACCAGCCATGGACAACAAGT	3489
1090	GCTACCAAGGGAGGTCTCTTCT	1090	GCTTCTGCCCAGTGTCTAAGAT	2290	GCCTCCTGGTATTCTGTGCTA	3490
1091	GAGGTGGGTAAACAGACCATCA	1091	GGCTCTGTAGGGCTTCTAGAATGTT	2291	CCGGGAAATCAGAGGTGGGTAAC	3491
1092	GGAAGCAAGCACATACTACCAT	1092	GGGTGTAGAGCAGGATGGGTGA	2292	GTCCATCAGGAAGCAAGCACAT	3492
1093	ACTGCGTAAGCGGTGGCATA	1093	GTCCCCGAAACCCACTGTATTC	2293	CCAGCAAGAGGAAACTGCGTAA	3493
1094	GGTATCAGCAGTGTGGGTTAAGGAT	1094	CCCAAACTGAGGTGGAGCTT	2294	GGGCAGTAGAAGGTATCAGCAGTGT	3494
1095	CTCGGAAGTCCCAGCAGATCTTTC	1095	GTGACCAGTGTAGCTGACAA	2295	GTGCCTTACTTCGGGAGCTTTC	3495
1096	GGTGAGGTTACACCCCTCCTTTC	1096	TTCCGGAGGTGATGCCAAGA	2296	TGCTGCGGGTGAGGTTCA	3496
1097	GTGACAGTATGGCTGTGGAA	1097	CAGCTCATCCGCCCACAGA	2297	CCCAATCCGAGCTGCAGTCAT	3497
1098	CCCCTGCTGTGGACCTTATATT	1098	AGGGAGCAGCGGACTGAA	2298	TCCTCCATCTAAGTCTGCTCAT	3498
1099	GGGCATTGCCACAATGGTTT	1099	GGCAGTGGGGTCCATTTGAAACA	2299	CTGCCTTGATAACTCTGGGCATTG	3499
1100	GTGGCAACAGGACAGGGATT	1100	TCTCCAGAAGCCTCGCCTTGA	2300	CTGGGGTACCCAGGGATGT	3500
1101	TCTAGGACCAGGAGCCATCAGA	1101	GCCGCATGTCTACTTCTCTT	2301	TGGGCCAGGGCTGTAATCTA	3501
1102	CGAGGGGTCTTTGAGGCAAACTT	1102	AGGCCGAGCAGCTTTAGTCT	2302	ACCGCCGAGGGGTCTTTGA	3502
1103	TCCCACCTCTCTTTCTTAGAGTAT	1103	TCAAGATGGAGCACAAACCAA	2303	TCCCTTCCCCACCTCTCTTTC	3503
1104	CCAGGAAAGCCACCAATGCAA	1104	GTGTTGAGCAGGCAACTGTGA	2304	CCGAAAGCTCTGCCAGGAAA	3504
1105	GGGCTGATATAATGGAGCAGCTTAG	1105	ACTCATCACCTTGGATGCTT	2305	GTGCCAATTTTGTGGGGCTGATA	3505
1106	GCCCTGTCTGACTGACATTCT	1106	TCAGCCAAGAAGGTATTTGTTGGAA	2306	CCTCTCCCAAGCACAGCAT	3506
1107	TCTTTGGCCACAGATTACTCTAC	1107	CAATGCAGGAGCTTCTCACAAA	2307	CTGCCACTGTCCATCCACATCT	3507
1108	CAGAGTAGGTGTGCCGTAGGAA	1108	CCCACCAAGGGAGCCAATTCT	2308	TGCAAAGTGATGGCAGACA	3508
1109	CGCTGTCTCTCATCCAAGTGTT	1109	CTTTGCCCTGGCATCTGAAAC	2309	GGTGGCGCTGTCTCCAT	3509
1110	CGGAGCCTTGGAGCTAGGTGATTA	1110	CTCTGGCACCTGGAAACT	2310	TCCTGGCATCAAGACTGTGAAC	3510
1111	CAGGGTCTAGCTCTTCTCTGTTT	1111	TCATCCATCTGAGCCAATTTCT	2311	GTCTTTGTTTACCTCCAGGGTTCCTA	3511

1112	CATTCCCAATGGATGTGGCTAGA	1112	AAATCCAGCCACAGGATGATACAA	2312	CCATCTCTGCATCCCCAATGGAT	3512
1113	GCTCCACTTTGCGCCTCACTT	1113	GCACCAAGGAAGCATCAGGTA	2313	CCCTCTGTTTTAGCTCCACTTTC	3513
1114	CTTTGCTCTGTCTGCACTGAGTA	1114	CTGCTCAGGGGCGCACTTC	2314	CAGACTTCACCCACTTTGCTCTT	3514
1115	TTGAGCTGTGCAAGGCTTGT	1115	GAAGAGCAGTTTCACTTATCTGTGTA	2315	TGGGCTGAGCGGCTTTCTTA	3515
1116	TGTGGCTACTTTCCACAGTTTG	1116	GCCTCCGATCTGTTGCTAGTGA	2316	GGGATAGCCCTTGCTGCTACTTC	3516
1117	CAAAGGACAATCACAGAGCTGTT	1117	AGGGGAGCCTCAGATCCTAAA	2317	TCCCATTTGAAAGTATGGACTACAAA	3517
1118	GGAATGGACCAAGTTTGTCTTGATT	1118	CGGCTGACTGCAGTTGTCT	2318	GTTGAGGAGTAAGGAATGGACCAA	3518
1119	TGGATGTGGCCCGCATTTGT	1119	TCGCTTCGGGCTTTGAGCAA	2319	ACTGGCAGGAAGGGTGGAT	3519
1120	CCCCGCCCCAAATAGCATTTTA	1120	GATCAGAACTCTGGCATGATGA	2320	TCCACCCCTGCCCAAT	3520
1121	ACCAAGCACTGGGGAACATAA	1121	GAGAGCCCTCAGGCTCTTG	2321	GGCAGACGGGATTGATTGCTA	3521
1122	GGCATGCTCCGACCAAGA	1122	CCCCAGGAGAGCTGGTGATGA	2322	ACCATGCTGGCCACAGT	3522
1123	CAGGCCATGTAAACGACTCTCA	1123	ACTGTCTGTTCACCCCTTCA	2323	GGGACTTTCCAGGCCATGTA	3523
1124	TGCTGAATGGTTTGTCTCAGTTTG	1124	AGGGCCCTACTACCACTTAG	2324	GTCTTGCTGTAATGCTGAATGGTTT	3524
1125	TCGAGTCACTTACCTGCTCAAATG	1125	GACCAAGGGAAGAAAGACCTTGAA	2325	CCTGGCTCCATGGGTCACT	3525
1126	AGCAAGCGACGGTCTCCAT	1126	TGGACACTGCCGTAAGTGAAG	2326	TCTGGGGTGCCACCAGCAA	3526
1127	AGCTGCAGAACTGAGGCTCTCT	1127	GCCTTTCACCTGCTGCTCTTC	2327	GCCTCTCATACCTGCAGAACT	3527
1128	AGTGTGAGGAGGGGAAACGAA	1128	TTCCATGGCAGATGCTGTT	2328	GCAGGTGGAGTCTGAAGTGCTA	3528
1129	CACTCTCTCCCTTATACCTTGTA	1129	GGGGATAAATGTCAAGCTGGAT	2329	GTCCTCATTATCACTCTTCCCTTA	3529
1130	GCAAAGATTGCTGCCGTTCA	1130	GGCTTACTATGCTGCTAAACATTAC	2330	AGGCTGCAGAACAGCAAGAT	3530
1131	TGGACAAGAATGGAGAAAGACGTT	1131	TGGTACCTGATATGCAGCCATTG	2331	CTGGTGGGCTTATGGACAAGA	3531
1132	GCCTTTCCAGGACTCAACAGT	1132	AGGCAGGGCAATGGTGATC	2332	CTGGGGCCAGAGTCTGATTCTTAG	3532
1133	CTGCTTTGAGGCAGATAGGAGCTT	1133	GCAGACCTCTGACCCCTTTGGTT	2333	GCAGTGGAGATGAGGCTGCTTT	3533
1134	CCTGCACAAAGTGGCTGTCAAC	1134	CAGTACTGAGTCCCTGTGTTTTTG	2334	TTTCTGCCCCACCTGCACAA	3534
1135	GCAGGAAACCAAAAACATCACCTA	1135	CATCACTCCCTCTGCTGCTA	2335	CCAAAATATCTCAGGTGCAGGAA	3535
1136	GCTTTCTCTCCCTAGGACATACAGT	1136	AGGCCACTGCCTTCTACCTT	2336	CCTCTGGCAAAGCACCCATTCA	3536
1137	AGCCTGGCTCCCTACACATT	1137	ACGAGGGCTGGCACGAAA	2337	AGAGCCAAGAGGCTGCAACA	3537
1138	TGCTATTGGGGCATTGGTGT	1138	GACAGCTTGCAAGACCTTCT	2338	GCAGTGAGCCAGTAGCCTTTTG	3538
1139	TGCATCCCGTTGCTGCTCAAG	1139	CATGGGGAATGGGTGAGTACAGT	2339	GCTCCAAGGTACTAGTCTGCTGAT	3539
1140	GACCTGTGCTCCTTTGCTCTTAG	1140	GCCAGTGAGGAGTAGTACATTTAC	2340	GGCCAACCTCTGTACCTTCAGT	3540
1141	CTTTGCGCTTCCAGAGTCTCCTT	1141	GTTACAGCATCAAGTGCAACAGT	2341	CACTTCTCAGTCTCTCCCTTTG	3541
1142	GCTGGTACTCTCCAGTTTATAG	1142	TGAGGATTTCTGGGACACAGA	2342	CTCCTGGTTTGCCTGGTACTCT	3542
1143	GGGACCACTCACTTTGCCAGATT	1143	AGCGGCTGTGTCGCAATCA	2343	AGGGAGGGACCACTCACTT	3543
1144	ATTCCATTCTCAAAAGCCGTGA	1144	ACTGCTCCCAATGACCCAGAT	2344	GCCCTACAGTTTACATGCAAGATATTC	3544
1145	TCCAGGCACGCACCTCTGAT	1145	TCCCTGCGTTGCTTCTACT	2345	GCTGTCCATGCAGAGCTAAGT	3545
1146	GGCAGGCATCTGTGCAGTCATT	1146	TTGGACTCCAGTGCTTGCAT	2346	GAATGAAGTGGCAGGCATCTGT	3546
1147	TGCCAGCATAACCCCTTCTT	1147	TCCTTTGGCACTACGAGCTATGAA	2347	GGCTAAGGGAATGCCGACATAA	3547
1148	CGCCAACTCAGTGTTGGAAT	1148	CCAAAGCACATTAGCCTGTGATG	2348	GCCAGAAGGGAATCGCCAAT	3548
1149	CGGAGCACTTGGCATGTTAATACA	1149	TGGCCCACTGCTTCTCT	2349	TTCCATCCCCGAGCAACTT	3549
1150	GTGGCAGCCTTTCTGTAGTTGA	1150	GGAAAACAACCTTGCTCCTACTTTG	2350	TGAAGGAAGTTGAGGCTGAGCCTT	3550
1151	GCTCGTTAAGAATTAGCCCCACATC	1151	AGGAGGGTACCTCCGCTCTCA	2351	GCCTTCCCTGGAGCTGTTA	3551
1152	CACCACTAGAACCCTCTGTAGT	1152	GTAGGCTTCAATGCCAAGAAATG	2352	CTGAAATGGCAGCCTTATGTTTCATC	3552
1153	GCTGCTTTGCGGGACCTT	1153	CTCAGGCATGGACACCTATCTTC	2353	TTCTCGGAGTGCTGCTTTG	3553
1154	GGCAGGAGTCAAGTGAAGTGGTA	1154	AGCTCCCACTCAACTCAGA	2354	TGGAGCTGGCAGGAGTCACT	3554
1155	TGTGTCAAGCAGATTTGAAGCTAAC	1155	GCAGGGCAGACTCCCCAAAC	2355	GGGCTGTGAGGTTTGTGCTA	3555
1156	TGCACATTCCTTCTTGGTGAT	1156	TGCACTCTTGGGAGGAAAAA	2356	GCTCAGGGCTTGACATTCCTT	3556
1157	CCTGCATTGCAAGCCGTTT	1157	GCTCAGGCTGGCTTGAACA	2357	TGCCCTAACTTCTCCTGCATTG	3557
1158	ACCTGCCTGTGTGGTATGGAA	1158	GGCTGGACAGTTGGTTGCTGAT	2358	ACCAGGCCTTCTTCTAGTCA	3558
1159	GAGCCGAATGTTCACTTATGGAGTT	1159	AGATCAGCGACCTGAGGAA	2359	GGGTGAGCCGAATGTTCACT	3559
1160	CTGAAGCCTAATGGGGATCCAGAA	1160	AGGCACCCCTTACTGTGAGA	2360	CCCAGCCAGAGAGGTATCAACT	3560
1161	AAATAGCTGTCCATTCTGGTTGT	1161	CCAGGATGGAGAATGCAGACACA	2361	GCTACTTTGAGCTACCACTGAA	3561
1162	TCCCGGATTTCACAGTAGT	1162	AGACCAAGATGGATGGAGGTGTA	2362	CTGAAGTATCATCTTCCCCGGATT	3562
1163	GGGTAGGATGCATGAGAAGAACTGGAT	1163	CGCTACCTCTCAAGCCAGAAA	2363	CAGAGGGGTAGGATGCATGAGA	3563
1164	GCCAGCTGAGGAACTATTAGACACT	1164	TGGCAGCCCTCCACCATTTT	2364	CTGATGCTAGATCTCTTCTACTTG	3564
1165	CTGCAGATCTAGCCAATGAGTT	1165	TGGCAGGTGACAAGGTGAATTT	2365	GGCAATAGGAGCTGCAGAT	3565
1166	GGCCAAGATTTTGGTGTCAAGTAG	1166	AATTCCTACGGAGTGAAACACAA	2366	GGGCTGTTGGGCCAAGATTT	3566
1167	ACAGCTGCGAATGGCCTAAT	1167	TGTGTAAGGAGGAGTAAACAACT	2367	CCCAACTATTTTGGGTTAGGAAGAAC	3567
1168	GATCTCATGGCTACGGAGATCAAG	1168	ACCTCAACCTCTGTGTGTTT	2368	GGGTGACACCTGAGGTTCTTGA	3568
1169	CCTCTGGGAACTGGCAAGTAAAG	1169	CCACAGTGAGGGTGAAACATCAT	2369	CCCAAAATGCCTCTGGGAAAC	3569
1170	GTACATGTTATGGCTACCAGGAA	1170	CCTCACTCCCTCTCTGCTT	2370	GGAACATCTCATGCTCAGTATTTG	3570
1171	TGGTCAGTGCTCCAGAGTT	1171	ACAGTAGTCTGGATAAACCTAGAGA	2371	GGTCTAGGGTCTCAATTTGGTCAGT	3571
1172	CGCACATGTCTCGTGCTACT	1172	CATTCTCTGTACATTGGAGGGAAT	2372	CCCTTTGGATGACTCTTGCACAT	3572
1173	ACCACTGACAAACCTGTGCAT	1173	GGTGGGACGAGTCAATCACTAAG	2373	CCACTGCCACCACTGACAAA	3573

1174 CAGGGATGAATAAGCCTCATGAAAGA	1174 CACCGTGCCAGCCTGTAA	2374 GAGTGGTTTCCCATCAGGGATGA	3574
1175 ACTGCAACACTGTGATTGTCTTCA	1175 GGCAATGTTAGCGAGCATTTTACA	2375 GGCAAACTGCAACACTGTGA	3575
1176 TTGGCTCCCCAGAGTGGTTGT	1176 GTTCTCGTTCAGACAGTGGTTCT	2376 TGCAGGTTTCTCACATAACTCCTT	3576
1177 CAGTCGAAAGAGTGGAAGGATGA	1177 CAGGAACCTCATCCTGAGTTGATTT	2377 TTCTCTCCAGCAGCACTCTTTATT	3577
1178 TGAAGCATCTGGCCTGTCTGA	1178 TCCTTGCTGGACCAGAGTGTGA	2378 CTGTGGCCCATGAAGCATCT	3578
1179 TTCGGGGTGCATCCTCACAT	1179 AGGCCCCGAGGGAGTTTGTG	2379 TGTCTGCTTCTAGCGTCTTC	3579
1180 CATCCACAGCTGTCTCCGTGA	1180 GGCCCTCAAAGTGGTGAAGAGT	2380 CACACATTTAGGAGCTTGATCTCATC	3580
1181 TTCCAGGTTGTTTTCTGCAAAGTAG	1181 CCTTGCCTGAGCTGGTATTTCT	2381 GGAACCATGTTCTTCCAGGTTGTT	3581
1182 TCCAGAGACACAGCTAGTTAAAAAC	1182 TGTGGCTACAACTCAGGCAAA	2382 TCATCATCCCAGAGACACAGCTA	3582
1183 TGCTGCTCGTACAGTGGAAG	1183 GACATTGCTTGACTTGGGTGTGT	2383 CCTTGTGCTGCTAACCATGAGACT	3583
1184 GGAGCAGTATCATTTTGGTGATTG	1184 CTCACCGCTCCCATGAATGAATC	2384 GGACCCTAGTGATTCTCCCATCAT	3584
1185 CGGTGGTGCCTTTGTTTAACT	1185 TGTGTGCTGACAGGTTTGTGA	2385 CACACTTTTCGGTGGTGCCTTT	3585
1186 GGAGAAGGAATGTCAGGAAGCAAAC	1186 GCAACAGGAGCTACTTGCCAAA	2386 AGGAGCCAAGAACAAGGAGAAG	3586
1187 AGTAGGTGTGATGGCCAGGAT	1187 GCCCCTGTTGTGTGCTGAT	2387 TGGCCATAACAGAGTAGGTGTGA	3587
1188 TGTCTTCTAGCCTCATCTCTCA	1188 GGCTGCAGCATAAGGAATGTGA	2388 TAGCCCCACGTGCTTCTCTA	3588
1189 GCTAGGGGATACTGAGTCCTGCAT	1189 GCAGACCATTGCTTGGAGGAGATA	2389 ACTTGTTCACTTGCTAGGGGATAC	3589
1190 CCCAAAGAGTCCCCATCTGGTT	1190 CTGAGCTGGGAAGACTCAAAC	2390 CAGAGAGAAGGAGGCCCAAAGA	3590
1191 AGACCTAGGCGGCAACAAA	1191 GCAACTTTAGGCCAGCTGAGTT	2391 TGTCAGTAACGGTGGAGACCTA	3591
1192 AGTTTCCTGGAAGCCAGCTATTAAA	1192 AAGACAGGGTGGGAGATGTAGT	2392 GCCTTTTAATTAGCCTTGCACTT	3592
1193 CGTAAGCATAGGGGCTGCAGTA	1193 CCTGGATTGGGCATACGTGAA	2393 AGTGGGAGCCTCGTAAGCAT	3593
1194 GCAGTTGAGGGAGTTCAACTAAAGA	1194 TTCCTGAACTCTTGCTGGTTT	2394 GGAATAGGTAGGTGCAAGCAGTTG	3594
1195 CCTAGGCTAGAAGCCCAGAAAAC	1195 GGGTTGAAACTGGAGGCTTGTTT	2395 ATCCACAATTTCCCTAGGCTAGAAG	3595
1196 CCTTCCCTTTGTACACCCACATC	1196 ACTCTGTACCGGATTTTCACT	2396 GCCTAGGGTTCTCTTCTTCCCTTT	3596
1197 CCTGTGTTCAGGAAGAATGAGGAT	1197 GCCCATCCAGACCCTTCTAATTG	2397 TGGTTCCTCCGAGCTCTTTT	3597
1198 GAAGGAACTGACTTTGCAGCTTAAC	1198 CAGCCTCGTGACGAGCTTG	2398 TGGGTCTAGAAGGAACTGACTTTG	3598
1199 AGGGAGAAAATCACACTCTTGCAT	1199 AGAACCCCATACCTGCATTACAAA	2399 GGGCTCAGGGAGAAAATCACA	3599
1200 GGGGACGAAGTCAAGGTGTAG	1200 TCCCTGGAACCTCCAAAAC	2400 TGAGTCTTACGGGGACGAAGT	3600

FIG. 35

Target		SEQ ID.		SEQ ID.		SEQ ID.
No.	Pool A Sequence (5' to 3')	No.	Pool B Sequence (5' to 3')	No.	Pool C Sequence (5' to 3')	No.
1	GTGTCGTGCTGCTAGGTATT	3601	TCGGGAATGCTGAGGAAAAGAG	6287	CCTCTGCTGAGCTCCTGTGT	8973
2	TGTGCCAGGCCCAAAGCTT	3602	GAGCCCTCTCCGTTTGTACACA	6288	GCCTCCACCACCACTACACA	8974
3	TCTGCTTCTGCCGGCATTC	3603	GCTGGACAACTACTGCCTCTT	6289	GTGGAGGAAATTAGATGTCTGCTTCTG	8975
4	AGGAACATGTCAGATTGCAACCA	3604	CAGCTTCCCTCTTTTGCTCTGT	6290	GACACACACAAAAGGAAGCTGCAGAT	8976
5	CCACCAGGTGCTCTCAACTCT	3605	GAACCTCAAATGGCCTGTGAAGTC	6291	AGGGCCTGCTGACTCGTTCT	8977
6	TCCCACACAGTGTCTGTATCT	3606	CAACGGATGGAGATGCAACCAT	6292	AGTTCTGTGCCAATCCCACACA	8978
7	AGAAGGGCAAGGAAACATAACCTT	3607	ATCTGGGGCCCATCCTTTGG	6293	GCTTGAAAGAAGGGCAAGGAAAC	8979
8	CCACTCCTGGCCCTTTTCTCTTTT	3608	GCCTGGAGAAGAGGTAGATGTG	6294	TCCCCACTCTGGCCCTTT	8980
9	AACCTGGGGCCAGGCTCTA	3609	CGATCTCCTTGTTCACCTCTTTCC	6295	ACTGGGATTTGACTCTGGAAGTTG	8981
10	CCACGATGAAAAACAGAAACCAAAC	3610	AGCCCCATGTCTGTGATGGT	6296	CAGCTAGAGCAACCACGATGAA	8982
11	GGTTGCAAACCCCTCCTCTTT	3611	CTCGCCAGCATGGTGACA	6297	GCCTGAAAGGTAGGTTGCAAACC	8983
12	GCCTTTGTGTAGACAGCCACTT	3612	TCCACTGGGCCCATCTCTCT	6298	AGAGTGATAAACCAAGCACCAACA	8984
13	TGTGTGCATAAAGGGTCTTGAAGA	3613	GGTGGAACAAGGTGGAAGAGTCT	6299	ACAGCCCTTGTGTGCATAAAGG	8985
14	ACCCCTCCCTGCCACTGTTT	3614	CTAGTCTTAAGAGTATAAGGTAGGGTGAGA	6300	TCTGCACCACTCTCAGGCTCTTC	8986
15	TAGCCGTGCTCAGATCCTAGCT	3615	TTTGCCCTTCCGACAAGACA	6301	TTTGACAAAAGGGCTCAAAACG	8987
16	TCATGGTGCCTTGGCCTCACT	3616	CCACCGAGCTCCTCCTGTCT	6302	GCCAGGCAGCCTCATGGT	8988
17	CTCCAAGCCACAGAAGTCAACATG	3617	TGCAGGGAAGGACTGTTGTC	6303	TGCTTCCAAGCCACAGAAC	8989
18	GCCTCACCATGGCTCTGATC	3618	TCACCCACCATTCATGCAAGAG	6304	GGTACCAGGGGCAAGAAGT	8990
19	CCAGGTCCCCCAACAC	3619	GGGAATACAGTGCAAGCAAGGA	6305	AAAGCCCAAGCTCTCAACAAG	8991
20	TCCAGTGCTCACTCACTCTCCTT	3620	GCGCAGTAGAGAAGAGGCTTTTAG	6306	TGAAAACCTAAACCTTTCATCAACCT	8992
21	GAGTAGTGATGCACACAGTGA	3621	CAAGCTAATTCTGCAGCAAGTATGA	6307	AAGCCCAGAGTAGTGATGCA	8993
22	TGGGCCTCATTTCCCAAGTTC	3622	ACTCTTAGTTAACAACAGCCATGGTAT	6308	GTTGACAAAGTCTAGATAACAAGGAGTCA	8994
23	GGCTTCTGCAGATAACATCCTGATT	3623	ATTGTGGAGGCTGAAATGCT	6309	TCAGTGGCTTCTGCAGAATAACA	8995
24	TCCAGCCTCAGCCTGGTT	3624	GGGCTGTTTCCATAATCATCCTACCT	6310	GGAGTCAGACACAATAAATGGGTTACAG	8996
25	TGCATGGCCAGACAATATGGT	3625	TCACAACCAAGTTTACCAACCA	6311	GGCTGGGAAACTGCTATTGCAT	8997
26	GAAAGTTGTGTTCCCAAGGCTTTG	3626	GAGCTGAGTAAAGCCATGTGTCA	6312	CAGATACATGGAGGTGAAAGTTGTGT	8998
27	GTATGACTCCCTTAAGGATGAGAAG	3627	GTCACCCATCCCACCTATTACTTG	6313	CACTGTGTATGACTCCCTTAAGG	8999
28	AGCAGCATGATGCCAACGAA	3628	AAGGAAATAGACCATTTAGCTTCAGT	6314	GCTCCAAAATAACTAGCAGCATGATG	9000
29	GGCTCATCTTTGCCAGTTATTTCCA	3629	GGAAGTCTGGCTCTGTACCTGAAA	6315	ACAAGACTACAAAGAGGCATTGAACT	9001
30	GCTGTTCCATGGAGCAATCACTT	3630	TCCGTGTGCTCAGCTTGACT	6316	AATGTGAGGATGGCAGGCATTG	9002
31	AAAAATGGCCAGTTTTGCAGAA	3631	GTTTTAGTCTCCTTATAGCCATTGG	6317	GGCTGAAACTAAAAATGGCCAGTT	9003
32	AACAATCCCCGCCCAATCCT	3632	TTTGGTCACCAAGCAGTGGAAGT	6318	AGGTCAGGGATGACCAACAATCC	9004
33	TGCCAGGCTTTCCCAAT	3633	GCCAGTGGTGGATTCAAAAAGCA	6319	TGCCTGGCACACATGATGT	9005
34	TGCTGTCTGCCTCAGGATGA	3634	GCTGCTGGCCCTTATGCCTGAAG	6320	TGTTCCCATCTCTTGCCATCTC	9006
35	GTGGGACAGACAGCCCTTGTT	3635	AGTCTCTCAAAGCCTGACGTTTC	6321	TGCCAGGGTGGGACAGACA	9007
36	GTTTTCTGTTTCAGGTGACCTAGTC	3636	GTGGAATAAGATGGAAGCCACACT	6322	CTGGTGAACCACAAACAATTAATGTTT	9008
37	GAGAGCTATACAGAATTGTGGCTTTTC	3637	AATATTACTAGCCACACTGCTATTCCTT	6323	GGTTGCCTGAGAGCTATACAGAATTGT	9009
38	CCCGCAGTGATTCCAACATAGA	3638	CGAGGACCCACCACTGCT	6324	AGGCACCCGAGTGATTCC	9010
39	TGCAAACTGCGACCTGAAGT	3639	GAGTGGGATAAATAAAGGCTGTAAAGAG	6325	ACTGGCAGCAAAACTCAACCT	9011
40	AGCTGGGGCTTGAATGTGA	3640	TCCAATCCCACTCTGACAATG	6326	TCCTCTACCCCTGGAGGCATAAA	9012
41	CCCAACTGTCCCCTCTCACTA	3641	CCTGCTTAGTGGCCTATGTGATCA	6327	GCTGCAAGGCCAACTGT	9013
42	CTGGTTTGAATGCTTGGATTGCTTAG	3642	TTGTCCCCCAACCCATTCA	6328	GAGGACTGACAGGAGATGTTAGTAAGA	9014
43	TCAACAGGCTACCATTTCTTGGAT	3643	GGCAACACTCCGCTTCACTATT	6329	AGTACGTATTCAACAGGCTTACCATT	9015
44	TCCCCAAAGAGGAAGTCTT	3644	GGTAGTAAGATTAAAGAGCTCTGATTGCA	6330	ACTGGAGGCATTTTCACACCTT	9016
45	GGAATCCCTCCCTGTATTATTG	3645	CCAGGAAAAGACACCCCATACA	6331	TGTGCTAGCGTACCCAATGG	9017
46	GAAATGTCTCTCTGTGGTCCAAGAT	3646	GAATGGTTGGTATCTAGGCATCACT	6332	GGAGAGGACCACAAAAGAAATGT	9018
47	TGGGCTACTGGCACTGAGT	3647	GAGTGCCAACAGCTCAGCTAAT	6333	CCTAAAGTGGGTGGGCTACTG	9019
48	CACGGTTAAGTTGCACCCAAAC	3648	GCATCAAATCAACTCAATGGAAATGT	6334	TGTCTCAGATAATGTACGGTTAAGTT	9020
49	AGGAGGTGGTGAAGTGCAGAGAA	3649	TCCACATCCCTTTTCCACCTT	6335	AGACCCCTGGTTTTCATGAGCTT	9021
50	GCTGGGCGAGCTCTTTGG	3650	AGGCACCCACCTCTAGACAGTA	6336	AGCACACAGGCAGGAAGGT	9022
51	AGAGTGAGGAGCAGAGACTTCA	3651	GAGTGATGGTCAGGCAGTTTCATAT	6337	AACCAACCTGGGAGTAGGAAT	9023
52	TAGGCAGAGGCATGCCTGAAT	3652	TGCTTCTGGGCTGTTTTGT	6338	CATGAGTCCGAGGCCACCTA	9024
53	TTGGGTGCCAGTTTGGACCAA	3653	TCGGCAGGGAGGGAAGCTTT	6339	AGGGGTTGGGTGCCAGTT	9025
54	CCCCAGCTGTCTTCACTGTT	3654	CCAGGGTGCACTCTCTTCT	6340	TGATGGCCCCAGCTGTCT	9026
55	GTGTGCTCAGTGGACAAGCA	3655	AGCCCTGCTGAGCTTATCCA	6341	GCCCCAGGTGTGCTCAGT	9027
56	AGGACAGGGGCGAGGAGTAAT	3656	CACACCTGTTATCACAGTCTTCTAGT	6342	GTGGAGGCTCGGGAGAT	9028
57	GGAACCACTTATCCAGAACCAGAA	3657	AAGTAGCCTAGATTTCGCTGCT	6343	ACTCGAGATGGAACCACTTATCCA	9029
58	GAGGCTGACTCTGTTGCAT	3658	ATTTCTCGAACCCTCGCTAAA	6344	TTGTTGTGACTGCCGCTTTT	9030
59	TGGAAGACTACATTCAATTCAAAGACAAA	3659	CAAAGCCCTCCTTGACTTGCTT	6345	CAGACTTTAAGAATGAAAAGCTACATTCAA	9031
60	CTCCAAAACATGATCCCGGCAA	3660	TTGGCTGACCCCTGGTGTAGT	6346	AACCGGGGTGTCCTTGGAAAT	9032
61	TGATAAGGGCTGTGCTCTTCTAAG	3661	TGCCCTTAGTCTAGCACAGCTT	6347	CCACACTTGCCCCAAGTGTATAAG	9033
62	AGATAGCCAGTGGGTTTATCTTCTC	3662	CCCATCAGGAAGGCTGAGATG	6348	GCAGTTGTAGATACCGAGTGGGTTT	9034

63	TGTTTCCCATCCATCAACCATATC	3663	GCTACTTCCCCTGCATATCTATTAGG	6349	CCAAGATGTTTCCCATCCATCA	9035
64	TGCCCATGCCACATCCAT	3664	GGAATTAGGTAAGCATTTCTGAATGG	6350	TCACCTGCTCCCTTCTTTCT	9036
65	AGGCTATGAACCACTCTCCTT	3665	CCAAGGAACAATTTTCTGTCAGTGAGA	6351	GGCTGCAGGCTATGAACCA	9037
66	CCACACGATTTCAGAAAGAGCCTTA	3666	GTGATCATCAACTGGATTGCACAAAG	6352	AGTCCTGAAAGACAAACTACCAACAT	9038
67	CACCTCTACTTCTTACAGGGACAAG	3667	CAGGCATGCTCTCCAAATCTG	6353	CAAGTGTTCAAGTGTGAATTTAAGGAAATC	9039
68	GCTATGCCACACAAAGTACAGA	3668	TGGGAGTCTTTGCCAGTGGACTA	6354	GCACATTCAAGATCAGAGCAAAAGAT	9040
69	GCATCTTCATTGATGGGAACTGTAAACC	3669	CTGGGGGAATAGCTATATCTAGTTGGT	6355	TTGTCCTCAGACCACCTCTCTTTTG	9041
70	GCCCATATCTCATTGAAAGGAGAACA	3670	AGATGGGCTCTCTCTGTCTTC	6356	GCCCAGCCCATATCTCATTTGAA	9042
71	CCATTCTAGGTTAGGCTTGACGTTT	3671	GAGCCCCCAATTGCTGTGAAT	6357	TGTCACCCACCATTCTAGGTTAGG	9043
72	CTTCCCCGAGACCAACAC	3672	AGACTCTGGGGCTCTCCACTT	6358	AAGGATCCCAGCACCTACCA	9044
73	AGCCAGGCTGAGCAAGGT	3673	CGATGGCAGGTGCTTCAGAA	6359	CCTGATACCTTCTCTAGCAACACCTT	9045
74	TCCCAAGTTAACGGCAITTTCTCT	3674	GACTGGCAAGACTGTTCACTTCTG	6360	GCTTTTTGATTCAAAGTGTCCCAAGT	9046
75	AGGGCACTGTGGGATATCCA	3675	CTCTCCCTCCCTGACTGACA	6361	ATGCAGCTCAGGGCACTGT	9047
76	AGAGATAACCTGTCTACAGAAAATGCTTTA	3676	GGTAGCTTGGGGTAGCAATGGA	6362	TTGCTGCCAGACTTCTTAGTC	9048
77	TTCTACCCCAAGGAGATGCA	3677	TCCTCTACCCCTCTGTATAAAAG	6363	TGCTCTGCCAGAGAAAGCACAA	9049
78	GCCCTATGGCGGGGTGAATA	3678	GTGGTAGATTTCACGGGTCAATTTG	6364	ATGTGCCTAACGCCCTATGG	9050
79	AGCTCCCAACCCTACCTTAGCA	3679	AGCCAGCACAAGCCTCCAAA	6365	AGGCCCTCTGTCCTAGCT	9051
80	AGACACGGTGGGTTCTGCAT	3680	TCTGACCCTCGGCAAAAATCTG	6366	CAATCTGCAGCCACCATGCT	9052
81	TCTTATGCTACTGGGCTTTCTTC	3681	CACTGAAGCAGGTAAGTGTGAACAG	6367	CCCCTTAGCCTCATCTTATGCTACTG	9053
82	GGTCTGTTGGGATTTTCAGAAAGCTAAA	3682	CCCCAGCATAATGAGGGTGTT	6368	AGGTGAGGCTGTTGGGATTTTCAG	9054
83	GAGGCCACACTGCAGTCAA	3683	AGCCCCGGGACAGACT	6369	AGGGAGCGGAGGCCACACT	9055
84	CCCCTTCCATTATGGGATCATAGTAG	3684	GAACAGTTTATGGGAATAGACGATGTC	6370	CCACACTCCCTTCCATTATGG	9056
85	AAAGGCAGGAACTAGACTGAAACA	3685	GAACCGGAAATATGTAGGATTATGATTGC	6371	TGATAAGGCAGCTGAGACACAAA	9057
86	TCCTTGAGGCTTTCCCATTTCC	3686	AGCCGAGAATCTCAGAGGATCCA	6372	CCATCCCTCAAATCCCATTTCTCT	9058
87	GCCAGAAGGTGCCAGTTTTGT	3687	CTGTCAACGTAGTGAGGTACAGA	6373	AGCTCCATGAGGCCAGAAAGGT	9059
88	TCCAGGGTTCCCTCTTGGA	3688	GCTAGAAATTCACAGGACACAGAGA	6374	TGAGGGCCAGTTGCTGTTT	9060
89	TCCTGGGTGCAGGGTAGACT	3689	TCTCTCCCTAACCCCTCTCAA	6375	AGCTGCTCTCAATCCAGACTCT	9061
90	TGAAACAACACGCCCTCAGT	3690	GGAGTCCAAGCTCCACTACTCA	6376	TGCAGCAGCTGAAACAACAC	9062
91	CTGAAGCAGAAGTTAACTCTTTGCTT	3691	CCACCAGCAATTCGATGATAAGG	6377	TGAGTGACTGAAGCAGAAGTTAACT	9063
92	AGGCAATGCCGGCTTCTGACT	3692	TCAGGCTTCCAGTCTTTC	6378	CTCAAATGGTTCAGTGCTTCTTTCT	9064
93	TGGTCTTAGAGGCGTCCAGTCT	3693	TGGCTCGCAGGGTCAAAG	6379	ACAGCCCTGCACCAAGTAA	9065
94	AGGGGTCTGTAGAGTAGCGAGAT	3694	CAGAGGAAGGGGCTTCTCTT	6380	GTGTGTAGTAGGGGTCTGTAGAGT	9066
95	GAGTGTTACAGCAGACCACTT	3695	CCAGCCTCGTGGAGTTTTGT	6381	AGAGCAGCGAAGAGGAGAGA	9067
96	CCAAAACCTTCACTCTCTGTTGTC	3696	AGGTGGGAGGCAGGAAGAA	6382	CCTGACTCCAAAACCTTCACTCT	9068
97	GGAGTAATGCCCACTAGAGGTTAGG	3697	AGAGACTCAGAGAAACTGTTCCTCA	6383	AGGCTGGAATGATGCCCACTA	9069
98	AATGGGCCCTTGCTCTGTTT	3698	AGCCGGTGTTCCTCTCTGA	6384	CAGAATACCTGGCTATATTTGTACCTTGAC	9070
99	AGGATGGGAAGGCTGTGAGTA	3699	AGCAGCTCTCCAACTTGA	6385	GGCATCCACCAAGGCTAGGAT	9071
100	CAGCCCATCTTCTCTGATGAC	3700	CCAAGGCTTTGTGTCCTCCAAAA	6386	GTTGAGTTTCCAGCCCATCT	9072
101	GAGGTTTCGGCTTTAGTTGTGTA	3701	ACCTAGCTATCCTTCCAGCATTTT	6387	GGGGATAGAGGTTTCGGCTTTAG	9073
102	AGGAGATGACCTTCAAGGCTGTCT	3702	CATCTTGTGAAATGCCAGCATTACC	6388	GGCACCAGCAAAGAGACATCTAAC	9074
103	CAGTGGTGGGAAAGACAGCAA	3703	AAGGGATGAAAGCAATGCATTGAG	6389	CCATGAAGGAGGCTTGTGTTCT	9075
104	CCTGTTGGGCACTGCATACITTTT	3704	GGCTGTCAAGTGTCAATCTGAGT	6390	AGTTCTAAAACTGGATGCCTGTTG	9076
105	CCTGATTCACAGACCCCAAGTT	3705	CCAGAAAACACAGAGTCATTGCA	6391	TGTGGTAGCCCTGATTACAGA	9077
106	AGAAGGAAGTAGGGGGAGTGAGAT	3706	CCATGTTACCCAAGCTGGAATCCT	6392	CAGCTATTCTCTCAGACCTTCTATTACA	9078
107	TCTTTGGCACTCCTTCCATCGAGATG	3707	CCGTGCCCGGCCATTAGA	6393	CAAAATCTTTGGCACTCCTTCCA	9079
108	GGACAGGAATTCATGACTTGTGGTT	3708	TGGACTACTACATGTCAGAGAAGGA	6394	GGCTGTAATGATAGCCTTTGTGTTTAC	9080
109	CATAGGTAAGAGCTAGGTGTGGAGAAA	3709	GCCATTTAGGTAAACACCTGGGTTGT	6395	GCCCTAGCAATAGTCTGACTATATTTCC	9081
110	GGAGATTCTTCAACATGGGAATCT	3710	CTCAATAGTGAGGGTGGATCTAAC	6396	GCCTTTTCTTCTTAGGAGGAGATTTCTCA	9082
111	AGAGATTTAGTTTCTCAGTTCGAAGGA	3711	ACCGTGGTGGCAGCTTGAT	6397	CCTTCCAACTGGCAGAAATGT	9083
112	CAACCTAGCAAGGATTCTACTGGTAA	3712	CAACTCCTGCTGTTTTCTTCTTGG	6398	CCCACATCAACCTAGCAAGGATTCT	9084
113	CCTTGCTGTTCTCTGGAAGCT	3713	GAGAAAACATCCAGTGCAGAGGAA	6399	CTCACTCACACCACTATAGCTTCAC	9085
114	GGAGAAATGAGGCCCTTGGAGCTTT	3714	TGCCAGGAAGGGAGTGGATT	6400	AAGGTGTCTGGGGAGAAATGAG	9086
115	AAGCACAATACTAAACACAGAGTCAAC	3715	CGTAGCCCCAGTGGTAGCAATTA	6401	GGTCTGGCCAGTTTGACTT	9087
116	ACAAGGTGATTGGTTCTAACTTTGGT	3716	ACCCCAACCTCTCACAATGT	6402	GGGTAACAGAACAGGTGATTGGT	9088
117	AGACCACATTGTAGGCCCCATA	3717	GCCACCTAGGGAACAAGAACAA	6403	GTCTCCATGAAGACCACTATTG	9089
118	TGGGTCTGATCTCCACTTCT	3718	GGGAGAGAAAACTGGGTCTGAGT	6404	AGTGCCTGGGCTCTGATCT	9090
119	GATCCCTTTGGAGGCATTTCAAGGA	3719	CAGAAGCCCTGCCTGCAT	6405	AAGCCAGGATCCCTTTGGA	9091
120	CAGCAATCCAGACTCTACCTCTTC	3720	GAGTCCAGTCTTGCCCTTTT	6406	GGTGTGTTGTTATTCAGCAATCCAGACT	9092
121	GCCAACCTTTCCATTGTCATGGTTTA	3721	GGACACAAGCTTGTGAAGGA	6407	TTGTGCCAACCTTCCATTGTC	9093
122	CACAGAACTGCTCAGAGATAGCA	3722	TGTGTTCCAGAGCAGTTGCA	6408	TGGGCTGAGTTATGCCTCTCA	9094
123	TCTGCAAAAGTCCACCAAAGG	3723	GGCCATAGTCTCTCAGATGT	6409	GCCTACAGCTGTCTGCAAGT	9095
124	CCACTGGGGCTAATTGCTACAA	3724	AGCAGTCACGGAAGGCAAA	6410	GAGCAGCATATTTAGCTTTTAGAGTTAGTG	9096
125	GAGGATACATTTTGGGGAGATAACTGT	3725	GCTGAGTTTTGAGTGCATATGC	6411	TCCAGGAAAAAGAGAGGATACATTTTG	9097
126	TCTCAGGGTGCAACAGACATTTT	3726	GCCCATAGTACACTCTCACTTTCTG	6412	GAAATGTAGATGCTGCTTCTGAAGTT	9098
127	GGACAGGCAAGGGAGTTGAG	3727	CAGACGGGAAGATGGGTTTGTG	6413	CAGCCCTGGGACCAACAC	9099
128	CTTTTTCCAGACCCAGATTCT	3728	GGGAAAGGAGAATGTCCCAAGTGA	6414	GGCCTCAGAGAGTCTTTTTCCA	9100

129	GAAAAGGAAGAGCCATTCCGTGTA	3729	CTGCCATAAGACACAGAAGCT	6415	GCAGAACCCCATTTAAGACAAGTTGA	9101
130	GCAACCACAAAGCAGTTTGTG	3730	GGAGGGGATCAGTAGTGCAGATAA	6416	TTGGCAGCAACCACAAAGCA	9102
131	GCCTGTAGCTAGTGTCTGTCTCT	3731	CGACAGAGTGAGACTGAGACA	6417	GGAGGTTCTACTATCTTAGCCTGTAG	9103
132	TCTCTGTAGCGTGAAGTTGGTT	3732	CATCAATGGCAAATGACAGTTGCA	6418	CCACAAGGAGGAGGTTTACGATTCTCT	9104
133	TGGCACCATTGTCTCTCTCT	3733	GGGAATTTAAGGAGCCCGAGTGAT	6419	AAGTTGGTTCACAGTCTTGT	9105
134	GCCCTTTACACCTGATCTTGA	3734	TGGAAACCCAGCCAAAGTGT	6420	TGGAACACAGCCCTTTACAC	9106
135	GTTTCAGGCTTAGTACTTAAACAGTCA	3735	CAGCTTCTTCCACATGACCTT	6421	CCTATGCTTTGTTTCAGGCTTAGTAC	9107
136	TGAAGGAGTGTGATTAGTGGTTAAC	3736	GCCTATGCCAAATTTGATGCCAAA	6422	GTATGCATATATTGAAGGAGTGTGGATTAG	9108
137	AGGTGTGTGGTCCAGATTGC	3737	GGCAAAGGAGGATGACAAATAGGTATT	6423	GGCTTTGTCTAAGATATTCCAAATGGAACA	9109
138	GCCGATGTGTTGCCTCAAGTT	3738	AGAGCTGCTGGCCTATGCT	6424	ATTAATACTGAGGCCGATGTGTTG	9110
139	CACAGCCTTCAAGTTCTGTTTCCA	3739	AGTGGCAGAAGTGGGATATATTGT	6425	AAGAGAAACAGGCCACACCTT	9111
140	GCAACGGGAGTAATTGCATTTGG	3740	GCCTTGGATGGCTGAGTACTG	6426	GGAAACTTAAATGCAACGGGAGTAA	9112
141	AAGAGGCAGATTCTGGAAGGA	3741	GCTCAGGGCTTATGAGTTCTGT	6427	ACTTCTATTTAGGAAGGAGGAGATTGC	9113
142	GGAAGCTGAGCTGCCTCTAG	3742	GGAGGCCAGAACATTTAGAGGTTTG	6428	AGGCCAAGTCTCTCTACCTA	9114
143	GTATTACAACGCGAGTGGATTGC	3743	GCTGGGCAGGAAGGTACCAT	6429	TGATAACACTCTCTCAGAAGTATTACAACA	9115
144	GATGTCCACTTACCTGGATCTC	3744	GAGGACTGAATGAATCGGAACCA	6430	TCCAGCCGATGTCCACCTACA	9116
145	ACAGAAGAGAGACTTGGCAATAG	3745	CCTGCTGTGCTGTGATCTG	6431	CCAAACGCTTAAAGGTAGGAGTGATC	9117
146	GGAGCTGCCTGATCCAGAT	3746	GGGCCTGTGGTTCCAGTGAT	6432	GGGAGAGTCTTGGAGTGACT	9118
147	TGATCCAGATCAGGCTCAACT	3747	TGTTTGCAGGCTGCTTGGTT	6433	AGCAAGGCTGTGATCCAGAT	9119
148	GTCCTTGGGTTCAATCCTAGCT	3748	GGCTTCCCAAGGTACATCTAA	6434	AGCTCAAGTCTTGGGTTCAAA	9120
149	TGAGGCTCCAGTTGACCTTGAC	3749	CTGCTGTGCCAATCATCAAG	6435	TGGGGAAATGAGGCTCCAGTT	9121
150	TCTTGATATACACCACTGAAGCA	3750	CACCTAGTGAACCAAGAGTGAAGGT	6436	ACCCCCCACTTCTGCATATACAC	9122
151	TGTGCAATGAATTCAGCATGTGAT	3751	TGAGCATCCACTCCACACT	6437	GGAGGTGCACAGCTACATTTACTCT	9123
152	TGAAGCACTCGCAGCTCACT	3752	ACGCAGCTCTGGGGTACA	6438	ACTGGGCATGGGTGAAGCA	9124
153	AGCTGAACCTTGAGAAGAGCAAA	3753	CAGTGCCTGATAAAGTAAGCAGTATGG	6439	GCAGAGAATAGCTGAACCTTGAGA	9125
154	AGGGGTGGCTCTGACTAAGGA	3754	ATGTTGCGGTACCTTCTGT	6440	AGAGGCTCCAGCACATACCA	9126
155	CCTTGAATAAGCTGTCCAGGTAAGG	3755	ACGGGCCAAGATGCTTTCAGT	6441	AGAAGAAGGTGAGCCCAATGG	9127
156	GGAGTGGTTACTATCAGGGTATG	3756	AACTTCCAGCCTCCACTAGGAA	6442	GGATGAGAAGGGAGTGGTTACTATGC	9128
157	GGACTAGGATTAAGGAGGGCCTACT	3757	AGGGCAGCGCATGTAAGATG	6443	AGGGAGCGGAGTCTCCAAACT	9129
158	AGGGTTAGCTTAAGTAGGCTGAGT	3758	CACCCCTCTGAGTGAAGCATGA	6444	GAATAGAATGGGTTAGGGTTAGCTAAGTA	9130
159	TGGATAGGTGGGCACTATAGTGATC	3759	CCCATCATCATATAAATCTAGGCAGTCT	6445	GCTACAGAGATTAGTCTGTGAATATCCT	9131
160	GGAGGGTGAGGACAGAGTATTTATCC	3760	CATCGATCCAGAGAACCCCATAG	6446	AAGGAGGAGGGTGAGGACAGA	9132
161	CCCTCTGATTTCTCTCTCAGATCA	3761	CACGTGTTTGTACGCTCCAGAA	6447	TGACCTGTCCCTCCTGATTCTCT	9133
162	GCTTCCATGAACCGGACTGTATG	3762	CAACTTCATAGTAGGGAGGGATTCTG	6448	ACTGGGGCTTCCATGAACAC	9134
163	GTGGGGGTTAAGAGGACAAAGAGT	3763	AATTCTACGAGACAAACCCATCT	6449	GGTTTCTGTCTGTGGGGTTAAGAG	9135
164	GGAGAGAGAATAGTGTGCACTTTGTC	3764	CTGCAGCGAAACTGGTATCCAA	6450	TCTTTCCTTGAGGAGAGGAGAGA	9136
165	ACCCAGGGAAGATATAGACTTGAG	3765	CACCATACTTACATGTCATATGCCATTGT	6451	TGAAATGTTTTGTACTCAGCAGCTATAATC	9137
166	GATGAACACTACAGCTGACACACT	3766	GCCTCTGAATTAATTCCTGGCATAACTC	6452	GACACAGTGCTATTATTCTGATGAACACTA	9138
167	AACACACCATGAACCCACTCTT	3767	TGGTATGTCTGCTGTGGCTTTT	6453	CACCTCAGAGTAAAGTTATATTGCAATTTGAC	9139
168	GATGCTGGGAAGTTGATGAAACATAC	3768	GAGTGATGACAACCTGTCTTTACC	6454	TGTACTTGAGACTCAATACATTCCTTTCA	9140
169	GGTTCCATCGTCTCACTGTGT	3769	GCCAGAGGACTCGTTCTCTTTGTT	6455	GCCGTCTCCAGGTTCCAT	9141
170	AGAAGGCTGCCAGGATCCA	3770	TGGAAGAGGGGTGCCAAAC	6456	CTGGGTAGAAAAAACAGGTGATGAG	9142
171	TCCACAGTCGATTTGCCTATAGAG	3771	GCCAATGAGATCCTGACAGCTT	6457	AAGGCTTCCACAGTCGATTTGC	9143
172	CGTCTTTCAGAGAGTTTGCTTTCTCT	3772	GCAGTCAATAGATATCCCGCTGTTAGG	6458	TGCACACTGCTTTCAGAGAGTTTG	9144
173	GCTCAGAAAAAGAGAAGCTGCTGTGA	3773	CACCTCCACTGCACCTGAAG	6459	CCCTTAGGGATGCAGCAGAAGTAA	9145
174	GCCTTGAACAAGTCGCTTCC	3774	CTTCAATTGTACAGAGGGGAAACA	6460	TGTGCGGCTTGAACAAAGT	9146
175	CTGTGGGTTGATGTCTTCAAAGC	3775	CACGGGCAGGACAGATCAAA	6461	AGTTGACTTCTGTGGGTTGATGT	9147
176	CCCAAGCCAACATGTCAACTG	3776	GACTTCTGCTAAACTTGACTTGACTCA	6462	TGCCTCAGACCCTCAGACCAA	9148
177	GGCTCCTTCTCAATACAGGTGATTC	3777	TCCTGGGCCAGTTCAATGCAT	6463	CAGGTGCCACTAATCAACAGTGA	9149
178	AGTTACAGCACCTGCAGATCTG	3778	GCTCCCAAGCCATCACTATCC	6464	CGAGGCAGCAAGGAGTTCA	9150
179	CCCGCACACACACAGACT	3779	GTGTGTCAGGTAGGCATTGCAT	6465	GCATTGGTATTGTATTACATACCCCTCTT	9151
180	TGTGACGCTATTGTTGGTGATAGA	3780	GGTGTATCTTGTGAGCATCA	6466	CTATTGTAGTCTTTGTGACGCTATTG	9152
181	CTACAGCCACTTACACCTTTGT	3781	GTGGAGGGCCTAGGCAAAAT	6467	CAGTATCTTATCTACAGCCACCTT	9153
182	CTCCAGAGGAAACTGAGCTTTTGG	3782	CTGAGGAGTCAGGCATAGATCTACAC	6468	ACCTCTCTGCTGATTGGACACT	9154
183	GAATAAACTGAGCAATGCCTTCCA	3783	GGATGCAATGAGAAAGAACTAATGTTTG	6469	GGCTTGTGATTGTCCTTAAATACTATTG	9155
184	CCATACACTTTGCCTATCATTGTTT	3784	TGCAGTAGTGGTTGGAGTCAAC	6470	CCTACATTTCTCACATACTGACCATAAC	9156
185	GGGAAGTTAATCTCAGCCATTTGG	3785	CAAAGATGCCTTCCCTTCAAGA	6471	GCCCTGATTTTCTTACAGTGAGCTT	9157
186	AAGCTTGCATCCCACATCCA	3786	GGACATATTTGAGGGTGAACAAACC	6472	GGCTGCTTCATATTCCAGTTG	9158
187	GGAAACGATTCTAACAGAGCATCTG	3787	TCCAAGTGTCTGTCTTCTCT	6473	CGAGCCAAAGGAAACGATTCTAACAG	9159
188	GGTAAGGACAGGGAAAAGGATTAGC	3788	CCCATTCACTCCCTCTCTGTA	6474	GGAAGAAGGGAGTTAAGGATAAAGGT	9160
189	CCAGAGCCCCACAGTCTACA	3789	CAACACAGTAGTGGGGTTCAGTT	6475	TTGCTCATCCCTCGCAACT	9161
190	TGAGAGAGAAGCTTGGCTCTCTT	3790	ACAGCTTCTGCAGGGAGGTTTA	6476	GCCAAGGAGGTTGAGCTAATTTG	9162
191	ATGTCTGATGGGCTGCTTTC	3791	GAGGAGCTAACAATTCTAGTTCACA	6477	ACACTTCTTCCACCTTGGT	9163
192	AGGTTGGGCAGACAGAGAT	3792	TGTACGGCTCCATCACAGT	6478	TGGTGTCCAGAGACCCATCT	9164
193	AGGCTACAGGGAGGGAATGCA	3793	CACACTCTGCAAGCTAATAAATATCTCT	6479	ATGGATGGCAGACAGGCTACA	9165
194	GCTCTAGAGACCTACAGGACACTA	3794	AGAGCCCTGGACGACAGAGA	6480	TCCTTGGCATGGGCTCTAGAGA	9166

195	AAATCCTCAAAACTCATTCTCGAATG	3795	GGTGGGCAGAGAGGGTCATTTA	6481	CCACTGAATCTCCAGCATCTAGAG	9167
196	CGGAGTAGCCCTCACTCTCT	3796	CAGAAACTTGCAATGAGTTGATCTGT	6482	ACCCAAGACAAGTTGCGGAGTA	9168
197	CAGAGCCCGTTTTTCCAACATG	3797	GAGATCGTACTGAGCCTGACAAA	6483	AATATATCTATCTCCAGAGCCCGTTTTT	9169
198	CTGGCAGTGGAGGGAACAA	3798	GCCTATGACCCAGGACCATGT	6484	GTGGAGAGGAAAAAGTGCTCTCA	9170
199	GGGCTGTCTACATGTAGCTGAGA	3799	ACAGAAGTGGGATGGTCTTTT	6485	TGTGATCGGGCTGTCTACATGT	9171
200	AGCTGAACCTGTGGGGATGT	3800	TGACAGGTGGCCTTCACTCA	6486	AGGAGAAGACTCTGAGCTGAA	9172
201	TGGGACACACAGGAGGAGAGA	3801	AAAAGTCACTATCTTTGTTCCCAAAA	6487	GATATTCAGTGAGATGGGACACACA	9173
202	GCTCTTCATGTGGCTGGATTACA	3802	CTGCTCCAGTTGCTTCCAAGT	6488	AGGGACCCCCGACCTACT	9174
203	TGACTATGGTCAGGTCACCTGTCT	3803	CAAGAGGAAAGTGACGTCACTGA	6489	TGGTCCCACCTCTCACAATTGGT	9175
204	AAGTGTAAGAGAGCTGGAGTTCAA	3804	TGGAACAGGGTAGACAGTTGGT	6490	CCACGCCTGAAATAATTCCAACAT	9176
205	GCAAACCTCTCATGCAACCGAATAA	3805	GGTCAGGAAATTTGGGAGTGGTT	6491	GCCCCAGCTGATGATTTGACT	9177
206	GTGAAATTTACCACCAATGCCCTGAT	3806	GGTGTTCATTAAATGGAAGATAGGAAC	6492	CAGACAATCTCTGAAATCTGCTTCTAT	9178
207	GCGATGGGAGACAAATTAATCACTAGT	3807	TGATGGCAGCATATTTCTCTGTT	6493	GTGATTGTAGCTCCCTAAGTCTACAG	9179
208	AGGGCTCCAACCTCAAGCTA	3808	ACACCTCAAATTCACAGGACAA	6494	TGTTTAGGGAATGTGACTGGACTAG	9180
209	CTGTGTGCATCTGGCTGACA	3809	CCAATAAATAGTCTTCAAACAGAGAAG	6495	TGTGCTGAGGTTGAGAAATGG	9181
210	AGTGCCACCCAGCCTAGCT	3810	TCTTGTGGCAGAAGCATCGT	6496	GGGACTGATGAAGTAGCCTTCTGAA	9182
211	GGCAACTCTAGAAATGACAAGGCTTA	3811	GGTACACACAGACTGGAATTCAGT	6497	CGTGATTGTAGCTCCCTAAGTCTACAG	9183
212	CTCTCACTGGGATGCTTCCTT	3812	AGGTTTTAGCCTGGCCTGGTA	6498	TCACTGTCACTCCAAGGTCTCT	9184
213	CCCAGCCGACTTACTTTGAAGA	3813	AGCTTACCTGGGGAAGGATGCT	6499	AAAGAAATCCAGGTCCTGTTCT	9185
214	GCTGACTCTTAGCCCTGACTTC	3814	TGAGGAATGGGCATGGAAGTC	6500	ATCCGGGGCTGACTCTTAGC	9186
215	CTCTGTGCTTTCTCACTATTTC	3815	AGCAGAGGAGGGAAGAGTGTGTT	6501	GCCAATGCTCTTTCTTACCTCTGT	9187
216	TTGGGTGCCATTTGGGAGAA	3816	CACACACACTATAGTTCATCTCT	6502	TCTCTTGGCTTTGGGACATCTTG	9188
217	CTCCTTAGAGTGCTGAAATATTCTAGCA	3817	GAATGCTGTGCATCTCTGTACAC	6503	GCTTTGTGAGTCTTCTTGTGTATG	9189
218	GGGAGGCTTTTGTGGTACAGA	3818	AACACCCAGGCTGAGAAAGCA	6504	TGGCAGATTGACAGTGGAT	9190
219	GCTAGACTATCTTAAGCCAGTCTCTA	3819	CTACCTCTCTTAGCCCTAGTAAGT	6505	GCCAAGAAGTATCTTCCAATGTCTTTC	9191
220	GCGGCTGGTCAATCTCTCA	3820	CCCCGATTGAGAGAGGGAACAGAT	6506	GAAACAACGCGCAGAGAGTTAG	9192
221	GCAAGTAAGTGAAGGCAGCAAA	3821	GGAGTGTGGCCTTATTTCTCACT	6507	GGGTCTCATGGCAAGTAAGTGAAG	9193
222	GGTATGTGGGGCAGTATATCTCAAG	3822	GCCAATTAGCTTCGAGCATTTAC	6508	GTGTAGGTATGTGGGGCAGATT	9194
223	TCGCTGGCTTGCTTAACAC	3823	GCAGCAGGGGTCATGACTGA	6509	CAGTGACTGCTCAGTGAATAGTTAGC	9195
224	GCTTGTCTCAGATAGCCGTGATT	3824	GGGATCAGCAGAGGTGATCAAT	6510	GCCAGGCTTGCTCAGATG	9196
225	TCCTAATCACCCATGGCCAAATC	3825	CACAGGAGCTGCCCCCTTG	6511	CTCTGTGCCACTATACCTGTCTCA	9197
226	CGTACCTCAGTGATGTCCATT	3826	AGGGAGGCAGAGCTACAGAGATT	6512	GGAGTACAGCTTTCCAGAAAGTAAAT	9198
227	GGCAAAACAGGTTAGAATTTACACAGGAA	3827	CTCTCGACTACTCTCAGCTTTGT	6513	GGCAAAATAGCTAGGCAAAACAGGTTAG	9199
228	AGGGGATTACTGAGGGTGAGGATTAC	3828	CTCCCCAGGAACCCACAGA	6514	GGAGAAGAGATGAGGGGATTACTGA	9200
229	AATGCCCGCTCTGAGGAAT	3829	GGCTTGTCTATCGAAGTGGAATGG	6515	AAATAAGCTTTGGTTTTGTAGGGACAA	9201
230	TGCTGAGAGAAAGCTGATTTGGTA	3830	GGAACAAGTGGAGAGTACTTGGAT	6516	GGAAGCCTCACAACACATGAAAC	9202
231	TGAGGCCAGAAAGCAGTGCTA	3831	CAGAGTGCTACGTCTTTGGAAGA	6517	GTTCGACACTGAGGCCAGAA	9203
232	AAGGCTGCTATTATCCAAAAGTGTTG	3832	CCAAGTGAAGATGTCAGGCTAAACT	6518	GAGGGTAGAAAGGCTGCTATTATCC	9204
233	TGCCTCCTTGTGGCATACCAAT	3833	TCTGCCCTCATCTGTTAGCTTACC	6519	TGGGGTTGCTGCTAAATGGCAGCTT	9205
234	GTTCTCTCCTTGACCTTCTCTCTG	3834	GCCTCCGATGAGCTTATCATAGCATT	6520	TCAACTGATGTTGGGCCAAGGT	9206
235	GTCTGTGAGGTTGGACACTGT	3835	TGCACTCCTCCTGCTTCAAT	6521	AGGGAAGCTGGGTCTGGAACA	9207
236	CGTGAGCTTATGTCTCTGGTGTTGAG	3836	TCACACCGCCACCTGTCT	6522	TGCTTGATTGTGCGGTGAGCTT	9208
237	CTGATGTTGAAGCTCACAATGTTGAG	3837	GACATGGCCCTTTGATCACTCAA	6523	GGAAAGATTCAACACACATTTGACTGATG	9209
238	CAGATATTCTCTAATGCCCTTGAGT	3838	TGGCTGGGAGCTTAGAAACAG	6524	GGGGTTTGGACAGATATTTCTCTAATGC	9210
239	AGCACAGAGGAGCAGGAGTGT	3839	GGTGAGTCTGAGGCAAACTTCAT	6525	GATATCACTGCCATGAACAGAGAAG	9211
240	GCTGCCAAATGAAATTTGACCTTCATG	3840	CACGAGTATGTGCTTGTGTCAA	6526	CCATCTATACAAGGCTCCTCTAAGC	9212
241	CCGTGACCTAATGCTGTATTTCTGA	3841	CCCAGGTTTGTGGTAGGGTAGAA	6527	TGCAATCCGTGACCTAATGCT	9213
242	GCAAGATCCACTCCCTCTCTGT	3842	GGTGAGCTTTAGGGAGGAAAGATAGAG	6528	GGGAATATGGAGAACGAAGATCCA	9214
243	CTTTAAACCACAGCCTGACAAAG	3843	TCAGATGCCAAATGTAGCACCAT	6529	ACTTTGCCCTTCTTTAAACCA	9215
244	CCGGGTATGTCTGTATGAACTAAG	3844	GCAGCCATGCCATCGTTAGG	6530	ATCCAGCCACTCCGGGTATGT	9216
245	GCACAGAGACAAATTTGCCTCAAAC	3845	GTAACAGACCCCTCTCCAGAT	6531	GCCCTTGACACAGAGACAAAT	9217
246	AGCCAGACCTGAGCAAGT	3846	TGTGCAATGGCCCTTACTGAT	6532	GGGAAGTGTCTCACAATCAAAATTGAG	9218
247	TCTGGGCATCTCTGAGCATCA	3847	AAGCAGCCCTGATTTCCATGA	6533	ATCTGGCTCTGGGCATCTCT	9219
248	ATCTCTGCTCCTCCAGGTTGA	3848	GCCTCTGGTAGGAGAAGCCAAA	6534	AGGAGTTCGAGGCTGTAGTGT	9220
249	CAGCAGTCCCATATATTCTGGCTTA	3849	GGGATTTCTCTGTGGCTAAGCTTCTG	6535	CACCAAAACAGCAGTCCCATATATTC	9221
250	CTGCCCTTCCGAGGCTACT	3850	CTTCCCAAGCAACCCGGGACTAT	6536	CGGCTGGCTCCAATGTC	9222
251	GAAACATGGGACACCTGAGTCAT	3851	ATGCTCTGGCTACTGCTATTGG	6537	CAGCCAAACCATAGCAATATCTCTACT	9223
252	GAGAGGCCATGTACACAAGGTT	3852	AGGACAGGCCAGGGGTAGATAA	6538	CCTAACCAAAAAAGAGAGGCCATGTAC	9224
253	GGCATTAGCAGAAAGGGGAACAGT	3853	ACAGAATGCTGCTCTCCATCCA	6539	CCAGATAAAGAGGACAAAGGCATTAGC	9225
254	CTTGCAAACTGCCCTTCTCAGT	3854	GTTTTGGTTGTGCAAGGGTAGGA	6540	AGCCGGTAAGTCTTGCACAACT	9226
255	AGGGGAGGGCATCTTAGC	3855	CTAGCTCGGCTACTGCTCAACA	6541	TTCCCTGATGCGCAAGTTACG	9227
256	GCCTCAAAACCATCAAAATCCA	3856	GCTGTCTGTGGGAGAGAGAGA	6542	TTGGTACTGCCTCAAAACCAT	9228
257	CAAGGAAAGTATGCTTGTAAATGGAGTT	3857	CAAATGATTTTGGCCCCACTTCT	6543	TGCTGATAAGAGAATGACAGATGTGT	9229
258	GGTGTTCCCTCTCTGCTCTCTA	3858	GGCCAATGACTAAAGTGTGGGAAAC	6544	CCCCGGTGTCTCTCTCT	9230
259	GCTCATACAGCTGGCAAGAGG	3859	GGAGTTAGAGTGAGAACAGGAAGCA	6545	AGGAAAACAGGCTCAGAAAAGTTAAC	9231
260	TCCTTGACAGGCTCTTGCTTTG	3860	GCAGTGAGGTATAATGGACCATTA	6546	GGAATGGACTCTACTGCCTCTT	9232

261	AAATTGCTGACTCTTGGGACCTT	3861	TGAGCCAAGACGAGAACCAAC	6547	TTGACCTGGGATGAGATTAATCAATA	9233
262	CTGGAGTGTGCTCGCTTCT	3862	CCTGCCCCCTGAGTTCCTAGT	6548	TGGCTCAGGGCTGGAGTGT	9234
263	CTCCAAGGCCTAGTTTGCTGAA	3863	GGCTCTGAGGAATCGTACTATGTTG	6549	CCGCATCTCCAAGGCCTAGT	9235
264	CGCGGCTCTCAGTGGAAA	3864	AGAAGGCTGTACCTCTACTCTAG	6550	AAAGGTTGGGCCCTTTCTTC	9236
265	AAGGTACTGCCTGTGTACCA	3865	GGGACAGTCTCTCCGACTCTTACATTC	6551	TCCATCTGAGGAGAAAGGTACT	9237
266	GAATACTTTGAGGGCTGACGTCAA	3866	AGTTAACTACAAACACTGAGCAGTTTG	6552	CTGACAGGTGAGATGAGGAGTTTC	9238
267	GGGTTGGGGAAGCCCTAGTC	3867	CCAGGATTACTGCATATCCCAAGTG	6553	TCAGGCTCAGTGGTGTGAACA	9239
268	TGAGACTGTCACCAATAAGCCTATC	3868	TGCTGTCACTCCCCAAGC	6554	CCCAAGAATGAGACTGTCACCAA	9240
269	GGGATCATTGGGTGGTTTCTGTCA	3869	GAATTCTGCTGGGAGGAGAAA	6555	TGTGTACGGTTCCCAAGCCAAA	9241
270	ACCACCCAGAGATTCAGTTGGA	3870	GGGAGAGTTGTACTGTTTCCAGGTT	6556	CTTGCAACCACCCAGAGATT	9242
271	GTGCCCAAGTGAAGTCATGTTT	3871	TCATGGCCTCAGCACAGTGAA	6557	TGATATTCACAAAGTTGCAAGTGCTT	9243
272	GGAGCGTAAGAGCCTAACTTTGG	3872	AGAGACAAGTTGACAAGTTGGATCA	6558	TGAAGGAGATAGACCTCCAGCTG	9244
273	GGTTATTGAAGTCCTTGTGATGGATGA	3873	TCCACAACGTCTCAGTCTGAGTCT	6559	ACGGTGGTATTGGAAGTCTTGTCT	9245
274	CCTCTTACTAGGATATCTCCAGGAATGT	3874	GTGGCCAGTTTGCAACATGT	6560	GCTGAAAAGTTGTACCTCTTTACTAGGA	9246
275	GCTTAGAATGAGCATAGTCTACATGCA	3875	CCATGGCCATCCTCTACTGAGA	6561	CTGTTTATCTCATTGCTTAGAATGAGCAT	9247
276	CACCCACCTGTTTTGGAGATGTTT	3876	GCCACTTAGTGAAGCCTTTTGC	6562	AAGCGACCACCCACCTGTTTT	9248
277	GGGACGGGTGCAAAAGCA	3877	AGTGACTTGTGCTCTTTTCA	6563	TTTCCATGGACGGCCTGGAA	9249
278	GCATCTGCAACTGTGTGATCTTG	3878	GATGGGGAACAAGCACAGACT	6564	AGCCAGCATCTGCAACTGT	9250
279	AGGAGAACCCAGGATCCTT	3879	CGTGGCCTTAGAGGATCACAGA	6565	CCTGAACATAACTACCTCCTGTAATGG	9251
280	AGGGAGGATGGCCTGACATC	3880	CCAGGGTCCACTCCCATCT	6566	TCCCCCTTGCTGGCACATCTAT	9252
281	CACCTCCCAAAAAGGTTCCATTGAT	3881	GAGCAACTGGCAGAGATGACAAG	6567	GTGAGGTATCACTTCCAAAAAGGT	9253
282	TTCACTCCTCTCTCTTTGTGAAGA	3882	GCAAGATGAAGAGTGTGGCATTGT	6568	GAGAGCTTTTATCGTTCTGCTT	9254
283	GATGGTCTCTAGGGGGCTCTATT	3883	GTCTAAAGCACTGCAAGTAGTTC	6569	TGGTCACCCGGATGGTCTCTA	9255
284	CCACTGAGGCTATCCCTACAATT	3884	GGGATACAGTTTGGGGAACAGTT	6570	TTGGGAAAAGGCGTCTTTTCC	9256
285	TGAGTGGGTGGAGAGCTTCCT	3885	GCCTGAAAGACCGAGCTCAA	6571	ACTAAACCAAGTGTCTTCCATGAG	9257
286	GAGTCCTCTTTTTCTCTGCAATCCT	3886	CCGGCCTTGTCCTCAATTTTA	6572	GAAGTTCCCTAAGGAGAGTAAATCTCA	9258
287	CTCCGTTCTCAGTTTACCACAA	3887	TGCAGTCTCAGTCCCTTCGT	6573	TTGGTCTCTCCGTTCTCAGT	9259
288	CCTGAACAGCCACATGATGCA	3888	GCACAGGGTGACAATCACTTCT	6574	TCTGAGTCCAGGCCTGAACA	9260
289	AGACCTTAGACTGGCTGGAAGT	3889	ACCTTCTCTTCCCAAGTCTCGTT	6575	CCAGGCACAAAAGAGACCTTAGAC	9261
290	GGGGAAGTATCACTGATGCAAGCA	3890	TTTGGGGGAAGTTTGGTGGA	6576	CAATTGAAGGGAGTTCAAGACTTCTT	9262
291	GATTGTTGCCAAAGAGGTCATC	3891	GCTGAGCAGGGACATCTTTTGA	6577	GACTTCCAGATTGGTTGCCAAAG	9263
292	CCCTGTGCTCTCTCTCTCTA	3892	GCCCTCTGAGGCTTATTTC	6578	CACCTACCCTGTGCTCTCT	9264
293	CAATTTCCTGTGTCTGGTGACA	3893	GAGGGATTGTGGATCTGCTTGATG	6579	TCCAGCCTCAATTCCTCTGTGT	9265
294	AGCCAGGAACAGAGCCAAGA	3894	CGAGGGGTGATGAAGGATTGG	6580	AATTGGCCAGCCAGGAACAG	9266
295	TGGTCCACTGACTGGCATTG	3895	CCTGTCTCTACAATTAGAGGCAAAATTG	6581	CTAATGCAACTGGTCCACTGACT	9267
296	TGCCTTCTAATTAACCATCACACT	3896	GGTCTTCAACATGAGGAGCTTTC	6582	CCTTCAGGATGCTTGATGAACAAG	9268
297	ACTCCCCAAGACCTTTCAGAGATG	3897	AAGGGGTCCAGGTGACATAACG	6583	AGGTCACTCCCCAAGACCTTT	9269
298	GTGCTGAGCCTGAGATGCT	3898	TCCATCTCAGGGGCAGATCCA	6584	AGCGCATGAACAGCACAGTCT	9270
299	CTCTGTTTCACTTAGGTCAGTGA	3899	TGCCGGGAGCAAAATCAGT	6585	CCAACACCAAGAACTCTCTGTTTCA	9271
300	TTCATGCATGAGGCTGGATGAA	3900	TCAGGGGAGTATGATGGAGAGCTA	6586	GAAGAACCTCTGATTATGCATGAG	9272
301	AGCACTTCCCCAGCTGTGA	3901	GCTAAAACCAATAACTACGTCAGATC	6587	TCTCTAGCAGGTCCAGCACTT	9273
302	TTTGGCAGGGGAATGGAAAGAT	3902	AGATGGGGCCACTGTATTGCT	6588	CTGCTGAAAGATGAATCACTATGAATTTGG	9274
303	GGCACAATTAGAGCAGTACTGTCT	3903	GAGTGAATACATTGAGGGCCTTGAC	6589	GGCCTTTAAAGGATTCTGGCACAA	9275
304	TGGCCCATCTATATCTCAGTGTGA	3904	CGCTAAGCATGATGCCAGGTTTTG	6590	TCGTAGCACAAGGAGAAAAATCATGT	9276
305	GCTGCTTATGCCAAGAGTGTAC	3905	CATCAGACAGCCTCGTGCAT	6591	GGGCCCTACCTATGCTGCTTTAT	9277
306	AGGTGGTTCGGTCAGTCTTAGA	3906	CCAAGCAGCTTAGCTATAGCATTC	6592	AGAATAAGGCAGGAGAGGTGGTT	9278
307	TGCTGCTCTTGGCTTGGTT	3907	GTAGCTTCCATCCAGTTAACTCAA	6593	GCATAAATTATACCTGCTGCTCTTG	9279
308	TCAGCCTGAACCAAGTCCAA	3908	GAGGAATACAACCTGGAATCTGGTTGA	6594	CCCAGTCTAGCTAGATGGAATT	9280
309	AGGTGACGCAAGGTAACAGTTG	3909	AGGCTCCAGTTTTGAGGTGACAAG	6595	TTGCCAAGGTGACGCAAGGT	9281
310	CCCCACAATCATTAAAGAGTCTTTACG	3910	GGTGAGAAGAGAGAAGTAATGGTTTCA	6596	AAGACCTTCCCCACAATCATTAAAGA	9282
311	GCACAGTAATGTCAAGGAGAGTTTG	3911	CTGACTAGGGTACTGTCTCTGAT	6597	AATACAACCTTGATGCATTTATTAGC	9283
312	GGAGACAGTCTTCTCTCAAGATCA	3912	ACCAATCTTGACCTGGGGAACTG	6598	GCTTTAAGGAGGAGACATCTTCTCT	9284
313	TGTTTCCATGTCAAGTTGATGAACCT	3913	ATGGCCAGTAAGGGGCTACT	6599	GCCAACCCAGTTGTTAAAGTATTGAAATG	9285
314	CAGGGACAGTCTGAAGAACTGATG	3914	ACCTTCTGCAGAGTCTTGATGT	6600	AGATTGGACAGGGACAGTCTGAAG	9286
315	AACAGACATGTACATTCACAGAAA	3915	AGTTGGGGAGGTAGATGTGTTTCC	6601	CCCCTCTTCCAGCTTTGTAACACAG	9287
316	TGCCCTCTGCTGACACAGA	3916	CCATTTACACCAGGATCGAGACA	6602	CCTTCATAAGCCAGTCTTTTCTG	9288
317	CCTGCCTCTCAGCCTGAAGT	3917	AGTCGCTCCAGGTTCAAAAGTG	6603	ATGGCCGTCCCTGCCTCTCA	9289
318	CACAGGCAGAAAGAGCATCTTTG	3918	TCTAGTCTCTGTTTGGAGTTTGG	6604	CCTTGAACCTCACAGGCAGAAAGAG	9290
319	ACTGTAGGTGGTTGTAGGAGTTG	3919	AGACATCAGTTCCTTGAAGCTGAA	6605	GGCAAAGAAGTGTAGGTGGTTTGT	9291
320	CCTGTACCCAGCCTATTTAATTCT	3920	TGCAGATGTCTAGGCTCCACTCA	6606	TCTACACCTGTACCCAGCCTAT	9292
321	CACACTGTATTAGAATCAGTGTGTTT	3921	AAAGTATTGACCATGGAGAGATCAA	6607	TGCAATTAAGCCATTACACTGT	9293
322	GCCTTCAATGACCTTTGACAGCTTTC	3922	ATGGGTTCTGGGCTGACAGA	6608	CCTTCAGGCTTCAATGACCTTGT	9294
323	GTCCACCCTCACATGGTTTCTATT	3923	GCCTTGGCCTCAATATGAGCTT	6609	TGCTGTCCACCCTCACATGGT	9295
324	TGCTGCTTGGACAGGTACCT	3924	AGCAGGTGAGGACTGAGGATT	6610	GGTCTCTTTTCTTGTGCTGCTT	9296
325	GGGTGGGGAAGCCTCTACA	3925	GTGGAGAAGGTAGGCTGACT	6611	TGGAATGGGAGGGAAGTCT	9297
326	CCTGAGTGTCCAAGATGGGTTT	3926	GCCATCCCATCTGAGTGTGAGA	6612	TGGTTGCAGGTAGATGGCTTCT	9298

327	CTATGCACCAGCCTCCTTCTC	3927	CACAGTAGATACTAACTGGTCTTACTGT	6613	GCATTAATGGTCATTGTCATCGTCAT	9299
328	CCCTCGCGTGCTGATAAGG	3928	TTCTGGGACGCCAGCAGAACTT	6614	GGGGGTTTGCTTTGGAAAGTTCTC	9300
329	GACCTTTTGCCACTTGAGACGAT	3929	GAAAAATCAATCCCTCCTTCCATGAG	6615	TGGGGCTTGCTGAGACCTTT	9301
330	CAACATAAAGCATGAGCGAAGGT	3930	CGTCACATCGTTTATGCTAACAGTCT	6616	GTCCCTGCAGAGGTCAAAACATA	9302
331	TTGTGAGGCCACTGTGTCTCA	3931	AACCTCGTGGGATCCCTCTTCTG	6617	CAGATACCTGCTCCAGTAGTTGTG	9303
332	TGCTAGACCCTCAGTTCTCCAT	3932	TGACAATTTTGGGCAC TAGAGACACT	6618	AAGCCCTCCCTGCTAGAC	9304
333	TGATTATGACTTGCTTGGTCAAAAGG	3933	TCATTCTGGACCCAGCTTCT	6619	CCCTGTGATTATGACTTGCTTTGG	9305
334	ACAGCACAGCTTTTGAGGGAAA	3934	GGTACTCTCTGAACATCACTCTGTAC	6620	GGCTTCTTAACAAACAGCACAGCTT	9306
335	ATCAATACATGGTGGTTTTGTTTCCTT	3935	GTGGGCTTTGGTGTGTAATTGG	6621	CCACGTAGATATCAATACATGGTGGTT	9307
336	GCTCTAAAGCCCACTACCATGCAA	3936	CCAGCGTGGCTCCGAGCAA	6622	CGCCGCTCTAAAGCCCACTA	9308
337	CCCGCTAATGTGAGTGCAGGATAAA	3937	GGAAATCTCAGTAGGGCATTTTGC	6623	GATGCAGTACCCGCTAATGTGA	9309
338	GGAAGCAAAAGATGGAAGAGGGAAAA	3938	ACACTATGTCTCTGCCTGGAA	6624	CCAGGAATCATCTACTTAACTATCTTCT	9310
339	CTGCTGATAAATTTTGGTCAACGT	3939	CCTACCTACTACACTTCTGTGCAGTT	6625	GCAACATCATCTTGTGTTAACTTTTG	9311
340	CCTCTGCAATAGAAGGCAAACT	3940	AGGGACCCATTGGTGAACAGT	6626	GCTCTCTTACCAGTGCCTTACTAC	9312
341	CCAGACAAAGGTCAGCCCTAAT	3941	TCCTGTGCCCAAAAGACCTAGA	6627	TGGTATCTCTCCAGACAAAGGT	9313
342	TCCACGTCTGTGTGCTGATC	3942	GGTCACAGCCATAACACAGACA	6628	CCTCTCTGAATCCACGTCTGT	9314
343	TGCTGGGACCCATGAACCA	3943	AGGTTCTCTGGGAGCTTGTGCATACA	6629	CCCTTACCTGTTTCTCTGACAA	9315
344	TTAGCCAGGCCTCCTCTTCTC	3944	ATGGGGGTTATGGTGGCAAGA	6630	ACAGAGAAAGACCACCTTTGTTAGC	9316
345	TGTCTCACTGGCAATTAAACTCTAACT	3945	TGGATGTGTTTTGTGTCCACCAA	6631	CCCAATACTGTCTCACTGGCAAT	9317
346	ACCATGGCCAAGCCTGTCA	3946	AGCATGGAGGCCGATGTG	6632	TGTGTGTCTGCCAGCACCAT	9318
347	TGCTGAAGAGTACCCCACTTTTG	3947	CCTTCTGTGCAGATTTACCTGATTGC	6633	GTGATTTTGAGATTTACTTGTGCTGAAG	9319
348	CAGCTCACAGGAAGCAGTCA	3948	AAAAGCCTGCCCTATAGTCACTAC	6634	GTGCATACATATTCCTTCACTACCTTGAA	9320
349	GTGAATTTCTGTAGGCAGCAGATAG	3949	AGATATAGACTGGCTGCTGTCTAGA	6635	GTGCTTATCAGGTGAAGTGAATTTCTTG	9321
350	GCTAAGGCAGCCAGTCTCTGAA	3950	GCCTCCACAGCAGTATTCTCAAA	6636	TGGGACCCAGCATTTCAT	9322
351	GCTTTTGTCTTCAAGTGGCAGAAAACAC	3951	CCCACTACCATCTCATTGCTTAAAGC	6637	CCAAACACATATGTTAAGTTAGCATTTGG	9323
352	TCATGGAATGGTATCCACAAGCA	3952	GGCAACGGAGCTATGCTACTCTCT	6638	GGTTCACAAAACAATCATGGAATGGTATC	9324
353	GGAACCACTGCAGTAGATCTATAG	3953	GTTTACTCTTACGTACTGCTGATTGC	6639	GCTGTACAACCTGAATAGGAAACAACAGT	9325
354	GATTGTGTCAGGAAACCT	3954	AGCAGCACCACACTGTAGTAGT	6640	AGGCTGGCTGAGGATTGTG	9326
355	GCCTCTTTGCCATCTCTACACTT	3955	GAGAGCCTACGACAACATTCCA	6641	GAGGGCCCTCTTTGCCATCT	9327
356	ACTCCAGCCAGGCAATTCT	3956	GCTGATAAACCGGATACAGCTTTCC	6642	TGTGTTCCCTTTGGCTTTTACAG	9328
357	CCATGCAGCAACATCTGTAGTG	3957	CCTGGCTCTCTGTGTAGCAATA	6643	CCATGTATCACCTATAAACTGCAGTTTG	9329
358	CAACTTCAAGTCCCTGGAGCAA	3958	TGCCATCACTGTGGTGCATT	6644	GGCAAGTGGCAGCAATATTTACC	9330
359	CCAGCTGTGTTCTCCAGACAA	3959	TCCGTGAGTCAAGTACCATGT	6645	CGGTCCCAAGCTGTGTTCT	9331
360	GGGCTGGAGCTCAGGATCA	3960	ACCCACAGCACCAGTAGTCAA	6646	GACAATTCACAGATTAGTAGTTGACTTCCA	9332
361	TCCACCTGCCCTCAGCAA	3961	AGGGGCTGCGAGAGCACTG	6647	CCGTTTTTCTCTGTGAGTCCCTATCTC	9333
362	GCAGGGAAGGGTACACAGTTGTATAG	3962	TGACCAGGTACCCTTGTTCAGT	6648	TGGGCAGGGAAAGGGTACACA	9334
363	TTTGGTTCACCTCATATCAGTTTCG	3963	GACTTGGAATCCCACTCCCAAA	6649	GGGGGCCATTTCAGATTTTTTTG	9335
364	TCCAAAACCAAGCTCCTCTGAA	3964	AGATTGGAGTTGCCATCAAGCA	6650	CAGGGAAGGCGGCCTAGA	9336
365	GCACTCCCAAGGTATGAACAGAT	3965	TGTGTTACCATGGAATCTCTGCA	6651	CGCATGCACTCCAGAGGTAT	9337
366	TGCTCTGAGCTACCATCTCCATT	3966	GAATGAAACAAGAAGGTCTAGGCTTTTC	6652	GCACCTCATAAAAAGATGCTCTGAGCTA	9338
367	GGACAGGACAGTGATGATTGCTAGA	3967	TGGCCAGGTCTCACAGCAT	6653	AGAAGGGGACAGGACAGTGAT	9339
368	AGGTGTGGAGGTATCGAAGCT	3968	GATGGCAGCTGAGATTCTGTCA	6654	GAGACTGAAGGGTGTGGAGGTA	9340
369	CAGAGCCCTAGGAACACTATGTCT	3969	AAGTCCGCACAGAGCTTTGGA	6655	CCTCCACAGAGCCCTAGGAA	9341
370	GATTAGCATGAGTGGGAACTGAGT	3970	TCAGAGGGCTGATCTCAATGT	6656	CAGTACATCCTGTAGATTAGCATGAG	9342
371	ACCCAAGATGGCTGCCAACA	3971	GACCCACAGACTGATACACTTGTG	6657	CCAGCTTGAGAGAGGACTGGATT	9343
372	GCTGACATGTTGCCCAAGACTA	3972	CCAGGACCTGGCCATCCT	6658	GTTTTTGGGAGTTCAAGTCAAGCT	9344
373	CCCTAGCCTTCTGCATCATAAGG	3973	GGGAAAAGGAATGCTTGATGGAAGTTC	6659	GGAACTGATAACCCCTAGCCTTCTG	9345
374	CCTCTCTGGTTTGGTGAAGTTACG	3974	TTGCGGGACCAAGCATCCAAAT	6660	GCTGGCGGAGACCTCTCT	9346
375	GTAGTGCCTCCCAAAATGTGACT	3975	CACCTCCCTGGTTGTGGAATAATC	6661	CCCTAGAGAAAGTAGTGCCTCCCAAA	9347
376	GACTTGCCCCAAATCTCTGATCA	3976	TCACCAGGGTAGGGCAATGT	6662	GGAGAAACTGACTTGCCCCAAATC	9348
377	TCATGGCTTGCCTTCAACA	3977	CTGAAGAGATGACCTAAAGCTCACA	6663	GCTCAGAATGCTTCTCCAGTCA	9349
378	GTTTCTGCTAGCAGTACTCTGT	3978	GGCAGAAATTTAGCACCGGAGTA	6664	GGTTGAGGAGCTGAGCAGTTTC	9350
379	GGTCACAGCTGATTGGACCAA	3979	GAAGAAATTTGGATGGCTCAGCTT	6665	CGCAGGACACAGAATGGGAAA	9351
380	GAGAGGAGAAGTCTCTGGAAGGT	3980	TGGCCGACCAGAGTATGAATC	6666	TCTTCTCATCGAATCTTATGGAATCC	9352
381	CCCATTTTGCAGTGACCTTTTACTG	3981	AGGTGGAGGCCATCTGCTTTT	6667	CAACCAAAACCATTTTGCAGTGA	9353
382	TTATTCTGCCACCGAGAATATTACA	3982	CGTTTCAAGTTGGGAGCAAGAAAGAC	6668	ACGGACACTCTGGCCTTTTAT	9354
383	AAACCTTGCCCTTCACTTGGAA	3983	GTTGTTGGTGGGTTGTTTATTGG	6669	CCACAGCTCCTGACTTCATAAAACCT	9355
384	TGCTGAGGGATATTTGGGGAGAGT	3984	CAGCCTCTCACCTTTCACTT	6670	GTGGGTAGATTATTGCTGAGGGATATTTG	9356
385	CCTTGAATCTGGCTGACTTGGT	3985	GAACCTCACACTGTAACTTTTATGCAA	6671	GGTCTATTTCCTAACCCCTGAATCTG	9357
386	TCTTCCACCCCATATCCCATCA	3986	GATATGGGCTGCAGGAAACCTT	6672	CCAACCTCTTCCACCCCAT	9358
387	GCTTCTAGGAGGTAGTGAATGTC	3987	TCCCAACCTCTCTTCCA	6673	TGGGGGCTCTCTAGGAGGTA	9359
388	CCACCAATTCAGGAAGCTCTCCAT	3988	TTGGGCTTGAGTGTGGATAGCT	6674	AGAGCCCCCTCTTAAACGT	9360
389	GGATGAAGGCAGATCCCTGAAACA	3989	CCTCGCTGTGGCTTATGACA	6675	ACAGCTTGGATGAAGGCAGATC	9361
390	TGAGATCTGGGATGCGTGCTT	3990	GCACAGGAAAAAGGTGGTTTCC	6676	AGGGCAGTGGTGGTGAGATCT	9362
391	TGGTGCAAGAGAGGGTTACTTCAC	3991	GGGGCTAGGGCAAGGAAAA	6677	TTCCAGGCAGAGGGCAATGAA	9363
392	AGAGTGGAGAGCAGGACAGA	3992	GTGGCTGAGGTCTATGCTT	6678	TGAAAGACATCCGGCCACAT	9364

393	GAGACTCAATCCTGGCACTTGT	3993	TCACTCCACTTTACAGGCACATATT	6679	AGGAGTGAGAAGGGAGACTCAATC	9365
394	GACATTGGATAGTTGAGAGCAAATCCA	3994	GACCTGTGGATTGGCTCAATTTCC	6680	CTGAGAGAATCAGGTGACATTGGA	9366
395	TGAATGTTCCAGGCAGAAAGGAAT	3995	CCATTGCCACCTGATTCCTTTGC	6681	AGGTAGGCCTGACTGAGAAGTTGA	9367
396	GGCTTTGAACAGGAACACACTATCC	3996	CTCATCCTGACTGCCTTTGCTA	6682	GGGGGTTGGAGAAATGATGGAAATACC	9368
397	AGCTGCTCCTGGGTCCA	3997	AGTGCTGTGGCCTCATTTGC	6683	GCTCAGACCCAGCAACAAATATTAC	9369
398	TGCTAATCTAAACATGGACCTGAGTT	3998	CATCAGTTCAAAGCCTAGACTCTCTT	6684	GGAATGTAGGAGGATAAAGTGGTATCAT	9370
399	CCTGATTCTGAGCCACTGTTCCAT	3999	CCTTCTGGCCTGGCCCAAA	6685	TCCCAAGGCCCTGATTCTGA	9371
400	CTTATATTGCTGCCATCTGGATTGAG	4000	TGTTCCCACTTTCTTCCCTTCTG	6686	CCTCTAAGCAGTGACTTAGAGATCCT	9372
401	ACCATAGGGCCTCTGTTGGT	4001	GGAAGGAGAAATAGCAGTGAAGGA	6687	TGCTCCTGGATGACACAACCTTC	9373
402	TTATGTGTGCTTTAGTTTCAAACACT	4002	CCTGGAACAATAGGCCCATGAT	6688	TCCCAGTGCACTTCTTGT	9374
403	GGAAGTTCTACTCAAGGCAGAGAA	4003	AAGGTAGCTGGGGCAAGAGTAA	6689	CTCACAGCATGGAAGTTCTACTCAAG	9375
404	CTCTCTGAATGCTCCCTCACATT	4004	CAGCAAAGCCAGCAGTAGTCA	6690	CCATTCCCCATTGGCCCATATTAG	9376
405	AGAAAAAGTTTTGTTACCACTTGAATG	4005	GACTGTGTGCTGCACTTCACTGT	6691	TGATAGGGAGGTGAAGGCTTTCTC	9377
406	CCACCACTGCCCTGATATGAC	4006	GTTGGTAGACCTTAGAGATCAATGAGT	6692	CTCAAGAACAGTGGGCAAAAGC	9378
407	GCTGAGGGTTTGAATGGGGAAA	4007	CCCTATCTTCCACTGCCTGTTAACTC	6693	TGGTTCCTGCTGAGGGTTTG	9379
408	GTAGATGACTGGGTGGTTATGAAAC	4008	GCTGCTTTTGTCTCCCTTTGAT	6694	CGATCCAATGCTACTGCTAGATG	9380
409	CCACAGCCAGCAGAAACATA	4009	AAATACATGTAGTAGAGGCTCTTTACG	6695	GCCCGGCTGATCAATTTTTTTA	9381
410	GACTATGCTCTCTTCAACAATTTGG	4010	GCAACTGTGCCCAATCATGCT	6696	CTCCACATAAGACTATGCTCCTCTTC	9382
411	CACCTCACAGGATGCACCAT	4011	GGCTTCCTTGTTTTTCCCTCCAA	6697	GGCCAACAAAATGTGCCATTCC	9383
412	ACCCAGCCCAATTCCTTGCTT	4012	AGGCCGCACCTCCACAT	6698	TCCCTGACCCAGCCCGAAT	9384
413	ACAGATAGCGCTTGTAAAGTTCCA	4013	GGTTGCCATTGTGTCATTTTTGA	6699	TCAGCACCAGGTTTTTACTACAG	9385
414	CGCAAAGGGCACTTGTGGAT	4014	CTGCTCAGAAGCTGCCTGATT	6700	AGATGCCTTGCTACCGCAAG	9386
415	CTGCTGAATTTTAAGGAGAGGAAGGT	4015	TGCTCCACAGGACAGAACAG	6701	TGCCCAACATAGACTGGAATATTCTG	9387
416	CCAGGGTCACAAAAGCAGACA	4016	TGTTCTTGGACAGGATGGTCTTC	6702	ATGCTGCCAGGGTCACAAAA	9388
417	GGCAGATCAAAGGAACAGGTTTTG	4017	TTCCAGGATGACCTTGTGTGA	6703	TCCCCAGGGCAGATCAAAGGAA	9389
418	GGGATGACAGTCAGGAAGTTTTGG	4018	AGTCTTCTTTGGGTGGACTTTCTG	6704	CTGTGTCTCTCTGTGCTTT	9390
419	GCAGTTGGGCAGCAGATATTGT	4019	GTAATAATTGTTAAAGGGTTCTGAGT	6705	TCAGGCCAATTATTACATACTGACTCAA	9391
420	TGCCAGCCCCACACTGT	4020	CTCCAGTGGGGTGGGTGTCAT	6706	AGAGCCATCACTTGCCATCCT	9392
421	AGTAGGGGAGGGGCACATG	4021	CTTTAGAGCAAATTCCTTCCCATCC	6707	TCTCGGATCCAGGGATTATACAGTAG	9393
422	GCTTTTACCAAAGAACGGCTGTTG	4022	GACGGTTAAATCTGCTTCTCAAG	6708	CCTTGGGAGTAAATCATCTTTCTTG	9394
423	ATGGGCTCTTTGTGCCACAA	4023	AGCTTGTGCTCTCTCCCACT	6709	CCAAAACAACCATGGGCTCTT	9395
424	CCTTTATCCCCATGGCAAGTT	4024	GCTCCATTCTCTGTCAGACAA	6710	GCTCATGCTCCCATCTAGCCTTTATC	9396
425	ATCAGCAATTGGCAGTTCTGT	4025	GCTCTTCAAATACGATCTCCTGAAGC	6711	CCCTGCCTCACAATTCAATTAGGA	9397
426	TGGGCCCCACTGGATGTAAAGT	4026	ACGCAGCTGGAGATGAGAGATAGT	6712	GGGATCTTAAACCTCTCTGAGATAGAC	9398
427	ACTCACAAGGGTGCAAGGAATG	4027	GACTTGTTCCTGTGTGAAGCA	6713	GCAAAAGAGTTAGGTGCTGACTCAC	9399
428	AGAGCTTCAGACCTACTGACTT	4028	AATGGCACAGTTGTCCAGAGAA	6714	TGCTTGTCCAAGAGCTTCAG	9400
429	CAAGTGCAAAACATCATGGTTGGA	4029	CTGCACCTGGAGGACTCTGA	6715	CCAAACACATTTATATAGAGCACAAAGT	9401
430	ACGGTGGTCATGTCTTACCA	4030	GTCCACAAGTTCAAGCCAACAG	6716	GCAACCAAGCAAGATTCTGTCTCA	9402
431	TGGCCACACAACAGGCTCATT	4031	ATTACATGACACCTTGATCCT	6717	CAGAGGTGGCCACACACAA	9403
432	GCCAGTTAGTCACCTGTGTGA	4032	AGGAACAGAGGCCACAGAA	6718	TCCTCGCTCTGCCAGTTAGT	9404
433	CACACCCAGGGGATGCTT	4033	TTCAACCTGGGATAGCCTCATGAG	6719	GCCAGAGGTGCCCTTTACAG	9405
434	GCGCTTTCTCCACACTGTGTT	4034	AAGAGCCGTCAAAGGGATGATC	6720	GACAGTAATTCTGGCGCTTTCTC	9406
435	TCCTGCAGTAGGCAAACTTC	4035	GCTACCACCTGCCCAAAGT	6721	GGGTCTTTAAAGTCTTCTAGAAAAGTCT	9407
436	GAGATCTTAAAGGTGTCATTGTTATAGC	4036	CCAGGTGTTGCTAGCAGTACTC	6722	ACCCTGAGATCTTAAAGGTGCTATTG	9408
437	CAGAAGGGGTAGAAAACAGCCTTTC	4037	ACAGTGACAGTTAAGAGGTCTTTGTC	6723	CTGCATGACAGAAGGGGTAGAAAAC	9409
438	CCTGAGACACACTTAGTCACTCCTACT	4038	AGGGTGGGGATCAAAGGAAGTT	6724	CTCTATCCCTGAGACACCTAGTCA	9410
439	TCAACTGCAGACCCAGAAACC	4039	TGGGACAGGGATCCACAGGTA	6725	AGGGGGCCCTCCTGTCAAA	9411
440	TCTTCAGCAGGTGTCAACAGAT	4040	CTGTGAAAACCTGCCACACA	6726	CGCCAGCCCCTTCTTCAAG	9412
441	ATGGCTACAGACCAGGAAAAGG	4041	TGGTGTCTGGGAGCCATTT	6727	TGTGAAGGACTGATGGCTACAGA	9413
442	TCAGGTACAGCTCAACCCATCA	4042	GAGGGACCACTTGACAGTATTGT	6728	CCAAGCTATTTTGGCTTCAGGTACAG	9414
443	GGGGCTGCCAAAAGTAAAACC	4043	TCAATAAGATTTTAAAGCAACCCACAT	6729	GCTGTTGGGGCTGCCAAAA	9415
444	CTCTGCAACTGTTCTTTGATCCTCTAG	4044	AATGAGCTGTGATTTGCTGTGTT	6730	TCCCCTGCCAACTGTCTTTGA	9416
445	AGCAGCAAGCAGCTATTCTG	4045	CCATTCTGTAAGGTGAGTTGT	6731	TGGCTTTTGAGCAGCAAGCA	9417
446	AGCAGGGATCACAGCATTATACTC	4046	TGAGACGAGGTCTGTTCTGTT	6732	TGTGGTGAGCAGGGATCACA	9418
447	AGGCCACACACCCCATGA	4047	GCCTGTCCAGCAATGGCCTAGA	6733	TGGCTGAGACCTGGCATCT	9419
448	TCACTGGCTTCTTCCCTGAGTAAG	4048	GGCCTATCAGTCAGGTGTTTAAAGTG	6734	GGTGACACACATGATTACTAATGCTCTT	9420
449	GTTGTTCTCTGCCCCCTCCA	4049	TTGGCCTCTGTCAGCAAGGAT	6735	CTCTGAGAGCCTTCATCTTTGGT	9421
450	TGTTGTGGAGTGAGTGCAAGTT	4050	GATTTTACAGGCACCCAGCTT	6736	GCTTGAATCCTTGTGTGGAGTGA	9422
451	AACACTGGTCTCTGGTAGAAGGA	4051	TGAGGAGGAGTGTAGGGAATGA	6737	CCAAATGACAGAAACATGCTGTCT	9423
452	TGACCCCTCTGGCTATCACATT	4052	AGCCTCTGGGACCAAGGACAAA	6738	TGATGAGGTGAGGCTCTGTGAT	9424
453	CACCTGGGAGGGGTAACAAGGA	4053	AGCATGGAGGCTCTGGAGTGA	6739	TGGCCAGACAGTGCAGAA	9425
454	ACAACCTCTGAAGTGAGCGTTGT	4054	GCAGCTTCTCAAACGTAACATG	6740	TGCTGTGCTGTGCTGTTATCT	9426
455	GCCTGACATACATCTGGGAAA	4055	AGCTCACAGATCTGGGTCTGT	6741	GCTGACAAAGAGCCTGACATACATC	9427
456	CCCTGCCTCCCAACAGTGA	4056	CCTGTGGGAGGAGAGGTCAACAT	6742	GGTCAAGGAGGGAGGAGAA	9428
457	AGGCTACACTCGAGGGATCTCT	4057	GGCAGCGTTTGTGAATGTACAG	6743	CGAATGGTACTTTTAGCAGGCTACACT	9429
458	TCATTATAGCAGTGCAGGAATGGA	4058	ATTACAGCTTGGCCACAGAGT	6744	CCATAAGCCAATTTCAGCCTCTTTATAAA	9430

459	ACCTTGCCTGGTATGGGTTGAA	4059	CCAAAACAGGCAGACCATGTCCTT	6745	TGCTGTACCTTGCCTGGTAT	9431
460	AATAAAAGTCCTCTGCCGAAGACA	4060	AAGGGCAGGGGAAGGAAAGG	6746	AGGTACAGGGCAGAGGATCAG	9432
461	CCTCTTCCCTTTCTACTGTCA	4061	TGCCAATGGGAGGATAGGGATACT	6747	ACCAGGTTTCTCTTCCCTTTCT	9433
462	ATGAATCCTGGCATGTAGGTGAG	4062	GCTGTCTCCAGAAATCCATGGT	6748	ACGCTTTGGCTCTATTCTAGCT	9434
463	CATGTATAGCCCTTCTCTTTCTT	4063	GGGAACCCAGGCATGTGA	6749	TTCTGTCTCCATTTCCCTTTTCTCA	9435
464	CAGCATGGGAATTTGGGTAGACA	4064	CCCATGTGTGCCCATTTGC	6750	CCCCATTCTGTAAGGCTCTAC	9436
465	GGTCTCAGACTAGGCAGAATTTGG	4065	TGCCCTGCCATCCGTCAT	6751	GAGGTGAGGCTGGGTCTCA	9437
466	TGTGGACTTTATTTGAATGGAGACTGA	4066	CCCATAAAGAGATGGTGCCAGTT	6752	GCTCTCCAAAGAGAATGTGGACTTTA	9438
467	TCTGCAGGCCATCTCTGCAT	4067	CGGAGGAAACCAAGGTCCTT	6753	CATTGTCCAGCCTTTTCTTAAATGG	9439
468	ACCAGAGCCCTCCATTCTAAACT	4068	GCTTCGTGCTTTTACCTGACTGT	6754	GCCACCAGAGCCCTCCATT	9440
469	CCAGGAGGCGGGAATCAC	4069	ATTCCTGCCTCCTGGTAACGT	6755	GACTGCACGAATGTGTGAAAGC	9441
470	CTGATCAAATTTAGTCTGGATGTGACCAA	4070	CCAGTAAAGCAGCTCTGACTTGGGA	6756	AACAAAGGCTGTCTAGAAAAATCATATT	9442
471	TAGGTGCCATGGCCAGACA	4071	GCCGGATACAGTGAAGATTCTAATC	6757	ACAACCATGGAGGGCTGCAA	9443
472	GCAGAGGCTCTGTGCTATGT	4072	CTCACTGTTCTCTGTCACTCACTTTT	6758	GCACTTTTCTGTGTGAAGGAACAG	9444
473	TGGGGGAATGAATGGAAGATGAG	4073	GCACTGGAGGAGTCTACATAACCA	6759	GAGAGGGTCATATATGGGGGAATGA	9445
474	GACTACCTTTTGAATTTGGAAGCA	4074	TCCAGTGGAATGGCAGACT	6760	CCAAAGGCAAAGACTACCCCTTG	9446
475	CAACAGACCTGGCTAGGAGCTA	4075	TTTCTAGCTGGTTGGTTGGAAC	6761	TGTTGGCTAGTCTTGCAACAGA	9447
476	AGCCCTGTGGTGCCAAAC	4076	TGCATGTCTAGAAGAGGGTACAG	6762	GAAATTTTCTTGGAAACGCAAAACCA	9448
477	CTGCATGAAGTATTCTGCACTACTG	4077	CCTAGTCTCCTCACTGGGAAATAGGA	6763	CCTGGACACTGCATGAAGTATTCTG	9449
478	CAAATCCCTTTGGCTAGAGAGAA	4078	ACTGCCATAGCTCACAATCTC	6764	CCTCTGAATTTCAAACCTCCCTTTTG	9450
479	CACCTGGGTTAGATCGCCAGTTT	4079	CCTTGATACTGAATAAGTTCTGATCCACTT	6765	GGCATAAGATTACACACTGGGTTAGATC	9451
480	TCCTGTGTGATGTGGGGGAATAT	4080	CCAAATGTATACCCATAGTTAAAGACGTT	6766	TGAACACTTTTCTGGTGATGTG	9452
481	GCTAGGATTCCTGGGTGTTCTGTT	4081	GTGAGTGGTCCAAAGTGACTTGAT	6767	CTGGCCTGGCTAGGATTCCT	9453
482	TCTGGGAGCCGAAATTTCTTCT	4082	AAGCAAGGCTGGATCCTGTCT	6768	CCAAACCTATTCTGGGAGCCGAAA	9454
483	GAACCTACCAAGGTAGCCAGATGT	4083	CTCCAGGGTGGCATTACAG	6769	CGCTGGTAAAGTTGAGTCTATTTTAC	9455
484	CAAGATGCCATCAACCCATACCTT	4084	TGGGTAGTGGTGAGGAGAA	6770	CCTATCTGGAGCCCAAGATGCT	9456
485	CCCGGCCATCTGAATTTTATTGC	4085	TGGGTAGCCCTAGACCTTTACTTC	6771	ATGCCCGGCCATCTGAAT	9457
486	AGAGGACTGGGCTCTTGCTATT	4086	AGGATTGCAATGACTCCCATATGG	6772	AGGTGGAGGAGGCTTGAG	9458
487	CTGGGGCCAGTCATCCCTAT	4087	TGGAACAGCCAGGGATGGTACAT	6773	GGAGCGGAAGTGAGCATGT	9459
488	TGAGGCAGGGTGGGCTATCA	4088	TCTGGCAAGGGGACAGTGT	6774	GATTTTGGGAGGACAGGAAATTAAGAG	9460
489	TGCTCAGTTCACCCAAACC	4089	TGCCTAGTGCTCTGTGGTGTCT	6775	CCTGTGTGCTCAGTTCCA	9461
490	AGGCTATATGAGAGCAGGCTAATCT	4090	AGTGCTACAAGAGTCAATTGTGCT	6776	GGGTGTGGGAAGGCTATATGAG	9462
491	GCAACGGGAGGGGAAAAGTTTCT	4091	CTTGAATGACCCCCATTCCT	6777	GGTACCCGCATGTGTGCTATGG	9463
492	TCCCACCTCTGTCTCTTGAGA	4092	GGGGTGTGGCCGTGCTT	6778	ATCCCTCCAGCCCAACT	9464
493	CCCATTTGGCCATAACTCAGCTACA	4093	CCCAAACCTCTTTGCAACTAAATGG	6779	CTATCTACATCCCATTTGGCCATAACT	9465
494	GGGGCCATAACTTCTGGATTGTGT	4094	CCATGGCAATGACCTGGAAGT	6780	AGGGAAGGGGCCATAACTTCT	9466
495	ACCTCTGAGGCAAGGACCTT	4095	TGGAGAGCAGGGGGACACAAT	6781	CAGTTAGGAAGCCGATGAATTAGTTT	9467
496	CTAACTGCACAGAGAAGAGCAAATG	4096	GCAAAGGGAGGCACAGTTCATT	6782	CAACCTACTAACTGCACAGAGAA	9468
497	CGCTGTTTCTGAATGGCAATTAG	4097	GTACCAAGTTTTCATTAATGGGAAGCA	6783	CTCTGAGCGCTGTTCTCTGAA	9469
498	CTGAGTAGGACAGTGATGTTGTCAGA	4098	GCACGTGCTGATTTCATCATCAAGGA	6784	GGAGCCACTGCAGCTTTCT	9470
499	AGACCTCTTCCGCTCTTTGTTT	4099	GGAGATGGGACCTGCTTGCT	6785	AGGCATGGCAAGGCTACCT	9471
500	GCAAAATGAGAGTAAATGCTGCTGAA	4100	ACACAGAGAGCAGAGGGGTTT	6786	CTCTGATTCTGTTTACAGCAAAATGAGA	9472
501	CCTCTAAAAAGCCAGTCCCTCTT	4101	CAATAGCCGCTTCTTGAAACAC	6787	CTCCCTGCCTCCCAAAATTTAA	9473
502	AACCCAGAGACACACCTATCCT	4102	TTCTTATGATGCCCCATGTGT	6788	AGACCACACTCAACCCAGAGA	9474
503	GCAGGTCTATACAATCTACCCACAA	4103	CAACTGGCCAGCCTGTCA	6789	TCCATGATAAGCAGGTCTATACAATCC	9475
504	TCCCTGTCTTGACGCTTAAC	4104	TGGAATTTCTCCCTGGGGTATGC	6790	AGCGGCATCCCTGTCCTT	9476
505	CAGAGGGTAATAAGTGGCGCCTTA	4105	GCCACTGCTGCTGTCTACA	6791	GCTGCCTAGCTGGGTAACTT	9477
506	ACCCACGTGGTCTCAGAGTCT	4106	ACCTTTTTTCTCCATGCAGCTAAT	6792	GACAATCGGATGAGGAGCAGATAC	9478
507	AAGCATTCCCTTCTCTGCAA	4107	TCTCCAGTGCAGGGCCAAACT	6793	GGAACTGAGGAGGCATTCTCA	9479
508	ACCCCTCACTTCCAAACCTTTTG	4108	GGGAGCTACTGTTACAGGTGTTAG	6794	CACAGAATTGACCCTCACTTCCA	9480
509	CTGGTGGCATGAGCAACTTATAGT	4109	CCACAGAAAATACCACTGCTCTGAAC	6795	ACTTTCTGGTGGCATGAGCAA	9481
510	CTGACTTCTCCCCCTCAATTTTCT	4110	GCTGGAAAGTAAATGGTGTCACTTA	6796	AACCCACCAAAATCTGACTTCTT	9482
511	AGGAAACGTCCCCCTGCTACTA	4111	CACAATCTCCAGTATCCTGTTGCT	6797	GGGGGAGGAGGAAACGT	9483
512	GAGTAGATTGGAAGGGGCAACAG	4112	GCCCAAATGATTGACACAGCTTTCT	6798	GTGCTATGTGGGGAGTAGATTGGAA	9484
513	CTGACAACACTCCCAGCAAGT	4113	ACCCAGATCCTCTTCGAGTGA	6799	CTCTGCGCTGCAAAAGTTGTC	9485
514	GGATGAAGGCCAGGCTGTAG	4114	CAGAGAACATTCACTGCCTTACTCT	6800	CCCACTCTCATAATAGGTATTTGAGGAAA	9486
515	CGCTTAAGTGTTCATTGCTATAACAC	4115	CCATAACCCCGGTTGTAAGTAAACA	6801	CAGGTATTACGCTTAAGTGTTCAATGC	9487
516	CCTCTCTCAGATGCTGTTTCT	4116	ATGGGTCCAGTGGGTAAAGGT	6802	CCAAGGATTTTCTCTCTCTCAGAT	9488
517	AGACCTACTATCCCTTGCTTAGA	4117	CAAGCACAATCAGAAATATGTGGTTTG	6803	TCCCTAGCTCTGAAGACCTACT	9489
518	GTTCAAACGGTGCTAGCTTAGAC	4118	GTGACTGTGGGAGCCTTTTCA	6804	GCTTGTGAATCAAACGTGAAAGCT	9490
519	ACAACGGTAAGTGATGATCATGTCT	4119	AGGGTGAAGCCAGGTGAGTGT	6805	GTGGTCCCAACACGGTGAAGTGT	9491
520	AAGTTGGTCAGGGAAGGCAGAT	4120	CGCTTCTTCCCTTACTGCATTAGG	6806	GGAATGGGGTCTATGTTGGAAGA	9492
521	CTTGGCACTGTCCAGTTCTAA	4121	GGACTAAAGGGGTTCTGAGACA	6807	CCCCAGTTTCTGGCACTGT	9493
522	CATGACTCATAGACCTCTACTCAAC	4122	AGGTGCTTACAGGACATTTGG	6808	GAATTTCAATTCATGCCTACGACTTCA	9494
523	GCAGGCTTCTTGAGGTCAAGGA	4123	CCAGCAGGCATACCATACAATAGA	6809	CCTTGCTAGATTGCAGGCTTCTTG	9495
524	ATGGTGACTCGTGGGGTCAT	4124	TCTCTCTCACCTGTCTGTTT	6810	AGGTGGGGGTGATGGTGACT	9496

525	AGCTGGATCCTCCGGACAAAGA	4125	AATCCCCAAAGCCTACTTAGAACTT	6811	GGAGGGTCTAGAGCTGGATCCT	9497
526	GCCTTCTCGACCCATCTGTGATAA	4126	CCCCCTGTCTACCCCTCCA	6812	CAGGAGGCGCTCAATTGG	9498
527	CCTTTACCTTGACACGGGACAAAC	4127	GCAGAGAGCTCTCGGGTGAAATTA	6813	GTTTTAAAGGTTCACTGCCTTTACCT	9499
528	TCCCATGAACCACTTTTCTAAGG	4128	CTTTCTACCCATGACTGTGAGCAT	6814	GGAGATCTTCCCATGAACCACTT	9500
529	TGTAGAGAGCCATGTCCTGAA	4129	TGCAGCAGGACTCTCACCTTGA	6815	AAAGTGGTGGCTCTGTAGAGA	9501
530	TGTTCCCTGCAGATACCAGTTATTG	4130	CGTTGCTACACTGACATGCACTAC	6816	GAAAGTCTTTGTTCCCTGCAGATAC	9502
531	ATGCAGGCTCTGGATTGCA	4131	AAGTGGCAAATGAGCAGGAAAC	6817	CCCACAAGTGGCAGAGAAGAAAA	9503
532	GGTGAGAGGCAAGAGAAAGTCTT	4132	CAGCCTGGATTTCTAGCAGTATC	6818	GCAAAGAGAAAGCATTTGTTCTTTCC	9504
533	GGGGGAGGCTTTATTCAAAGGAGAA	4133	GGTGGACATTTGTGGGTTTTAG	6819	GCTATGGGGGAGGCTTTATTCAA	9505
534	GGCAGATAGGGAAGAGTCTAGACT	4134	CCCAGCCTAATACAAAGCCCAGTT	6820	ACAAGCTGGCAGATAGGGAAGAG	9506
535	TGGCTCCTGAACCTTGGCCTT	4135	GTCAGCACCCGGGAAGATGAG	6821	CAGACATGTCATGGCTCCTGAA	9507
536	TGGCTTCTAGTGGCCTTTTCC	4136	GGTTCCTGACAATGAAATGAGGGATA	6822	GTGGCAGTTCTAGTGGCTTCTAGT	9508
537	GCCCTTGGTCTTCTACAGTA	4137	AACTCAGGCAGTCTGGGGAATG	6823	AGACTCAGCTGGAGAAACAC	9509
538	TCTACACTTCTACACAGCTTCAC	4138	CTGGAAGAATGCACAGCTTTGG	6824	CTGCCATGACAAATCCTTCTACAC	9510
539	TGGGAGGATGTTCACTTCTAGCT	4139	GGTGGGAGGGTAAATCCAACTGT	6825	GGGACTACGATGCCATAATAAAGAAATTTG	9511
540	ACCGGTAAAGCAGTACTACAGGTA	4140	CTCCAGTCTCCTGAAACACACT	6826	CCTAGAGAACCGGTAAAGCAGTAC	9512
541	GCTACCTCGATCCACTTCTAACA	4141	CTGTACTGCAAGGGGTGATAA	6827	AGGCAATTGCTACCTCGATCCA	9513
542	TTAGCACCCCTGCGGCTTTCA	4142	AGCAGCCGGTTTGGATTGTA	6828	GTGACTACAGGAGCAGCATATCTG	9514
543	GACAGCTGAAAGGGTGGATGT	4143	AATGAAGCCAGTGTGTCTACCT	6829	CAGGCAGGACAGCTGAAA	9515
544	GCACAGCTAATATGAGGGCAGAGT	4144	CTTCAGAACCATTTCCTCTCTGA	6830	TCTTACCATAATTCAGAGAACAGTACAT	9516
545	AAAGCCACAGGACTGGAAGAGA	4145	TCAGCTATGAGTGGGCCCTTCT	6831	ACTTCTGAAAGAAAGAGGCCAAGA	9517
546	GTGAGGGTAGAACCCAGAATCAATTCC	4146	GCTGATGAGGAGCTTCTGTCTT	6832	TGGTACAGTGAGGGTAGAACCA	9518
547	GACTGGCATTACATCTAGTCACTGT	4147	CACTCCAGAACCCTGATGATACAG	6833	GCCGTGATTATGACTGGCATTACATC	9519
548	GGTTTTCTCTGTTCTCCTTGGT	4148	ACCTGACTGCAATTCACAGAAG	6834	CCTGCATTACAAATGTTTTCTCTGT	9520
549	GCTTTGTTGCTACTGATGCATTG	4149	ACTCTTAACTCTGAACGTGATGGTAA	6835	GCCTTCTCTCTCTGCTTTGTT	9521
550	CTGCAGCTTTATTTTACACACTTGCT	4150	TGCTGTGACGCCATCTCTAGG	6836	CAAGGAGTGAAGTCTGACTGTTAAATCT	9522
551	CTCATCAATGCCTCCTTCTTGAAC	4151	CAGGACAGGTCTAGATTGCATTAGG	6837	CCCCCTCATCAATGCCTCCTT	9523
552	CCCACCAAATACAGATAGCTTTGAG	4152	ACAGACATGACCAGGGACTTCA	6838	GTGACTCCACCAAATACAGGAT	9524
553	CCTGTCTATGCACCCAAAATTATGCT	4153	AGCCATTGAGCCCTTTTGT	6839	TCCCTGTCTATGCACCCAAA	9525
554	CCACCTGTACCCCTGGTATGAA	4154	TCTAGGGGCTCTTCCAATCCAT	6840	CCACCTTACCCACCTGTAC	9526
555	TTTCCCCATGTCTTCCATAACC	4155	GAAATGGAGGCCCAGAGAACA	6841	TCTGCGATTTTCCCCATGTCT	9527
556	GCCAGAAGCCAGGTGTCCTT	4156	GGGAAGAGAGAAGCACTTGGTCAA	6842	CGCACCCGGCCATTATTATAA	9528
557	AGTCCCTGTGTGAGTCCAAC	4157	ACTACTAAGTACCCTACCAAAGA	6843	TTCTGCTAGTCCCTGTGTGA	9529
558	CACCTATGCCACATACACACA	4158	GTGTAAGAGAGGATGTTGGCACTATC	6844	AACACATACATGTTAACACACCTATGC	9530
559	GCCTTCTATGTTTCTGGCCAAC	4159	CCTCACTGATCTGGTGAATGT	6845	CCTGGTAAGTTTGCCTTCTATGTTTC	9531
560	ACATGCTTTGAGCTCTGATGGTT	4160	CCCCAAGTTGTAGCACTCTAGTT	6846	GGGAAAGCTTCTACATGCTTTGAG	9532
561	GCCTCAAGCTATGTCTGTCTGCAT	4161	GCCCAAGAAAAGAAATGGCATGA	6847	ACTGTACACTGGCTGTTTTGCA	9533
562	GCATTGCAACCTCCATTCTAGCT	4162	GGGTCTGGGTGGAGAAAATTCA	6848	TCTTGGCATTGCAACCTCCAT	9534
563	CAAATCCTCACCTTTAGGCATCA	4163	ACCTCCCACTAGTCTGGTGAATG	6849	GTGGACGAGGAGAAATGAGAGCTT	9535
564	GTCAGTCCAGCCAAAATCCT	4164	AGCCCTGACTGGTGGTTA	6850	AGTGCCGCATCCCTATGTCA	9536
565	GCTCATCTTTGTATCTCCAGCAGTGA	4165	CCAACCTGCTCTCTGATTCC	6851	CCTAACCTTAGGGGATGCTCATCTT	9537
566	CTCAGCTTCTCATCTCACAAAGGA	4166	AGGCTCCGCTCTCTGTCAT	6852	AGGGCACAGGGCTCAGCTT	9538
567	GATCCCCCAGTTCCCTCAA	4167	GCTGGCTGCTCTCATTGACT	6853	TGGACTAGAGGATCCCCAGTT	9539
568	GGAGATTCTTGAACATGGAGTCT	4168	AGGGTCTGATTTTTCCCACTATCC	6854	TGCTGGGAGATTCTCTTGAAC	9540
569	GCCCACTCAGCTCCACACAA	4169	CTGTAATGGGTGTAGATGTCAGACA	6855	GTGGTGGAGCAAAGTTCTCTAGA	9541
570	ACTCCCACTGATCCGACAACTAT	4170	GCATTATTTCTAGTGGCTTTTGTCTT	6856	GCTCCACAGAATTACTCCCACTGATC	9542
571	CCTCTGCACTTGCTTGTACGT	4171	GTCTTCTAGGACTGCACAA	6857	TCTGCACCTCTGCATTGCT	9543
572	AAAACCTCCTGGTCCCTTCCA	4172	AGCCCTGGTGGTGCCTGTA	6858	CATCACCTCAATTCTGCAGATG	9544
573	CTGGAAAATTCTGTGGCAGGCTAT	4173	TGACCTACTTTACACATAACAGTCCAA	6859	GCTGCATCGAGAAAATAAGAACTACT	9545
574	GAAGGTGTCTGACTATGCCAGTTC	4174	CACTAAACCTCCAAATAGACAGACTTC	6860	GGGAGAACTGAAGGTGTCTGACTAT	9546
575	AGGGATGGGGAACAGAAGCA	4175	ACAGACCACCTGCTCTGAGT	6861	GCCAACACCTGCCCAAGTTG	9547
576	ACCCAGAGGACCCTGATCTTA	4176	CTCCACAGTGTGAGAGAGTACT	6862	GCAACATAGCAACTGAGGCTCAGA	9548
577	ACCTCTCCCTCCAGAACAT	4177	AGACGTGGTAAGTCCCAGGAAGT	6863	AGGGACTCTGCCCCTAGCT	9549
578	TGAAATCCCGTGAAACCTGTGA	4178	GGGGCTTCAGGGGGGTTT	6864	GCCCTTGAAATACTGTGAAATCC	9550
579	CCCCACTCCTATGTTTAGGACAT	4179	ACTGGGCAAAATGCAGTGATC	6865	ATGGACCCCACTCCCTATGTT	9551
580	GGAACCTGCTCTCAATTGTGA	4180	CTCATTGGTCAATCTGAAATGGGATAC	6866	GGCACAGCTGAGATGTTGAATTACTC	9552
581	GGGTGTCCCTAAGATGCAATCAC	4181	ACACGTGTGCTCTGCTTGT	6867	TTTGGGCGAGGCATCACA	9553
582	CCTTAGTGCTGGTGCTCGTT	4182	GGCAGATCCTCTCCACCTAGA	6868	ACCCACTGGATTCTCCCTTAGT	9554
583	TGGCTGCCAAGTGGATGCTT	4183	TCCTGCCAACAGCCTCAT	6869	CCACTTCCAAGAAGATAGTTTCATTATCA	9555
584	TGCTTCCGGATGTCTACACCAA	4184	ACTCAAAGCATAGCCTCCTCATT	6870	CCTTTGCTGCTTCCGGATGT	9556
585	GCCTCAGGCACAAGTGTGCT	4185	GAGGAAGGCAAGTCTGTTGCT	6871	TGAAGTTCGACCTGAAAGAACAT	9557
586	CCGTCCTACCTCTAAACACAGAACA	4186	GCTTTGCTCTCCACCTCCTAAG	6872	AGCAATCCCGTCTACCTCTAAAC	9558
587	AGAAGGAACCTGACAGCTCTGT	4187	CCCAGATAGCTCTCCATCTTCTGA	6873	CCCAGGCATGAGAAGGAACCT	9559
588	CCAGGGGGAGGCCACTTA	4188	AGTCGCCATCTCTTCTTGCTT	6874	TGGCTGACGCTGCAGTCT	9560
589	GTGGCATGCAGTCTAGGAACCT	4189	TGGCTGGAGTGAAGGGATT	6875	CCTGTGTGGCATGCAGTCT	9561
590	GCAGCCTTCCCAAGTGAAGA	4190	AGCACATGGGGATGACATGTCT	6876	GGGTTACCTCAGCTGTGTGCA	9562

591	CCCCCTGAAAAGCTTGTCCAAT	4191	TGAATCAAATCTTCTGGCGTAGGA	6877	GCATTACAGTCCCCCTGAAAAGCT	9563
592	CCTGCACAGGGCTCTGCTAT	4192	TCITTTACCAAGGGGCCAATCA	6878	CTGTCACAAAGGGCTGCTCTTAATAAAAT	9564
593	ACCTAAGACTAGTGCCGTGAAGT	4193	TGCCCTGTGCAAAGGAAACCA	6879	CCTTGCTGGTGAGACCTAAGACT	9565
594	GCCAACCTGACAGTTATCTGGTGAAGTC	4194	AGGGCTCTGATGCAGCAAAAG	6880	TCGTCTTGCCAACCTGACAGTT	9566
595	GCTCTTTTGGCCCACTCTTCTCA	4195	GCCAATCACATGTGGGGAGTATTACC	6881	CTGTCAGGGTCTGCATGTGTAT	9567
596	TCCAAGCAACCCCACTTGCA	4196	CCAAGTTAGCTCTAGGGCTTAGGA	6882	CACITTTTCCACTGAAGATCCAAGCA	9568
597	GCTGGAACCTCAAAGTCCCAGAGT	4197	CAGGATGCTGGCAGAAATATGC	6883	CTGGGAGCTGGAACCTCAAAGT	9569
598	TCAACCAATCACCAGATAACTGTTGAT	4198	AGAAGGGTTCAAGGTCCATAAAGG	6884	CCTTTTTCTCTCTTTAATCAACCAAT	9570
599	GCAAATAGTGCTGTGTGTAGTGAATACA	4199	GTGCACACCCACCCATACA	6885	CCTGCTTGTTATAGGCATGAAAATG	9571
600	GGGTGATTCCGATGCTCACTTA	4200	ACCACTGTCTGATGATCAATGAGTTTC	6886	TCAGAGGCTGTACCTTGACAATC	9572
601	CCAACAACCATGAGTTTGTTGAG	4201	TGTCAACCAAGGTGCATTCTGT	6887	TGACATCCAGCAACTAGACAGAGA	9573
602	ATGCGGGCTTGCTGCATA	4202	GCTTGTGTTTACAACATTGTGGTT	6888	TTCACTTCAAGTTTTCAAGCTGCATA	9574
603	GGGCCACTTACTCAAAGCTCTTG	4203	GTCATATGTCATGACCAAGGACCTAGA	6889	CACITTCAGGGCCACTTCACTCAA	9575
604	TTCTCTCTGAGGGCTTGCT	4204	CTGCAAGCCACCCCTACTAAG	6890	TCAGCTCCTTCAAAGCAAGGT	9576
605	CAAGCCATGTCTAGAAGGAAGGT	4205	CCAGCCTTCCCTTACCTGTCT	6891	GGTCACACACAAGCCATGTCTAGA	9577
606	CTGTCTCGAGATTCCTTTGAT	4206	CAAATACAACCCCTAGAGCCACAT	6892	GAAAGAGCATTGGATTTTATGGAGCAA	9578
607	CCCAATGAAGAGAGCATGGCATT	4207	GCCACGCTGAGTACCTTATGCCATT	6893	CCAGAAAGCAGGTTTACACCTTTAGC	9579
608	GGCTAAGCAACACATGTCTAC	4208	AGCCTCGCACGCCAACGA	6894	GTCAGACTGGCTAAGCAACACA	9580
609	GCACATTCTGCCCCCAGATATT	4209	TGAGACCTGGAAGAGCAGAGAAGA	6895	GCTTCTGCTTCTCTAGACAT	9581
610	CAATATGGGAATCAGAGGGACTTAAAC	4210	GCAATTTGGGAATTGGGCTCCAT	6896	TCACTTTATAAACTGCAATGGAATTCAGT	9582
611	TGTCCTGGTCTCTCAATGTC	4211	ACATAGTCACTCATTTGACAAGTGTTT	6897	CCTGAAGCTCAGAGCCAACCT	9583
612	GGTTTGTAACCTCTGACCGTAATACG	4212	GCTGGCAACACAGGACTGTAGT	6898	GTGAAGCAGAGATGAAGACCAAAA	9584
613	GGGCCACTGTCTTTGCA	4213	TGACTGCTACCAAGGCTGAGA	6899	AGGTCACTGGGAACCTGTTCTT	9585
614	AGGCCCTGAAGGAGTGAGTTCA	4214	TGCAACCCCTGGGTGAGAATATCC	6900	AGACTGAAGGCCCTGAAGGA	9586
615	GAGATAGTGTCTTTGTGTCTGAACA	4215	CCCCGTCTTCCCCTGAGT	6901	GCATAGTAGGGAAGGGACCTTT	9587
616	GGCGTGTGGGATTTTAAACCA	4216	GAAGTTAAGAGAGGGGGCTTCAAT	6902	AGTGATGGCTGTGGGATT	9588
617	GTGATCTATCAGTTGCAATTCAGATAGC	4217	GATGAAGGAAGCGATGAGGTGTT	6903	CAGAAACAGTGATCTATCAGTTGCAAT	9589
618	TGTGGACCAGGTTAATTACATTGTCTT	4218	AGGACAGTGGCAAGCTCAGATT	6904	CACCTGCTTTGTTGACCAAGTTA	9590
619	GCGCTGCCCTACTTTGCT	4219	ACGGATAATGGATCGCTGCTT	6905	AAGGCATCTCTCACACAAGCA	9591
620	ACAAGCAGAGGGAGAAATAGGTCTA	4220	GAAGTTGGTTCAGGAGGCTTCAAT	6906	CATTAACTTCAAGCAGAGGGAGAA	9592
621	CAGTTGTAGGCAGACATCGGATA	4221	GCCTTTTGTCTGGGCCAATAAG	6907	GCACAGTTGTTAGAGAAAGTTGGA	9593
622	CACCCCACTCCCATGTTTGA	4222	GGATGTGATAGCTGGATCCTGAAG	6908	GGAGAGCACCTTCTCTTACATAAG	9594
623	CCTCCACAATTTTACCATGTCT	4223	CTCATAAAGTAAGACACACGTACCA	6909	TGGGCTTCTCCCACAATTTTAC	9595
624	ACTCTGAGTTGTGTCAAATATCACT	4224	ACCACACTTGAGCCCTTGAG	6910	CAGACAGATTTTACTCTGAGTTGTGCA	9596
625	CAGTAGTTTCCCAACCTCAATGG	4225	AGACCTAGGAAGTGATCTAGTGAATGA	6911	AAGCACGCTCCAGTAGTTTCC	9597
626	GGCAATGCGAATGAGTCTCTACA	4226	GTGTTATGTGTCAAGCCTTCTGTTT	6912	CAAACGTGGCAATGCGAATGA	9598
627	CCATAGGTAATCATACGCCCTGAATC	4227	GGTTGCCAAATATGTCAGCCTTAA	6913	GCCAGCCTCAAGATTTGTGGTCAA	9599
628	GAGTTTTTGAGCCTAGAATGTAAAGCT	4228	GCTGTTTTGTCTGCTGCTGAAC	6914	GTGCTTGTGAGTTTTGAGCCTAGA	9600
629	GGCCTGACCCATGATGAATAGTT	4229	ACCTCTGGGAAATGGGCTTCA	6915	GGACCTTGGCCATTATCTTGC	9601
630	CCAGGTTTAAACCCACACTTTATCC	4230	CTACTAAGTGCTCAGACCATTTGGA	6916	TCTACCATGGCTCCAGGTTTAAAC	9602
631	TGGCAGACAGCAGTCACTGT	4231	CCTCTCTCCCTCCGGAATCCT	6917	AGAGGACCAAGGACGTTTCGTAA	9603
632	TGCGACACAGAAAGTGCAAAAGT	4232	AGAGAACAATCTGAGAGCTTGATG	6918	TCACAGAAATGCGACCAACAGA	9604
633	AAAACCTGTGAGGGAGTTGCA	4233	CAGAGAACAATCTGCCACTCTCT	6919	TGAATTTGGTAGGGAGGACACAAA	9605
634	CGGGGGTACTATTTCTGAGATGAG	4234	ACAGTAGCCCTGTTCTCTTCCA	6920	TGGATGGACGGGGGTACTATTTCT	9606
635	CTCAAACACCGGTCTCAAGCA	4235	GGCCTGTAGTTCAGCTTATTGG	6921	ATTATGGCTCACTGTAGCCTCAA	9607
636	TGGCAGTTGGTACTAGCTGCTA	4236	CCCTGGCTGACTATTGAACT	6922	CATGGCTGGCAGTTGGTACT	9608
637	AGCTGCTGCTTCACTCTTTAGC	4237	GACTTTATGTTGGGGGAGGAAGAA	6923	GCAGTCAAGCCTCTTTTCCA	9609
638	AGCAAGCTCAAAACCCAGAAAGT	4238	TTGCCCTCTCTGGTGAGTTT	6924	GCCAACTTAAAGCAAGCTCAAACC	9610
639	CTCTGCCAATTGTTACTCCAGCAA	4239	AGATGGAGGCTGAAACATAAACAGT	6925	CTGATTTGGGAGAGTAAAATGTCATTAG	9611
640	TCCTGCAATGTCTGGGAAAGTG	4240	GCCCATGATTCTTCCATGGGGAAA	6926	TTGGGTGGCATCCTGCAATG	9612
641	CTGAAATTCAGAGGGAGGTCTAAG	4241	TCCTGAACACACCTGGCCTGTA	6927	GGCTGAGTAACTGGCTTATCTCTGAAAT	9613
642	GACTGCTCTTGATAGTGATTTCCA	4242	CCAGCTGCCACAGAACTGA	6928	ACCCACAGACTCGTCTTGATAGGT	9614
643	CTGTTCTTAACTGCAGCAAAAGG	4243	ACGAGCCTGCCTTTTTCAGT	6929	TGCCCCGTCTTCTGTCTCTAAA	9615
644	CTCTGTTGATGAAGGTATATTCCTATAGC	4244	TGACATTGGGCAAGGCATCA	6930	TGCCCCCTCACTCTGTTGATGA	9616
645	GCCTACTAACACTGGGTACAAAGG	4245	GCTGTATAAAGTTGATCTCAGCTTG	6931	ACAAGCTGCAGCCTACTAACAC	9617
646	TGACAAGGAGCTGACCTACCT	4246	AGGTGCTGTTCTGCTTCTG	6932	ATGGGGCTGAGTGACAAGGA	9618
647	CCCGCATAGAAAAGATGATTCTTGGT	4247	ACCTGCCCTTAAAGCCTCAT	6933	TCCACCCGCATAGAAAAGATG	9619
648	GACTGACGTTCTCAATGTATGCATT	4248	TGCCAGAGGTGGAGATACATCCA	6934	GCAAACCTTTGACTGACGTTCTCAA	9620
649	GAAAGTTCTCTTAAAGTGTCTTTGCAA	4249	CAATACTGACTTTCTGTCCACTGT	6935	GACTTGAAAAGTTCTCCCCAAATGC	9621
650	GCCTTAGAACTCCATCTAGACCTGTA	4250	CTTCAGAGGAGCAAGTCACTTGT	6936	GGTTTAAAGAAAGCCTTAGAACTCCATCT	9622
651	GTGCCAGAAAACTTGGTCAATTGG	4251	CCACACACCTGAAGCTCATCT	6937	CACCTGCTGGCCAGAAAACCTTG	9623
652	CCCTGTGATAAGGAGGGTGTGTTTG	4252	CCCCTCTGCTCCATTGACAAG	6938	AGGGAACAGGAGCCTGCTACT	9624
653	TGTGACAGAGAGGACAGACACT	4253	GCTCTCACTAAAGTACCAACACTGAT	6939	AGTAGCGTCCAGTGTGACAGA	9625
654	CTCTTTTGGGTGCACATACTCTTG	4254	AGTCAACTTTACATAGCTGCTAGACA	6940	GGGGGCTACATTAACCTGTTGGA	9626
655	TGCTTTAGCATGTCTTTGTTCTTACA	4255	GCAATTGACCTGATGGCAGAAGT	6941	GTAGGATCTTGTCTTAGCATGTCTTTG	9627
656	TGTGAGGAGGGCACTTTCTCTAT	4256	TGGGGGCTTGAAGAGGTACTATC	6942	TCCTGACCCAGGTTTGTCTGT	9628

657	GCAAAATGTGACCCCTAGGCAGAAAC	4257	CCCCTTCTTAGCTTGATCATCTGCTTT	6943	AACCCAGTGCCTGCAATGT	9629
658	TTGACTAACACGTGACGACACT	4258	CCTCAGGCTGCTTGCTAGGAT	6944	AGCCTAGTGACAGACCTGAA	9630
659	CCAGAGTCATTACTTCTGCATGCA	4259	GATAGGGTTTCTCCAAGGATTCTTGA	6945	GCAGTCACTTCCAGAGTCATTACTTC	9631
660	GCAGTCTAGGTTTTGTGGTTATTGATT	4260	TGAGAGGCATTGGGAGATAGCA	6946	AGTTGCAGTCTAGGTTTTGTGGT	9632
661	GCCAGTGTGGACCTTGGA	4261	CAAAAGAATCCCAGCAGCAAGAA	6947	AAAGTGTGGCCAGTGTTCG	9633
662	GAGAGCCATATCCACAAGCAACA	4262	GCGACACAAAATTTTCAAGTGTGTGT	6948	TGGGAGGAGAGGCCATATTCCA	9634
663	GGAACATTTCTGGAGCCTACTGTTT	4263	GCTTGAAGTAATGAAATTTGTGCTTGA	6949	ACTTGGCATTTAATGGGAATTTTCC	9635
664	AGACGTGTTGTGTTCAATGCATT	4264	ACTCAACCACAACTGCCCTTAGT	6950	GGAGAAATGAGATAGACGTGTGTGTC	9636
665	ATGGGGCAGAGGGAGAAGCA	4265	TTGCCAGCCCAGCATCTATG	6951	CTCATCAGAGCTCAGTATGGGGACAT	9637
666	TGGCCTGAAAGGATGGTTCTG	4266	GGCTGGCTTTGTAATGACCATAGT	6952	AGGACCTTGAGGTGGCCTGAA	9638
667	CTGCCACATCCTTGCTAGCT	4267	AAGGCAGAGGTAGAGTAAAGAACTG	6953	TTTGATCCTCGCCACATCCT	9639
668	TCTCCACCCACTGTAACCA	4268	CCACTAAACTGAGGTTTGGCACAGA	6954	ACACACTCATACTCTCCACTCT	9640
669	GCAAATCAGTGGAAACATGTTGGT	4269	GTAAGTGTGGCTTTTCCCTTT	6955	GCCAGACACTCCTGCATGT	9641
670	TGATAGCTGAGGCCAGGTCATA	4270	AATCCTACCTGCAAAACCAAGGA	6956	GTGGAAGTGACAATGTGTGATAGC	9642
671	TCAATGGCTTGGCCCTCTGA	4271	CCAACATATCAGCCTTTTGACAT	6957	GAGAAAAGATCCTTGAAGCATAGTGT	9643
672	GCAAATGGACCAGAGGAACAGATG	4272	GGTGAGGCTTAGAACGTTGGA	6958	GCCTAATCCATAACCAAGAATTACCCCTCTA	9644
673	GGCCCTTTTCGCAACCTTTTTTTG	4273	CATGGTCTGTGACTTTTGG	6959	TTTCTGACGGCCCTTTCG	9645
674	CTTCTCCAGCCTCTCTGTGA	4274	AGGAATGGTGAAGTACCAATGG	6960	AAGCCTCGCTCCCTTCCT	9646
675	GTACCCTGTGCTAATGTGGTT	4275	CCTTCCTTTCTGGGATTGCTTGT	6961	GCATGGACACAATGAGAAGATGAG	9647
676	CAGCCTTGCGAATAGACAAGACTA	4276	AGAGTCCATCCAGGCAGAGAGA	6962	TCCTGGGCTCAAGGGATCCT	9648
677	GTCTGTTTCAAGTGTGACTTTAGCT	4277	CTCAGTGCAAGACAACCTAAAGC	6963	ATGACAAGATGAGTCTGGTTTCAGT	9649
678	TCTCTGTCCATTGTGGAAATGC	4278	CCTGTGCTGGAATTTCCACAAAAC	6964	GCTGTCCAAAATAATTTCTCCTGTCCAT	9650
679	GAGCGCGCAATGTGCTT	4279	TGCTCGCCCAACAATCCAA	6965	GTGGAGCCACAACAGCAAGA	9651
680	CGAAGGTTCAAAGCCCAACAC	4280	CCGTGTTTAGGTATTCTCCTTCCAT	6966	CCCCAAAATAGTCGAAGGTTCAAAGC	9652
681	TGGAGTTTGTCCCTGAATTAGCA	4281	AAGCAAACCTGGAGGACCATAC	6967	TCCTTAGTACTATTATGCACACAAGTA	9653
682	CCCTCTCTCTAGATTCAACCCAGAACT	4282	CTGTGCTGGGAATTTCTACACA	6968	AGGCACCTCTCTCTAGATTCAAC	9654
683	TGGTGCATGGCAACTTCTCA	4283	TCCTGGGCGCTCTGTGAT	6969	CTGAGTGACTTATGACTCAGTTTTCTG	9655
684	TGTTCAATCAGTTGGCAGACTTTC	4284	CTTTGATCTAAACTCGGCCATAC	6970	CACCCCTACGTGTTCAATCAGT	9656
685	AAAGCTGTGGAGGGGCTCTT	4285	CCTCTGCACTAAATCAATGTGCTTGT	6971	GCAGGTGCATAGCTGGGACAGA	9657
686	CCTTGGCCCGAGTTATGTTCTGA	4286	AGCCAGGACTGTAGAACACGAT	6972	GGCATTACCCTAGGAATTCAGGAAGAA	9658
687	GGAAATTAGGCCCTCATGCATTCTAA	4287	TGCTCTCTTTCTGCCCAAA	6973	GACCTGGAATTAGGCCCTTCA	9659
688	GGCAGATTTTCAATCTTGGCTTGCA	4288	TGCAGGTGCCTTGGATGTCTT	6974	GCAGTCTCAAAAATTTTAAAGGCAGATT	9660
689	GGCTACCCCTTAGGCTGATGATAA	4289	TGCCACCTCCCAATGGT	6975	AGTTCAGGCTCGAGTACAGTTG	9661
690	GGCCTATCCTCTCTGGTGATTGTA	4290	AGCATCTCTCTCAAGGACCTGAA	6976	GGAGATAGAGGGCCTATCCTTCCT	9662
691	CACAACCTAGCAACCTCTTTACAG	4291	GGTGTGGCTGCAACTATAGACA	6977	TCTGCTCAACAACCTAGCAACCT	9663
692	CCAAC TAGTCTGTCTGCACCTTAGA	4292	CAGAACAAACCGACCTCCATCTT	6978	TCCTCTTTCTCCCCAACTAGT	9664
693	TGGGTTTTAAAGACCGTCGTC	4293	AGCCAGCCAGGTGAGACAGA	6979	GTAGAGCAGATGTTTGAATATGGGTTTTA	9665
694	GCCCCAGCTGCTGTGTGT	4294	GCCAGAGCTTGGGGTAATCACT	6980	GGTTCAACAGAGCTGAGATCTGA	9666
695	TTGATGCCTGCTCGAGACATTG	4295	AGCCAGCTGCAAGTTC	6981	TCCCCACCACCTCTTGAT	9667
696	TGTGGCTACAATTGGCTCTTGAG	4296	GGAGACCCAACTGTTGCAATTC	6982	CTAGACTGAGTCATGCATTTCTACA	9668
697	AGTTCGCTCACCAGTGCTA	4297	ACAGCCAGTCAATGGAAGCA	6983	AATCCTGACTCCAAAGCATCAA	9669
698	GAAGAGTGAAGAGTGACCAGCAT	4298	TGGGCTTTAGGGACTCTACTCTCT	6984	TTAAGGGAAGGGCATAGGAAAAAGT	9670
699	AGGGCAGGTGTTTCAGGAAGT	4299	TCCTACCCATAGGATCAAGATGGT	6985	GCACTTCCACAGATTAGGAACCA	9671
700	CCACAGTTCAGTGAATGGGAGCAT	4300	CTCACTGCAACAATGGGGGAGAAA	6986	TCCAGGTCTGGGCCCAAA	9672
701	CTAATACCCTGCAATTTCTTCTCT	4301	TCTGGAGTTCAGCCTAGACAGT	6987	TCCTTGCTAATACCCTGCAATTT	9673
702	AGCAATCTGCCGCCAGGATT	4302	TCTAACCCGGCAGGTCACTCT	6988	GGAGTTGCTCAAAATTTCTGGAGCAA	9674
703	CAGGTCTTGGCTTAAATGTCAACAC	4303	AGTGGGGCTGTGAGGAAAC	6989	CCACTGACATCATTTTTCAGGTCTTG	9675
704	TGCAGTGGGATCAGCTACCAGTA	4304	GCCCCAGGTGTCAGAAGCA	6990	GCCTCTGCACTGGGATCAG	9676
705	GCCACTGAGAAGACTCTGTCCTT	4305	TCTGCAGAAATATGGGCACTAAGG	6991	TGAGTAACTGTGGCCACTGAGA	9677
706	GGCCAAGACTCCTAAATCTGAAGCT	4306	ACCTTGCCCAAGGCCATACATC	6992	TCCTGGGGCCAAGACTCCTAAA	9678
707	GGTGTGCTCAGGTGTAAGATGAT	4307	AAGCCAGAAAGCCTTCTTGT	6993	GCTTCAGAAATGATATGTGTTCAAGAGTA	9679
708	TGACAATCTCATCAGCTGTGACAAG	4308	GACCTCAAAATAGTCTGGTCAATTGT	6994	CCGCTCTACAGGTTTCAACAGT	9680
709	TCACACACATCAGTCTAAACCTGAA	4309	CCCCTGGGAGCTGCTTGAAC	6995	GCTCTCTGTTTACTTCCAGTGTCCA	9681
710	CCCAACTGTCTCACTGTTTATGGA	4310	CTGTCTCACTACAACCCAGTTT	6996	GCTTTTACCCCACTGTCTCACT	9682
711	AAGTGTAGCCACATAAACTGGTGAT	4311	GCTTGTGCTTTGAACTGTAGCCATA	6997	AGCCTTCACTGGATTGCCTATC	9683
712	TGCCCTAACCTCCGTTTACAAC	4312	GCCTGAGAACTCTGTATGCA	6998	AGGTGCCTGCCTAACCT	9684
713	CCTATGTAATGGCCCAAGACACTTG	4313	CCAAGTATGCAATAGTCTGTTTGG	6999	CTTGCAITTCCTATGTAATGGCCAAA	9685
714	TGGGCATGTTGTGTGATGCT	4314	CAAGGGCTGCAAAAGTAACTGTT	7000	AGATTGTACATGGGCATGTTGT	9686
715	ATTTTGGTTGCCCTTTCCCACTATAG	4315	AGGCAGATGCTCAGAGGCATT	7001	GAAATCTTGCTGTTGGGATTCAGT	9687
716	TGCTGAAGAGGCTCTGAGTCAT	4316	CTGAATGAAACCCAACTCTGACACA	7002	CAATACAGATTTGAGGGGATCAGAATTG	9688
717	AGTGGTATTGATGTCAGCAAGAAATTG	4317	GCAACAAAGTGTGTGTGTTATTC	7003	GCAACTGCAATAGTGGTATTCTATGTA	9689
718	GGATCTGCACTAGTACAAAGCA	4318	TTCTGCTTCTCTCCAGTTGT	7004	GCCCAGGATCTGCACTAGT	9690
719	CATCTGGCCACCTGAACACA	4319	GCAATGAAGAGACTCCCGTATGA	7005	AGGGAGGCGCTGGCATCT	9691
720	GAAAGCCAGAAAGACATGTGATGAG	4320	GAAGTCACTGTAGTAGAAAGGTGTA	7006	ACCAGACTGAAGCCAGAAAGAC	9692
721	ACCTGAGAGCCATTGCCTCCTA	4321	TGCCCTCCCTCTGAGACAA	7007	GGTGTGAGATAAAGTGAAGCCATT	9693
722	GCCTAAGGACTGTGTAAGAAGGAAATACAG	4322	CATTAAAACAGTGTGGCTTCCCTGTAT	7008	CCAGCCTAAGGACTGTGTAAGAAG	9694

723	GTGTCCTCTGACCACTAACTATACC	4323	ACTTCACACCGCTCTGCACTAA	7009	CACAGTTCAATCTGTAATAGCTTGCTT	9695
724	TCTGTCTCCTGCATGCAACTC	4324	TGAGAGAGTGGAGGGAGTTGG	7010	GCTGCAATTCATTCTCCTTCTC	9696
725	CCACCTATACTGAACCTAGGGGAAGA	4325	GGTTTGTAAATTTCTGAAGGCAGTGGT	7011	CTGATTCTGCCACCTATACTGAAC	9697
726	AGCTGGAAGGAGTTTATTGAAAGGA	4326	AGATTCTCCCTTGGCCTACT	7012	GCTGGAGAAGCTGGAAAGGAGTTT	9698
727	TCAAGGCACCCCTTTCCGTTT	4327	GGAGCAACTGATGGCAGCAA	7013	GGCCCCAGGAAAAACGGAAAAAT	9699
728	GTGAGGTACCACTGGAGGATCTT	4328	AGTGCTCTGTGCCACAACATA	7014	CTGGGGTTGAGAGTGGGTAGA	9700
729	ACAGTACTGGGCCAGATGGAA	4329	TGCCAAGTAGGGAGGTGTGAGA	7015	CCTAACCCCTGCCTTTCTAGCA	9701
730	AGGATAGCATACACCTACACAGT	4330	CATCCTGCCTGCGTAACACTT	7016	GCAGATCACTTACCTTAGGATGCATACAC	9702
731	CTCAGCCCTCCACGTGGGAAT	4331	CTCAACTCCTCGTGGCAGTGACT	7017	GCCCCAGCCGTACATTCT	9703
732	ATGGCTGAAGAGGACCATGTG	4332	CCCAGGAATTCATCAGAACTGTT	7018	GTTTTAAGGCAAGACAGAGAAATCATTGA	9704
733	CCATGCCTACCAAGAGCTAGTG	4333	TGCTTCTTGCACACACA	7019	GCCTGAATCCCATGCCTACCAA	9705
734	GGGGTACAGGCTGGGGAATT	4334	CTGTCTCTTGGCTGTTCGTTTCT	7020	ATGGCAGGGGGGGGGGTACA	9706
735	GCCTAGGATTGCCTTCTGTTCTG	4335	CACGGAAAAAGCAAAAGCTGATTAACG	7021	CCAAGCCATAAATGCATAGGATTGC	9707
736	CCACAATTTAAGACTAACCACCATGCT	4336	AAAGCAAACTACTCTCCATTACAC	7022	CTCTCAAACCGGAACCTATTGTC	9708
737	TTCAGAAGGTGTGAAAGTGATGGTA	4337	TTGCCTTCTCAGCCCTTCT	7023	AAGGTCCTTCTGAGAGGGAAGGT	9709
738	GTCTCAAGTAGGGTTACGCTGATT	4338	GGTCTCTTAGAAGTACCTTTCTG	7024	TGTGGAACAGAGCAATTTAAATGGAAAT	9710
739	TGATCACCATGCAGGGGTTTATTAC	4339	ACTGCAGCTAGGCTTTTCTT	7025	GTCCACAGATTGATCACCATTGCA	9711
740	CATCAACTATGACTGGTATTTTCAAGTCT	4340	TGGGAACACTCTGGCATACATTGC	7026	CTGCTTAATCATTTGGGTTAAGTGGTATTA	9712
741	CCTTGGCACTGTGGAGCAAGA	4341	TTTGAACAGGGCATAGTCAGAT	7027	ACTTCAGACAAGTATAGCTCCACGCTT	9713
742	GGTCATGGTTTCAAGGAAATGGATTGG	4342	GCTACAAGCTCTACTCCACTCAGAT	7028	CTGGGGTCATGGTTTCAAGGAA	9714
743	GGGCAGCTGATGAACAATTCC	4343	TGTTACCCCTGGACATTGC	7029	GCTGTGTTGAGAACAGGCTGAA	9715
744	TCTGGCAGCTTGTGGAGAAAG	4344	CCCAGCCTCTTCCACT	7030	AGGCTTAGTCTGGCAGCTTGT	9716
745	AGGACATCTGGGAGCAGAAAGA	4345	CATACCTCTTGTCCCAGCATAC	7031	GCAAAAGAGCTATATCTCCATTCTATTAC	9717
746	GGGAAAGTACACCCATTCTGA	4346	ACCTACAGGTCTTCCCTCATATG	7032	GGAAAAGGAGGTACAGGAGAGAAAA	9718
747	GGGACAGTTTTCTGAAAGTAGAGCTA	4347	AGCTGGGTGGGAACCTATTCTG	7033	GGATGTATAGGGACAGTTTTCTGAAAG	9719
748	GTCTGATTTGAACGTATTCTGCTGTT	4348	CATTGCCCTGTTGCAAGTAG	7034	CCTGATGCCTTGTGATTGAACTG	9720
749	GGACTACCAGCCTATGCCATCT	4349	AAGGCTTCAAAGAAGAACTAGAACCT	7035	ACTCCTGGGCTCAAGTAATCCT	9721
750	AGGGCTCGTCTCTGCTT	4350	GCGGTAGGGCTGAGAAAAATCCA	7036	ACTCCAGCACCAAGTCAGT	9722
751	GCTCCTTACAGCTCCAGCAAGA	4351	ACATTACGGCATCATGCTTTCT	7037	AGCAATGTGACCAGGGTGAAGT	9723
752	TGTGGGGAAGCTAGAGACCCAAA	4352	GCATACCTTATCCCTTTTGAAG	7038	CTACAGAAATTTAGTTGTGGGGAAGTACA	9724
753	TGAGAACTCTCTCTCTTCAATTCTG	4353	ATGTCTGTCTCCCTCTTTCT	7039	AGGAACTGAGAACTGCTCTCTCT	9725
754	AGTAGCTGGTGATTCAAGGAACAG	4354	TCTCTCCAGCCACACTGAA	7040	TGGAGTGTTATATACCTTTGAAGATAA	9726
755	AACACGCCCTTGATGGATGAGA	4355	GAGTCTCGATCCAAAAAGCTATCC	7041	GCGAAAAACAGGCCCTTGAT	9727
756	GCATAGCTGTGGTCACCAACAAC	4356	CCATAATAGGTTTTTGGTGCCTACAG	7042	AGCATTTCACTCATAGTAACAAGAAG	9728
757	TCAAAGCCTTGCTCAGCTTCT	4357	CGTAGGTGACACACATCATCCA	7043	AGCCAGGTCTTCTTCTTCAAGC	9729
758	TGCTCTGTTTGTGGGTTAGTTCA	4358	GCACGCTCACACTTTACTAATAGG	7044	GATTTATAATGTAAAGGCTGCTCTGTTTG	9730
759	CAAGAAGGCTTTCCAGTATCAACTG	4359	AGGGAAGCTGTGTCTTAGACTTACT	7045	GCTACGAACACAAGAAGGCTTTCC	9731
760	CAGTGTCTCCAGCCATCCCTATA	4360	TCTGATGACCTGCTGATTGAAG	7046	CCCAAGTAGCTGGAACATAAGCA	9732
761	CTCCTTACCCTAGGGTTTGCT	4361	AGTGTTGGCAGCAGGTAAAC	7047	AGTAGTTACAGTCATCCCTTACC	9733
762	ACGGGGTAGGAAATGTCACCTT	4362	ACTACCCAGGAAGATTAGAATGTGT	7048	TGTAGGACACGGGGTAGGAAAT	9734
763	GGAGTGTTAAGAGCTTCTGCCATTC	4363	AGAAAGCGGCAATGCTGAGATG	7049	GCCTAGGAGTGTTAACAGCTT	9735
764	GTGGATAAGGTATAGGGAGTACAGGAT	4364	GCTGCCGAGAAAACTTAGCT	7050	CACAACAGAAAGTATATCCAGGTT	9736
765	GGCTACAACAATGAGGGGAAATG	4365	AACACAATTCTGAAATCCATCTATGCAT	7051	GCACTCAAATCTAATTAACGGCTACAACA	9737
766	GGTGGTGCAGTGTGCCAAATAA	4366	TCAATAAAGTCCCCCTTACCTAAT	7052	GCCAAGGGTGGTGCAGTGT	9738
767	CCAGGTACCTCACCCTCT	4367	TCCCTGAACAGGCTGTGCATAA	7053	GCCAGCCTCTGCCAGGTA	9739
768	GGGAAGGACCATTTGGAATTAGGA	4368	GCCTTCCATCACTTACCACAA	7054	GCATGGGAAGCGACCATTTGG	9740
769	TGTTAGCAAAAGACAGGGTGTT	4369	AAGTCAAGGCAATTGATGAACACA	7055	TTCCAGTAGGAGTTGTGTGAATGTTA	9741
770	TCATATGTGGAGAATTGGCATCAA	4370	TGCAACATGCACACTTTTTGC	7056	GTCAATCTTAACACTTCATATGTGGAGAAC	9742
771	CCTTGAATGGTCCCAGAT	4371	GTAATGAGGGCTGCTTTAGCT	7057	GAACCAATCCCTTGAATGGT	9743
772	GGATCAGGATCTACCTTTAGACTCCTT	4372	TGGATACAAAACTCTTGGCTGGAA	7058	GAAACCCCTATAAGCTAGAAGGGATCAG	9744
773	TTTGCACTGTGTTTCACTTACACTAG	4373	GAAGCTTAAAGTCCATCTTGTCT	7059	GTTTCAGGTAAAGCCCTGTACTATGT	9745
774	TTGGGTAATACAGGACTCCATA	4374	GGGGCAGAAAGTGAAGACTTC	7060	GTCTTGCCTTGTGGGTAATACCA	9746
775	TGGTGGGTTGATGAGGACAAGA	4375	AGCCAGTAGGAAGCAGGAATG	7061	TGCTGGTGGTGGGTTGATGA	9747
776	AGCTGCTGCCATCTTTTCTCT	4376	GAGTTTGACAAATAATGGAGGAGCTT	7062	ACCTCTCTGATCCCACTTTACC	9748
777	TGTGAAGCAAAGCCACACAA	4377	AGGCAAAGGTTGTAGGTATGTAGATC	7063	GAAGAAATCTTAAGTCTTACTGCTTTGT	9749
778	GTGTCCTCATAGTCTACCTTTGCA	4378	GGACTAACTCCACGAAGAACACA	7064	GAGGGAGGTGCTCTCATAGTCT	9750
779	GCGTACCTCCGAGAACACACT	4379	ACGGGACTCCAGCACAAA	7065	CCACGCGATGCTGTCTATC	9751
780	ACTGGTGGTTCTTTGGTATTTTAC	4380	CCCTAGACATCCACATGTGTGCTT	7066	GGAATCTAAAAGGAAATACTGGTGGTTCT	9752
781	CCTGGATAAGGCAAGAGACTTGTC	4381	GTCCCAATTCTGCAACTAACTCTGT	7067	AACAGCCCTGGATAAGGCAAGA	9753
782	ACAAACCCAGGGCACGTAGT	4382	CCTGTGCAAACTTTGGTCTTTGC	7068	TGACTTAAAGTAGCTATGGCAGAGATATT	9754
783	CCCATGGCTGTGATTAAAG	4383	GAGACTGTCTCTTATACACATTTCC	7069	GCTCCCAATGCTGTCTATC	9755
784	GCGCTGATGATATTCTGGTGTGTT	4384	TGGGCAGGAGTTCTCAATGACA	7070	CGTCTGGTGTGGTTTGTAGA	9756
785	GGACCTGTTGACTGAAGAAATGATGA	4385	CAGGGGTGAGTGGAGATGA	7071	TGCTAGGACCTGTTGACTGAAGA	9757
786	CTTTGAAGTCTCTGCACCTCAGTT	4386	GCATGAATCACGCTTGTGTACTAAC	7072	AAGACAGCTGAGAAAGCACAGA	9758
787	TCCTGCTGGCTGCACACA	4387	CCTTGATGTAACCAAGTCTGAGTT	7073	CAACACTAGCTTTTTTCTCCTTGGT	9759
788	GAGGAAACCCAGAGTCAGGAACT	4388	AGTGCCCTGGTGCTAGCA	7074	TCTGTGGCTGGGAGGAAACC	9760

789	CATGCATCAGGTGTACATTAAGCTT	4389	CACTGATTGAGTTGGACTCTTTGGA	7075	GGTTTGAATTTACATGCATCAGGTGTAC	9761
790	GGGTCTCAGTATCAAGCTGACTGTTG	4390	CACCTGACAAGGAATCGAAGATGTTG	7076	GACAGAGGGTCTCAGTATCAAGCT	9762
791	CCTGAACCTACTCCATCTGTTCT	4391	TGCCATAGACCATTGCAAGTG	7077	CGTGGCCATTTTCTGAACTA	9763
792	CTGAGCTGAGGTCAATGTTCTTCT	4392	TGGAGCTTCCACGTGATCCTT	7078	CTCCAGCTGCTGTGCTTTCAG	9764
793	AGGAGGTTTATATTGTGCTCAGACATT	4393	TGCTGAGGACACTGAAATATGCA	7079	AGTAGAAAGCTCTAGGAGGTTTATATTG	9765
794	TGGATCCCCCACCACCTCT	4394	GGCCTCAGCGATAAACACAGAA	7080	CTGCCCAAGTCTGTGGAT	9766
795	TGGCCGTGCTCTCAGTA	4395	GCTGCTGGCTGTGAATGCA	7081	GAGCTTTGATGTTGTGAGCTCTATTT	9767
796	GGTTTGGGGTGTCTCTTAGT	4396	AGCCCCAGCTGTCTAAAATGTC	7082	AGTTGCCTGGCTGGTTTGG	9768
797	CTCTGTGGGGCATGTTTAGAACT	4397	AAGCACGAGGGGGAAAGGT	7083	AGCCTCTGTGGGGCATGT	9769
798	GAGGTGGTGAGCACAAGGA	4398	CCAGCTGCAGGTGACATAGG	7084	TGGGACACACATCTGCTAGGA	9770
799	CTGCTAAAACCTCCAATGGCTTAC	4399	GCCATTGTAAGAACTTTGGCTTTTACTC	7085	GATCTCCTGCTTCTACCCCTTAAC	9771
800	GCTGGGACATGGTGTTAGTGT	4400	AGGTGTGACTACGAGACCAAGA	7086	TACGGGCTGGGACATGGT	9772
801	ACTGAGCTGACTCACTTGAAGA	4401	CAAGTTGGACCTCAATCATAGGAAGGA	7087	TGGGTGACTGAGGCTGACT	9773
802	GCTGGCGGGAAGTCACACAA	4402	GGGAGTCTGACACATGGAACCTCT	7088	CAGTGCAGCCCCCATGCT	9774
803	GTGTTATCACTGCCATAATGGTCAAG	4403	GATATGTGCTTGGGAGCTTTAGT	7089	CAGACTCCTCTGCTTATAAGAATTATACCA	9775
804	TGTTTCTGGCTGTGAAAGTGA	4404	GGACATGCTCGGTATACCAATCTAG	7090	GGGTCTTGGAGTAGATGGTTTGGGA	9776
805	CAGAAGCTCAGAGGCTAGCTAGGTA	4405	CTGCTGTTCACCAAATCATAGCCATGA	7091	ATCAGCCTCTCTCAGAACTCAGA	9777
806	CCTCAGGCAGCTGGTGTCT	4406	GTGTGGTGCTTCTTTGTGAATGG	7092	GTCGTTGGAATACAAAGCCACTAA	9778
807	GATCTCAAGGTAGGAATGTGTCTCAA	4407	AGCCACTCTGACCTCTGTGA	7093	CTGGGCAATCATAAAGATCTCAAGGT	9779
808	GTTTCCCCAAGTCTGCCTCATATTT	4408	GGGGGGATGAAAACAAATTTGCT	7094	TCTCACACATTGTTCCCCAAGT	9780
809	CACCTTTGATCTCCTTATGCTGCTAGT	4409	CCAAGTGGGTGTGCTATCT	7095	GGCTGGGTCACTTTGATCTCCTTAT	9781
810	CATCTTTTACCACAAGCTAACAGTACAG	4410	ACGGGGAAATGAGCTTTACAATCT	7096	CCCACCTTTCACTTTTACCACAAGCT	9782
811	GGTGATTTGCCAACCAATTCTTGAC	4411	ACTGCCTCCCGAATCACTATTCT	7097	GAAAGTGGTGATTTGCCAACCA	9783
812	AGCACCCAGAAAACCTCTTGAG	4412	GCAATATAGAAGGGTGAAGTGGAA	7098	TTGATTAAATTACCACACAGTGAATACACAT	9784
813	TCTCTCTAGAGCAAGCAGACACA	4413	GGCCCCATTTATCTCCTGTGT	7099	AAGGCAAAATCTCTCTAGAGCAA	9785
814	TGGCTCATGCTTCTGGGAATGTG	4414	CTCTCAAAGAGATTCCAAGTGAGCTT	7100	TGCGATGGCTCATGCTTCTG	9786
815	CAGATTCTAACTCACCTTCAGCAA	4415	CCATCTGTATTGGAAAGTGTGTTTAC	7101	GCCGCCCTACAGATTCTTAAT	9787
816	GGACTGCTGCAGAGACTCTTC	4416	CGCAGTTTCCACAGCAATCCTTTG	7102	AAGGGCCAGCCACCTGCAA	9788
817	TGCCGTGAGCGTGTGTTCA	4417	TGATCCAGGGCGCTGTCA	7103	GCTCATCGGTGCCCAAAGTC	9789
818	GAGAAGAAAACGCCATGAAGAAACC	4418	GAGTACAGTGTGCTGATGTGA	7104	GGGAGGACGAGAGAGAAGAA	9790
819	GCTGAGAGGGCCTCGGAATTATATTG	4419	GCAAACTCCCTCTGTGTTCCAA	7105	GAGAAAGTGAAATGCGCAATGTGA	9791
820	GACCACTGTAGTCTTTTTGTC	4420	GAATCAATTCATCAAGGCCCTGGAA	7106	AAATTGCTGGGTAAACATCGAATACA	9792
821	GGGTGAAGTGGGTGCATCTAAT	4421	CACCTTTTCCAAGAAAGTGTGCTT	7107	TGCCCCAGAAATCTCCTGGTGAA	9793
822	TTTGAAGGGTGCAATTTGTGATGTT	4422	TGACTGCTTGTACCACAATATGCA	7108	AGGTCTTCAATGTGTGTAATCACTGA	9794
823	GGGATTTCTGTCTAGCCACTTTTATGG	4423	GGTGTTGGCACATCTGTACTCA	7109	GAGAAGGCCCATTTTACATCAGGAA	9795
824	CGCGCTGGAAGTTAATGCAGTA	4424	GAGTCTAATTTAGCGTGGGTAAT	7110	CCATCCTGCTCCATTATCATGGT	9796
825	GCAATGAAAAGTCTTGCAAGTTTGA	4425	CTCATTAGGCAGTCTCCCATACA	7111	GGAAAAATGGATCTTGCTCATGCA	9797
826	AGCAGTCTGAGTCAACCCTATCCTT	4426	AAAGGGGGCCTCTGCTAATA	7112	TGCATGCCAGGCTGATCT	9798
827	TCCTAGGTAGGCTTCCATCCTATC	4427	ACAACCTGGCAAAGAAAGCAAT	7113	CCCCTTTTAGGTGTGTAATCCTAGGT	9799
828	AAGGAAATGCAATTGTATGTACAGCAT	4428	GAGGCTGGAGGAAAATGTGAGT	7114	ACAATTTAAGGGTAAAGGAAATGCAATTG	9800
829	GGGAGCCAAAGGTTTTTCAGGAA	4429	AATTGCTAGCCACAGTTTGCTTAC	7115	CGTGAGTAACCTTCACTTCTGATG	9801
830	GCTTGTTGTTTCCAGGATTTTAGTTG	4430	AGACTAGCCTCACTTCTCCAGAT	7116	GGTCAATCTTTATTTGCCTACCTTTCA	9802
831	AGAACGCGATTGACCCATTTTAAAC	4431	GGTGAAGAAGACTTAGGAGTGACATG	7117	AGCACCTGAAGAAGCGGATTGA	9803
832	CATCAGAATTTGCTGCACTTTAGA	4432	AGCTCACATCTCTGGCAATACATGT	7118	CCAATGAAGAAGGGACTATGTAGCTCAT	9804
833	CGCAGCAAGTCAAGCAATGGAA	4433	ATTGCTGCTCCTGGGACAA	7119	GGTTGTTTAGTTAGCAGAGACAATGAAAC	9805
834	AGGTAAGGTGTCTGCCTTCACA	4434	TTTATTGCCCTTCACTAAAACATG	7120	GCACTTACTATCTGGCACTATTCT	9806
835	AGGGCAGCACCAGAAGCTAGA	4435	TGCTCCTTCGAGGGGTCTAGAG	7121	GCCACAAGCCATGCAATGCA	9807
836	GGAGAGTGGTTGATTGGGCTAA	4436	CTCCAGGGAGTGTGAATCTGATTC	7122	TGCCATTGGGAGAGTGGTTGAT	9808
837	CTCTGCCACATTCTGGTTCAA	4437	GCTGTAGCAAGGCCACTAATATCC	7123	AGTTGAAATGATCTCTGCCACAT	9809
838	CGATCTTCTGTGCCCTTTCC	4438	AGGGAGAAGGCACTCTGAGTT	7124	AGTGTGCCGATCTTCT	9810
839	GGCCACCATCACTTGATACTTCA	4439	AGGTCTCTTTTGGGAGTGCAA	7125	GTCAGAGGCCACCATCACTTG	9811
840	GAGATAATGGGAATAGAAGCCTTCATCAG	4440	TGAAGTCTAAAATGTGTTTTCATGCA	7126	GCTTTAAAAATAAGCACTGCATTTAATTGC	9812
841	GTGTCTGGAACACCTAAGGACTCA	4441	CTTCACAGTGGACCTTCACTTCA	7127	CCCAGCAGAGTGTCTGGAACA	9813
842	AGGCTGCCATACTCCAGTTAGCA	4442	ATTGAGGGCCAAGGGCTGAA	7128	GTGATGCTTCCAACAAGGCTCTT	9814
843	TTAAGCCTTACTCTGAGCCACTTTAT	4443	GCTGTAGTGAGCTGCATGATTGT	7129	ACTCAGAATTAGCTAAATTTGCAATTAGGA	9815
844	TTGGTGCCCTCCCTCTAT	4444	TGGGGGAAATTTGCAAACTGTCT	7130	GTGACCACATGTGATTTCTTTGGT	9816
845	CTGAATTAGGAGGGAGGACTCACA	4445	GCTGACATGCAGGCCCAAT	7131	ACGTCTGACATCTACCTTCAGGT	9817
846	TGACTCGGGCCAAGTGAATG	4446	AGAAACAGAAGCCAGGGATCAAG	7132	TGCTGTGAGCAGACACTCTTAG	9818
847	CACTGTGGGCCATATTATGAGAGTATA	4447	ACCAGGCAGTCTCCTTTGTG	7133	AGCTTCACTGTGGGCCATATT	9819
848	GGGGATTAAGTCAAGTACGGCAAT	4448	CCAAACTCGGTTATATCTCACAACC	7134	GAAAAATGGTGAGGGGATTAAGTCAAGT	9820
849	CGGTTTGTGACAGAGGACTCTCA	4449	GCTTTCAAGACTTACGATCTCTCCTT	7135	CTGTGTCGGAAGGGGAGGCTAT	9821
850	AGGACTTCTGGGCAGTGAAA	4450	TCCCAGCATTTGTCGATACCA	7136	AGGCAGAGCACAGAGGACTT	9822
851	TCCATGGATCCACATGTCTATCCTTAT	4451	GCTACGATAACCAAGGCAGTCTGA	7137	GCCCAGGCTGTGCTTGCA	9823
852	CCCTAGCTAAAAAGGTGATGCATCCA	4452	TGGGGGAGAGAAGGATAGGAGAT	7138	ACTTGACTGCCTAGCTAAAAAGG	9824
853	CCCAGTGCACAATCCCAATTG	4453	CCAGATGGAAGGAGGCTAAAGGA	7139	GGCATCAGCATTTGTGACTAAGTTTACC	9825
854	CCACAAAGCAGGCGACACTAAA	4454	CCCCGTGTAACAGTCCATTCACAA	7140	TCCAGCTTCTCTCCATCAAAATG	9826

855	GGTCCCAAGATGACTGCAAGA	4455	TTGAGAAACGCTCTGTGGACACA	7141	TGCCCATGGGTCCCAAGAT	9827
856	CAGTCACTGCTTGAACACCATGT	4456	GGACATTTGGGTTTAACCCAGCCTAATTC	7142	CCAAGATACTGTGCTCTGTACTGAGA	9828
857	CCCAAGTTCTCTTGCCCAATTGA	4457	TGTACCCAGGCTCCCATCTCA	7143	ATGGCCACCCAAGTTCTCTTG	9829
858	TGCACTGCTGAGCCACAGACA	4458	CCTATGTACTGTCTCTGGATCCAA	7144	GCAITGGTACAGGCCGCTTCA	9830
859	CACACACAGCTGCACAGATTG	4459	AGCCTGCTTGAGACTGGATGGA	7145	TGGCAGCTCCACACACA	9831
860	CCTGCTTATCAGTGCCTGGTGAT	4460	GGGCCAGGCTTTTGGGAAATA	7146	AGTGGACATCCCTGCTTATCAGT	9832
861	GCAAATGCAAAGTTCTGAGGCAAA	4461	CCCTGTCTCTTGGTTGTTCCCT	7147	GGCAGAGAACAGCAAAATGCAAAAGG	9833
862	TGAGCAGTCTCTGGTGCTGTA	4462	CCCCTGCTTAACTAATTTGAGTCAAC	7148	AGGGCAGGTGTCAGCAGAA	9834
863	AGAGGAGCAGTGAGTCTAGTTG	4463	TGACTGTAGTGAATGGAATGAGCATT	7149	TGAGTCTAGAGGAGCAGTGAGT	9835
864	CAGTGAAATGAATTGCCTTCTGT	4464	AGGGGCGTCTACGATCACT	7150	GCTTGTGCTGCAACACAGTGAT	9836
865	GCCCAGGACTCTCTGACTTAAGC	4465	GTGCACAGCCGGGATGGA	7151	GCTGAGCTGTTTTCTCTTAAAGCAACA	9837
866	TTCCACCTCACAATTGGCTCTTG	4466	CAGAGCTCTGATTGGCCAAGATTGG	7152	TTTGGCTGCTCTCTCTGTCT	9838
867	GTTGAGGTCTGCTGTGGTCTAA	4467	CATGCCACAGCTGTTTATTA	7153	CAGCCAAATAGGAGGATTCTATTCTGT	9839
868	CGAAAGTGAGACATTATCAGCATATATGG	4468	CAAGACTCCTTCAGCAGTGACA	7154	CACCTGACGAAAGTGAGACATTATCAG	9840
869	GAAGAATGGGGCAGACATGGA	4469	GACTCACCTCCTTAAGCTAATCTTACC	7155	GCTCCACCTATTCTGTAAGGT	9841
870	ACTCTGCAGCTCTCTAGTCA	4470	TGCCCTGGCACTCTCTGCTT	7156	GAGTAGTGGGAAATCATTCTGATCCA	9842
871	TGGCAATACAGCAGGCTTTCAA	4471	TGAGAAGTAGACCCAGCTGTAAC	7157	AGTAGACGGGATGGCAATACA	9843
872	CCCGTGAAAGTCAAGCTATTGATTGC	4472	CAGTGGGCAATAGATTACAGCAGAT	7158	GGATTACCCGTGAAAGTCAAGCT	9844
873	TGCTGTCTCGGAGGTGTTGAA	4473	GTCAACCCATTGGATTGTTG	7159	GTTCCATTGGCCTATGTGGAATCT	9845
874	TGGGCGCCTAAACTTCATCACA	4474	CTGTAACATGCTCTTGGGATGAAGAG	7160	TGGTGTGGGCGCTAAACT	9846
875	GACATGACATCACTTCTGCTCACA	4475	GGTTTGGCTACATAACTTGCCTTGG	7161	CTTCATCCCAAGTGACATGCA	9847
876	CTCCCCGAAACACCTCTCT	4476	AGCAAGTCTCATTTCCCTTTGG	7162	GGGTCACTCCCCCGAAAC	9848
877	AGATAAGGACTCCACAGGGAATCT	4477	TCACTGGACACCTGTTCAATTGG	7163	AGCGTCCCGATGAGATAAGGA	9849
878	TTGCCCTGTCTCAGTGATGCT	4478	AAGTTTTGGCAGTCACCATTAC	7164	GCAAGAGTACTTCAGAGGTGATACA	9850
879	CCTGGCACAAGCTGACACTTT	4479	GAGACTCCTGGGTGAGAGTGAA	7165	AGCTGCCTGGCACAAGCT	9851
880	GTGGTAGGCCGATGCATCTTCAA	4480	CTGAATTCACGAGCTGTGTCA	7166	GTCAAGAAGTGCTGTGTGTTA	9852
881	AAGCGGAGGGGGCTTTGTCT	4481	ATGCTACGGAGGGAGGTGTATACA	7167	GCACAAGTTGATCTAATGCCTATTGG	9853
882	GCTGGGTAGCACTCCCTTACT	4482	ACCCATGGGGCACACATTCA	7168	GCCCATGGGTTCTGCTTTATTG	9854
883	GAGAGCGGACTTTTCTCCCAAT	4483	GTGACAATAGAGAAAGCACCATCATC	7169	CACTGGTCCCCCTTCTACATAGTTG	9855
884	AGTATGCGTTGTAGATGTTCAATTCC	4484	CTGAGGCTCTGTTCTCCAGACAA	7170	AAATCTCATAGTTCTATTAGTATGCGTTGT	9856
885	CATCATGGTTCATCATGGTCTCTCT	4485	GGCTTGCTTCAATAGGTGAGCTACT	7171	CACCACTTCCATCATGGTTCATCA	9857
886	CACCAAGTCACCTTCTCCCTTT	4486	GCAAAACCAACAATGACAAAATCAGGTAT	7172	GGCCTGAGGAATTTTGCTATTCA	9858
887	CTCCCTCTTAACCCAAGGATACCA	4487	GCAAGGGGAGCTGTAATTGTT	7173	CAACTGTCTCTACTCCCTCTTAACC	9859
888	GGTACCCTGACAACCTTAAACAGTCT	4488	GTTCAAATTCACCCCATCTGAGA	7174	TTGATGCAGCCCTGTTTCAT	9860
889	ACCTGTGAAAGACCACTGCATACC	4489	GGGGCCAATATTTACCAGAATTATGATGGT	7175	TCTTGGCCACTGTGAAAGAC	9861
890	AGCTAGACAGAGCTGCACAAGATG	4490	GAGGTGAGGCAGTGAAACCAAT	7176	CCTCTACTCCATCTTTTACATGTGAA	9862
891	CAACCTCATGGCTGGCATGT	4491	TCAGTCTGGAACACTCCTTGACT	7177	AACAAGAGTGGCTGGTCAACCT	9863
892	TCTTACCCGCCCATCCA	4492	GGTCTGGGGCTAGCAATTGC	7178	AAGCCACCCCTCTCTTCA	9864
893	GGTCTTCAACCCTTGAGAGATGTAGGT	4493	ACCCTCTACTCTGGGCTGAATCC	7179	GCCAAGGGTCTTTTGCTTATCTTTGG	9865
894	GCTCCACAAATCTTGCCCTAT	4494	AATTGAGATCAGTGTTCTCTTATTG	7180	GCCAATATGAAAGCTGCTCCACAAA	9866
895	AGCGCCCTAGTCCAAGACAA	4495	GGAGCGTCCAGGTACAGAT	7181	CTGTGTGGGTCTCATGGAGAAG	9867
896	GTGCCAAACACAGAGCTTCATG	4496	AGGGTGACATGTCCCAATTGCA	7182	CACAACTCAGGGCCAGTCAAT	9868
897	CTAATGTGGTACTTAGCTCACAGTAAGT	4497	GAATACCAACAGACAACAGACACA	7183	CCAGGTGCCACTTCAAAATTGAAA	9869
898	ACAGAGGACCAACAATAACCTTATCC	4498	GAACATGCAGCAGTTTGGTGAT	7184	GCAGAAAATGCCAAAGAAACAATGGT	9870
899	CAGAGATTGGCACTTCCCTCTT	4499	GGTCATTTTTTTTCCAGTGAGGATGTG	7185	CCATTAGACAGAGATTGGCACTCT	9871
900	CTGCTGAGGCCTGAGACATG	4500	GGTGACACAGTACTTGATCATAGG	7186	GCCCACTATTAATCTTGATGAAACAACAC	9872
901	ACCCTGCAGTTGACAAATTTGC	4501	CAAGGCCAATGTCTAGTTAAGAAGCA	7187	CACTTTTTAACTTACCCTGCAGTTGA	9873
902	GGGAGAGGAAATATATGAGTGTGAATTAGG	4502	CAGCCTCATTCACCCTCACTACTCT	7188	GAATGTGTGTACATATGGGAGAGGAA	9874
903	CCAATACAAAGTCCCTAGCTCTTTTCTC	4503	GTGCTTTGCTGTGTTTTAACTGT	7189	GGCAGAAATGGAATACAGCAAAACAGTT	9875
904	ACTAATATTCACTGGCCAACTGTGA	4504	GGCTAAGCTAACGATATTCATCTCTCA	7190	GAGTACGACAGCAAGTAAAGTAAACT	9876
905	ACCTGTAACCTCCCTGAGGCAGAA	4505	GCTATCGATGTTGTGAAAGGTTCTGT	7191	GTGTGTCTGTCTTCCCTCTAACC	9877
906	AGAGATAGCCCATCCCAAGTTGT	4506	GAGGAGACTTGGTAAACAATCCA	7192	CAAGGATTACCACCTTAGAGATAGC	9878
907	GTGAGTAGCATGCCTTCATTGAATC	4507	GAGTCTGGGAAATGCACAATTATGGT	7193	CAGACACTGTCTGTGAGTAGCAT	9879
908	TGGAGAGGGGTGGCTTGCT	4508	AGGCTCAGGTCTCAACCACAGT	7194	CAGGACGTTTCTTACCACACAA	9880
909	AAAACAATGTCCCTGCACCTCAAG	4509	CCACATGGCACTGATTTTGACAGT	7195	TGTATGTGCTCAACTCTATGCTGATC	9881
910	GACATGACCAGGAAGCATCTCTCA	4510	GCTTCATGCTGCACCTTGCTT	7196	GGCCTGGGGTCTTACATGCA	9882
911	ACCCGCTCCACACACACA	4511	TGGTTCAACACTATAGCAGAACTGT	7197	GAGTTCTGTGAACAAATAGAGTGTGTAAT	9883
912	AGGCCTCTCAATTGATCTTTTGCT	4512	GCTCAATAACCAAGCAGCACAGA	7198	TGGGGCTCACCGCTTTATGG	9884
913	CCGAGGAACATATACCACTTGGTT	4513	CATTGGGAAATTTGCTCACTTTG	7199	TGGAGGTGACCGAGGAACATATAC	9885
914	CGTCTCACTGCTGCTTCTGT	4514	GGAAGGACTCCAGGGGAAAAACA	7200	GCCAAGATGCCGTCTCACT	9886
915	GCAACCCCTCTTTAACCCTTGC	4515	AGACGTGTGAGGGCTGTGT	7201	GACTGAAAGTTGAGGGGAAGCA	9887
916	AGGGGATGACCAACCCTGATCATA	4516	TCTTGTGCTCTTGAAGGCATTG	7202	TGGAATATGAATGTGGAGGGGATGA	9888
917	CCAGGTTAATGAGTAGTAAGTGCA	4517	CAGAGAGGCTGAATTCAAACCT	7203	TTCTCCCCAGGTTAATGAGTAGT	9889
918	GGCTTCATTATCATGACTCTGTGA	4518	GGCCTCACTGCTGTTTCA	7204	GCTCTGGGCTTCATTATCACA	9890
919	ACGTGGCTGCCTTCATCT	4519	TCAGTCCACAGCACTACCAT	7205	CCCTTCCCTCTCACAGATGAC	9891
920	CAGAGAAAAATAGCTGTCCCATTTGG	4520	GGGGAGTAATGTGCTCTTACGTT	7206	GCAAGTCTCCCATCAAGAGTTAGA	9892

921	ATTAAGCTGCACCCACACACT	4521	GGAGTTGGTTCACTCTCGAATGG	7207	GACCATCAATAGGGGATTCTTTAATTAAGC	9893
922	GGGCGTTTTTGTCTTCTTGGT	4522	CAAGATGGCTGAACCTGCAAAACG	7208	GCAGAATTCACAGGGCGTTTTTGTCT	9894
923	AAGGTGGATGTGCTCAGCAAT	4523	GCCCAACCTTGTCTGTATCACT	7209	TCCATAATGAGTCAGGTGTTCTATG	9895
924	CATCTTGGTTTTCTTCCCTTGGCAA	4524	CAAAACAACCTGATTTCTCCAATCCAACA	7210	TCTGTAGAATTTCTCCACCCTCTTG	9896
925	GACTTATTGCCTCAAACCTCTACACT	4525	GCCTGAAAGTGTACATGCCTCTTCT	7211	GCTCTGACTTATTGCCTCAAACC	9897
926	CGCTGGAGATTGAGGGTGGAAATTA	4526	CCCACCTTGGCCTTTTCTGACA	7212	TCTCCCTTGGCTGGAGATTGA	9898
927	TCTTGCCATCACCATCAGTCATAA	4527	CCTATAGGAAACACATGGCAAGGA	7213	CCTTCAAATTTCTTGCCATCACCAT	9899
928	ATGGGCTTAAAGGGGGTGGAA	4528	AAGTCACAGTGTGACAACCT	7214	AGGACACAGACCATTGGGCTTAA	9900
929	ACTGTGAGAATCCAGGCAGTA	4529	TGTGGAAGCTGCCTTTTGGT	7215	AGCACTACGTGACTGTCAGAATCC	9901
930	TCCGGGGAAGAACATTTTGACA	4530	GCTGTAATAGTAAGAGGCACCTTCTTG	7216	ACACGCCCTCTACCTTTCCA	9902
931	GGTAGGAGATGGAGCCAATGAAG	4531	GACTGTGAGAATGAATAGGCTCCTT	7217	GAGCCTGGCTACAACATAGTGT	9903
932	GCGCAAGACAGCAGAAACC	4532	GAGAGTGACCTAGGGAACTGCTA	7218	AGGGCTGACCCGGTGAGTTCA	9904
933	CTCAGACTGTGGCTTATGATGTCT	4533	GGGTAAGCTTGGGCAAGTTTAGGA	7219	CCTGGAGTTAAATCTCATCTCAGACTGT	9905
934	AGTGACAACAACAATTTGAAGATGAG	4534	TGTTCACTCCCCCGTGACTA	7220	TCACATTGAAATAGTGACAACACAACCTT	9906
935	CGGGCAGTAAGAAATTTCTGCCAAT	4535	GGATCACAATGTAACTCACCTTTGG	7221	GCAGTCGGGCAGTAAGAAATTTTC	9907
936	GTCCGAAAGAGAGCAAGGAGTT	4536	GCAGGGAGTAGCAGCAAGTT	7222	AGGCCTGTGTCCGAAAGA	9908
937	ACCAGGCAGACCCCATCAGT	4537	GGGATGCTTTAGGAATGTCAGAT	7223	AGGAAAGGAGGCGGAACCA	9909
938	AAACTCCCTGAGTCTCCGTGAA	4538	GGATGGAGAGAAGAAATGACCCTTT	7224	GCATGACGTTGGCAGATCACTT	9910
939	GCATCTGGACACCTTTCTCAAGT	4539	GCCTGGGAAGATGTGTGAATTGCA	7225	CTCTCATCGCACCATTGTCTTATGG	9911
940	CTTTCTAAGCAGGGTGGACATCAG	4540	CACCCCACTAGTCACTGATACAAAG	7226	GCTGCTAACAGAATCCTTTCTAAGCA	9912
941	TGACAAAACCCCAAGTAAACCA	4541	ACCCTGGAGACTACACATGTCT	7227	CACAAGCCCTAATATAACACTCTCTTCTG	9913
942	TCTCATGTCCCGACACCTACTG	4542	GCCTTCCCGCTGCACATG	7228	ATGAGCCAGGCATCTCGCTT	9914
943	GGACCCGCTGCATGGAAATTA	4543	CAAGCCACGGGGGACATG	7229	TCTGTGGACCCGCTGCAT	9915
944	TGTCAGTTAAGCAAGTGTCTATCT	4544	ACCCCTTCCATCCGAGAATCCT	7230	CTCCAATGTCAAGTAAAGCAAGTGT	9916
945	GCTCACTTGAGGCTCACTTACTGT	4545	ATTATACCCTGTTTGAAGTCAAATCCT	7231	CTCTCTCTCTGAATTTTGTGTTACCT	9917
946	GTGTTTAGGCCAAGTAGGAGACTTCT	4546	TGGGAACCTTGGGCAGATACCAA	7232	GCATTGAGATGGGACCTGGGTAA	9918
947	CAAGGGTTGGGTGCAGAGAA	4547	CTCTTCCTGCTTCAGCCACTT	7233	GTTGGCATCCAGATATACAGACAAAGT	9919
948	TCCTTATGGGATGGCTGTGTTG	4548	GGGCCTAGAAAACAACAGCAATG	7234	GGCAAAGAACAGAGAGCAGTGA	9920
949	GTTGTGTGAGTGAGCCAAATCAC	4549	CAGAACCTATTTTCCAATGGGCACTT	7235	CTTCTGCCATCTTAGTTGTGTGAGT	9921
950	GTTAGATCCTGACTCACTGCTTAG	4550	CACAGTCTAAGGCAAGACATGT	7236	GCAACAAACAAGTCTAGATCCTGACT	9922
951	TGCTGCCCCAAGCTCCTTA	4551	GCAAAGGTATGTTAGAAAAGCTACGT	7237	TGGGCCTCTATTGCTCCACAA	9923
952	CCTGAAATACCTAGATCCTCTCTTTGC	4552	GGAGGTGTCAATTGGGTGCTAAGA	7238	CCACTTTTCTGAAAATACCTAGATCCT	9924
953	GGCTGAGAGGATGAAATACCTGTAGTCA	4553	ACATGTAGAATGATCATCCAGGACCTA	7239	CCACAGGATGGCTGAGAGGAT	9925
954	GTGGTGCCACTCTTGAACCT	4554	CCTTTGTATACCAGTCTCTTCTGCAT	7240	GTCATCTTTCATTGGGTGAATGGT	9926
955	CATCGTGGGAGCAATTTACCTAAGG	4555	GCAACCCTCCAGGCACTCGAT	7241	TTCCAGCATCGTGGGAGCACTT	9927
956	TCAGCATCACTAACGAGGTCTTC	4556	TCCACCCTGAGCTCTCTCTGTT	7242	CCTTACCTCTCTGCTATCACTTATGC	9928
957	CACCATGGGAATGATCTGTGACTG	4557	GCATGGCCAAAGTCACTCCAGAAAA	7243	TCTCAGGACACCATGGGAATGA	9929
958	CACCTGTGGCCCCATGTTTAT	4558	TGTTGCCAAAAGTTGCTCAGTAAG	7244	ACTGCAGGGGTTTCACTTGTG	9930
959	TCCTAAGTATTCAGGAGGCTGAAGT	4559	TCGTCTCTCTGAGCTCAAGGA	7245	GCATGCTGCTCAATCTTAAGTATTACG	9931
960	GGGCTGCACATTTGATTATCATTGTGT	4560	AGGGATACACAACACCATTTAAACCT	7246	GCCTCAGGACTTAGGTATGATTTTAGCA	9932
961	AAAGCCATGGTGGGGTGTGAGA	4561	AGCTTCCCCAAGGGCACTGAA	7247	CATCAAGATGATCTTTGATGTGGAAAGT	9933
962	ACTGCTGGCTGCTCAAAGCTA	4562	CCAAGGCCAAGAGCAACTTATGG	7248	CCAGCTGTTGAGAGTGTGACT	9934
963	AGCTGGGGAGACTTAGTCAGATGA	4563	ACCAGCCTTGGGGAATGGA	7249	AGGTGAGCTGGGGAGACTTAG	9935
964	TGAGCTGAAGTTCCTTGCTGAGATT	4564	GGTTTCCCCAATACCCAGTTCA	7250	GGAACCATGTGAGCTGAAGTCTTG	9936
965	TGCAGGAAGCCACACAGAAGTT	4565	AGAACCTGGCCATCTCTTCCAT	7251	GCACTGGCAAACTCAGGAAGA	9937
966	GCCTAAATATTTGCTGCTGGCCTTTTAC	4566	CCAGGGGTTGGCAAACTTGTT	7252	GCAGAGCCTAAATATTTGCTGTCT	9938
967	AGGCATGGTCAGAAAGGGTTAAGAG	4567	GGAGGTAACACCATCCCTGATTAG	7253	CAGATTACAGGCATGGTCAGAAG	9939
968	TCCAGATGTCCCATGGAGTAGGA	4568	GGTAAAAGCTCCTCTCTCTCGTAGA	7254	GCTTCCAGAGGATTCAGATGTC	9940
969	GCTTGCTCCATCTGAAATTCC	4569	AGCCTGGGATGCTCCACTA	7255	AGGGGTGCTTGGCTCCATCT	9941
970	CCTGCTCAGGCCATTTCAA	4570	TGGGAGGTGCAAAAGGCTTTGT	7256	ACCCAGAGTTAAAGCCAAAATAGGT	9942
971	AAGCCTTCCAGACTGGGCAAA	4571	CGAATGCCACACATGTGATGGT	7257	CTTTGTGACTCCAAGCCTTCCA	9943
972	GGACTCAACACCAATTTCCAGAGA	4572	ATCCATGCCATCAACCACTT	7258	GTGGAAGGACTCAACACCAAT	9944
973	CTGAGCCACAGAACACACAAGT	4573	TGAGAAAGGCTGGCATGACTCT	7259	CTGCTTCCAGTGTCTAAGTGA	9945
974	GCACGTATGTGTGTTGATGGACATA	4574	CAGCAACTCAATTTTTATTGGCCAAA	7260	GTTGATGAACCTGTTAATGCACGTA	9946
975	GTTGCACTACAAGGTAGATTGGGTTA	4575	GATTGGCCTACTGCATAATTCCTAT	7261	CAGTCTGTTGCACTACAAGGTAGA	9947
976	GACAAGGGCTTGAGGTTACACA	4576	GGAACCTAGCCAGGCTGGAATATCA	7262	AGTGTTAGGACAAGGGCTTGAG	9948
977	TCGTGGAATTTGCTGTTCTTTGC	4577	GGAAATGGGGCTTCTCGTTCAAT	7263	TGTGGGACCTCGTGGGATTGT	9949
978	ACTGTAACAATGTTAAGAGGCACAGA	4578	CTAATTCACCCCAATGTCAGAGGAA	7264	GACTTTGACCAGCACTATACTGTAACA	9950
979	GTTGTCTTAAATATGCCATAGTCATTCATG	4579	CGGCTAACACATGTCAGGAATG	7265	GCCATCACAGTTGCTCTTAATATGC	9951
980	TCACAGACAGCAGATCCCTGAT	4580	GCAGCAACCATCTTCACAAGGT	7266	GCAGAATCCAGCCCTCTCATTT	9952
981	GAACTTATGCTGAGATTCCATTAAATCCA	4581	GGAGGAGCAAGGGTGGGAAGTA	7267	CTGGGATTTGAACTTATGCTGAGA	9953
982	AGTAAATCAATGCTACTGGATCCATGAA	4582	TGTGGCAGAAATAGATCCCATGTC	7268	GCCCTTTGGTTTGCAAGAAAAACA	9954
983	GGTGACCAACTGTCTCTGAGGAAA	4583	CCATCTGCTTATGTGACAGAGACCAA	7269	TGCCCACAACCTCTGACTAAGT	9955
984	GGTAGGAGTTGGGGGAAAATGAAA	4584	CCATTGCTTACAAACGGTCAT	7270	GTGGGGGAAGGGATAAGGTAGGA	9956
985	GATGTACCGCCACTTTTAAAGC	4585	CGCTAGTCCAGATTTTAGTGTAATGC	7271	GATGCATAGAAATGTCCCAATATTTCTGA	9957
986	TGCACACTTCTCGGAAAAACAG	4586	TGAAAAACCTGGTTGCCAGTT	7272	AGCCGAGATACCTGTCCCATCAAC	9958

987	GGTGTCA GATTTCATT CAGAGAGGAT	4587	GCCTCACAGGGCTGACATGT	7273	TGAGCATCAAAGAGTAGTTTCAATATGAC	9959
988	CCAAGGTTCTTTTCACTATGTCTAGCT	4588	TGATGGTTTAAACGTTGGAGGAAAC	7274	TGACAAAAATCCAAGGTTCTTTTCACT	9960
989	AGGGCCACATCCCCACAA	4589	GCAGGCTGTGCTACGTTTTCTT	7275	GCCCAGTATTGAACTTCTCCCTTAGGA	9961
990	GTGGGAGCTCTAACTTGACACTATT	4590	GGGGTAAAGGAGGTTTCAAGCA	7276	TCTACCCCTGATGTAACCTGGCTAT	9962
991	CCTACACCTGCTTCTGTCTT	4591	GCCTGCCTGAAATCTCAGTCT	7277	AGAGCTTCCCTACACCTGCTT	9963
992	ACCAACTCTGCGTATCTGGAATG	4592	GTGATGAGCACAGGTTATTCTGACA	7278	ATTCTGGAACCAACTCTGCGTAT	9964
993	GGCCTCTAGACCATTTCAGA	4593	GCCATGCTTTCATTGGCAAAGG	7279	CCTGAAGGGGTGCTCTGTGA	9965
994	TGCTCCTAGAATAAGGACACACTCA	4594	GATGACTAAGTTGCCTGTGAGTCT	7280	CAGAGAAGTCACTCTGGGGACTAT	9966
995	CCCAAGGACCATATGTAACCTACCA	4595	CTGTGAGCAAGTGAGAGGTATCA	7281	TCCACACCCAAGGACCATATGT	9967
996	CCTGAACAAAGACAGCCCAATG	4596	TGGCAGCTTTTCTGCTCTGTT	7282	GGAAATAATAATGATAAGGGCCTGAACA	9968
997	AAATGTCCTCCACAGGCATT	4597	CCGCGCTGTGTGACTCAAAC	7283	GAAGCTTCCCCACCCACTAAAA	9969
998	CACATCAGTTCTGTGGGAGATACC	4598	CCGTAGGTGGGAGTTCATGTCTTA	7284	GGAATAAATCAGCAACATGCCTTGGA	9970
999	CACGTGGTTGTGGGGAACAA	4599	CCCCATGGCACCACCTTACA	7285	TGCATGGGCACGTGGTTGT	9971
1000	TCCCCATCACCTTATTTTGACAAGA	4600	AGGTGGCACATAGGAGCTGAA	7286	GCTACTCCATTACAGTTCTCTGTT	9972
1001	GTCAACCCGAATAGCTCTTTCT	4601	CAAAAGGAGAGGTAAACCTGTCTT	7287	TGAGGAAGGCATGAAGGAACT	9973
1002	AGAGAATTGAGTTATGCTGCCATAAATC	4602	AGGTTCTGATGGCCACAGA	7288	GGGGTCAGAGAATTGAGTTATGCT	9974
1003	CCATGTGGCAGGAAGAACCA	4603	GGGTAAGTGGCTGTATCCAAGTTCA	7289	CCAGGGCACAAGATCTTATTTTATCAC	9975
1004	CCTTGAAGGAATGGACCTAGACATG	4604	CCTGATCCATCTTGCTCCCTTTT	7290	GGCAAAGAAGTCAAGGCTCCTT	9976
1005	CTCCTTCTCCAAGACAGGAATCC	4605	TTACCCCCATGACCCAGACA	7291	AGCCTCTCCCTGGGTITTAAGC	9977
1006	GGACGCCACTTTAAATCCAACCTG	4606	TCCAAGGGTCTCTGAGTGATCCTTA	7292	GAGCTATGTATAGGACGCCACTTT	9978
1007	TTCTAGCCAGGTGACCATCTAG	4607	GTGAAACAATTCAAGGGTCATTGATCTG	7293	CCTTGTGGATGACAGGAGTTTCT	9979
1008	TCTACCTCTAGCTGCTTCACT	4608	CTGAGTTGCCCTGGACACACAGTT	7294	GCATGACTGAGAGTGGGATGTTCCA	9980
1009	GGATGATTGCCATTTCTGAACAC	4609	CAAGGTTCTTCACTGACACTTAAAG	7295	CCATCCCCAAGCTCTTTTGTGT	9981
1010	AGAAAGCCACAATGTTGGAGAGA	4610	CTGGAGCCCACTCTGT	7296	CTGGCTTGCTATGCTGTTTATTGT	9982
1011	CCTGGTCACCATATCCAGGAGTA	4611	GTGGGGGTGTTATTTGGTGTC	7297	AGCAAGGCAGTTATTAATTGTTAGGATTA	9983
1012	AGACCTAGCCATGGGTACTAAGAA	4612	TGGACACAGAATCAGCATTCCT	7298	CCTCCAGGTAGAGATTCTAAGTAGACAGA	9984
1013	CCATCTTTGACCTCCAAGTTG	4613	TTTACTGGTGGTAGATTAGCCAAGAG	7299	TCTCCCATCCACCATCTTTGCA	9985
1014	AGCAACCCACAGAAGCCATGAG	4614	CCACCTGCATTCTTTGTCTGTGT	7300	GGAGATGGAAGCAACCCACAGAA	9986
1015	GGTGCAAGCCATTGGTGGTT	4615	AGCTGTGGGAAAGGGTCCTT	7301	CCTCCCAGCTGCCTTCACA	9987
1016	CAAGGCATGTTTATACAACAACACG	4616	ATGCCCGCTGTTGTGT	7302	GCTTCAGGCCAGTAGTTTGAGA	9988
1017	CAGGGCATGGAGGGATGGA	4617	CTCTTCGCTCCTTTGGAGTTGA	7303	TGGATGGCAGGGCATGGA	9989
1018	GGAGGTTTCTAACTGGTGGGATGT	4618	GCTGCCCGGTGTCAAGATAATA	7304	TGGTCAAGAAGTCTCTTTCTATGG	9990
1019	GGGAGTACTCAAGCTATGCTGATGTG	4619	AGTCTTGGTATCAGGTCTTAGGAT	7305	AGGGAAGGGAGTACTCAAGCTATG	9991
1020	GCAGTCATCATCAAGTTGAGTCTCT	4620	ATGCAAGAAGTCTGGGAAGCT	7306	AAATGTTCAAGTTTCTCCCATCATTTT	9992
1021	AGGAACCTCCAGTGCCAAGGA	4621	CTGAAGGATGATTGGGAAGGTTGA	7307	TGCGTCAGGACTGAGAACCT	9993
1022	GTTTTTCAACCAATTACCTGGATGT	4622	CGATTTTGCCAAGGGAATTGCT	7308	GGCAGATGGCTTGATGACTGTT	9994
1023	CATCTATTACCTGCAITTGTTACATTGC	4623	GCTTTGTGTATGCAAGAGTGGTACCA	7309	CCTCTAACATCTATTACCTGATTGTT	9995
1024	TCCAGAGAGGATAGGGGATGTG	4624	TCTCACATAGTGTGTGCTTTACT	7310	CTCTAGTCTCCACTTCTCCAGAGA	9996
1025	AGCCAGGCATCCATACGACCTA	4625	GAGTAAGTGGAGCAGGTTTAAATGG	7311	TCAACAAGCCAGGCATCCAT	9997
1026	TGTTTTTCCACTGGCCTAGCA	4626	CACACATTGGCACATGTCACA	7312	GGTACCTGTTATCAAAACCTGTTTC	9998
1027	CTCAGTCCCTAATTGCTATGGTAAAG	4627	ATAGCCTCCTCACCTCATCTGT	7313	ACACAGAGCATCCTCCCTACTC	9999
1028	CACCTAAGCCAATAAACCAGAAACAC	4628	GGGTACACAGCAAACTTCTCTTGT	7314	CCCCTCACCTAATTTTCACTGTTGTTG	10000
1029	CGTACATATGGCTATTCTGGAAGTGA	4629	AGCGTGGAGAGGATCTGTAAGT	7315	CCTTCATCTTTGGGATAAATCTAAGCTT	10001
1030	TGAGAGACCTAGAGGCAGCTAT	4630	ACTGTTGCTGAGTATATCCACTATAC	7316	CCTAGCTCTGCTGCTGAGAGA	10002
1031	CCTTGAAAGTAGGCCTGAAGTAGT	4631	ACGTACACTAAGGATGGGATAGCT	7317	GGGTTTGCTCATCTTACTTTTCAA	10003
1032	CACAAAACCATACACCTTCCA	4632	GATCCATACCTGTGAGGGAGGTAA	7318	TGGCCACATTTTCTATTGTGCAT	10004
1033	GACAAAACACCTGAGGTCAATTGGT	4633	TCTACTTTGCCACTGAAATTGCT	7319	GCTGTGTCATGCTGTGGTA	10005
1034	AAAGACGGTCCACCTGAGGTT	4634	GGGGGAGGAATGAGCTTCAA	7320	GGCAAAGCAAATGCGTCTTTTCC	10006
1035	AGCGAACATGCTGACACCTACT	4635	ACCCCTGCCCATATCACA	7321	GCAATCATTCATATACTCAGCGAACATG	10007
1036	CCAGGGAGAGCACTGGGTTT	4636	CCTGCCCTATTCTGTAACGTCAA	7322	TCCACAGAGTCTAAAATGATTGGA	10008
1037	AGGCAATGGGCTCCCTTCA	4637	GCTTTCAGACAACAGTTCTAGACACA	7323	GCCTGGCTATCACTCATGTTTCTTT	10009
1038	TGATTAGTGGCCACAATGAATTAGC	4638	CATAATGCTTGCATGGCTGTCA	7324	TGTTGTCAAGCCCTCCACTT	10010
1039	TCATTCAATATGCCCTGTGTTAATG	4639	GGCTAGTCAAAAGAAAGGTAGGAATGG	7325	TCCTGAATTGCATTCTTGTTCT	10011
1040	GCTCCACTGGCCTCTACAA	4640	AAGCATCGCAGAAGAGGCATCT	7326	AGCTGAGAAGGCTCCACACT	10012
1041	CTTCAGCTCAACCTCCCTTTT	4641	GCTTGGAAAGGAGGGTGGAAAA	7327	AGGCCAGCTTAGCTCTTCA	10013
1042	GGTGTCTCTGCAAAATGGAGCAACA	4642	TGGAGAGCTTATTCAATCTCCACTAC	7328	TGGCATAGGTTTCTGCAAAATG	10014
1043	CACCTGTGCTTACTAGTCTGGTATCA	4643	AGAAGCATCAGAACAGGTTTACA	7329	GCCTCACATTGTTCACTCTGGTCTAC	10015
1044	AGGGCAAGGAGAATCCTGACTT	4644	CCCCGGCTTGAGAACTGTT	7330	GGCAAGTTGGTAGCAGAATATTGAG	10016
1045	CGACAAATCTCTGAAACAAGTTGTG	4645	AGCTGAGAGAATGGGGACAGT	7331	GGGTATTTCTTTAACGACAAATCTCTTGA	10017
1046	TGCAGTCATTGGGCCATTGT	4646	TCACGGTAATCAGTCATTACATTCTCT	7332	GTGACAGACACTGAATCTGGCAATT	10018
1047	AAAGGAGCTGGGGCAATGC	4647	CACATACACAGGCTTTAGAGGAA	7333	ACGTAGAGGGCTCTTGAGTTT	10019
1048	TGGGCAGGCAGCTTAGTACAT	4648	TGGACTTCTGGACCCAGCTTT	7334	TGAGGAGTCAGAGCCAAAGACA	10020
1049	ACTTTCATCTACCCCTTGACATCTC	4649	TCAAGGTCAATATGCACACTTTTGC	7335	AGGGAGTGAAATTATGAGTCTTTTG	10021
1050	GGCTTACACACTTACTGTACACCTAG	4650	GAGATTTCATGACAAATGGTCTCAGT	7336	GGATGGGCTTACACACTTTACTGT	10022
1051	CTGGCCTCTGGGGGTACA	4651	ATTACATTGATGGGGATTGTTTGCA	7337	GGATTGCCAGCCTCTTCTCT	10023
1052	GTGGGAATCCATGAAGCTAGCT	4652	AGGACCCAAACTAGGTTCTTCTT	7338	GCGGTGTGATTAAATGTGGGAATCC	10024

1053	CACCTGGCAGGAATGATGGTTT	4653	CATTGGTCCTTCAACCTTGCTTT	7339	GCTATTTCAATAACACCTGGCAGGAA	10025
1054	AAATGCTTCAACACATCCCTTGAAA	4654	GACAGACAAAAGTCTATGGCATCCA	7340	CAGGGCTACTGCTCACCAAAATA	10026
1055	GCCTCTGCCACTTGCTCTGT	4655	CAGGTGTGCATGGAGATGTTTG	7341	TCTTTCAGCCTCCGTCTCCTA	10027
1056	ACACCATCCCTGAGTGACA	4656	TTGGAGCTAGGGAAGTGGAGGAT	7342	GACCAAGGGCCACACCAT	10028
1057	TCCTCCCAGACCTATGCTCTT	4657	GGGGATACAAGAAGGCACAAAGCT	7343	TCGGCAGTTGATGATGTGATG	10029
1058	AACTGGAGCTGGAGCAGTTG	4658	TGCACAGCCTCAGCATCCT	7344	GGCCGTTTTGAGCTACAACCTG	10030
1059	GCAAACATCCAGTGACCTTACATATTG	4659	GCAAGGAAGTTTGCCAGTATGCA	7345	GTGACGAAACATCCAGTGACCTT	10031
1060	CAGAGTCTCTGACCATGGATTACAC	4660	AAGGCCAAAGGTGGGAGCAAT	7346	GTTTTAAAGTGATGCCCTTTTCAGA	10032
1061	AGTAACAGGACAGATGTCAATTCCAT	4661	GTCTGAGAGAGGAGCAGTCTATACT	7347	GCACTTTTACAAAATTTACCCAGTTT	10033
1062	CTCTACTTTCCACAGGCTTTCT	4662	GCTCCACCCCAAGATGTTGTTGAA	7348	TGCCAGCACCCCTCTACTTTCC	10034
1063	ATGCTCTTAGGCATGGGAAGTC	4663	CCCATGAGTGACATTTCTGCAGTA	7349	GCTTACATTCCCTGTGATGCTCTTAG	10035
1064	CAGCTCAGGACTGCAGAAC	4664	ACCAAGTGGGTATGCTCAGTCT	7350	ACCCCAACCAAAACATTCAACT	10036
1065	ACCCACCCAGCCTTGGAAGG	4665	CAGTTAGAGAAAAGTGTGGCTTCCT	7351	CCGGTACCGCACCCAGCTT	10037
1066	ACCCTATAGCCTTTATCAGCAAGGA	4666	AACCCACTGTCACGCTTTCT	7352	GAGGTGGAGACCTATAGCCTTTATC	10038
1067	AGAACCTCGGAATGGCTTCCT	4667	GAGAGTGACAGGAAGTGAAGTCTGA	7353	GGAAAGGGGCTACTGACTTTTC	10039
1068	GCGGGTGACGTTAGGAGACA	4668	ACCAAGGCCTACTGGTTTTCC	7354	AGCGAGGCGGGTGACGTT	10040
1069	AAGGCAGGGACTTGGTGACT	4669	GGTTTTAAGCAAGTGGAGACCAT	7355	AGCCCTGAGTGAGATGCTATT	10041
1070	AAGCTGGCTCCACTGAGAGAAT	4670	CATGCTGTTTGCTAGTACACAA	7356	AAAATAACCACTGGCAACTTATAAGCT	10042
1071	CCCCAGCAGTTTGTCATCA	4671	GCACTAGAACATCAACGCATCTG	7357	CAGCACAGGTAATCAGTTCATGA	10043
1072	GGTGCCAGTTTCTGCTGCAT	4672	GGCCTAGAGTTGCAACCTTACGAA	7358	GGAAGAGTGGGAAGGACTTTGTCT	10044
1073	GTGCACTACAGCTACTTTCTGAAGT	4673	AGTTCCTCTCTGCTCTTTTG	7359	CTGCTGAAGCTCAGGGGTTT	10045
1074	TTCTTACACCTCAITTCAGTTGTTT	4674	GGGACATATGTTGCAGGTAGAGCTA	7360	CCCTACTTCTTACACCTCATTC	10046
1075	CCGGTCTCACTGCCTCTT	4675	TCAGCCTACCACACTCACACT	7361	CCAATTGCAAGAATCAAGGAGATTTCC	10047
1076	TCAGTGGTCGCTATCTTTGAA	4676	CCACACCAAGTTTTGCGGCAAA	7362	TGCCTTTGCTGTGTTCTTATTCA	10048
1077	CCTAGAAAACGGCTGTGCATGGA	4677	AGACTAGGGGGAGACAGAAAAGTC	7363	CCTGCTCTCTTTCTAGGTTTGGATGAT	10049
1078	GGGTAAGCTCACATGCTCTCAT	4678	CAAGGAGAATGTGCCCTTCTAAA	7364	TCCTTCTCTACCCCTCACTCTCT	10050
1079	CTGGGAGCACTCCTGTCTTT	4679	GAGGTGTGTTGATTGTGCTACCT	7365	CCTTAGCAGCTATATTCTATAACGTCACAA	10051
1080	ACAGGCCACCCAGAGTAAGAC	4680	CGTGGCAAGTACCTCACAACTT	7366	TGGTAGAGACACATCTCCAACCA	10052
1081	AAGCCAGTTTTGCTCCCTTTC	4681	CGCTTTTATCTGGAATCAGGAATGTTG	7367	CCTTGAAAAGCCAGTTTTGCT	10053
1082	TGCTTTTACTTGAAGTTATAGCTCAGTCA	4682	CAGCGCTTAACCAAGCACTAAGT	7368	CCTACTGATTGTGGATGTGATGTTTC	10054
1083	TCTGCCCATCAAAACCAACCA	4683	GGGCCTTATCAAAAGCCTTTTACA	7369	CATGACTCAGATTCTGCCCATCAA	10055
1084	AGCTACCCAATACCTGTGGAA	4684	GCTCTTTGAGAAGACAGCCTCCAT	7370	AGTGCCAGCACCTGTAGGA	10056
1085	GCAGGAGTGCAATTAAGAGTCAACTAG	4685	AGCTGGAGCACTTGAGTCAATCC	7371	GGGACAGGGAATCAATCATAACATCT	10057
1086	CTGAAATCCTATTGAGTGTGGATGCA	4686	CAACAGTGCCTATTTCAAGGTGTTG	7372	CTCTTGGTGAAGCTGAATCCTATTGAG	10058
1087	CCACTCTTAGGGAGCCATTTCTTACC	4687	GATGAAGCAACATTTATTGCTAGCT	7373	GCCTGAGAGCTTGCAATTCCTAA	10059
1088	TCCATCACCTGCTAGCTGTGA	4688	GGACATTGGGGGATTGAAAAAG	7374	TGGGCTCAGCCTCCATCAC	10060
1089	CATCAGTGTGCTGAGCAAACTTG	4689	GGGCTCTGATGGCATTGTGA	7375	GTTTCCTATCCCTCAGTGATGATACAT	10061
1090	TGCGGCTGTGTGTTAACAGA	4690	CCTGTGACAAAAGAGGCAATGCT	7376	CAAGCTATGGTGAATGAGTTAGTAAAGTT	10062
1091	ACAAAACAGGGGCCCATGGA	4691	CCACAAGCAGTTTGAGCTACCT	7377	AGAGATCTGACTCGTAGAAGAAAGAAA	10063
1092	GAATGATGGGAGACAGTTTTTTAGCA	4692	CCAAGTCTTTACAACATTGCCTCTCA	7378	GGGAGAAGAATGATGGGAGACAGT	10064
1093	AGTGGCTGGCCGGATCCTA	4693	GTCACTCAACCCCTTGCA	7379	CACATTCCTCAAGGTGACAT	10065
1094	GCTAGGTAGGAGGCAAAATTGTCTCA	4694	CCATATCATCCATGGTGCAGAAAGAC	7380	CCATTACATCCCTGCTAGGTAGGA	10066
1095	TCTGCCACCCCTCATGTTCTCT	4695	TTCAAACGCACAGCTTGGGACTT	7381	GGTATAGGAGAAGCTTGGAGTCTCTCT	10067
1096	TGCAGTGGGTCTTCTGATTCTG	4696	TCCTGAGAGCTGGTGATGAG	7382	CCGAGTGGCTAGGTTTTTATTATGTTCTG	10068
1097	GGAGACCCCGGCATAAGTCT	4697	TTCCAGCTCTGAGCTCTTGCA	7383	GTGACAGCTGAGCCACTAGAC	10069
1098	AGGAGGGGCCACGCTAA	4698	GGCCTTTTCCCATGTGATTGT	7384	CCTGAGCTCCCTGTGAAGGA	10070
1099	TGGCCTTATCAGACTCTCTTCTCT	4699	GTTGGTGACTGATTGAGGAGTA	7385	GTGGCTATACATTGGCCTTATCACA	10071
1100	CCTGAGAGTGACTTGTGATTGTTG	4700	TCTGCGCAAGATTGCTCTT	7386	CTTAAGTTTATACCTGAGAGTGACTTGT	10072
1101	CGGGAGCTTACTTGCTTCTGT	4701	GGAGATAATGTGTTTACAGGAGTGTCT	7387	CTGACCCCCAGCTGATG	10073
1102	TCACAAATACAGTGCTAGGTCATG	4702	GCACACAAACTTCTGCTCATTTTTAGC	7388	CTGGAAGGTAAGAGAAAAAGCACTTT	10074
1103	TCCTGAGGGCCAGTGACCTTAT	4703	CTGACAGGCACATCTAAGAAGCT	7389	GGCTATTACCTATCTCCAGTAGAACAAA	10075
1104	GAGCTCACTCTCTCTTTTGCA	4704	GCTCCGAGGGAAGGCATT	7390	AAGGGCTGTGAGCTCACT	10076
1105	GCCAGTATCCCATGTGAAATAGACTATTGG	4705	AGCAGATGGCCTGTGTCAC	7391	CCAAGCCAGTATCCCATGTGAA	10077
1106	CCTGACCCAGGCCAGTCT	4706	CTAGACAGTGTGGCTGGAACAT	7392	CTTTTCTCTACATACCTTAAATGGATAGC	10078
1107	CCTGTTGTGGTTCGATGGTTTAGC	4707	CCTGTGAGCTGGGCCATTTTTT	7393	CTGAGAAGCGTAAAAAACCTTTAACT	10079
1108	GTCTCTTTGCTGCAGGCTTTT	4708	GGTGGCATGCTGAAATCAGAAG	7394	ACCTCACACCTGGACCATCAA	10080
1109	GGGGCTACCTTTCCCTTTTC	4709	CCCAAAAAGATGGAACAGCCTTTGTC	7395	TGCATGGAAAGGGGGCTACCT	10081
1110	GCTTGTGGTGATCGCTTAAAGG	4710	TCTTGAACAGTGTGCCATGCT	7396	CATGCTCCATGATCCTTACAGCAAGGA	10082
1111	GCAAATCTGCAACCTGGAAGGA	4711	TGAACATCTTGGTGGGGAGACA	7397	GGGTCTGGAGATAGTGTAGCAAAATCT	10083
1112	TGTTAGGGCATGATCCTGTTT	4712	GTTCAAGAAACACTTGCTAGAGGAA	7398	ACCTCCTGTTCTTTCTGTGTTTCTG	10084
1113	ACCACGGTCTTTCTGGAATGT	4713	CAGAAAAGTTTCAAGCAAGCCTTT	7399	GCTGTGTTTTTACACAGGCTCTTC	10085
1114	GTCCACAATACAGAGAGTCTTCTCT	4714	AGAAGGCTGAGTGGGGAGTT	7400	AGCTAAAGTGTGTCCACAATACA	10086
1115	AGGTTCCAGCAGGTGTAGAATGG	4715	GCCAACAGCACTGTGCATACCA	7401	ACTCATTTGTGCTTGAAGGTTCCA	10087
1116	TCACTCGGTCTCAGCGTTAGAT	4716	GGCCGGGTAGAATATGATCAGACA	7402	GGTGTCTCTACTCGGTCTCA	10088
1117	CCAATAAAATCTGGGGCTTCTCAGT	4717	TGGGCTTGCAACAGTTGGAAC	7403	CCTTGATAACACAAAGTTGCCAATAAAAT	10089
1118	ACGGAGCAAGATCAGCTTCAGTAG	4718	TGGGAGGAACCTGTGGTTTTGG	7404	GAAGGAGACGGAGCAAGATCAG	10090

1119	GCAGTCTCTATGGGGTCATAGTTG	4719	TGGCTGGAGGTTGTGATTGG	7405	AACAAGGCAGCAGTCTCTATGG	10091
1120	ACTTTTCTGCAGTGATCTCCATCT	4720	TGTGGGGGCTAATGGTTTCT	7406	CCTTGCCATTACCTTGTATTGACT	10092
1121	GCCCACTCAAGTCTGTACCCCTT	4721	GGAAGGAATCACTAGTACTTACGCTAT	7407	GCTACCATGCCAGTCAAGTCT	10093
1122	CCCATTTGGAGGTGAGGAAATGTAGTC	4722	AGCATTACAAGCAACCAGGTGAA	7408	GTTTCCCATTTGGAGGTGAGGAA	10094
1123	TGAGAGCTGAAATCAACACTGCTT	4723	TGGATAGACCGTTCTATGCCATATCTA	7409	GGCAAACCCAAATGGACGATGA	10095
1124	ACCTGGGCGCTGCCTGTATGA	4724	GGATAACAAGGGGCCAGATAGTG	7410	CCACACTCAGGATTCTTGGAAACA	10096
1125	TCTCCAGTTTATAGTGGGTGAGACT	4725	CGGGGGGGTCTACTCAGA	7411	AATTTGTGACAGGCATATGCACAAT	10097
1126	GGTCACTCTATGTCCTCTGTGTA	4726	CATGAGAAATAAATAGTCATTGCTGCTCA	7412	GTTTGTGTCTGCAATGATTATGCAAAA	10098
1127	GCTCAGCTGTAGGAGATTGTCT	4727	GGTGAAGAATGAGGCTGTACCTT	7413	CAACTCCATGAGCTCAGCTGTA	10099
1128	ACTGTTTCTGTCAGGGCCAGAT	4728	CAAAGACTGTATCTCCATAAAGCCTAA	7414	TGCATATATCTTGCACTAATCTCCCAT	10100
1129	CCTTGCTTTTGGTCTGGTTTGG	4729	ATGTGAAGGTAGAAGCATGTGTCT	7415	CCCAGAAGGCTTCCAATTTGAACAATA	10101
1130	TGGCGTGGGCGTGTGAAG	4730	TCCCTCGCTCATCCCACTT	7416	TTCCATGGCCTTGGAGAAAAATAAC	10102
1131	GGTAGGTAGAGGTAGGTTTGTACA	4731	AGCTTTTGACAGCTGCACTATTCAA	7417	GGAGGGAAAAATAGGGAAGTAGATG	10103
1132	GCTTAGGAATGCCTGGGATGA	4732	CCGATCCAAGTTGCCATCCT	7418	GCACTAACCTGCTTTAGGAATGC	10104
1133	CCAACTCTTCCCCTAGGTTTTATTGG	4733	TGCTCAGGGGTTTTTGGTGATA	7419	TCTCCAACTCTTCCCTAGGTT	10105
1134	CCCTCTAGAAACCTGTCTCATGGGTTA	4734	TGAGCAGTGACATTGTAGTTAAAGCT	7420	GGCCATTTTTTCCCCTCTAGAAACC	10106
1135	GGTGCCAATGGCAATTCAGTGA	4735	AGGGACTGAGGCAACGACTGAATG	7421	GTATGGATAAATAAGTGAAGGTCCAATGG	10107
1136	CCTCAGGGACTAAGTTCTCCATTTC	4736	GGCAGCTTCCAGGAGTAAAGAG	7422	AGCTCCCTCAGGGACTAAGTTCT	10108
1137	GTGGGAAGGAAATGGGACAGAT	4737	TGATGGTACACAGCTCTCATAGG	7423	CTGTTTGTACAGTGGGAAGGA	10109
1138	CTCTGTTCTGCCTTGCTGAAAGT	4738	TGACTGCAGGGTGTGACTGT	7424	CTCTCCCACTGCTCTGTCTCTG	10110
1139	TGGGGTCACTTGGGAAGATTGGA	4739	CCACATGCTAGGCTGGGTAGA	7425	GGCATGGGGTCACTTGGGA	10111
1140	TGTAGCCATTTCCCTATCTAGGT	4740	CCAGATGGAGTGGGTAAATACAC	7426	GAAAGTTTCCAGTTTGTCTAGCTTGTA	10112
1141	CTTCAGGCTTGGACTAGAAGTACAC	4741	CAGTTGGCAAGCTGGAGACT	7427	TCTGGACTTCAGGCTTGGACTAG	10113
1142	CCAGATCTTCATTGCGCCTCTGAT	4742	TTGTCCCTGAGTCAGTGGCTTA	7428	CCACTGAATAGGGGGAAAAATGGT	10114
1143	CCAACCAGCTATGCTACCATTTCTAC	4743	CCTCAAGCCCTCTTAGTAGGCATAA	7429	GCTTAGACCAACCAGCTATGCT	10115
1144	GAGAGATGGTTCTATCTCTGAAGCT	4744	CTGGTCCAGTCTTCTTGCTT	7430	CCACTGCAAGAGAGATGGATTCCTA	10116
1145	CTGTTGATTGGTGTGAATGGTAGGA	4745	CCCTGTCCTTTACTCCTAAGAGTCT	7431	TTTACAAGGTTAAGAGAGCTTCTGTTGAT	10117
1146	CACAATACCTCAGGGCACCTAGTG	4746	TCCACAGTTCAGCTCAGTCACT	7432	TTTCCAAGAAGAGGCCACAATACCT	10118
1147	GCTGAGCCACTGCCTCACA	4747	CACTGCTCCATTTTGGCTTATGTTTT	7433	TCCACATGCAAGAGAAAGAAGCT	10119
1148	AGGCCATCGTTGAAGCCAAT	4748	CTGCTGTGAACACTTGGTTATAGTG	7434	TGAGGTACTATCAGGCCCTCTCT	10120
1149	TGGAAAACCCCTTCAATCAAAGTCTGA	4749	TGGGTTGTGGGGATTGGAGAGA	7435	GCCCTAGGAATATTGAAAAACCCCTCA	10121
1150	CACCCGAGCTGTTGTTTGA	4750	CGGTGCAGAGGATGGTGTGA	7436	GCCTGTGTTCTCACCTGTGAAATG	10122
1151	GTGTCTGCTCAGCACATGGT	4751	TTCTGTCACCCCAACACACTTG	7437	GGCCCATGTAGTGTCTGACTTTTG	10123
1152	TCTCTCTGGGCTCAGACCAT	4752	CGATGGAGGCAGATTGTAGCAA	7438	CACCCACTTCCATACAGTGTGAG	10124
1153	ACAGGCCACCAAGAGATTTCAT	4753	CTGTTGTCATGTTGCTTGAGGCTAT	7439	AGGCCAGAGTTGGGGAAATTACA	10125
1154	ACCGCACTGCACTGTGGTT	4754	CAAACCTTGCAGGCTGACCTTCAT	7440	CTTGACTTTGGCATTGCATCCA	10126
1155	GTGAACAGTGTCTAGGGTTTTGGT	4755	TCAACACCTGAGAAGACTGTTCA	7441	CATGAGCTCTTTCTAGTGAACAGTGT	10127
1156	CGCTCCTCTCTACCACTAA	4756	GACTCTCCAGTTAGATGGACCAAGAG	7442	GCCAGCGCTCCTCTCTCA	10128
1157	AGCAAGCAAGCAGCACACT	4757	GGTTAAGGAGACAGAAATGTACCAGTT	7443	ACGCTTCTAACAGCCTCTCTCT	10129
1158	AGGTGCAGCCCCAAGTGA	4758	TGGCATGGCAGTGGCAGAA	7444	AGGAGAAGAGTCCAGTCTGTCTT	10130
1159	GTCTTCTCTCTACCCCTACT	4759	GTTCCAGAGAGTGGTTTATACTGT	7445	CACAGTTGAGTGTCTCTCTCTCT	10131
1160	TGCTTCTCCGTACAGCTAAG	4760	CCTCTCAGAATGCAAAATGGTAGGA	7446	ACCCGAGCTCTATCCCATATGG	10132
1161	GCTGGCCCTTTAAATATCCCAAGAGA	4761	TGCAACGAACTTTCTCCTCAT	7447	CTCCACCTTCCCCTTGACATT	10133
1162	TCCAGCAGCTAGTAAGGAAGCA	4762	AAGTCAAGGGGTGGTTTCCA	7448	TGCAGGCTCAGGAGCTAGTA	10134
1163	TCCCATGCACACACCTCTA	4763	GCAAAGTCTTACGAAGTGAGATGGA	7449	TTGGCCAGGAATTCTCCTTCT	10135
1164	TTACATTGACAGCAGGGAAACAGAT	4764	GGCTGTGCATCTTAGGGTCTATGATA	7450	GTGCAAGAGGATCGTATTACATTGACA	10136
1165	CCGAATGGCGTCATTGATGATT	4765	CTTAAGTTGGACGCAGCTGTCT	7451	GGAAAAGGAATCTGTTAAAGCCGAAT	10137
1166	AAACCTGAAGAGTACGTTTGGTTTC	4766	ACCAACATGCAAAACAGGACACA	7452	AAACTGCTATCAGTGAAAACTGAAG	10138
1167	GAGCCCCAGTCTCCTCTCT	4767	TCACGCAGCCTATGAGTAGGT	7453	CACCTCTGAGCCCCAGTCT	10139
1168	GAGGCACTATCTTGCTAGGATGTAG	4768	GGCTCTATCCCTTGCCCCAAT	7454	GCAGGAAGAGGCACTATCTTGCTA	10140
1169	AGGTTGATTAGTCTCTGTAGTTTGCA	4769	AACGCACAGAGCGTCACTTG	7455	GGTTTTGATGCTGGGACACCTACTA	10141
1170	GCTTCATTATAGGCTTAGCATCTCT	4770	TGTGTACAGTCTGCCAACCTA	7456	GGTTTTGTGTTCTCTGCTTCCATTATAGG	10142
1171	GGGAGAGAATGATCATCACTTCTCTC	4771	GGCCATCATCCAATTAGGGTTTG	7457	TCCAATTCAGGGAGAGAAATGATCATC	10143
1172	CTGTCACTGACAGTGTCTTCT	4772	CAGTGTATCTTAATGGGAGCACCTA	7458	TGGGAGCTCTGTCACTGACA	10144
1173	TCCATGATAGGGGTGCATTGCA	4773	CCGAGCTGTATCTCAACAGGTAAGAAG	7459	TCCAGGTCTGATGTCTCTTTT	10145
1174	GAGTTCTGAGAAATAGGGCTTGCT	4774	AGGACCCAGCACTCTGAGGAA	7460	GGTCCCTGATCCACTAGTAACTTCT	10146
1175	TGATTGTGCCAGCTGACTGT	4775	GGACTGCAAAAGACTGAATGAAGGT	7461	CTCAGTTTATCAGCATGGGAGTGA	10147
1176	TGTGTCTCTGTCCAGAGTCA	4776	AGTGGCTTATAGGTCCCTAATGCA	7462	TCTCCCTGGTGTGTTCTCTGT	10148
1177	GGAGAGTAGGGATTTTACCTTTTGCACTT	4777	TCCGTTTTAGGGCTGGGATAA	7463	GCACAAGGAGAGTAGGGATTTTACCTT	10149
1178	GTCATTGACATGGCCACAGAGATTAATA	4778	CCTGGGTAAAGCTGTCACTAGCAT	7464	GAGCAGTGACTGTCACTGACATG	10150
1179	GATATTGCCAAACGTCCCTCAGT	4779	GTTTCAGAGCTTTGCTAGTCTCA	7465	CCTCTGTGCCCCCTCAAGTTG	10151
1180	CAGTGAATCCAATGGGCCATTG	4780	GCAGGGCAGAAGCTACACAGA	7466	CCAAGCCTCTCAGTGAATCCAA	10152
1181	TGTCTCTGATTGCCTAGGATGGT	4781	ACAACTACATGTAAAGGCAGGATAGTAG	7467	GATGGAACCACTATGTGAGTTCTAGGT	10153
1182	AGGAGTTAAATAACTTGCTGAGCTA	4782	CAAATTGCTGGCTTCACTTCTG	7468	TGAAACCAAGGCCTAGAGGAGTT	10154
1183	TGCTCCAACCCACAGTAAAGTC	4783	TCTCACCTCACTGTCACTCTGT	7469	CTTATCAGCAGGTACTATGCTCCAA	10155
1184	GCAGACAAGGATCCAGTTGCAA	4784	TCAGGCCTCATGAGACATCA	7470	CCTGGGTTCACTTTCTGTGAACAG	10156

1185	CGTGAACCTCATCAACACCGAAGTCT	4785	TTCAGCATGCTCGCCACTAC	7471	GATTCTTAGTTAAAGGAAAGGCTGTAGG	10157
1186	TTCAGATCCCTCTGCTGGTACA	4786	AGCACTGGTCTGGAAGTGAGAT	7472	GCTCAGGATTTGGGGTAGTGAA	10158
1187	CCAGCAACAGAACCGTCTCT	4787	CCACAGCCCCAGCTACTGT	7473	AACTGTGGCCTGACCTGGAT	10159
1188	AGGAGCCCGTGCAITTTGCT	4788	GCTCTCTCTCCCTCCAGTCT	7474	GGTGGTTGGAGTGTCTTGTGCAAAAG	10160
1189	GGAGATAACCAGAAGTAACCATGAAGCT	4789	TCCCTCCACCCATCTTATGCA	7475	GAAGTGGATCCATTTAAGAGATAGTTTGGA	10161
1190	GACAATCAGATGACCTGGTCTTG	4790	TGCTTTGGCATAGTCTCCATCTC	7476	TCTCTGCTGCCTCTGACAAT	10162
1191	TGCTGCTCAAGTGTTCCTTCT	4791	TGGAGACTGGTCATGTACACACA	7477	CTGACCATTGCTGCTCAAGTGT	10163
1192	GCTACTCTGCAATGTGCCAACTA	4792	GGTAATGGCAAAAGTCTCATGAG	7478	CACATCTCTGAGTGATTCTGAGTTACTA	10164
1193	AGAACATTTGTACAGGCAGAAAGTG	4793	ACCAGGACCACAGTTGGAATCC	7479	GAAGCCAGGTATTCTTTAAACTGAAAGA	10165
1194	TCCACAATGGGTGTGCATGTG	4794	TCTGTGATTGCTTCCCTTTGA	7480	CTCACACTGCCTGCAATGAGAT	10166
1195	GCATCTGGGCTCCGAATGT	4795	AGCAGCAAGTACAGCCATAGAG	7481	CAGCAGGGAGGTATGGATTAAAGG	10167
1196	TGGGATTTTGGCTTTCTATCCTTTTTG	4796	AAACACAATTATCCCCAAAAACAC	7482	CTCTAATAGTCTATGGGATTTGGCTTTC	10168
1197	TCTCAGGCCAATGTGAGAGAAAT	4797	AGCTGTCTGTGCACGTGATGTG	7483	ACCTGACTCTCAGCCCAACATTG	10169
1198	TCGAGTAACCTGCCAAGGGTTT	4798	GCCCTCACTCTTCAGGGACAATAG	7484	CTGAGTTATAGAGCCATCGAGTAACTTG	10170
1199	CACATCCCTCACAACTGTTCT	4799	CCGGGTCAAGCCTGTGACA	7485	GCAGCCACATCCCTCACAA	10171
1200	TCCAACAGCAGGTAGGCAAATG	4800	GTCTCTGGGAAGTTGCATGTACA	7486	ACTGGAAAATCCAACAGCAGGTA	10172
1201	CTGCCAGGTTCTCAGGCATTT	4801	ATCTCTGGACACCGGTGATGTG	7487	AGTGCCCTCGGTCCAGGTTCT	10173
1202	TCAGGCAGGAACTCTTGCTGTA	4802	AAGCAGGGCTGTGAGTTGTG	7488	ACCTTGTGTTCAAGCAGGAACT	10174
1203	GATGAACCCCCACCTATTGC	4803	ACCGAGGGTGTCTTTATCAAGGT	7489	CCGTGCATCTCTGCTCAITGA	10175
1204	GTCTGGATATAATTTCAAGACTTTGCTT	4804	AGAAGGCCACGTGTACAAAGA	7490	GCAAGGTCTCAATCTAAGTCTGGAT	10176
1205	TCCCACATCCTGTCCCAATCC	4805	GGCGAGAGACAGAAAGGATTCA	7491	CTTTAAATGGTCCACAACTCTTTTCCAA	10177
1206	AGGGTGTGAAAGAGGAATTGCA	4806	GTGTGTGTGTTATCCAGGTTTAC	7492	GGAACAAATTAAGAGGAGAGGGGTGTGA	10178
1207	GGCCTATGTATAGGGAGGAATGG	4807	GCCAGGCTGCACAGATCAG	7493	GATGCCTGTGCCTTATGTATAGG	10179
1208	AGGCAGAGTCTCTACCTCTTT	4808	TGCTGAGACGGTGGATTTGTG	7494	AGCACCATGAAACTCTTTCATAACAT	10180
1209	TCAGGACCTGGGTACTCTCT	4809	AGACAGATGGGTGCATCAAGGA	7495	TCCAGCCCTGTCTTATGCT	10181
1210	CCATCTTAGGTACACAGAACCTTCT	4810	TGCCAGTGCATTTGAAGGATGA	7496	CCCCAACTCCATCTTAGGTACCA	10182
1211	GAAGATTCAGCGCAAGACTCA	4811	ACTGCTGCGTCTTAAAGAAGAC	7497	AAAGCCTTGTATCATATTCAGAAGATTCA	10183
1212	CGGGCAAAGCAGAAAGGATTCG	4812	AGCTGGCACAAATTTATACATAAG	7498	GAAAAAAGCCGGGCAAAAGCA	10184
1213	TCTACAGATGGAAGTATTCTGGACAAG	4813	CTACTGTTTAACTCTGGGGATCACT	7499	GGTCTCCACCTATCTACAGATGGAAGT	10185
1214	AAAGCTGGGTGGTGACGTTT	4814	GGGTGGAATGGAAGATCAGAACTG	7500	CTGACTTCCAGTGTCCACATGCT	10186
1215	TGTAGGCAAAAAGCTCACCTAA	4815	ACTTTAGGGCCAGCTGTTTTCT	7501	GATTCCAGAATGTAGGCAAAAAGCT	10187
1216	AGCACCAACCACACGCAAT	4816	ACAAAGCTATACTAAACGATCTGTCTCA	7502	GCAGAAGTGTGGAGGCACAAAAT	10188
1217	ATGGGGAAGACAGAGGCTCAT	4817	AAGTTGAGACCAAGTGTCAATTGCT	7503	CTGCCTCTTATCAGTAATGAGCTGAT	10189
1218	TCCCTACCTATACACCCCAAAAGG	4818	ACGCTCCACATGTGGCAAAT	7504	TTCTGTCTCTCTCCCTACCTATACAC	10190
1219	CAAAGATCTTTCATCATGGCCTTCAA	4819	CACCCCCACCTCAAGCTA	7505	TGCTGTTAGGATATAGACAAAGATCTTTCA	10191
1220	CCCAGAGTACCTATATATTGGCCAATG	4820	GGGTACTCTGGACTTTTTGCATTTGG	7506	AGCAGCCAACAGTGCCAAT	10192
1221	AGCACTTCCCTGGCAAGCA	4821	GCCTAGGAAGTGAAGAACCAAGC	7507	AGGTGCCCCAGCAGCTTC	10193
1222	CACCTGAGGTGGAGTCTAGCA	4822	AGCACCCAGGCTTCAAACACT	7508	GTTCTGCAGAATAAGGGAGACCAAG	10194
1223	TTCTCCAGCATCAGTCTCTGT	4823	CCTCACTCAGGAAGAATGTGCTCTT	7509	TGAACGTTGAAAGACTCACTAAAGT	10195
1224	TGACCACACCCCATCAGGTT	4824	GAGCCATCTTCTGCCTTTTAAAGA	7510	GCTACCGCCTTGTTAACTAACAAAA	10196
1225	TCTGCACTTCTACCCAGGCAAT	4825	GCTACTCACTCAAGACCTCTGTCAA	7511	TCCGAAAATTCATCTCTGCACCT	10197
1226	AGCAGAGCCTGAAGCAATGG	4826	GGTGCTTGGAAATGGGCTAAATTG	7512	TGCTATCACAGGTGATTTGTTAGCTA	10198
1227	GTGCTTTTACCTTCCCACTATGGA	4827	AGTTTCCCTCTGTGCGAGTCT	7513	CCTTAAGAGGCTTTGTGCTTTTACC	10199
1228	GTGCAGGAGGGTTGTAGACAAGAT	4828	GACAAATGTCTCAGCTCTCTGT	7514	TCCGTGCAGGAGGGTTGTA	10200
1229	GGGCAGTGACAGGCAAAATAATCATC	4829	CCTGTACAGCATCTGTGCTAT	7515	GGGGCAGGTACAGGCAAAAT	10201
1230	TTCAITGTCAATCTGGATCTAAGTGT	4830	GGTGTTGAGGTGACGGTCAATGAA	7516	CCACATCTCTTTCATTGTCAATCC	10202
1231	GAGGCTCCTCCCTGACACA	4831	GTGGTGGAAATGCCTCTAGATTGTG	7517	ACACAGGCCACCGTCTTCT	10203
1232	GTAATCCACCAAGTTACAATTCCAAT	4832	TGCGGTCCAGGTATCATCTAGGT	7518	GCTTGTCTGTAATCCACCAAGTTACA	10204
1233	AGATAAAATCCTCCCACTGAGTCT	4833	GGCCAAGTTCTGGGATAACAACA	7519	GTGTGAATGAACACCATCCACCTT	10205
1234	AGTGTGCTGAGCCTTGTT	4834	GCAGAAATGGGAGCAGTTTACA	7520	GGCTCAAGACCACTTCAATTCTGTGT	10206
1235	AGGGCATATTTAGGAGGTTATCTATTCCT	4835	GGACAGCAGGCAATTTCTAGTCAA	7521	GCTTCAAGGGCATATTTAGGAGGTT	10207
1236	AAGGGCTGTGAGGGTTTGG	4836	AGCAAGGAAGGGTACCAAA	7522	AGGGCTGGGGGAATGAGAA	10208
1237	GATTCAAGTAGACAGACCCAAGCT	4837	GGAACCAAGCTTGTGCTTTGCT	7523	CGAAGACACATTTAGCATGACTACAC	10209
1238	CTGTGCACTTTGCTCTCTCATATA	4838	GGAGGAATACCAATCAGACGACAA	7524	GGGTGGTCTGTGCAAGTTGT	10210
1239	AGGAAGAACAGAGGCTGCATCT	4839	GGGTGCTTCCAAGGTCACTTT	7525	CACTGGTGATTGGAAGAGCAGTTG	10211
1240	GATATCCAAGGCTGAGGATTTCAA	4840	CCGTGGTCTACAAGCAACCAA	7526	TGGGAAAGTGACTTTTGATTGATATCC	10212
1241	TGTGTTCTGTATGCAITTTGTGTG	4841	TGCCACTCTGGAGACTGTGATCA	7527	TGGGCGAGAGTGAGACTACATCT	10213
1242	TTGGATCTTCTTCCCTCAGTTT	4842	TGGTGGGTGGCAAGGAGTGATAT	7528	GCAACTGCATCCATTGGATCCT	10214
1243	CTTGTAAATGTCACCATTTGTGAGGAT	4843	CTCAAACTCTGGCTTCATATGGT	7529	TGGCTTACACTGTGAATGTCACCAT	10215
1244	TCTAGTGACCAAAAACAGCCTAAT	4844	CAGCAGCAACAAGGAGATCTGA	7530	TCAAGTATTTCTTCTAGTGACCCAAAAAC	10216
1245	GGTCTGCTGTTTGTGCTTTTGTCT	4845	TGCACTCTGCTGCTGTTTCTG	7531	GTTAAAGGGTCTGCTGTTTGTGA	10217
1246	GACACTGGGTATTAATGGAGGATCTG	4846	AACTGGATTTTTCTAGGGGTACA	7532	CGCTCACTGACACTGGGTATTAATGG	10218
1247	GGAGACAAACCTGACTAGAGTTGAGTTG	4847	GCCACTCTGCCAATCTTATTTGCT	7533	TTGTGGGACAGTGAGGAGACAA	10219
1248	CCAAGTGTGCTTTAGCTCATTGAG	4848	CCTATGGGCTTTACAATTGGAGTAGA	7534	CGACATGACCAAGGTGCTTTGTAG	10220
1249	GTCGTATTAGGTGACTGACACTGT	4849	GAAGGCAACAGATTACGTACA	7535	GCTTTCAAGATTGCATTAGTCGATTAGGT	10221
1250	GCATGACTAAGCATGTGTTTGA	4850	GGACTAGGCAACAGAGGATGATGAAC	7536	TGCTTACCTGCTGCTTGACGT	10222

1251	CCAAACCATTGGCCTGTAAACTTTGT	4851	AGAGGTGTAGAGTTATTTGCACTGTATC	7537	GCATGCTATGAATCTACCAAACCATTG	10223
1252	GACAATGGGACTGCCATTTG	4852	ACCTCTGGGGTCTTGGTATACAT	7538	GCTGAGAATGACTTCCATGTTCTTG	10224
1253	GACTACCTTCAACATCATGGGATCA	4853	GATGGAGAGAGATGGTCCAAAGAC	7539	CTGGGACCATCTACCTTGATCATC	10225
1254	GGGGGTGTAATCACAGCTCGAAT	4854	GTAAGCGTGCTGGAGGATGAA	7540	AAACCAGGAGGGGGTGTAATCA	10226
1255	TCTGAGACATCTTCTCGTTTGG	4855	CCCTTCCCTTGAATGTGTTGAAAGTG	7541	CCTGGTGTGGTGGTGTITTTTC	10227
1256	GGGTGAACCTGGGGACACA	4856	TCAACCCCATCTGAGGACATTGAG	7542	TCCTTCATATCACCTGCTGACA	10228
1257	TCCCTAGCTCTGAGGGTGAATGT	4857	GCAGAGAAGAGAACAGCTGCTTTC	7543	CCCCATCTTCCCTAGCTCTGA	10229
1258	CGTGGCTGCTCCAGGTTAA	4858	CTGTAGGACAAGCATGGAAGCA	7544	AGCCAAGGCGGTCTTTC	10230
1259	CCTACCAGAGTCTGTGCTTCAG	4859	TCAGGGTTTCAGCTGTGGAA	7545	ACTGCTGAAGACAAGGGATTAC	10231
1260	TGTGGACTTTGCTGAGCATACTAG	4860	CCAAGATTGTGATGGAATCCCCAA	7546	GTGGGTTTCTACTATGTGGACTTTG	10232
1261	AGTGGGTGGATAGTCAAGGAAGA	4861	CTGGATAAAAGTGGGGAGCTTAAGG	7547	GCACAAGGATTAGTGGGTGGATAG	10233
1262	GGGAAACTGAGAGAGAAGCTGAGT	4862	GCTCTGTCTCCAATGTGTTTTGTG	7548	AGGGCTTTCATAGGAGGGAACCTG	10234
1263	GTGTGGGCTACGCTGTGCA	4863	AGCACAGGAGCTGCAGAGTGAAA	7549	TCCCTTGGCAGGAGTTGT	10235
1264	GCTCACAGGTACACGAAAATGG	4864	TGAGCCCTTGAATTACAGGAGAGA	7550	CCAGAAGTCTCACAGGTACAC	10236
1265	AGAGGAGGAGAGAACAGGACAGT	4865	TCTCCCTTGACCCATGTCT	7551	GTGGAAGAGCACACACAAACA	10237
1266	AAATGCCCTCTTGCCTATGCA	4866	GGCCTGAAGGTAATGATCTTATCACA	7552	TTTCCACCAATGCCCTCTTG	10238
1267	TGCTCTGGGCTGCTGCTAAAT	4867	ACACAGCAAGGATGCGCTCTT	7553	AGCCCCACTGCCATTTGCT	10239
1268	GCAGTCTGTATCCCTCTGTTAATG	4868	CAGAACCTGGAGCTGTGAATTC	7554	AAATGCCGAGTCTGTCT	10240
1269	AAACCCACCAAGCCAACT	4869	ATCCCATCCGGAGCCAAAGG	7555	GCTGTTTCTCCAGGAAAGGAAACC	10241
1270	GGTGTGAATGGCAGCCTCTAAATG	4870	TGTCCAGGTTGCATACACACAAC	7556	TGTACCAATCTGTCTAGGGTGTGA	10242
1271	TTGGAGGGTGGCCTTTTGT	4871	GGGTAAACAAATGGGTGAGTATATTG	7557	CCAGTGAGGACCTGCATGATAAATCA	10243
1272	CCGGCATTTCTGAAACACTGTGT	4872	CCTGTAAATGGAGTTGATGGGGATTTAA	7558	AGCTTGTATACCTGAGTTTCAAAATGAAGAC	10244
1273	CTGAGCCAGTAGAAAATTTAGACCTCAT	4873	GGTGGGTGTGGGTGTCATCT	7559	AGAAAACCCACAAAAATTGAAGACGAT	10245
1274	TGGTGAACCTTCTCCAGCAGTTG	4874	GATGTGAATGATGTGTTACGGTAACC	7560	ATAGGGGCGCGCTACTACA	10246
1275	TGTGTCCGGGCAGAGACTT	4875	CGGGTGTCTGTCGAGTAACAG	7561	GGGGCCAAGAGCTACTGTGT	10247
1276	GAGATGATAGTAACATAGGGGCAATTGT	4876	ACAAGCTTGGGATAGTCTGTTGATT	7562	TTGGGCAAGAGATGATAGTAACATAGG	10248
1277	CTCCAGACCCCACTTTGATTAGTC	4877	CAGAGAAGTGGCAAGGAGAAGTTTG	7563	TGCACTCCAGACCCCACTT	10249
1278	ATCTTGGTGGTGGCCCTTCT	4878	AAACTGGGTCTGAACCTGGAATCT	7564	TCCAGGCTTCTCAGGTTTGC	10250
1279	CCTTGTCTGGAACCAAGTAATACA	4879	ACAAGCCAGTGTGCCCATTA	7565	CTTACTGTCCTTGCTGGAACCA	10251
1280	CACACAGCTCAAATATTGCGAGAGA	4880	TTGAGGTCAAGGAATCCCAAGTTC	7566	TCAGGCCACAGAGAGGTTGATT	10252
1281	AGGAATTCAGGTGAATATGTTCCAACA	4881	TGAACCTGTGCCTTCCACTGACA	7567	ACCTAGGAAAAGGAATTCAGGTGAAT	10253
1282	AGTTGAAAAGAATCTCAGGTCTGTT	4882	CAGTGGTTTCTTCTTTCAGTAGCT	7568	CCTTTGGTTTGTAAAGCTGAGGTTTCA	10254
1283	AGTCTCCCTCTAGCCAAGTATTCC	4883	GCCACCAAGACCTTATGGAGTGT	7569	CCATTATGGGTAAATAGTCTCCCTCTAG	10255
1284	CCAGTGTGAGGGTTCCTTTTCT	4884	AGGCCAGATTGGATCTCCATGAGA	7570	TGTCCCAGGATCCAGTGTGA	10256
1285	GACTCATCAGTAAATGCACTCAACTGA	4885	TCTGTGCACCTGGAAGCAAA	7571	AGCCTCCACTTCTCGGATTCCA	10257
1286	GTCTCACTTTTATGCCGTGGTTTAA	4886	AGCAGTAGCATCTCTCTCTGT	7572	CCACGGACTGTCTCACTTTTATGC	10258
1287	CCATCTCACTGCGGAGAAAGTTT	4887	GCCGACTCACTTCCCTATGCA	7573	TCACAGCTGTCCATCTCACT	10259
1288	TCTGTAGGAAGGGCTGAGTT	4888	AGAAAGCAAGCTGCATGGAGAT	7574	TGGCTCTACCTGGAATATCTGCTA	10260
1289	TGACCCAGAAAGATTGGAGTTG	4889	GCCTACTTCTCACATCACAGCTCTCTA	7575	GAGCTTTTCGTTTTGACCCAGAAG	10261
1290	CAACTTGGGCATCAGAGAGCAA	4890	ACTAGAATGTGGAAACCTAAATCAGA	7576	CCTTACACCTTAGGGGAAAAAATGTAC	10262
1291	CTTGGGGAAATACAGGGTCAITCT	4891	GCTTGCAAGAAATCTAACCTGTGA	7577	GCTGCTTAATGGGATGTTTTGCA	10263
1292	CTCTATGCCCTTGGCCATCTCT	4892	ATCTCTGGGAGTTGAGTTGTGAG	7578	CTCTATCTCTACCTTGACTCTTATGC	10264
1293	CCATCCTGGTGACTGTTTCTTTCA	4893	CCATGCTTCAAGTGCAAGAG	7579	CTTTATGATGCAGGAAGTCAAGTTATAG	10265
1294	TGCTTCTTCTCTCTAGCTACCA	4894	AGGGTGAGAACGGAGTGAT	7580	GCTCCTTCTAGTTTCTGCTGCTTTCT	10266
1295	AAAAAGAGAGAGAGGAAAGCAATTGC	4895	GCACCTCACCTTCCCATCAIT	7581	GATTAGCCTCATGAATCTTTTCCAA	10267
1296	CTTGGTCTTTCGCGTGAAGAGA	4896	GGCTGTGGTATTGAACCTCCAA	7582	CTGTACGCACCTTATAATACCTGGTCTT	10268
1297	GGACCATAAACCGTTTATGAATCCCTAA	4897	GGTGAACAGGTGATGCGACTTGA	7583	TCGGGGTGTCCACATTACTCA	10269
1298	TGGTGGTTTGTGTGTTTAC	4898	TGTCTCTGTCTCAGCCATGTG	7584	GCCCGACAGACAACAACCT	10270
1299	AGAAGCTACCTGAGCACAGA	4899	TGCTGTTTCTGAGCCCACTCT	7585	AGCCACCTGCCAGAGAAGCTA	10271
1300	TCTGTTTTGAGGAATGGCTGACA	4900	GCTCAGCAGGGGATTATTCTACA	7586	GGCAGATTGCAGAGATTCTGTTT	10272
1301	GGTCTCTCAGGTGTGTTCAAGTAG	4901	TGAAGCCTGGGTGTAGCTTTG	7587	AGGATGACTTGGTTGCCTGTA	10273
1302	AGTGCAGCTTTTCCATGGT	4902	CCAGCACAGGGTTGATATCC	7588	CTCATGTACACAAGTGCAGCTTTT	10274
1303	ATGAGTACAGGGTGGGACAT	4903	GCCTTGGCTCACAGAGCATCT	7589	GCCAGATATGACATTTAGAGATGGTTCT	10275
1304	GGTGAGGCCCTTTATCCTTTT	4904	AACCGGTGTGAGGCAATACC	7590	CCTGAGGTGAGGCCCTTT	10276
1305	GCCTCGGAAACTGTCAGATGGT	4905	CGAAGCTGGTCTTCTTTTGC	7591	CGTGGCCTCGGAAACTGT	10277
1306	GCTACTATGTAACATTTTATATGGCAAAGA	4906	GGATTTGGGCTTTCGGCTATCT	7592	GGGTGCCACACAATACCTTTAGT	10278
1307	TGCTCTGAATCTAAGCTTTTCTGCATAGA	4907	GTGGCTTGGGCTAGATTGCA	7593	GAGTTCACATGCTGTAATCTAAGCTTTT	10279
1308	CAACAGCTGGTGTGCTCATC	4908	ACAACAGACAAGCAATGTTCAATGA	7594	ACTTGCTGGAGCCTCCCTAA	10280
1309	GTGGCAGGTCCAGGGATCT	4909	TGGGTCAGGGGAATGTGGAT	7595	CACATGTGAGTAGAGGCACCAT	10281
1310	AGGCCTCTAACAGGTATTGAGA	4910	GGACACACAGCACTCTAAAGCT	7596	GCTGGATCTGCACTCTCTTTGAA	10282
1311	GCCACCACAAATACACTTGAAGCTC	4911	CAGTGAAGTGTATCTGTGGAA	7597	GACTTCAGCCACACAAATACAC	10283
1312	CCTGCTGGGTATCTGTAAATGCA	4912	CGCTTTCGAAGTCTGACTTTCC	7598	CCTGCCTGCTGGGTATCTGTA	10284
1313	AGGGATTGGCTTATCTCTCTGA	4913	GATGCCCTCTCTGCTAGCAA	7599	TGAAATGCTTTAAATAAGGGATTGGCTTA	10285
1314	ACAACAAAATAGGGCAGGTGCTA	4914	TCCACTGCCCTACCTTTCCAT	7600	GGTGTACAGCAGAGATATACATGCA	10286
1315	TGATAACTGTTGACTGTTAATCCACAGA	4915	GCCAGTTTGCAACCTCTATGCT	7601	AAACTCCAGTGAACCTTTTGATAACTGTT	10287
1316	AAAGCAGGCGGGAGAACTAGAT	4916	GCGTGGGCTGGATGTTCA	7602	AGGCTAGAGCGCGGCAAA	10288

1317	CCTCACCTGTCTTTGCAACTTTGG	4917	GCTGTAACAGAGGCATTGGTACCT	7603	TGGGAGCCTCACCTGTCTTTG	10289
1318	ACCCCTGATGAAGGAAAGGGATTG	4918	GTTTGGTGTAGGGAGCCACAAT	7604	GCCAGACTATAACCCCTGATGAAGGA	10290
1319	CAGTGTGCTGACAGCTGTATAGCA	4919	GCAACCAACCTGTATTCTCAAAGG	7605	CAGTATAGCCAGTGTGCTGACA	10291
1320	TGGGTGGGGCTCAGTGTGGA	4920	GGCTGGAAGCTAATTTGGTTTGG	7606	GCAAGTTAAACCTGAGCTAATGACACT	10292
1321	GCAGTACCTGTCTGTCTCTAGAAT	4921	ACACACCTTGGACAGTCTATAACC	7607	TGTATAGATTAGCAGTACCTGTCTGT	10293
1322	AGCCATTCGGATCCTGGATGGT	4922	TTTAGCCAGGCATGAGCTACAG	7608	GGATGGGAAACTGACCCATTG	10294
1323	GCCAAGTTATGCGATGCATTCC	4923	AGATTCCACAAAGGGCCCATCT	7609	ATGGGGAGGCCAAGTTATGC	10295
1324	GTTTTTCTCTCTCATGCCCCATA	4924	GTCTAACCTATGGCCATGGGATT	7610	GCCTCAGAGTCTCTAGATGTTTTCTC	10296
1325	GGTGCCCTAGTGCTGAGAA	4925	CGTTGAGGAAAGTTTCAAGGGAGGAT	7611	GGAAAAGAGTTTGTGGCCAAAGG	10297
1326	GAGCCTGTCTAGAAACCTAAGTGGAT	4926	AAATGGCTGCAGGTGTCA	7612	TCAGTGAGCCTGTCTAGAAACCT	10298
1327	CCAATACCTTGTGTCTGTGTTAC	4927	CCCCATCCTACACAGAGCAA	7613	CAGCTCATGATTTTGTGAGAGTTCT	10299
1328	TCTGGAACCTGGACACATGGA	4928	GACAAAGTCTTATGTTGGTTTTCA	7614	ACATTGGGGTAGAATTTTGTCTG	10300
1329	CCATTGTGTCTCCACATACCT	4929	GGAATGTGATCTGCTATCTATCC	7615	TCCCATATGTTATCCATTGTGCTT	10301
1330	CTGGCACCAGGTGTTGCTAA	4930	GGGGAGGCTTTCTGCTCTA	7616	CGAGCTTGCTCCAGGACACA	10302
1331	AGCCCAAGGTCAACAAGAGACT	4931	GGATGGGTTCACTGTGCTTTGTC	7617	CCCATGTGCTGACTGTCTAA	10303
1332	AGCCCCAGTTGCTCACAGT	4932	GAAGCCAGGAAATGACGTAGGAT	7618	CCTGGGTCTCAGTGAGACT	10304
1333	GGCTGTGAGGTTTTATGATACCCCTTT	4933	CTGGGAATTTGTGTTAACATTGGT	7619	CCCTGGCTGTGAGGTTTTAGAT	10305
1334	CCAAAACAGGGCACTTGAACATTTTG	4934	CCGATTACAGTGTGCTTTCA	7620	ACATAATACCAAAACAGGGCACTTG	10306
1335	GCAAAGTACAGGCCATGTGAACCT	4935	CCCCAGCTATACTCACAACAGTGAT	7621	ACCACCTCCAGTACTGTTGT	10307
1336	GCAAGAGGAATGGACAGTAGAGAAG	4936	TGGGCACTGTCAGCTTGTGTGT	7622	TCAGTACTGGGCAAGAGGAAT	10308
1337	TGAGCAGCTTGAGCACTTGT	4937	AGAGCTGATAATACACCTGACTGT	7623	GTAGTCATTTTCAAGGGCAATAAAAGTTT	10309
1338	CCCTCTCCAAAGAAAAGGCCAT	4938	CAGCAGTTGGGGTTATTCCAGAAG	7624	CCACTGAGAGCTGAATCAGGCTAT	10310
1339	GAGCGGAATCCAGACATCAT	4939	CATTCTGAAGTACCCAGGCTACTG	7625	GCCTGCAAAATCTGTCTTAGAGGATGAG	10311
1340	GGCAATTGTGTAGGAAAGGAGAGA	4940	CCCTAATGATGGGCACAGGTT	7626	GGATTTCACTTCTGGCATTGTGAGGA	10312
1341	GCGCACAGCCGTGGAAAG	4941	CCGAGCTCTCCACGGTCTGT	7627	CACAGATGCATTCACTCAAGGAAGA	10313
1342	ACTGTTCCAGTTAGAGGTGTAACA	4942	GCTTGGAAATGTGGCACTGAGT	7628	GGATAGTTTTTGGGTAAGAATTTGAAGTGT	10314
1343	ATGGGCCATCTGACATGCT	4943	TGGAGTGGGGACTGAGTTCATT	7629	GATTGCCATGGGCCATCCT	10315
1344	GTAGTCCAGAAACCTTTCTCATCTA	4944	AGCTGTAAGACCTGGGGCTTT	7630	GTTTCTTTTAAAGTAGCTCCAGAAACCT	10316
1345	TCCTGATTGTAGTCAGCACAGAGA	4945	GAGATGTCTCTGGTGCAAAATACAGA	7631	CTTTGATTTAGCCAGATTTTCTGATTGT	10317
1346	AGGAGAAGAGAAAGTACATGGGTTTTCT	4946	AGCCAAACCTGTGGCACTTACC	7632	GTTAGGCAATTAGTACAGCTGTTGAG	10318
1347	CCTGATGCCCTCATAAATGTGTTGTG	4947	ACCCAGTGAAGCTGATGCGTAA	7633	TCCAGGGTGTCTCCATTGATTAAG	10319
1348	GAAATTTGGGTATGCCGTTGTCA	4948	GCTCAAATCAGTTCTGTCTCTGGTT	7634	GCACACACCTCCACAAAAGTT	10320
1349	GTCTGGAAAGATGCATGGAAGTAAG	4949	GCACTCACTCTGGTTAACAGTGTT	7635	GCAAACAAGTCTGGAAAGATGCAT	10321
1350	GGAACCTTAGTGACGTAGCGGATT	4950	AGGGCAGACTGGGTTGGGTTA	7636	TGAAGTGTCTGTGGAAACTTAGT	10322
1351	ACAAAATGATATGTGCAAAATCCAGTTG	4951	AGGGAGAAGACACTCTCTCACCTT	7637	CCCTTGCAATTAGTTAGAGCCACAT	10323
1352	ACCTCTTAAACCTTCTGTAGGA	4952	TGGCAGGATAAAAGCCCCTAAG	7638	CCCTGCAACAAGTCTCTCACT	10324
1353	CCAGGCACCTCTTATTCCA	4953	GCTGCAATGATTGAGATTTGATTGCA	7639	CCCTCAGCAGCTTCTTATCCT	10325
1354	TGGTGCTGAATGTGAGTTCTCT	4954	AGGAAGCCTCCAGCAATTACAG	7640	CACAGTCTGCACGAATGTTATGTG	10326
1355	TTTTATGGCTACGCTCTTTTGTTC	4955	GTGCCATTTGTGGGAAATTAGC	7641	TGCATTTGTTTACACTGTGAAGTT	10327
1356	GCAATGGGAATTTGAATCAGGTCCAAT	4956	AGGTACAAGCACTCCTCAAGTAG	7642	GGCTTTATTTCTCACTGATGGGAATAGCA	10328
1357	GCAGGCACAGTATTGGCTCAAA	4957	GCAGATAAAATCTGGTGTTCTGATA	7643	GTGGTTGCATATTGATTGCTTAGGA	10329
1358	TGTTGATGTGGGGGGAAGGA	4958	GAAAAGTGGGTCAATGGGAGTCA	7644	GGCTGTACCTCCCTTCAAACT	10330
1359	ACACCGCTGAGGTAGTGCAATA	4959	TGGCACCTCCGGATCTCA	7645	CACTTTTAACACCGCCTGAGGTA	10331
1360	CTGAAGTCCAGTAAAGGCTCTCACCTT	4960	CTGTGGTGAGCTCAAGGATGTT	7646	CCCATCCAGAAACACTGAAGT	10332
1361	GACCAAGATGTGAGACCTCTTTGG	4961	CCATAGAACAAATCTCTGGGTTGATG	7647	TCAGGCAGACCAAGATGTGAGA	10333
1362	GCCCATAAACACCTGGACTCA	4962	CCTCTCCACATCCAGTATCCAAAT	7648	TGCTCTGAGGCCATAAACAC	10334
1363	GCAAGAGCTTCTGTTGATCTAG	4963	GACCTGGAGGGCTGAGTGATA	7649	TTAGCCTTGAAGAGCTTCTCT	10335
1364	CACGTGTGCCAACCCCTTACC	4964	CTCAAAGTAATTGTTGGGATTGAATGAGA	7650	TGGTAGGTCCAAGGCACCTGT	10336
1365	TGCTGTCTCTGCTCCATTCC	4965	CTGAAGGCAGGTTGATAAGAGCAT	7651	AGTGTCCCCCACCCTCT	10337
1366	TTGTAGCCTGATGAACCTTACACA	4966	CCTCCAGAACTTTGTTACAGTAAGGA	7652	GGTACAAATCAGAGCACAGATTTTCTTT	10338
1367	GCTGAGACTTTACAGTGTTTAC	4967	AGTACGGAACAGGAGGAGGAAA	7653	CTGTTTCTTGAAGCTGAGACTTTTCTT	10339
1368	TCTAGGCAAGCTACCTGTAACCTTG	4968	CTTTGTACTGCACTGCTCTTAAAC	7654	TTCTCGAACAAAGGAGGACAGT	10340
1369	ACAGCCGTGAACCTCCCTAGA	4969	AGGGGTCAAGCAGCAGTTGA	7655	ACGTTTACACAGCCGTGAA	10341
1370	CAGGGGACAGCCTGTCTTA	4970	CTCTGTGAATATTCTACCCCATCAA	7656	GCCATGGACAGTGCCCTTCA	10342
1371	GAGAATTTCCCAAGGTGTAGGTGT	4971	GCTAGGCGCATAACTCTCTCT	7657	GCCATTTTCTACAGGAGCATGAAGAG	10343
1372	AGGAGCCTTCAAAGCCCTGAA	4972	CCATTGAGAATTTACTTCCCATCA	7658	CCCTTTGGAGTAGGAGCCTTCAA	10344
1373	ACAGAGAGAAATCCACTGTGTTTCAA	4973	ATGACGCGCTATCCCTATT	7659	GCTTCCACAACTGAAAACAGAGAGA	10345
1374	AAGCGTTAGTTGCTTTGGTTAGAAG	4974	CAGACACTGCCACCATCTG	7660	TGCAGAAGCGTTAGTTGCTTTG	10346
1375	GCGTTGCTTAGGCCATTGTC	4975	TGCTGGTGCGAGGAGAGA	7661	GGAGCAGAGCGTTGCTTAGG	10347
1376	GGACACATGTCATTGTGAGAGATC	4976	CAGCCAAACCATATCATTCACTATGC	7662	GGATGAGGAGGACACATGCTATTGT	10348
1377	GTGTGCGAAGCCGGCTGTAATCA	4977	CTGGCTGAGGAGGAGTGT	7663	CGAATATCTGACTTAGTCTAAACACAG	10349
1378	GGGGTATACCTTGTATATGGCATAAGC	4978	GCATAAGCCAGGCTGTAGTACA	7664	GCCTTAGTATAATGGGGTATACCTTGTG	10350
1379	TGTCTACTGAGCATTGCAAGT	4979	GGAAAGAAAAGGCTGCTGGAT	7665	GCCCCAATTCAGTGGACTAAATTC	10351
1380	GGCAGGGAGCTTATTCAGATCTACAG	4980	GCAGAACCCCTACAAAGAGGTA	7666	TGATTGCAATAACTAGGGGAGTATAGACT	10352
1381	TGCTCACAGTGCCGTTTGA	4981	GGTGGTGTTAAGAAGCCAAAGAT	7667	ACACACTTTTCCACCTGCATCT	10353
1382	GCAGAACATCAAGGCCAATGT	4982	GGGTCAAGGAAATATTGTGGAGTGT	7668	TTCTGCATCTGTGCTGCTCA	10354

1383	TCAATGCGCTCCCTGGTATT	4983	GCTTTTGCACCTTGGCTCCTTGT	7669	TCCTTGTTCTTAGGAGATCAATGC	10355
1384	GTAGTGATTCCAAGACCTCACCAT	4984	TGCCTCCCAAGTAGGATAGAACTC	7670	GCACACATCCTGTAGTGATTTCCAA	10356
1385	AAGCAGCTCAGGTGATCTTCAG	4985	CCTTCTCATTGCTGAGTGTTTAACC	7671	CACAATACACAGAAACCTGGAAGCA	10357
1386	GCCAGATAGGGTACAGTGCTTTAA	4986	CCTCTCCCCTTTGAGCAGACA	7672	GCTGGGGAGAAGGAATTTGCT	10358
1387	CAGTACTTTTCCAGTTAGGTTGTTACC	4987	GAGGCACAAGATAAAGAGGTTTAGC	7673	CCCTTAGCAGTACTTTCCAGTTAGG	10359
1388	CGACCAAAGAGTCTTAGGCATATGC	4988	GAATAGGAATGTGTGGAGCAGACA	7674	AGGCATCCGACCAAGAGTCTTAG	10360
1389	TCCCTTCTCATGGGGGATTACC	4989	CATGTGTGCAAGCCACATGT	7675	ACAAGCTTAAACTCATATAGCCTCTCT	10361
1390	CAACTGGAAATGATGAAAATAGGCTGAT	4990	AGCCCTCCCACCTGGTAACTA	7676	GCTAGTTCCTCAACTGGAAATGATGAAAA	10362
1391	AGTACAGCAGGAAGTGGGATAGG	4991	CCCTGCTGCCACATCAG	7677	AGAGCTAGAGTACAGCAGGAAGT	10363
1392	GGGCTTTTCCATGCTTCTGCTA	4992	TCATTGCTGGCATGCATCCA	7678	CTCATTTCTTTGTGTTTTAGGGGTATGT	10364
1393	GCTCTGAACGTGCTATTGGTGCTAT	4993	CCTTTGCAGTCACCAATGTTTTGT	7679	GGGCAGCTCTGAACGTGCTATTG	10365
1394	TGGCCAAAGCTCTCAGGTATC	4994	CGAGCTATAAGTGATGGAGCTAGTATCT	7680	CTCTCCCATTTCTTAATCTCTCAGACTTTT	10366
1395	CCTCCAGTTCTGTATGGCAACCA	4995	GAAGTGGAGCTCCACACTTAGG	7681	CTGCCATCAACAGCATTTCTCTTCC	10367
1396	GTGCGTGGTGGGCTTCAT	4996	CCAGTTCTGAAGGAGGCATTTATCAG	7682	AGTCCCAATGCCTCACTTTGGT	10368
1397	AGCAAGGAAGGGGAGCATCCT	4997	GTGTACCCACATGTCATCATACC	7683	TCCGGAGCCCTGAGGAGTT	10369
1398	GAATTTGTGTTAAGCACTATCCTCTACTC	4998	GCAGATTTTGACAAGGGTTGGAA	7684	CCAACCATGAATTTGTGTTAAGCACTA	10370
1399	GGGAGGATGACTTTGGAGCTATGT	4999	CCACAGAGCTAGGAAACTGTGAA	7685	ATTCTGTGGGAGGATGACTTTGG	10371
1400	ATGTCAGAAGGGGGAGTGCAT	5000	TTCTCGGCCCTTCTCTGAGA	7686	CCAGGCATACAACCATGTCAGA	10372
1401	TGATCAGGTGAAGGGGCTAACT	5001	AGGGGTGAAACAAATCATGCTTCT	7687	CTCTTACACCTAGACAAGCTGATCAG	10373
1402	CCATCAGGCAGTCAAAATGCT	5002	AGGAACCTGTCTTGTCTTAACC	7688	GTTCTCAGGGATATTTCTGCCATCAG	10374
1403	TGGCTCCTTGTCCACAGCATAA	5003	GGAAAGTCTGAACACACACTTCCAT	7689	TCCCTCTGAAGGCAGACATGGA	10375
1404	GGAAGTAAAGTGAAGTAGGATCCTATGT	5004	AAGCCAAATACGCACCCCTAAC	7690	CAAGGAAGGCTTCAGCTATGGT	10376
1405	AAGTGAAGGGTGGCATTCCA	5005	GGCCTTTCACAACTACTCCTTCT	7691	TTGGAGTTCTCAAATAGCCCTATTT	10377
1406	TTATCAGCCCATGGAAGCAACTC	5006	GTGTTTGTGTGCAGACACTGTAC	7692	AAGAAGGGCTCTGCATTATCAG	10378
1407	CGCTGATCGCCTTCATACCA	5007	GTGCTTGCTTGAGTTCAGCTA	7693	GCCCTGACAGTGATGTTTGTCTC	10379
1408	CCACTAGTAAAGGGATTTTCTCATAGC	5008	GCAACAGCATCTTTGATAGGGAACAC	7694	CATAGAAATCAGGCAATTGACAAGCT	10380
1409	GAGCTCAAGTTCAAGGTGAAGCTT	5009	GGCTGGAAGGAAAGGCAACAT	7695	CGCAAGGAGCTCAAGTTCAAG	10381
1410	GTCGTGTCTCAGTCTCTTTAGGTT	5010	AGATCCCTGCTGCCTACATTA	7696	GTTACAAAATAGTCAGAACTGGTCTCA	10382
1411	AGGCAGGGAGAAGCAGCTCATT	5011	CCTGAGCCACCCAGGACTTTTTG	7697	GCAGCAGGCAGGGAGAAG	10383
1412	GGTCCCTGGGTGCTATTTAGG	5012	TTGCCACCAATATCAGGATGTATAG	7698	ACAACCAAGAGGATGTCAACTG	10384
1413	TCCCAGGGTAAGTTGCCAAGGA	5013	TGTGAGACTCTTTGGTACTTAAGTTTG	7699	GCTTATGGGAGAACTATGGATTCCA	10385
1414	GGCATGGAGGAGACGAGTGT	5014	TGCCTCACAGCCAAGCTTCT	7700	AGAGGTGGTGGGCATGGA	10386
1415	AGCCATCCTTGCAATTGACAGT	5015	TGAAGTAATTGACGGTCTCAGTTCT	7701	TGGTTCTAAAGGCCATCCTTGCA	10387
1416	CCTCTCAACGAAGGCATAATGCT	5016	CGTGGTTATCTTGCAATGGGAAGCTC	7702	TCATCTCTCCCTCTCAACGAA	10388
1417	GCATTTTGTGCCCAGCTAAATCTT	5017	GGTCAAGATGGAGCAGTATTTTGATCATC	7703	GCCCAAGAGATGTTTTTATTGCA	10389
1418	CAAAATGCCTATCTCAGCTCACA	5018	AACACCTGCCAGTGTCAATGAG	7704	GCCAGCTCAAATGCCTCTATCTC	10390
1419	AGCAGAATGGCTGAGATTTTCTAGA	5019	TGCTTGGAGGTGAGGTGTGTTT	7705	AACACAGGAGGGGAGGATTA	10391
1420	AACATGGGACCTGAACAAACCA	5020	AGATTGAGGTGGCATTTCTGAA	7706	CTAAGCACAGCTGGTGTGTTTG	10392
1421	GCTTCCAGTGGAGTTTGAGTTTATGAG	5021	ACAGGGGGTTACAGAGATGA	7707	TCTGCTTCCACTGGAGTTTGA	10393
1422	GAAAATAGGCAGACTCGGAGCAT	5022	TGAAAAGTAGAAGAGTCTGCTGTGT	7708	TCAGAAAGGCAGTAGAAGCTCAAT	10394
1423	TTCAGGGCCACTCTGAAGGA	5023	GGTTTACAGGGGAGGACTGGAGTTA	7709	TGAAGGCTTGGTCAACTTGGT	10395
1424	CAACTCTCTGCTTGAACCTCTGT	5024	AGGCCATTGGGTTAAATATCCATCA	7710	GACCTAGATGATCTCATATCTTGCATAAAC	10396
1425	ACATGTACACTGGGTCAGAATTTGT	5025	GCAAACTCCACTTCAGCAGGAT	7711	GCGAGGCCTCAATTACATGTACAC	10397
1426	GGGAAGACTGTTGTCTGAAGCT	5026	GCTTTCTGCGGCAAGCA	7712	GACTGGTACTGGGAAGCTGTTGT	10398
1427	GCTACCCATTAGACCTATCAGCATGTT	5027	ACTAAGGCAATGGATTTCAAATGCA	7713	GACCAAAATCCAGGGGTCAATTTTC	10399
1428	TTCCAGGGGCTGAACATCTTT	5028	CCACCAATTTTCAAGGGTTTTATGCA	7714	GGAAACCAAGCATCAAGAAGGAAA	10400
1429	CCAACAGCCCCACAGAGAGA	5029	CTCAGACACACATCATAGCTCTACAG	7715	TCTGCTTGCTGGCTGAGTAA	10401
1430	GATTACCCCAACTCTCTATTCTGT	5030	AGATCTAGAACCAAGGCCACTGA	7716	TCCTGGCAGATTACCCCACTC	10402
1431	GGCTTGAATGCAAGAAGAGGTA	5031	CCATCAGAGCCACCCACACT	7717	AGAAAAGGGGCTTGAATGCA	10403
1432	ACAGTTTCTGGCAAATCTAGAAGCT	5032	CTAAGGTGGGGATTACATCAACA	7718	GCATTGATACAGTTTCTGGCAAATTC	10404
1433	CCTCAACAACCCAGTTTTCAGAAACC	5033	CCTTGAACCTGTTGGCTGTAGCA	7719	CCTCTCCCTCAACAACCCAGTTTT	10405
1434	CTCTCAAGCACATAAAGCACTTACC	5034	ACCGTTGAGCTGTGTCACAT	7720	CAGAAAAATTAGTTTCCACTTCTCTC	10406
1435	CGGGCAGCGTCTGACATAGT	5035	CTGGTGGCTCAAAACCGTTAGTGA	7721	GCAGCCATCCAGGAGCAGAA	10407
1436	CCCCCTGGAGCCCTCTTTT	5036	GACATTACTGGAAGCTGGGTTGA	7722	GGGTCTGTGGAATTTTCTCTGA	10408
1437	CAGGATATTGAGCAGTTCCCAAACCTC	5037	CTGGGTGTGTTTCTCCTGTCT	7723	CCACTCTGGCTAATTTAAGCACAAC	10409
1438	GCTCCAGAGGAAGCGGTCTA	5038	GTAACCTTCCAGTGATTGAGTCA	7724	GGAAGAAGAGCTCATTGTCAAACTAGT	10410
1439	AAGCCCCAGTAATGACCAATTGC	5039	CAGCCCAAGTGTCTCAGAACAG	7725	TTTTCAATTCTGACTCATTGAAGTAC	10411
1440	GCTGGTGGGATGGAATGAATGA	5040	ACTCAGCTGAACATTGCCTTCTC	7726	ACAAAAAGGCTCCCTAACTAGCT	10412
1441	GGGCAGTACAGACCATCTCTAT	5041	GCGTTTGTTCAGGCTCAAAGTC	7727	CACCATGATGCCAGGGGAAA	10413
1442	GCTGCATTTGGGTGTTTTGTTTC	5042	CAGGCGGTGGAATTTTCTGCTA	7728	AGGCTCCTAAGCTGCATTTGG	10414
1443	GACATTTTCCAGGCTGTGTTTAGG	5043	ACAGGAGCCAAACCGACTCT	7729	TGCCAGGGAAGTGACATTTCCA	10415
1444	TCTGCACCCAGTTGTCACT	5044	CAACCAAGAGCAGCAGAAAGTTG	7730	GTGACTTCAGGTGAGAAAAGATGCT	10416
1445	ACCGTCCACATGTTCTTTTCC	5045	CAGAGGCTCTGTAGAGTTGAGACT	7731	GGGCGACCGTCCACATGT	10417
1446	CCCAATAGGTGCTGACCTTTGG	5046	GGGTTTCCCTCAGCTGTTTACTG	7732	CTGGAAGAACTGGCCCAATAGGT	10418
1447	CTGTTCACTTCACTTCACTCTGCTT	5047	CTCTAGATAGGTGCTGTAGCTTAA	7733	CCATGGTTATCTGTTCACTTCTTCAA	10419
1448	CCTACTTTGTGCTAGAGTTGACTCA	5048	GCCTAACTGCTTGTCTCTGTT	7734	GCACCTACTTTGTGCTAGACT	10420

1449	GA CTAGGAAATTATCAAGCTGGTTTG	5049	AGAAGCCCTGCTTATACTGTCATC	7735	CTTCTGCCCCAAACAAAGGAA	10421
1450	TTCTCCAATGACCGGGTGACAA	5050	CACCCTCTGGCAGCTCTCAGA	7736	CTGTGTCCATTCTCTCCAATGA	10422
1451	CTGGCACTGTTACATATTTCTGAGA	5051	CCAGATAGCTGCTTCACATGGT	7737	GCTGGCTGGCACTGTTACATAT	10423
1452	AGTATCTGACTGCAAGGCTGTAC	5052	TGGCTTACCTGCAACCTGTCA	7738	GCAATTGACCTAGTATCTGACTGCAA	10424
1453	TGGTTGAGACCTGTTATTTCCAGTAC	5053	TGCGAGGGGCGAGACTTT	7739	CACAGCATGGTTGAGACCTGTT	10425
1454	TCAATGGGCTCATCAGTAGATATCAG	5054	CCTGCTTCAAGTTTACTGAACGTTCT	7740	GGTGCACTGGAAGTAACCATAGCAA	10426
1455	AACCTGACTTTAATACAAACCCAAGT	5055	GAGTGGCCTTTGAAGTCTTGCA	7741	GCCTTCACACAACAAACCTGACTT	10427
1456	GGCTGCATGCGAGTTGCTT	5056	AAGAATTGCTAGAAATGTGGGAACATC	7742	ACCTGTTGACTTTGGGCTGCAT	10428
1457	GCATGTTATTCTCCAGGTCCAGAA	5057	CCGCTGAACAGGTTCTTGAGTTGA	7743	GCTGAAACTCTGGGCATGTTATTCT	10429
1458	GGGACTTGCAATTGCAGTGTGAGA	5058	GCAGCAACAACCTATTGAGTGT	7744	GACACATGGGACTTGCAATTCTG	10430
1459	GTGGAAGGTGAAGCAGAGACA	5059	AAGTGCCTTTGAGCCATTCCA	7745	TGCGCTACTTTCCGTTAAGG	10431
1460	CCTGATTGGTATTGGCTTTCAGGATCA	5060	AGTCTAGATACAGCCTCAGAATCCTT	7746	AGTGCCTGATTGGTATTGGCTTT	10432
1461	GCAACAATCCACATGAATGGACTATG	5061	GCCCTTGAGATGCTGCCAAGT	7747	ACCATGAAATGTGCGCAACA	10433
1462	AGAAGCTCACTGGAATTGCAGAT	5062	GGTAGCCAAAGCTCCATATTTCTAGC	7748	CACACTATACCTCCAGCCAGAATC	10434
1463	GGAGCTGCTGTTTTCTGCTTT	5063	CCCATGACTTCCACCCAAACCC	7749	GGGAGAGCAAAGGCTACTTAGGAA	10435
1464	GAGTGGTGGAAGTTACCTCTCAAC	5064	GGCCTGTCTGCAATCTCTTTGT	7750	GGGCTCAGGTGGAGTTTCC	10436
1465	ACAGTTTAAAGTTTTGCTGCTGTGT	5065	ATCCGGCTGAGTATGCCAAGT	7751	TGCTCAGTTCTCTTAACCTATTACC	10437
1466	CTCTGCCATGGTTCTGCTCTA	5066	GCAATACCAGACCTGTGGAAT	7752	GCTGAGCTCTTGCCATGGTT	10438
1467	GGGAATCATGGTTCTCTGCTATTGCT	5067	CAAGAACAGCCAAACAGGAAATGATG	7753	CAGATCTTGGGAATCATGGTTCTCT	10439
1468	CGATAATGTCACTGATCTCTGGGAATTC	5068	CTGCACGCATGATCAGTTATGG	7754	AGCCCTCGATAATGTCACTGATC	10440
1469	TGCTCCCTGCATGATGATTGT	5069	TGTGCACACACACTTCCCTCTT	7755	ACTCCCTGCCTCCCTGCAT	10441
1470	CATAGTTCTGGGAATGGATTCAATTTGC	5070	TCCATCCCTGGTGTATGAACA	7756	GGATACCATCATAGTTCTGGGAATGGAT	10442
1471	CCTCATATACCTGGAGGAAAGGAGCAT	5071	GTGTCCTGTGTCTTCAGCAATA	7757	TTCCCAGGCTCAGGTCATAAGA	10443
1472	TGAGATTGCGAGCGACTTAAAC	5072	AGCATTGACACAGTTATCATACAACAG	7758	ACCACTCCGGAGCAAAACACA	10444
1473	AGGAGGACATCAGATCCTGCAT	5073	TGCAGCTGCAGAAACGATCA	7759	GCTGTTTACCAGAGGAGGACATCA	10445
1474	TGATGTGGCTTGGACTTCAGT	5074	GCCTCTGTCTCTCATATCCATGAAC	7760	AGTGCAAGAGAGAAAGTGATGGT	10446
1475	AAGTGGGTCTCAGGGCTCAA	5075	GGCTCCTCTGCTCCAACCT	7761	TGGAAGCATGAAGTGGGTTCTC	10447
1476	GTGCAGCCAAGTTGGGGAAA	5076	TGGCCGCTGAACCTTCTCCTTT	7762	GCAAAAACAACCTCTGTTAACTTCATTG	10448
1477	CAAAGTAGATAAAGTTTTCTTCCAGTGT	5077	GCATTCAATTAACAGAGGGGAGACA	7763	CCTGCATTATCAGTTTTCAGAGCAAAAGAA	10449
1478	GGCCGCAAGCACTCCTTT	5078	GCATGTGACCTTAGGGAGATACCCAGAT	7764	TGCTGGGGTTGGGAGAAGA	10450
1479	AGAGTCTGGAGGGTGATCCAA	5079	GAGTCTGCTCTCTGGAATGATTCT	7765	TTTCTTATGAAAAGGGGACAACCTCA	10451
1480	GCATTTGAAAAGCATTATCGTCTCATC	5080	CAGAGCCACCTGAACTGTTT	7766	ACCTAGTAGGCTGTAGTAGAACAACCTT	10452
1481	ACCCACACAAACCATACACAAAG	5081	GGTTGTATGTGTAGTTGTGTGCTT	7767	ACACAACCCACACAAACCAT	10453
1482	ACCTTCTGGTGCCTGTGATG	5082	GTAAGGCTTTCTGGGATAGGAGATAG	7768	GCTTTAGCTACTGTGGTCACCTT	10454
1483	ACACCCACCCCTTTCTCTAAGTAG	5083	GGCCACAGACTAGAAAGGATTTATCCA	7769	CTATCACTACACCCACCCCTTTT	10455
1484	GCCTGATAACCTGCTGATTCTCAAAC	5084	CAAGAGATGCTGCTGTGATGTTAG	7770	TCTGGCCTGATAACCTGCTGAT	10456
1485	AGGTGGGCAACTGCAAGCA	5085	GCAGAATGCTAAGGGAGGTTGTTAAGG	7771	GGAAGACTGTACATCTCTGGTGAT	10457
1486	CAGCTATACTGACGGTAATTGTAAGC	5086	GGTGAGCCTAAAGTCCATGCATGAT	7772	GTAATGTTAGTAGCCAGATCAGCTATACT	10458
1487	AAGGGAATGGAGCCTGCTAGTT	5087	CAGCCAAGATGCGTTTAACTTCTC	7773	CTTGGAAGAGGTACCCTGAGGATGA	10459
1488	ACCAACTTCTGGACTGCAAG	5088	AGCAAGGAGCAATGAACAGCTA	7774	GCAGAAATGCTTCCACCAACTTCT	10460
1489	GCATGTCTATGGCTTGAAGGTAGT	5089	AGGCATACATTTAACTAGGACACCAA	7775	TCTGAGCCAGGCATGTCTATGG	10461
1490	GGTATTGGCTGTCTCAAGATTACAC	5090	GCATTGGTGTGAAAGCCTGCTT	7776	GGAACGTAGGATCAGAAAGGTATTTGG	10462
1491	ACGAGCAGCATCTTCTGACTCT	5091	AGGCCATCCACCATGAACA	7777	GTTCTAAGAAGACGAGCAGCATCTT	10463
1492	TCCATAGGTCAGGCTGACTATGC	5092	TCTCATGGTACTCAACCCATTCTCT	7778	TGAGCAACTCTTCTTCCATAGGT	10464
1493	GTCAGAATGATGCTGTTGTTTTGG	5093	ACTCCTCCGTGGTGTGTTC	7779	GGTTGGGGAATAAAGGGGAAAAGC	10465
1494	GTGGTGCTGTGCCACAAGAA	5094	CCTGCTGGGATTTGCTCTCA	7780	GGTGGAACCTTCTTCTTCTTGAC	10466
1495	AGCAGTAGCAAGGAGGTGACA	5095	CTCACCCCTGGCCCTCTT	7781	TGCAGACTAAAGAAGAGGGAAGTG	10467
1496	GGGAGGTTAGACTTTTACTCTCTCAGA	5096	GCATAATGTAACAGGTAGGGTACTTC	7782	TCCACCCCATCAGCAAGG	10468
1497	GCTGGAACCTCACTGCCATT	5097	TGCGGTCCCATTTCTGAACA	7783	AGTGCAGGGCTGGAACTC	10469
1498	TCCAGTTGACGCCATAACTGT	5098	CCAGATGGATGAGTCTGAAGCTT	7784	TCTCCATCAATCCAGTTGCA	10470
1499	CAGCAACTACTTCTCAATCTGTCTACAG	5099	GGAACCTCCATCAATTAACAGTTGCA	7785	AGATTTTCTCTCAGCAACTACTTCTCA	10471
1500	GCATGTACAAAACAGCCCTTGA	5100	TGCAGACTGACCTGTGACTTT	7786	GGACAAGGGATGTTACAAAAC	10472
1501	GGAGGGTGAGACCAAGTCTGTTTT	5101	GTCATTGAGGCCATGAGGTACAG	7787	TGTGGGAGGGTGAGACCAA	10473
1502	TCATCATGGTCTGTGATTGATTGA	5102	GGGAGAGGATGGGGATTAAGCAT	7788	TGGCTCATCATCATGGGCTGT	10474
1503	TGGGATGGTGGTGTGAGAAGT	5103	CATGGGCTAAGAGGACACATTCT	7789	ATAGTATAACAAGCAAGTGGGATGGT	10475
1504	TCCTGAGTGGATGGTTGACTCT	5104	GCCTCAGGAACCTTGAGTCTTT	7790	GAGAGTTCTGTACCTGTGTATCTTC	10476
1505	GATAATGTTGGGAGAGGCAATTTGG	5105	CCAGTAAGAACAATGCTAGAACACTCA	7791	CAGGATTTTAGACCTAGCACATACAGA	10477
1506	TGAGAGGTGAGTGGAGTTTGCT	5106	TCCTGCCCTGTGAGCCTTCT	7792	AGAAAAGATCTCCTGGAGGAAATGAC	10478
1507	CCTGAATCCCTTTTGTGCATGTG	5107	TCTAAAGAGCCCTCCTCCATCT	7793	CAACTGCTCTGAATCCCTTTTG	10479
1508	CCACCTCTGTAACATGCAAGGA	5108	AGCAAAGACCATGTTCTCTCATGTT	7794	AAATCCTGCCACCTCTGTAACA	10480
1509	GTAAGGGCTTGTCTTTCAGGAA	5109	CCAGTATCTCAGGCTTTATCTG	7795	GGGTCTGTGTAAGGGCTTGTTT	10481
1510	TCCAAGACAAGGGAGCCAGAA	5110	GTTAGTCTTCTCTGCCAGGAAAC	7796	GACCTGAGAAAAGAGTGTATTCCAAGA	10482
1511	CACCAAAATCACTGGGGTTGGT	5111	CCAGCGTTTGTTCACAGTGTGT	7797	CCTGGTCTGTGCTTCACCAA	10483
1512	GCGACCTCTTTCACTACCAAAA	5112	AGTGCAACTATCTTTCATCTTAGCT	7798	CTCACAGTTAAGCGACCTCTTCAG	10484
1513	CTGCTCCTGTGAGACAGTAACC	5113	GCAGTGGAAATGAGTGAAGGTACAG	7799	GGATATTACGCTGCTCTGTGAGA	10485
1514	GACCCATGTACTATTAGCTGTGAAC	5114	CAAGGCTCAAGTTGAGAGAGGTT	7800	CATAGGACAATGAGACCCATGTACTT	10486

1515	TGCCGCTCTGCCAGATTCT	5115	GCTACATCTGCATTCCACATAGC	7801	CAGAGTTCAGAAAGTGGCTTCT	10487
1516	TGCCAGAGACTTTGCCAGATTCC	5116	CCTTTGGGAACATGGTTTGGAAAG	7802	AAGTTTATTACTGCCAGAGACTTTGC	10488
1517	TGCTGAGAGAAGGTGCTATCTCT	5117	AAGGCGCACATTAGTCCCATAA	7803	ACGACCTTTGCTGAGAGAAGGT	10489
1518	TCTCCATGCCCTTGATAGTCA	5118	CCAACCCCAAGACTGTCAACATT	7804	CTGTTTCAGGGCTTGATCTCCAT	10490
1519	GGCAAGGAGACCTTTGAGATGA	5119	CCCGGTTATTCTGTGGCTATTGT	7805	CTTCAGTGGCAAGGAGACCTT	10491
1520	ACTCCCTGAATGCCTCCTTAACC	5120	TCAGGGGAAGCAGCATCATTAG	7806	GGACCAATTTTCAGCAACACCCCTAT	10492
1521	GCTGTGGTCATGTAGGAAGCT	5121	TCTGGTTCACAGGAGGGTAA	7807	TGTTAAAAGTTTTTCGTCTAGAAAGAGGAA	10493
1522	TGCTGCCCCATTGTCACTTTCA	5122	GTACTATCTGGGCTCAATGATACTGT	7808	CTCCTTTTCTTTGGCTCCTTTGC	10494
1523	TCCCCAGCTGACAATCATGCA	5123	GCAGAAGTGGGGATGTGAGAATT	7809	TCCCTCCCCAGCTGACA	10495
1524	TGCCAACAGGTGAAATAGCAGAT	5124	CAGAGTGCCATGCATTGTGGTA	7810	GCCCATGCCAACAAAGGTGAA	10496
1525	CGAGCTGATCTGAGTACAATCACAGA	5125	GCTACCTGGGCTGTGGTATCTT	7811	CCTAGACGAGCTGATCTGAGTACA	10497
1526	ACTCTTTTGTCTCTGGCTGTAGAG	5126	ATGCTAGAGCTCTACATAATAGCTTCTG	7812	CTGTTAAGTGCCAACTCTTTTGTCTCT	10498
1527	GCAAAGATGAAACTTGAAGCTACAAC	5127	CACCTTGCATCCACTGTGAGACT	7813	AGGTTGTTCTAGCAAAAGTGA AAAACTG	10499
1528	ACATGACAGGAAAGTAAAGCTTTGAC	5128	CCAACCTCCCTCTCCAGTCT	7814	CCTGTGCAATCAATTCCATGCCATA	10500
1529	GGGGATAGATGAAGTGTGGCAAAAT	5129	CATTAAACCATCATTGAGCTTCAACA	7815	ACTTCATATTGCTGAGCCAAAGA	10501
1530	TGAAGTAGAAGGATGCAGAGACCTT	5130	AGTTTGGCCCTAGAGCTGAAAC	7816	CGCATAAAGACTGTTTCAGTTATCTGCTA	10502
1531	GAGTTTCTGTGTGACCTAACCATTGTG	5131	ACGTAGGAGCTCCCAACCTAA	7817	GGAATGTAGATTTCTCTGTGACCTA	10503
1532	ACGTGCTCAGCTGTGAAAT	5132	ACTTGGCATAAAACCCACGTAA	7818	GCACACAAAGCACTACAATCC	10504
1533	GGACAGACACTGATTAAGGGCAACT	5133	GAAGCCCCAGTCTACTTGAAA	7819	AGGTATTTTGGGACAGACATGATT	10505
1534	CCCAGCATCTTTGTGAGGAGAA	5134	CTACACTTGTGGAGCTGTCTGAA	7820	ATCTCCTGTCCCAGCATCTTTG	10506
1535	AGGCTCAGCTGCATCAGACAA	5135	TGGCTCCACTCCGGCACAA	7821	TTGAGAGCTCAATACTGAAGGATGAG	10507
1536	CTTGAAAAAGTGAGGCGTTTTGA	5136	CCTCTGACCTGTTTACAGTGA	7822	GCTACACAAACTGCATCTCTTGGGA	10508
1537	TTTCAGGCAAGAAACAAATGATCTGT	5137	GTGCCCCAACTATTCCCACTGT	7823	GACTCACAATTTTCAGGCAAGAAACA	10509
1538	ATCGGCTCAGGCACACTTAGT	5138	TTGGTAACCTGACTTCAACACCTAA	7824	GCATAACATCTGGCTTTTAAATCTGACT	10510
1539	AGGGAGTGTGTGGGTTTGGTT	5139	GCATGGGCCAAGACATACACAA	7825	AGACTGGCAGGGAGTGTGT	10511
1540	GAAACAGTGCCTGCCCACTAT	5140	TTTGGGCAAGCGGTTTCCCTTA	7826	GGCATTTCTAGGATGCGTGGAA	10512
1541	GCACTAACAGCCCATGTACACTAACAG	5141	GGTCTGTACTCAAGTACACATGCTT	7827	TGTGCACTAACAGCCCATGTAC	10513
1542	GAACAATAGGCTGCCTGTGGTT	5142	TGCCAGCCAGTCACAGAAGT	7828	TCTGAACCTGGGTGGAACAATAGG	10514
1543	TGAATCTAGGCTGCCTCTGTACA	5143	AATGTCACTTTACCCATTGCATTAATC	7829	GCAGTTGATAGCTTTACACTCTTGAATCT	10515
1544	GCATGCTGATTTGAAGGAACTGTCT	5144	GGTAGGCAAGCTTGGGTATCT	7830	GAGGAATATGAGACCTCATTTTGG	10516
1545	GCAACAAGTCCAGCTTTACTG	5145	TCCTGTGCTTGGGATCTGAGTCA	7831	GCTAGGAACACAGAAACATTGTTGCA	10517
1546	CCCTGCTAGATCCCACTGTTCTA	5146	GCAGCTTCAGTATTGGGGAITTC	7832	TGATTGGAGAGGCCCTGCTA	10518
1547	ACCTGCAGAGGATGGAAGGA	5147	GGGTACAATTAGCCATGACCCATCTG	7833	AGATTAAACACAGCTTTGGGGTTTTAC	10519
1548	ACAAGGCTCAGGATTCCAAGCT	5148	GACTAGAAAAATGTAATCAGTCCCAAGT	7834	GGACATCAACAAGGCTCAGGAT	10520
1549	CTCAGCTTTGGAATTGACCTTCT	5149	ACACTGACCCAGAACCAAGTT	7835	GAATTGCCACAATAGTCTCAGCTTTG	10521
1550	CCAAAGGCCAGGAAGAGGGTAT	5150	CCAAATTTCTGGCCTCCACTTG	7836	TGCTGCCAAAGGCCAGGAA	10522
1551	ACTGCACTCAGGGCTTGTCA	5151	TCAGCAATGCAGTGTGTTCAGA	7837	TGGCACCTAGGAGGCATTTATTG	10523
1552	TGATTTGGGTGTCAATCTGAAATCAC	5152	GAATGGCCACACTCAAGCTTCT	7838	TCGGTCTTTGGCCTGATGATT	10524
1553	AGGTTTCTCACCCCTCATCT	5153	AGGCGTCCAGGTGAGTGA	7839	GGCCAAATTCTGAATAGCCAGGTACT	10525
1554	CACATCCAGCGACCATCAACAT	5154	TGGCCACCTGAGATGTCAT	7840	CGTCACATTCTGCAGACCACAT	10526
1555	CAGGTGTCTGTTTCCAAACCA	5155	TGCCTGTCAAGTCACATGCTTCT	7841	CTGTCTTCTCAGGTGTGCTGTTT	10527
1556	TGTTCCCTCTCTGCTCTAACC	5156	GACAAATGTCTGCTTCAACAAGCT	7842	TGCCTGTGTTCCCTCTCT	10528
1557	GGTTGGCACTATAATGCCACCATTAAC	5157	AGTGGGGTATCAGTATCTTCTCAT	7843	GGAATTGATTTGGTTGGCACTATAATAGC	10529
1558	ACATGCAGCATGGAGCAATGT	5158	TTCCCCCACTGATTCATGCTT	7844	TGCAATGCCAGACAGCCTGATA	10530
1559	GTGATGATTGGAATGGGTTAGACAGA	5159	TCCTCTCCCGGTCTCTACCT	7845	AACTATTTTCAGGAGAAAGGAGTGATTGA	10531
1560	GCTTGTCTGAATTTCCCAAA	5160	TCCAGGAGTGGAGATGTCACAT	7846	AAATCAGTGCAGGTGCTTGCT	10532
1561	ACCTTGCCAGGAACCCAGAA	5161	GACTGGTGTGTGCTCTGAAAGTC	7847	CCTCCTTTCTGTTCTGCTTGGGA	10533
1562	GTCTTGCTTTACCGCAGACTGA	5162	TGAGGACAGAGGCATATTCTCT	7848	GGTTAGCCCTTGGGTAGAATACAGA	10534
1563	AGGCTCCTCTGCAGGACAT	5163	GGACCGGCAGCAGAACCA	7849	AGGGCCTGCTGGACTCTCA	10535
1564	ACAAGCCACTGTTACGTTTCTAGAT	5164	CAGCACCCTTTGCACTACTTC	7850	GTGCTACAAGCCACTGTTACGT	10536
1565	CCTCCGATTGCTTTTGTGTTCTTA	5165	CTGACCTCAGACATGCAGGATT	7851	AATACCTTCTCCGATTGCTTTTTG	10537
1566	TCTATTGTGTTTCAATCAAGTCACTCT	5166	TGCTCTCCCACTTCCGTTCT	7852	AGCAGTGGAGCCATGAGATCTCA	10538
1567	CAGTCACCAATGAGCTCATCA	5167	CTGTGCATTACCTCCATCCTTGT	7853	CTCTTTCCCAAGTCAACCAATG	10539
1568	TCGAGGTGTGGCTGTTCT	5168	ACATCACACAGAGTCTTTGTCTAA	7854	CCTTTTTTCTGAGTAACCTGGAAGTGA	10540
1569	TGCTAGCGGCTCAGAGCTT	5169	AGTATGGCATGGGAGACTAATTTGG	7855	TTTAATGCCGTGATCATTTCAAGT	10541
1570	AGACCCCATATTTCTCCCTATTGAAC	5170	TGGACGTGATGGGTAGAATCCA	7856	CCGAGCCTTAGAAAGACCCCATAT	10542
1571	CCCAGTGACATCACTTTGCACTCT	5171	GGTGCTTTAGAGAGGCCCTTAACA	7857	TCATGAATCCCGATGACATCACTT	10543
1572	CCAAGATTCCAGCACAGGTACCAT	5172	ACCTTTGTAACCTAAGATAGGGTAGACT	7858	ATGCTGGCACCAAGATTCCA	10544
1573	GGGGGTTTTGCCAGTCATCTAAGT	5173	ACCGTCTCCTTCTCAAGTTCT	7859	AGCAGTGTGTGTGCTACAGT	10545
1574	GGCCACATGGAAGGCATGTTTA	5174	CAGCCAGGTGAGCAGGTTCA	7860	TGCTGGTGGGTGAGATGGA	10546
1575	GCAAAGTTAGGGCAGAACCAACCA	5175	AGGAAGCCGACAGCAATCA	7861	GGTAGCACAGGGCAAGATTAGG	10547
1576	GGGTTCAATAATCCACCTCAACTC	5176	GGCTGAGACTTGAACCTTCTGT	7862	CCTGACCATGGGTTCAATAATCCA	10548
1577	GACCAAGACCTTTCCATCATCCAT	5177	TGGGTCCTGCCACAGTGA	7863	TGTGGAGACCAAGACCTTTCCA	10549
1578	TGTGGCTCTAAGACCTGAGTAG	5178	GGATTATAGGACCCAGCTTCTTACTG	7864	AAGCTGTGTGTGGCCTCTAGT	10550
1579	GAGCAGCTGAACAGTACAATACCA	5179	AGACAGTTTGCCAGTCATTATCCA	7865	AGCCAGAGCAGCTGAACAGTA	10551
1580	GTCAATATCTTAGGGTTCTCTGGTTCT	5180	CCTCTAGAAGGAGGGGATAGTCAGAT	7866	CTGAGGAGAGGAGTCATATCCTTAGG	10552

1581	CAGCCACAGTGAATAAAGTACCA	5181	GACCTGGTATTGGTGACCCTAAGA	7867	TCCTAGCTCAGCCACAGTGAATA	10553
1582	GTTCTGTGACACCATCTTCCATCA	5182	GCTCGGAGGTGACTATCTTACAG	7868	GGGAGCACAGTTCCTGTGACA	10554
1583	TGCTCTCCAGGATCTCCAGTCAT	5183	CCAACCACTCCCTCATGTCTACA	7869	TTAACCACTGTTTCTTGCCAATTGT	10555
1584	AGAACAACAGCAAAACTTGTGATCTG	5184	CCACTGTGTAATCTTTGTTGTGACACA	7870	TGAGTTGTTTTTTGGCCTTGATTCCCT	10556
1585	TCAGCCAACCTTGACCTGTGA	5185	GCTGACTATATGCTTCTGCTGAACTG	7871	CTGGATGAACCTAGCCAAGATCAG	10557
1586	GAGATCCTAAGTCTGTATATGGCAAT	5186	GCCACAAGTAGTTGCCAGATCAC	7872	ACCAGCATCAGAGATCCTAAGTCT	10558
1587	TTCTCTCTGGATGTCCCCCTTAAG	5187	TGGGAGCATGGATGGTGATCA	7873	TGTCTCGCTTCTCTCGGATGT	10559
1588	CCTAGGCTGGGTGGATGGAT	5188	CTGCACATCCTTAATCTTCTGTCT	7874	TCCTGTGGTGAATGCTGTAGCT	10560
1589	GTGGGTAGAAAGAACATTTTACATTGC	5189	TGCTGTGCTAGGTGGCTTTAG	7875	TGAGAGGTTTATAGTCCAGGTAAGTGA	10561
1590	GAGTTGCTTGGTAGGGCTGGAATT	5190	AAACCTGGCACACAGAATCA	7876	GCTGCTTCTTCAAATAATTTGAGGGAAA	10562
1591	ACAGATGGTACCCTGCTGACT	5191	TGGAGACCTCGGGGCTGTG	7877	GGAGCTGCCACAGATGGT	10563
1592	GCACCTATATTCATGCCAAGAGAGA	5192	ACACCTTAGCAGCACTGAACAC	7878	TGACAGACTTTGGCACCTATATTCA	10564
1593	CCTGAAGATTACAGGCTTCTCTCT	5193	GAACACCTTGAAGCTTCTGAA	7879	GGCAGCTGGGATTGTATTGTCT	10565
1594	TGCAGTGGGAGTCTCCATGAA	5194	CCAGTGTAACTATTTGAGCTGGACTA	7880	GAGCCACTACGTTAAAATTAAGAACACA	10566
1595	CTGTGAGAGCCAACCCACAT	5195	TCTTGCTTGAGGCTGATCTCTATG	7881	GTTAGATTCCAGTCTCCCTGTGA	10567
1596	ACTTGCCCTCTAAACCCAGTCA	5196	AACAGGGTCTGGAAGGGCTTTT	7882	CTGGATTCAATTAATCTACTTGCCTTCTA	10568
1597	CCCACTGAGCCTCTGTCTGTA	5197	GGTGTGTATGAAGCCAAGTCTAGGA	7883	ACCACCTGCCCCCCACTGA	10569
1598	GCCCACCTGAAAGTGTCAACTAAC	5198	TGATGCAGCTCTCTCTGTCA	7884	CTTCAAAGCCCACCTGAAAGTG	10570
1599	GTATTTGGGTGCTAGAGTTGTTTT	5199	GAGATAGGTCATCTCTTGAAGACAGAGT	7885	GGGGGAAACTGCACCTGTATTTTG	10571
1600	GGAAAGGCAGGCCAGAGTTTAA	5200	GCAACGGGAGGCAGTTCTAGATCTT	7886	CACTACTTGTGTGCTGAGAATTAGGAAAG	10572
1601	CCACACCTGCAGAATTAGTACCA	5201	GCTCTGGAAGGTACAAGCCATAA	7887	GGCTGTCCATAACCTCTTTTATAGATCTAG	10573
1602	ACAGGGCTTGGGGCTTAGGA	5202	CTAGGCCCCACCCACAAAACC	7888	GGGCTTTTCTTGTGTGCTT	10574
1603	GGGAAGGAGCTGGCGTGTA	5203	CACACCATCCAACCTGAGCAA	7889	GGGAATCCCTGCCAACCTT	10575
1604	TGGTGCTGTGATGTTAATTCC	5204	GTTTGACCAAATACCTGTGGACCTA	7890	CCCCTGGTGCCTGTGATG	10576
1605	AATTAGAATCAGCTGGGCTTAGCA	5205	CTCTGCTCCTTACACACAAA	7891	AGAGCATTCGGAAGAGGTGTGA	10577
1606	AGCACCTGAATTTTGGCAGAGA	5206	TCCACTCTAAAGCTTTCCCATTC	7892	GGTCATCCACAGACCTGAAT	10578
1607	TTTGGGGTGGCATTCTCTGAA	5207	AGCATTCCAATGTCACTTGATTGTG	7893	GCACACCATAGTGGCATATTTTGG	10579
1608	TCTGACAGGGGATTTCACTAGTG	5208	AATGTGTGGCAGGGACAGCAA	7894	GACACGTATCTGACAGGGGATTT	10580
1609	GCCACTAGCAGACCTGTGT	5209	CCTTTAGGGGACAACCTTTTCATGGA	7895	AGGCCCTGGTGCATGGA	10581
1610	TGCTGAGCTGATGGGTGTAG	5210	CAGGGTGAACCAAGCAAGCT	7896	TCGGAGGTCCACAGCTCTCATA	10582
1611	AGCCAGACTCCAGGGATAGAG	5211	AGGGCAGGGACCTTATTTACCT	7897	GGAGTACTTTGTATATCCCAATGGA	10583
1612	TGGGTGAGTCACTGGATTGCT	5212	TGGACCATCTGAAGGCCTACTGA	7898	AGGACAGGCCTATCCAGTCAA	10584
1613	CAGAGTTAGATGAGTGGGCTTCCTT	5213	CCCACTGAACCTGCAGACATTATTT	7899	CCAGGGCTACAGAGTTAGATGAGT	10585
1614	GGTTGTGACCCTACTTACTTACTCCTT	5214	CAAGAGGAGAAAGTGTGGATTGTC	7900	CCAAAACAGAAATGTCCAACATATTTAGC	10586
1615	GAGGATTATTGAGAGGGCATTGTCA	5215	CATGCAGGAGCTTAGACCATGT	7901	AGATGGATAAGGTGTGAGGATTATTGA	10587
1616	CCCCAAGAATCTTACCTTCAGACTA	5216	TTGGACCCGAATGCAGATCTG	7902	CCTGTCCCCAAGAATCTTACC	10588
1617	CTCGTGGGCTCCTTTCCTTAAATG	5217	TGGAGCCACAGAGGTTTTATGTC	7903	TTCTGCTCGTGGGCTCCTTT	10589
1618	GCCTTGTGAAGAGGGGGTAGGA	5218	TCCTCAGCTTGTGGACACAAA	7904	ACAGGAAGGAGCCTTGTGAAG	10590
1619	CCTGCCCTTGACCAGATACAGTTT	5219	CAAAAAGGCAGCACACAGAT	7905	AGGCCTGTCTCGCCTTGA	10591
1620	CCAGCACCGGTGAGTGTTT	5220	GGGTAGGAGGAGGACACAGTAC	7906	GTGAACGACGGGATGTTTACA	10592
1621	GCAGGATAGGGATTAGGTTCTTAACAG	5221	GCACCTACAAAACCTCTCCTCCAA	7907	GAGTGGCAGGATAGGGAATTAGTT	10593
1622	TGTGGACTCGTAGCCTTCAGA	5222	GGCTTAGAGCAATAGGAGTTTGTTT	7908	CTAAGGAAGTGTGGCCATGCT	10594
1623	AGCTGGTAAGGGGCATCCATT	5223	GTGGTAACTGTTAGTCCACACTTAGG	7909	TCAATTTCCCAAGAGCTGGTAAGG	10595
1624	GGGGTCTCTTGTCTTAGAGATGAGT	5224	CAAAGCTGTGGTGACCCAGAT	7910	TGGGGGCTGCCCATCAATT	10596
1625	TGGGGCCACGTCTGAACA	5225	GGAATAGAAGGCAGGGAACACTTC	7911	GCATTGATTAGGGATGCGACCTT	10597
1626	GTCTCATGCAGAGTTGGTGACT	5226	CTGTCAACAGGGCTTCAAGCT	7912	TCAGGACTCCAGTCTCATGCA	10598
1627	TCAGCCCAGGCTCGAACCAC	5227	GCCATCATTAGAGGAGCTTTTGA	7913	TCCGCACAGGAGGCTCTGT	10599
1628	ACAGATTTTGCCCTTGAGAGTT	5228	GTCAACAGCCTGCTCTTTTATG	7914	CCTGCTGCAGAGTCTCTTCTT	10600
1629	TTCTCCAACACTGCCATTGT	5229	GTGCATCTCCAATCCAGGTGAT	7915	TTTGCCATCTTCCAACACT	10601
1630	GGAGGTTGGGTGCATCAAATGTAAGG	5230	GACCTGGAGATTCTCTCACCTT	7916	CTTTCACTGAAGCTCTCTACTGT	10602
1631	AAGTAAGGGTGTGATGGTGTATTATTC	5231	ACCTGACTTCCCATGCTTAAGC	7917	GTCTAAGTAAGGGTGTGATGGTGT	10603
1632	GGCAGTGTGAAAGGTGACTGTA	5232	CTCAAAGTTGAAAAGGATGAGCTTGA	7918	CACATAAACAGCTGGAGAATGTTAAAGATG	10604
1633	CAGGTATGTTTAGGAACAGCAAGGA	5233	TCTCCAGCAGTCTACCTCTCA	7919	GAGGGGTGTGAGGTATGTTTAGG	10605
1634	AAGGAGCAGCAGACTCCAAAGG	5234	GATAGGGGCAGAGTCTTCTTAAAC	7920	CTGGGTTATGCGATGCAAGGA	10606
1635	GCCAAAACCTGACAAGTGGTACTG	5235	TGGCTGACCCGGGTAGCT	7921	GGGAAACATACACTTATAGGTGCTCTGT	10607
1636	CTGAGTGTGTTAGGGGCTTGT	5236	GGTGTGACTTACAGCCAGATGATC	7922	GGGAATCTGAACCTCTGAGTGTGT	10608
1637	TGCTGCAGCAACGCTCTGT	5237	CTGCACATTGTGGCTTCCCTCTTA	7923	CCTGGAAAGGTTAAAACCTTGCTGAT	10609
1638	GCATGACTCCAATGCACTAAGTAGGA	5238	TGGGATTGTGCTCCTGCTAAGT	7924	GACTCAGCATGACTCCAATGCA	10610
1639	GCTTGCTTTAGAACTGACTAGCAAAG	5239	AAACAGACTTCATTTCCCAATCAC	7925	GCTCACCAGCTTGCTTTAGAACTGA	10611
1640	TGGGCTTCTATTACGATCAG	5240	GCTTAAAAGAGGTTTGCATCCCAT	7926	TCCTGCTCTGGCTCTATTCTGT	10612
1641	CTGTAGACTGAAATCAGGGAATTGC	5241	GTGACCATTAAGGATGCGCTCTTTCC	7927	GGGGTTAATGTCTGTGATAGACTGAAATCA	10613
1642	GGAAGAATGTTGGGATGAAAGAAGGT	5242	CCCATCCCACTTTTACAGCAATT	7928	CAGCTTGGTAGAGATTTTAGGAAGAATGTT	10614
1643	GGAATTTGAGAGGGCAACATGGA	5243	TTCTGGCCCCCTCTCCCTACA	7929	TGGGACTAGGACCTAGAGAAATAGG	10615
1644	CAGTGCAGCTCCCTGAA	5244	ATGGGAAGAAGCCATAGAGCAA	7930	CGGTGGGACCTCTCTTCT	10616
1645	CTGGGTCTTTTCAAGTGACCCATA	5245	TGCTTGACTCACGCCCTTCCA	7931	TGGACCTGGGCTTTTCAAGT	10617
1646	GGAGCTTGCTTCCCATTTTTCC	5246	AAGACTTGGGACGGGATACCT	7932	AGCTTGACTTTGGAGCTTGCT	10618

1647	AGGGAAGGAGTTGTGAGATTCCA	5247	CCAGGAACCTCTAGGGAAGACAGAA	7933	TGCTCAAGGGAAGGAGTTGTG	10619
1648	TGAACTGGAATTGCAGCAACAG	5248	CACCAGATAAACACACTCTGGAA	7934	GGGAATAGGAGTTAGATGAACCTGGAATTG	10620
1649	GCAAAGCCTTCTCTCGCACATT	5249	CAGCAAGGCTTCTCTGGTCAA	7935	AAGAGGGAGCAAGCCCTCTC	10621
1650	CCTGTCCATTTGTATTAGGTATGAGCTT	5250	TGCCAGCGAACCTAGAAAGGA	7936	GAGCACCTGTCCATTGTATTAGGT	10622
1651	GGGTTAGCTAGGAGTGAGTATTACTAAGC	5251	ACCAGCCCAATATTATCCCAATATG	7937	CGTGAGCATTTCTAAATGATTGTGGAAT	10623
1652	GGTGGTTCCAAAGAAAGGGATCAGA	5252	AGCCCAGATTCTGAGGGCTTTA	7938	TGGGAGGGGTGGTTCCAAAGA	10624
1653	GCAGACACTCAGTGCATGTTTGTG	5253	TGCTCCACTTCAGTGACTAGGT	7939	CAGAACCTGCTGCAGACACT	10625
1654	CCTCAAGCCAGTGGTCTCTTC	5254	AGAGCTGTGCTGCCTCTG	7940	GTTCTGGTGTTTCTGACCTCAA	10626
1655	TGGCCTAAAAGTGCCCTGCTAT	5255	GCTCCTTCTATTTTGGAGGTCAAGGT	7941	TCCAAGCCCTGGCCTAAAAGT	10627
1656	CTGTAGTCCCTGAAGGGAGAAGGA	5256	CCTCTTGGGAAACAGCTCTTTGG	7942	AGCAGCTCCTGTAGTCCTTGAA	10628
1657	GATGTGCTGAGAAGGGTTCAGA	5257	CGTCTCTCCCTGATACATTCCT	7943	GTGAGAACCAAGACCTTCTAATCAGT	10629
1658	GCAACTTTGTGCTTAAACCTGAAGT	5258	ACGGCTCTTTCCACCCATCA	7944	GCAGGAAGCACTTTGTGCTT	10630
1659	AGGCGGAGTGCCTAGCAT	5259	AGGCCATGTCTGATGGGAGTGAT	7945	CCAGAAGCATTTAAGCTCAAAAGTG	10631
1660	CCTGCCTCATTGGTATGTGGTT	5260	TCACTGTGCCAGCCTTTGTAA	7946	ACCAACACCTGCCTCATTGGT	10632
1661	GCTGAGATTTTGCCAGTACGT	5261	ACTACAGGATTCGGAGAGGGAAAC	7947	CTCTTCAGTTGCGCCTTTTGAG	10633
1662	TGTATCTTTTGAGTTACCTCTTAAACC	5262	GGAACGCTTGCTTTGGATTGG	7948	AGCCATTGTATCTTTGCAGTTACC	10634
1663	AGGACCACAACTGATGAAGTC	5263	GAAAGGATGTCTAGGGGAGTGAT	7949	GGAAACCTGAGAGATCTTTCATTTC	10635
1664	ACCTCATGCGTCAGGACTCA	5264	AGGCTGGAGGAGGACACATTT	7950	TGCTGCCACTGTGACAAAGCA	10636
1665	TCTGAATCCCTGTTACATCTTTCCA	5265	TGTCTTCATGTGTATGGCTGTGT	7951	CTGTTTCCCTATCTGAATCCCTGTTAC	10637
1666	CCAGAGTATTTGTCTCCAAGCTATCC	5266	GGGTCAACAGATGCATGTGAAG	7952	AAGAAACAAAACAAACATTAAGCTGTCTT	10638
1667	GGCAGTAAGGAGGCCCTGCTA	5267	CACCACACCTGGCCTATTTTCT	7953	AGAACACTAGCAGGCAGTAAGGA	10639
1668	AACCTGTATTGGCTGCGTGAGT	5268	ACCAGGTGGCTGGGTGAGT	7954	CCAAACCACTGAAAAACCTGTATTGG	10640
1669	AGTTTCTGCTCTGCCACTACCA	5269	CCTACAGTGATCATGATGAAGTCTA	7955	CAGGAGACCAGGTTTCTAGTTTCTG	10641
1670	GGGTCTAGAATGGATTGACAGCTGT	5270	CTGTCTTATTTTAGTGTCATAGGGTTATG	7956	TTAGTGATGAGGGTCTAGAATGGATTG	10642
1671	AGGCCAAGTCCCAGGTCAA	5271	ACTTCCCCAACCCCACTCT	7957	GCCTCTATGCCAGGCCAAGT	10643
1672	TGGGCCCAAGCAGGACTGT	5272	CAGCTCCAGGAATTGCTGTACT	7958	TGGGAGCATGGCCTGATTGGA	10644
1673	TCAGTGCATGGCCTCTCTCT	5273	ACCTGGGCTTCTATTCTGGAGAGA	7959	TGCCATTCTCACTCAGTGCAT	10645
1674	TGTGGCTCTCGAGACAATTACTG	5274	ACTCTTTCCTGCTCAACTGCAA	7960	CCATTGACATGTGGCCTTCGA	10646
1675	CCTGCAAAACCGTTGACAATTAGG	5275	CCCTAAAACACAACCTTGATCATGCT	7961	AGCACCTGCAAAACCGTTGA	10647
1676	AAAATCCCATAGATTTCAGGGTGAGA	5276	CTCTCCCTCAAATCTGCTGCTT	7962	GAGGAGCAGGAGAGATGAATCTG	10648
1677	CCATAGGGATGCTGACATTTGCT	5277	AGGAGGAACCCAGGCAAAATAGG	7963	AGTCAAGCCCTCTTCCATAGG	10649
1678	CTGAGGCTCAAAGTGATACAGCTA	5278	AGTCAGTGGCCTGAGTTCTAGTC	7964	GGACAGACATATTGGTCCCCATT	10650
1679	GAAAGAACAGAGCTCCCATGCT	5279	CCTGGAAGACAGAAAGCTCATTCC	7965	GGAGAAGGGTGAGAAAAGAACAGA	10651
1680	CACGAACATCAAACCTGAGGAGCTA	5280	TCCCCATGCCTTCCAAATC	7966	GGTGGAAGGTCACGAACATCAAC	10652
1681	GGTTGTAAACGGAAATACAGGTTTCAGTTG	5281	CTCTTGTTGATTGACTCTGCTAGTG	7967	CATAAAAGTAGGGTTGTAAACGAAATACAG	10653
1682	CTGGCTCAAGCTCTTTCGAA	5282	TGGAGGGACCTGGAATTCATGT	7968	GCTGGCTGGCTCCAAGCT	10654
1683	AAGGTCTGCTGGTTTCTATGG	5283	GGGATCCATAGTTACCCCTCTCCTA	7969	GCACCTTTTCCAGAGCTTTAAA	10655
1684	AGAGTGAGACTTAGGAATCATTATTGG	5284	CCCTACCTCTTAGCCAGAAACT	7970	AGCTGTAGAGTGAGACTTAGGAATCA	10656
1685	CGCTCAGTTTACATATACAGGTTTAGGA	5285	CTGCAGTGTCACTTACTCTCTGT	7971	TTCTATACTAACTCGCTCAGTTTACA	10657
1686	AGAAGTGTGCTGACGACAAG	5286	TCACTCTGTCCACTCTCAGTT	7972	GTGGCTTCAGGATTTAGAGAAGGT	10658
1687	GAGCTGGGGGTTTGTGATCATA	5287	CCAACCATGGCTTGAGATCTTAC	7973	TGTTTTACAGAGCTGGGGGTTT	10659
1688	GGACAGGTTTCTAGCAGTGAGAA	5288	ATTTACAGGCAGAGGTGTGT	7974	CCTGTCTGTAGGACCAGGTTTCTA	10660
1689	GCAGACCTGGTCAAGAAGACAT	5289	GGCTGGTACTGTGGGTGATTACAA	7975	ACACAGCTCCAAGTAAATGATAGGAA	10661
1690	GCCATGGCCCTCTGAAGCA	5290	GAGAGAGGCTGGGTCAGATCCT	7976	GGGGGCTTAAGCAAGAAACACT	10662
1691	CCAGCGATGTTACGGGATGTAA	5291	GCTCTTTCACATGTGGGAGTAGCT	7977	GTCTCAAACACACCATGTCTTTTTC	10663
1692	GTGGTCTTCCATGACTTGTGA	5292	CCAGGTCAATGACAAAGACCTA	7978	TGCTCCAGTGGTCTTCCA	10664
1693	AATGGACCCAAGGCCACATG	5293	CGAAGCCCATGTTTAGTCACTTAGT	7979	ACAGCAGGGTTGAGGAATGGA	10665
1694	CTGCAGGGGATTAGGGAAGA	5294	GAGTGGTTCTAGGGAAGTCACACTT	7980	TGTTCAAACATACAGTATAGCTACATGGT	10666
1695	CGCTTCCACCTCTTTTACTGATTC	5295	CAATCATGTTTTGGAGACTGGAGGAT	7981	AGCCGCTTCCACCTCTTTTG	10667
1696	GGCTGGTGACAGTAGGAAATTAACC	5296	CAGCCTTCCACAACATGAACCA	7982	AAAGATGGCTGGTGACAGTAGGA	10668
1697	CACCTACCTTCAGCCTTTTATGCA	5297	CCACTTGCAAGAAGAGGTGCAT	7983	CAGACTCACCTTCCCTCTTAC	10669
1698	GTAGGCAGCCCCCTTCCA	5298	GTTCCACACAGTTACCAAGCT	7984	CGATTATGAGGCCCAAGGTA	10670
1699	GCTCCTTCTACTGGCATTCCT	5299	TGCATCAAGGGAAGGGAACAC	7985	GCCCATCTGCTCTCTTACT	10671
1700	TTGATGCTGTGACTGGGAGATG	5300	CCAATTTGGGATTCCAATGCTACTT	7986	GGCAGAAATCATTGATGCTGTGACT	10672
1701	TGGGAGTCTTCAGACCTGTCTT	5301	CAGTTACGCTCACTGGATGGAT	7987	AGTCAGCCACTGGGAAGGAA	10673
1702	CATTACTCCACAGTGCAAACTCTCT	5302	GCATGAGGACTACTCTGGGTCTATTG	7988	GAACCTCTCTGAACCTGAATAAG	10674
1703	CAGCAGCTGGCACTGACACA	5303	CTGATGGGACCATGCTCTTCT	7989	CAACTGAAAAGGATAGAGGTAGCA	10675
1704	CCCAATCAAGGAGCCCTGAAAT	5304	GAAGCAGCCTGAGGTTAATCTCT	7990	TCCTCCTTCATCCCAATCAAGGA	10676
1705	CCAAACAAGGAGGCAGAAAATGTAACC	5305	CCTTACTTGTGGGAGTGACATGCT	7991	CCCCAAACAAGGAGGCAGAA	10677
1706	AAGGACTTCTCAGGGCAAGTG	5306	AGGTAACCGAGGCTGGGAGTT	7992	CCATCTCCATGTTGAGAAGGACTT	10678
1707	CAGTAGCTGTCAAGTTTTTCCAGAAG	5307	TTGAGCAGGACCATGCTCTTGG	7993	CGTGCTAGAGATACAGTAGCTGTCAAG	10679
1708	GTTTTCCCTTTTACCAGGAATCA	5308	TCAATAAATGGCAGCCACCATCA	7994	AGGATCCCGCCACAAAAGGA	10680
1709	AACTGCCACAGAATCTCAAGAG	5309	TGCTGTGATCTCTCCCTTT	7995	ACAGATTGGAAGTCCACAGAAC	10681
1710	CTATGGGGAGCAGCATTTCTT	5310	GGAGGTGAGACAGGACAAACAA	7996	AGGTGGGGGAAGATCAGCTATGG	10682
1711	GAAGGAAGAGACATGGGCCATT	5311	TCGCCACCCAGCTCAACA	7997	CAGTGTGGAAAATACTATTTCAAAGATACA	10683
1712	AGTCCCGACCAATATCCAAGA	5312	GCTGCGGCTTAAAAAACCATGGT	7998	ATCTCAGGGTCTGCAAGGA	10684

1713	TGAACCCAGGCATGTGTTCTGA	5313	CAGCTGAGCTCATCTCTTCTCTT	7999	TCCTAGTCATCTTGGCAGTGTCT	10685
1714	GGAGATAGTCACCACTAGCATGGGA	5314	GGCCTAGAAGAGCTCTGAGACA	8000	ACCCAGGATTGGTCACTGAAGGA	10686
1715	TGGTTGATAGCAAGTACTTGAAACCT	5315	ACGGTAGTTCCTCCCTTACC	8001	GGACCATGGTTGATAGCAAGTACT	10687
1716	CAATTTTCCATTTGCTGACTCTCA	5316	CAAATATGCAGTCAGCCCTGTG	8002	CAGGCAAGTCAATTTTCCATTTGC	10688
1717	GGTCAGGACCAAGAGTGGACATA	5317	CCACAGCATTCCAGTCTACCT	8003	GTCCTTGCCTTACAGAGCTTAAGG	10689
1718	GGGTGAGTCCCGTGTAGGT	5318	AGCTCCTGGATTAAAGGCACATAG	8004	TCCGAGTCCACCAAATCCTAGGA	10690
1719	CCTTGTGCTAGACATGAAGCAAGATC	5319	AGACTGCTGCTGAGTTTTGTAGT	8005	ATCTGCCTTTGCTAGACATGAA	10691
1720	GGATGTTTTTCTACCACTAATTTCCAT	5320	GAAGCCGGGTATGGAATAGTGA	8006	CCCTCACACCTCAGGATGTTTTCTC	10692
1721	GCTGACCATTGGCTTCTGGTTTC	5321	GGGTCACTCAACACCAAGGAGTTAA	8007	GCCTTGGTTCTGTCTACAGT	10693
1722	GACACTTAATACACTGTCCGGATT	5322	TCAGTTTCCCCCTACACAATGG	8008	TGCTGCAGACACTTAATACACACT	10694
1723	CGAGGCAGGAGGTACACATC	5323	TGTATAGATAGGGGTCTTGCCATTTTG	8009	TTGGGTGCCGTGGCTCACA	10695
1724	CCAATTTAGCACGTTTCAAATGGATTTT	5324	GGTGGAAACGGATTTGGGCATA	8010	TTTAAACATTCCAATTTAGCACGTTTCAA	10696
1725	CAGTAAGTGACACAGTCTTGCT	5325	CAGGATGGCTGTGTTCACTGA	8011	TCAGGTGCTGCTGCTTCTCTT	10697
1726	CGAGATGGATCTCGAGTCTTTC	5326	CATCCAGCTGTGTCTGCTTTGT	8012	GATTTGCTGAACGAGATGGATCCT	10698
1727	GGAATCATTTGTCTCCAGGAATTG	5327	CTTACCTTAAGATTTCATGCCCATCA	8013	GCAGATCATATCATGGAGGAATCATTGTGT	10699
1728	GCACAGACTGCACAGATACACT	5328	AGTCTGCTCTTCCACATG	8014	CCACAACAGTGTATCTGATCAGAGA	10700
1729	CCCTGCAGGGTTGCTTAGG	5329	GGGAGAGAGGTGTGAAGGACCACAT	8015	TTGCTGCTGCTTCTCTCTT	10701
1730	TGGGGAAGGTATCTGTGGTACCT	5330	TCCAGGGTCACGGTGTCTTTT	8016	AAGGTGTGAGTAGGTGGGTCTGA	10702
1731	ACCCCAAGAGCACCTTCCA	5331	CCTTCTGTGGTGTCTCTCTTTT	8017	TGCAGCCGAGACCCCAAGAA	10703
1732	AAGTCTTGTCTGTGGAGAAGA	5332	CCAATGCCATTAGCTCCAGAAACA	8018	AGAGTGCATGAGGCTTGGATCT	10704
1733	CTGCTGAGCAGTGTGACTGTT	5333	GTGTTAAGTTAAGCCGTGCAGCAA	8019	TTTTGGGGGAAATTGACAACCTTAGATTA	10705
1734	AGCAACTGAACAGCCCATTTCC	5334	GGTGATCCCGTCAAAAGTTGAAAC	8020	CCTTGTCTCAGCAACTGAACAG	10706
1735	GCAGTTTCCCCTTCAAATTCAC	5335	GGCTTGACCTTTTACAGATCACCTT	8021	CATCGAATCTCCACACCCACAT	10707
1736	GGGTCCAGGGGGCTGTAA	5336	GTTCAAGAGTCACGGCAACATACAG	8022	CCATCACTGACTGCGTGGTAA	10708
1737	CCCAGACAAGAACCACGCTT	5337	CTGCAATAGTTTGGTGAGAGACATAAC	8023	CACCATACCCCATGAAGAGTTCA	10709
1738	AGCTCTGGGGTCTGTTGGA	5338	ATGCCCTGTGCTCTTGAAGT	8024	CTGGGCCAATTCCTGTGAAGA	10710
1739	CTTGGGTGGTCTGAAAAATGTAGGT	5339	AGTCGACCCCTTCCATCTCAT	8025	TGAAATTGAGAGAGAGCTTACATTTCTA	10711
1740	CCAGCTACCTAGGACCAAGTCATA	5340	CACCTAATTCTCTCCAGATCCT	8026	CTCTCAGCCAGTACCTAGGA	10712
1741	AGTCCCATATCCAGCTGATTTAACC	5341	GGAAGACAAGGAGGCAAGACATC	8027	ACATCCTCTTGTCCCTGCAT	10713
1742	CGCCTTACAGTCCCTACTTCTC	5342	GGGTGCCAGTCTGAATTGGTAA	8028	TAGGTCTGCCCGCCTTACAGT	10714
1743	CATGGGAGCCAACAGTCAGT	5343	GCCATGGGCTGTGATCTCACTTA	8029	AGAGTCCAGGCTTCTCTCTCT	10715
1744	TTTGAATGAGGACCACGGTACTT	5344	GACAATCCTCACAATGGCTCTGT	8030	GGCAGAGCTCATCTTTGAAATGAG	10716
1745	TGCATGGAGGATGGGGAAGT	5345	AGACCTGACCAACCTGTTTAA	8031	TGAGAGAAGAGGCAAGGTAAC	10717
1746	CACCGACAAACCTTCCCTCTT	5346	TGCTGCTGGGGCTGACAGA	8032	TCTCCCCACCGACAAACCTT	10718
1747	CAGGGAAGGTGCTGAGTCATTTTCA	5347	ATGTGATACCCCTGTGTAGAATCGAT	8033	GTTACAGGGGAAAGTGTCTGAGT	10719
1748	GAAGAGAAGCAGGTCACTGAAGTCT	5348	TGGGTCTAGCCTCCCTACTGT	8034	CCCTCTGTTTTAGGAAGAGAAGCA	10720
1749	GCTTAAGAAACAGGGGCCATAAC	5349	TCCACCTTCCCAAGGATGTCA	8035	ATCTCTGGTAATGGCTTAAGAAACCA	10721
1750	GGGCTTGAAAAACCTGGGTGTT	5350	AGCCATGGAGAGACAGGAACT	8036	CTAGGTCACTGTGGAAGACACTT	10722
1751	GCGCTTTATGGTGTCCATACCT	5351	CATGGTTGCTGTGATAATTGGATCAG	8037	GAATTTGCACAGCGCTTATGGT	10723
1752	GCATTTCTAGGACTTTCTGTTTGC	5352	CATCCAGGGACAACAAGACTGT	8038	CCCCGGTGCATTTCTAGGA	10724
1753	TGTGCTCATGGAGGCTCCTA	5353	GAGCCGCCAGGTATAAAATAACC	8039	GCCCATCAGCTGTCTGTTTGC	10725
1754	GTCTCCCATCTCTGGTCTCTGT	5354	TGGTGCCAATGCAGTTGCT	8040	CCACATGCTTTGTCACTGGCATA	10726
1755	GTCTGTTCAAGCTTTTCTTTTGG	5355	AAGGAGCTTGGAAAGTCGCCATT	8041	CTCTTAGGGATCCAAGAATAGTTGTTGA	10727
1756	AGGGATGACAGAGCCCAAGTA	5356	ATGTGCCCTTCTCTTCCA	8042	GGATTGAAGAGAGCAGGGATGACAGA	10728
1757	GGAGGAATGGTTTCTGAGGAGCTT	5357	GCCCTCCCTCAGCTCTG	8043	TCCCTGGAGGAATGGTTTCT	10729
1758	TGCCAGTGAGGTCCAACAGT	5358	CCAAAACCTCAGGAAGAAAGGTACGA	8044	TCCAAGGGTGCCCAAGTGA	10730
1759	ACACTGGCTCTGGAACAATGAG	5359	AGGTAACCCCATCTGGCTTTC	8045	CCCAGTGTAGACCGTCATGGA	10731
1760	TGAGGTTAGTTAGGGCCAAAGC	5360	CAACACACATATCCAGGTGTTTTCTC	8046	TGTGAGTGTCCCAAACTTAAGATACAA	10732
1761	CGAGTTTGGGCAGGCATAAGC	5361	ATCAACAGCAGGGCTCATCA	8047	GGGTGTGAATGAACATTTTACATGAAGAAG	10733
1762	CCGTCCACCTACATCATGCTT	5362	GCATAAAGAGTAGGTGGTTTGAAGGGTTA	8048	CCTGCCGTCCACCTACA	10734
1763	GTGTTTCTGGGCTTAACGTAAGG	5363	TGCGTAAAGCCCCACAAC	8049	GGGCAAGTAGTGTTCGTGGCTTA	10735
1764	CATGAGGTCTATCTGTCTTCTGCT	5364	TGTGTGTTTGGGTGGAGTA	8050	CCCTAGCCTTGAATTCCTCTAT	10736
1765	GTGTGGGCAAGGTTGTAGAA	5365	AACTCGCAGTCCCTTCTAAT	8051	TTCCCTAAGTGTGGGCCAAAGG	10737
1766	ACAGGAACCTCCACCTGATCTTC	5366	CCATGACCCAGAGCTCAGAGA	8052	CTTTGAATTCAGCCTTCTTACATAATTCT	10738
1767	ACATGCAAGATGGCCTCATTCA	5367	CCAGCCTTGCCAATCATACCA	8053	AGTGATTGTCTGGAACATGCAAGA	10739
1768	CCTTTAGGGCCCTTAGACACCTTT	5368	GCCTGTGATAACTCTGGCTTGATG	8054	CACAGGCTCATCAGACAAGAGGAT	10740
1769	GAGGCTAAGGACATTGTACACTGT	5369	TGCACAAGCCTCAGTGTTTGG	8055	TGGCAAAGAGGCTAAGGACATTG	10741
1770	GCATCATAGGGGCTTAGAGGTTGT	5370	TCTGGTGTAAAAGACACCTCTT	8056	CCCTGGCATCATAGGGGCTTA	10742
1771	AGGCCTCCACCCTACTTCT	5371	GCACAGGACTGTGCTTCT	8057	AGAAGTGGTACCATTTTGCTCAGT	10743
1772	CTTATAGTGAGGCAAGCCCTGTT	5372	CCTCATGGGGTGGTGGGAATA	8058	AGGTGCATGGCCCTCTCT	10744
1773	AAGGGGAGGGGTGGGAGAAA	5373	GGCTCTCAGCTCAGTGTGTTG	8059	CAGGATAACCAAGTACAAAGGACCAT	10745
1774	CACCTGTCCCTTGTTCAGTAATGAG	5374	GAGGGGCTGATAAAGTTTGGT	8060	CCTCAATCACCTGTCCCTTGT	10746
1775	GGTGATACTTAGTAGGAAGCACTGCTT	5375	ACAGGCCAGGTGGACAGT	8061	GGTGTCAAGTCAAATTAACCTGGCATT	10747
1776	CTTAGCTCTCATGCCCTACATAG	5376	AGCAGGTACACCGTTAATGAGAAG	8062	CCACTTGTCTGTCCCTTCTAGCT	10748
1777	CAAGCGGGGATGTCAAGAAAC	5377	CCTTACCTCTACTCTGAAGTGGACTTG	8063	GGGGGAAAGCTGGTGTCTACT	10749
1778	ACCCTCACTCCCTTCAACCAA	5378	AGGCACCTCTGAGTTACAGTTTG	8064	CCCAAGTACTACTAATACATTACCTCACT	10750

1779 TGAATGGTTATAACGACATAATCTGACACT	5379 GAAGCCAGCATGGTCTCATGTT	8065 GGAAAGCTATTGAATGGTTATAACGACAT	10751
1780 TGGAAAGTGGGAGTAGAGGGTAAG	5380 GACTGTCTTCAAATCAGCTGCATT	8066 CGTAGATTGGATGGAAGTGGGAGTA	10752
1781 AAGGCCAGGATTCAGTGAAG	5381 AAGACAGCAGGAGGGAGACATT	8067 TCATTCCAGCTCTAAGTAATAGCTTACTG	10753
1782 ACCTAAGGGAAATGGGAGTTTGAAT	5382 CTGTACTTTGCCCATCTCTTTCT	8068 CAGCATAAAGGTAGTCTACCCACCAA	10754
1783 TGCCCCACCCCATCAAGACT	5383 GCTCAAGCCCCCTCAATAATGGAT	8069 ACCAGGGGCTGAGAACTG	10755
1784 AGGAGTCCCTTGCACTGTTG	5384 ACAGACACTGAGCCCAGTCA	8070 CTGTGGTATTCTGTGTGTCT	10756
1785 ACGCTCATAGGTCACCTGTCT	5385 TCACATAGAGCAGTGTTACTTCTCA	8071 GCAAAATAACCTGAAGACGCTCATAGG	10757
1786 GGGCTTCCACTGGTAGACAAGA	5386 GGACATTGTGTACCAAAGGCTAAGCA	8072 GCAAGGAAAGGGGCTTCCA	10758
1787 GGCCCGAAATGGTGCTTCT	5387 GAGTACCCTAACACACCCCATAGT	8073 GGAGGTTCTCCTGAATGTGTGTAG	10759
1788 AATGTGAGCCTGGGGATTGG	5388 TTCCCTTGCACTGAGCTTTTCC	8074 AGCTCAGCCAACCAATGTG	10760
1789 GGATGGGATCATCAACTCAAATGCAA	5389 GAGACACTCATTTTGACAGAGAACAA	8075 CACACTGGATGGGATCATCAACTC	10761
1790 ACCTAGCAATGAGACAGCAACA	5390 TGGTGGCCTGACTTCCTTCTGA	8076 AGGCATGCAACCTAGCAATGAG	10762
1791 ACAGCTTCACTGGCCTTTGCA	5391 GCACGTGAGTTCAGATTCTCA	8077 CTGCCAGTCAAGCTTCAGT	10763
1792 GGCTGATTGAGACTTATCTAGCATGA	5392 TCCTCTGTCTATCTGCCTTTCT	8078 CCAAGAGCTAAATTTCCGTACTCTCT	10764
1793 GCACAACATGGACTATTGGGTGTT	5393 CCTCTGCTGTGACGCCCTTATCTT	8079 GCTCCGGAGTTATTTTTAATGCACAA	10765
1794 TCTTCTCCCAATCCCTGCAACT	5394 TGGGAAAAGAGAACCAAGTTGCA	8080 AGGGATCATAGGGGACTGAATCC	10766
1795 CCAGAGCTGGCCACACTAAG	5395 GTTCACATGGAGCATCGTGAT	8081 ACCAGGAGACCTCAGCAACCA	10767
1796 TTGAGTTCACCTGTCTGTTC	5396 GCACCAAAGGGAGAGCAAGTTTC	8082 CAGAACTGTGAGCAAATGATTGAGTT	10768
1797 CTATCTGCTATTGTCCCAACCT	5397 AGCAGGACCTGACTCTGACCTATA	8083 CCCAGGCCAACTAATTTCTCATCTG	10769
1798 GGATGGAGAATGTGGGAATCGAA	5398 AACCTCAGACCCAGGCTCTACA	8084 AATTCCAAAACCTGGATGGAGAATGTG	10770
1799 GCAATGGCAGGTGTGATGGTAGAA	5399 GGCTTCCTTGCTGTACCTTCTATCT	8085 CATAGGTGAAGTGCTTAGCAATGG	10771
1800 AGGTTGTTAGCAGGGCTGTGA	5400 AGGCTGGGAATGGGAGTCTTTCC	8086 GGGCTAAAGTACAGGTTGTTAGCA	10772
1801 CATCATGGCAGGGAATCAGGTT	5401 GCCTTAGTGAGTGGAAAGTCATGTT	8087 GTCATCACCAATGAGCCTATGA	10773
1802 AAGAAACCATCTTTAAGTGTGGGAAT	5402 CCAGGACACAGTGCTACTCCAA	8088 GGCACTGACTACAACCTACTTAACAGGTTAC	10774
1803 CCTGTGAGTGTGGTGTAAACAAGAGA	5403 TCTGACAATGGTGCCGATATGG	8089 AGAGTCACCTGTGAGTGTGGTT	10775
1804 TTCCCAAATCTGGCAGAAGGA	5404 ACCAGAAGCAAGGGCAGACA	8090 GAGCATAAATGGACAAGAAATTCGCTT	10776
1805 TCCCTTCACTCTCCCTCTCA	5405 TGCCAGGATTTGATGACTTGTGA	8091 CCTCTATTACTCTCCCTTCACTCT	10777
1806 GGAGAGGGCCATGTGACAAG	5406 TGAGAGCCACCTTATGTCTCA	8092 GGCACTGAAGAAGCAACAGACA	10778
1807 AGCTGTTTTCCCAAAGTGCTA	5407 AGTGCCAGTATATTATCAACAGTCTCT	8093 GGAGAAAAACAGGGAGGTTTATTTTCA	10779
1808 GCCAGCTGGGTTTCATTGGAA	5408 GAAATCTGGCTAGGCAAGGT	8094 CCTTGGCCAGCTGGGTTT	10780
1809 GATGAAGTGGGATGTAGGCAATGA	5409 GGCCATTTCTACAGGGGATTC	8095 ATGGGGAGGCCTGTCTTAAGA	10781
1810 AACGGCCAAATAGAACATGTAGGA	5410 CGCTGACCTCCCATAGTGTT	8096 TGCCTCCTAACGGCCAAATAG	10782
1811 GGGACCAAAGTCTGTCACAATGA	5411 CTGCATAAAGCCCTGATGGTGAA	8097 CCAAGTCTTGGGAGGGCTTGTG	10783
1812 GCAGTGGGCTTTCCAACTGAAGA	5412 AGGAGGGCAGGTGGAAGCA	8098 CGGCAGTGGGCTTTCCAA	10784
1813 TGGTGGCTGATACATGGCAAGT	5413 GCCCCTCACTGGCTTCT	8099 TGTGTGCTGTGGTGGCTGATACA	10785
1814 CCTCTCCCTGTATCTACTCAAATAGC	5414 GGAAAACTCAGAGACGAGGGTTT	8100 GATTTGGGGTGCCCTTTCT	10786
1815 GAGAGAAGGGGACACTGACTCA	5415 TGGGAGTGTCTGATTGAGCTATG	8101 GCCAGTGACAGAGAGGAGAGAA	10787
1816 ACAAGGAGCCCATGTCTTTGC	5416 TGCACCTATGATTTTACTGCACCTTG	8102 TCACCTAAGCTGGTAGGATAAAAAACA	10788
1817 TGGAAACACAGTGGGAGTCAAGTA	5417 TCCAGCTGTCACTGGGTATGA	8103 GAGATACTGTACACCCAGCAACTG	10789
1818 TCCATCTGTCAAGGTGCCATATTT	5418 GTTGTGGCTTAGGACATGCTA	8104 GACCTTCATGCAAACTACTGTTTCTCAA	10790
1819 ACCACCCACTCACTCCAT	5419 GGGTGTCTAGATGGGTGAGTAAGT	8105 CACCCAAGTACTCATCCACCA	10791
1820 AAGCCTTGGTGCCTACTTAGA	5420 GCAAGGTATTCACTATGATTCCCTTACAG	8106 CAAGGCCAAATGAAGTCACTTCTTAAG	10792
1821 GTGTGATGTGATGTATCCACAAG	5421 CAGCCATAAGGTTTCTCTTGGT	8107 CTGCTAAAGAAAGGGTCTAAGGTTTAGA	10793
1822 GACTTCCAGTTAGAAGCCACCTT	5422 GTTGGGAGTTTAAGATAGCTGAATCAC	8108 GTGTCATCACTAGACTTCCAGTT	10794
1823 TCCAGGGCCAACTCTGAGAA	5423 GTATAGGCCTAGAGACTAAGGTGTCA	8109 ATCCACTTTCCAGGGCCAAA	10795
1824 CTGTGTTCAAGTACAGGTCTGAA	5424 GGTAAATCAGAGTGGACTCAGCATCT	8110 ATGTGAGGTAGCCTGTGTTCAG	10796
1825 GCTACCCATGCCACTGGGAAA	5425 CCAGTGCCATGCTCTAACAAGGA	8111 GGAGCCAGTACCAGGATATGCTT	10797
1826 AGTTAGGTGTGTCAGCTTTTCACA	5426 GACTCTACTGCAAAAGGATCTGGAT	8112 TGAGATGTAATATCATGAAGTTAGGTGTGT	10798
1827 GCATCCCTTCAGAATCATGAATCG	5427 GATGAAAAGAGATGAAGGGACATGAC	8113 TGAAAACGGCATCCCTTTCAGA	10799
1828 GCACAGGCGCTCTTATGGA	5428 GCTGACCCCTTGGCACCAT	8114 GCGGCACAGATGGAATGCA	10800
1829 CACCGCCCACTTGATTCAGT	5429 TCTCAATGGTGGCTGCAATCA	8115 TTCAATGCACCGCCCAACTT	10801
1830 AGGCCAGGACAAGGTGTGT	5430 TTGGAGGGAATCAGAGCTTCATC	8116 GAGGAAGAGCAGGCCATCAG	10802
1831 GGACTCGAGGAATGGACATTCATCTG	5431 TCCTTGCAAGTTGCTGGAA	8117 ACTGTCTAGGACTCGAGGAATGGA	10803
1832 CTTGGGAGACTGGGTAACCTTTGC	5432 TTCCCCACCTCCATGACA	8118 AGGTTGACCGCCAGATTCTT	10804
1833 AGGGACCTCTATGACTCTACAC	5433 GTGATCAAGGGGGAGGAACCT	8119 ACCCAATCTCTGCCCCAGTA	10805
1834 GGTGTTGTGTACAGGCATTCC	5434 GCTAAATCTCAGGCCATTGCTATC	8120 TGAACAATGAGGGTTTGTGTGACA	10806
1835 CTCCTCAATCCAGGATGTTCTTC	5435 GTCCAGGGAATCAGCAAGAGACA	8121 TCTCCAGCTCTGGGCTTTAA	10807
1836 GCAGGTATCTTCTCTCTCTAC	5436 CCCCCTTCAGAAAAGCAGCTTTCA	8122 AAAGAGCTGCAGGTATCCTTT	10808
1837 TGCCCTGAGTCTGAGTTTGTGTTG	5437 TCCCGTAACAGCAGCCTAATC	8123 GAGGGACAGCCTGGTATTTTGT	10809
1838 TGATGAGTGGGAAGATGCAAGA	5438 CCTTGATGTCTGCTCAATTGC	8124 CCTGTTGACTGAAAGAAGGGATGATGAG	10810
1839 GCAACTTCCCTAAATCCCTCAA	5439 GAGGTTGCACACAGTGGTAT	8125 TCCTCAAATCCCCCATCTGTGT	10811
1840 GCTCCAAATATCTGAAGAGCTCATGTG	5440 TGGGACAGGCAGAGAAGTGT	8126 GAGTAGCTGCTCAAATATCTGAAGAG	10812
1841 CTGACTTCCCTAGGAGTCCAT	5441 AAACACCCAGCCCCAACA	8127 ACCTGACTGGCCTCTGTT	10813
1842 CTGTCTGCTGGCATTCAAGTTCA	5442 CCAGTTCTGAGCAGAGTATATGTG	8128 TTGCGTGTACTGGGTTGCT	10814
1843 GCATTGTGAGCTCTCAAAGGT	5443 CCAAGCCTGCAGCAAGGTTA	8129 CTCCAAAATCAGAGTAAATTCAGTTGCT	10815
1844 CCAAGCTCTGGCACCTAGAGA	5444 GAGTTGACAGGAGGTAGCTGTATG	8130 CCAAGTCTGGCTCTCCTT	10816

1845	GGGTACAAGCTCAAGTTAGAAGTACAG	5445	GGCTGAACCTGAGGTTTTCTACT	8131	AGTCTGGGTACAAGCTCAAGTTAG	10817
1846	GGTAAGACAGTTTTCCCTACTCTTCTC	5446	CCAAAAGAGATCCCATCCTTCCA	8132	GGTAACCAAGAGGTAAAGACAGTTTTCC	10818
1847	TGATGGCAGAGCAAACACAAA	5447	AACCCCTTCTCTTCCAGATGA	8133	CATCTTGATTTGATGGCAGAGCAA	10819
1848	CAGGGGCTCACACTTGCAT	5448	TGGGGACATTTGTCATCTCACAT	8134	ACCAGATGATCAGGAGCACAGACA	10820
1849	AGCTGCAGTGGTTGGAATTGG	5449	GGTTCAGAACTGTTGGAATCCT	8135	TCAATCCCAGCTGCAGTGGTT	10821
1850	ACAGGGTGAGGAGACTTTCTGA	5450	GGTCCCTAACGACATCCTTTCAC	8136	GCTCCACAGAAAGCTAGCTAGGA	10822
1851	CGGCAAGAACATCAGCTATGTTAACC	5451	CTCCTGATGGTTAAATCGTGGAAGAC	8137	CATTTGTGTTAATAAACGGCAAGAACAT	10823
1852	GCCCCAGATCCTAGAAAGAGAATGTG	5452	CGAATCCCCGGCCAGTCT	8138	CCTGAGCCTTGTGATCTTCTGGAT	10824
1853	TGAGTTGAGAGCCTCAGACTTCT	5453	GGCAGGAAATGTTTCTGCCTAAGC	8139	TGGGCCAAGTCATGTAATGAGTT	10825
1854	AGAGCCCTCTACCCCTCTCT	5454	TGGCAGAACTCAAGGGGCAAAA	8140	GGCGAGAGAGAGCCCTCTAC	10826
1855	ACCAAGAAGGACACTGAGGTTTAC	5455	TGCCAACTCTGTAATCTTGGGAAA	8141	TGAACTATGCTCATTTTACCAAGAAGGA	10827
1856	ACTGTCCCCTCTGCATGGTAT	5456	CAGAGGATGCCTAAGAGTTTTCTAGGT	8142	CCACCAACACCCTTCTCTACTGT	10828
1857	TTGGCTGTGGGAGCATTTA	5457	ACCCCTGTGTATCTGTATGCT	8143	TGTTGGTTTCTCAAGTTGTCTGA	10829
1858	AGGACAGGACAGAGCTTTTGAG	5458	GTGGCCACACGAAGGTT	8144	CCCTGTCTTCATCCATAGCGTTT	10830
1859	TGTGCATTCTAGAGGTGAGGATAAA	5459	CTGTGTGCACCTCACCTATC	8145	GGTGACACTCAGAACATGTGCATTCT	10831
1860	TTGGGCATGAACAGCCTACCT	5460	GACTTTGGGCCCTTTTATTTTCA	8146	TCITTTGCCATAATTGGGCATGAAC	10832
1861	GCAGCAGATGGCACAATGTAAAGG	5461	GGACACCAAAAATCTGCAAGTT	8147	AGCAACAGAGGAAAGACAAGCT	10833
1862	GTGGAATCCATTATAGGGTGTGATACCT	5462	AGGAATGTGTAGGTGGCTGAGA	8148	GCCCTTGATGTGTGGAATCCATT	10834
1863	TCAGAGCGTGTGGCTATGTGA	5463	GGGAGTAAGGGTTGATTTTACTTTCGT	8149	GACTATGTCTGGTGCATTTAAATTTGGA	10835
1864	GCACAGAACTGTTCTAGCTAGAGGAT	5464	GGACATAACCTAGTCGTATGGCAA	8150	CAATGGGCACAGAACTGTTTCTAG	10836
1865	CCCTCATCTCCAGATGGCAGAA	5465	CCCAAAAGCCATATGCTCTGTG	8151	CCAGCAGGGGCCATTATAGC	10837
1866	GTCCCACTGATCTGTTAGAGAAAGG	5466	GCCCTGATTACCTTAAGCCAAAT	8152	GCCTTAAGTCCGCACTGTCTCTGT	10838
1867	GCCCCAATCCTAGCTAATCAGGATCA	5467	CCAATAGGCAAAAGAAATCTCTGTTGGA	8153	CCAATTGTATAGCCCCAATCTAGCT	10839
1868	CCCTACTGTGTGGCAATGAAGAGA	5468	TCCAGGATCACCAGAGCAT	8154	GACTGCACCTCTAACTTAGATAATGCT	10840
1869	AGCTATGGCAGAATTACTACTGCTT	5469	TGCTTGGGGCATGCGTTCA	8155	CAGGAAGTGAAAGCTATGGCAGAATT	10841
1870	GCGCACTCTCTCTCAAACACACT	5470	TGCTCCCGACCTTGTCAGAGTA	8156	CCAGATATGCCGCACTTCTCTCTCA	10842
1871	GGCCTGGAAGACGGGGTTT	5471	GGAGCTACAATCACCTGAGCTGAA	8157	AGTGTGGGCTGGAAGA	10843
1872	TGTCTGATAATTACAACATCTGTGTCATCT	5472	GACAATTGGCAGACACCAACAG	8158	GGGGGCAATTTTATGATAGCTGCTTTTC	10844
1873	AGTGGCTGTGGTGGAATCCA	5473	AGGTGAGCTGGGTCTAGACAA	8159	CCTGTTTCACAGACGTGGAAGG	10845
1874	AAACGAGGCTCTTGGGAATGG	5474	CCACTGCTTTGAAAAGGCCATGAA	8160	GGCTGAGAGGCTGTGTTTTAGAAC	10846
1875	TGTATGTGGACTGCAAGGTTAGG	5475	GGAATGAAGAGGGCTTCTCACA	8161	TCAGTAGCTGGGCTTGATGT	10847
1876	CCTCCCTGAAGCCCAACACA	5476	GAGTCTGCACTGCTAATCTCTACCA	8162	CACAAGTAATGCTTCTGGCTTTCC	10848
1877	GGTTTTTGTGTTGATCTACCTGGAAA	5477	GGGGGGAATAGCACAGAAGGT	8163	TGCTTTCCTGATCATGTGTTATCTCT	10849
1878	AAGGCAGGCCTCAGAAGCA	5478	GAAGATGGGCAGAGTTCTTTTGG	8164	GTACAAGACAAAGGGCCTGATGT	10850
1879	TGGGAGTGCAGGGAGAGA	5479	GGACGCACAGCCTTTTTATGAG	8165	CAACCTCGTCTCTCAAACTAATC	10851
1880	CTGATTTACACCCGTGTAATGGA	5480	GCAGTGAATGGGCATGCAT	8166	GAGTTTTCTTGGGAAGCAAGTTCA	10852
1881	CCACCAAGAGGCCCAATGC	5481	GGTTTGGGTGGGCTAGAAAGC	8167	TCCAGCCATCCCCACCAAGA	10853
1882	CTGAGATGTGTGAGAGGAGATATGTG	5482	TGCATCTGCTGATCCTTCAGTTC	8168	GGGTACCTTGACTCTGGAAGCTGAGAT	10854
1883	TGGAGAGGGCTGGCAATCT	5483	AGCTGTGTTGAAGGGTCAAGCT	8169	CCCCACCCTTCCAAGACATCA	10855
1884	GCTACAAATAATCTGGATTCTGACATCA	5484	CAGGTAGATGAATAAGGCCAGAAATGG	8170	GCAAGGAGCTACAAATAATCTGGATTCC	10856
1885	TCTGGAAGCTCTCCCTATGC	5485	ATGGCTGCAGAGGCCTTGA	8171	CTCTGCAGCCATGTCTGGAA	10857
1886	GAGCCCCAGCATTCAAGTGT	5486	ATTTCCCTCCCCAACATGTCT	8172	TGTTAGAGGAGCCCCAGCAT	10858
1887	TTTGCTCTGGGTGAAGCAAGA	5487	AGCCACCCCTCGACTATTCAA	8173	AGAACCATAGTGCTGGAATGC	10859
1888	GGGGCCAAATCAGGAAATTTCCAT	5488	GGTGTGAGTGCAAAGAGGAT	8174	GGGACCAAAAGTCAAGGCATGT	10860
1889	CTCATCTGAGGGCTTGAACCT	5489	GCCTGTACCTGAAACCTCCAT	8175	GCCGAGCTAGGAATTTCTCTCA	10861
1890	AGGCAGGGGAAACAGAACCA	5490	CACTCTTCATGGGATCATTACTGTAATC	8176	TGGGGCAAAGGGCATCAG	10862
1891	GTGCTACAGTAGAGACCTGGGAAA	5491	CTTGCCACAGCACTGGAA	8177	TTTCCAGGTACCTTGACTGT	10863
1892	TGCTCCCGGAGTCCATTG	5492	CCACAGGGGTTGGGATAAA	8178	TCACCCCGTCTCTTGCT	10864
1893	CACTAGGATGTTTATCACTGCCATCA	5493	GCCTAATAAGAAAGCTTAGGGTACAAGT	8179	AGCCACACTAGGATGTTTATCAC	10865
1894	GCAGGGAGCCATCTGAAGTACT	5494	GCTTGCAAGGGTGAGTAACTGA	8180	TCACTCTTGGGAGCAGAAGGA	10866
1895	TGGAAGGGGATGATGGAGTGT	5495	GTGATGCATGACTATACTTCTACACACA	8181	AATTGCCTTGGTGGGACCCTTA	10867
1896	CTGCCACAGGACACTCAAAATTG	5496	GCTGTTTGTGATTCGGTGTCTACAA	8182	CCACCTGATTTTGAACACCCTGCAT	10868
1897	AGGTCTCACACAGACAGATTCCA	5497	TGCTCGTGGTTCTGCAGATT	8183	CACCTGTGATGCACCTGCT	10869
1898	TGCCTGGGACTTCAGCTAGCA	5498	GAAGAGGAGTCAGGTAGATGTTCTAAG	8184	CACATGCCTGGTGGTTAATGCT	10870
1899	CACCTGCTTTATTGTGCCAGTTGT	5499	GCTGAGGGAGCCAAGCTTACA	8185	AGGGGCCCCAGTGCACACT	10871
1900	GGGTGGCAAAGCTACAAAGGAAT	5500	CACGAGACTTGTGATCCTGTGA	8186	ACAGGTTTGTCTTAGGAGGTAGGA	10872
1901	GCAATGGCCACGCTCAATATCT	5501	GGGAAGATGACCTAGTTTACACAGA	8187	TCAGAGCTGGGATGCAATGG	10873
1902	AGACCCGAAGCACGTGGTAT	5502	ACCCCTGCCTCTGCTCTT	8188	GATGGCCACCCTGAGAAG	10874
1903	TGGAGCATGTACTAGGGGAAA	5503	CTGCTCACAACTAGAGATGGACATC	8189	TTTTGCCTTGGAGCATGTACCT	10875
1904	AGGCCACCATAACCACATGCT	5504	GCCTGTAGCATGGTGGTATGGT	8190	ACCATGCTACAGGCCACCATA	10876
1905	GGCTACACAGTCCATGTATCAATATGC	5505	AGTGTTTCCAAATACATAGTCCACCAT	8191	CATTAAATGGCTACACAGTCCATGTC	10877
1906	AGACTGGGGACAAGATGGCATA	5506	ACAAAAATCTTACATATCATGCCACTT	8192	TGGGGGGGGTGATATTACAAGACT	10878
1907	GGCCACTGTTAAAAACCAAGTTATGCA	5507	CACAAGGAAGTGAGGTGATCCA	8193	GCTGGCCACTGTTAAAAACCA	10879
1908	GTTTCCCCTCTTCTTGGCCATAA	5508	GCTCTGTGGTCAAGGGATGTAAT	8194	AATTCAATTTGTGTTTCCCCTCTCTC	10880
1909	GCTTGGCGGTTGTTGATTGGT	5509	TCACCTCCCTGTCCCATGTT	8195	GGGTTAGAGTTTTTAAAGGTTTTGGAA	10881
1910	TTCTACAGGGCCCTTGGGAAT	5510	AGGTGAGGGAAGTACTAGACATGCT	8196	GCCACAACCAAGCTCTTTTACTT	10882

1911	ACTGGAGGAGACAGCCTTTCT	5511	TGGCTGTAAATCGCTTTGAGTTTG	8197	CAGGGCCTGGCACACTGT	10883
1912	GGGTAGAGAGACCGTTTCCACAATAC	5512	GAAGTGGGCTTTGGGCAAAAT	8198	ACAGGGGTAGAGAGACCGTTT	10884
1913	AAC TTGCTCCAGATCCCATGTG	5513	TGGAACAGAAAAAGATGGGATAACGA	8199	TCAACACCTGTAGGTAATAACTTGCT	10885
1914	GTGTGCCAAGGAAAAAGAGACACT	5514	CAC TTCCCAACCCAGAGGTAA	8200	CACAAGTCAGTGTGCCAAGGAA	10886
1915	CTTGGGATAAGGCTCTGGTTCTC	5515	GGGAGCCTTGGAAGGAGTCTTTAT	8201	GCTCTCCCTTCTTCTTGGGATAA	10887
1916	GACAGAGGAGAACACATCCTTCTC	5516	GAAGGGAGAATGGCTGTTGGAT	8202	TGTCCAGGTCTCTCAGAAACA	10888
1917	AAGGTGGATTATCGCTCATGTCT	5517	GTGGAATCATGTCCCTGACTGATG	8203	TTCCCAATGGCCGAAAAACCA	10889
1918	TCCTCATCTGGCAGCATGGT	5518	TCTCTGGTATCTTCCCACCTGT	8204	GCCTGATGATTTTACTCTAGAGCTGAG	10890
1919	TGCATCATTGAGGGAGTGCATT	5519	ACTTTGAATCTTACCACGAGCTTAGA	8205	TTGTGGCTAGACAGCATGAATCA	10891
1920	GCTACCAATTGAAC TTAGGGTGAAAGTC	5520	CGGTTCACCCAGGTTTGG	8206	AGCAGGGCTACCAATTGAAC TTAGG	10892
1921	CCGTAGTCCCTACTACTACAAGT	5521	AGTTCCAGGGGATGTCAATGCT	8207	ACTATTAATAGCACCGTAGGTCCTACT	10893
1922	CTCCAGACTGAATTGGCCAAC T	5522	AATGCCTCAAGCCAGTGTTACT	8208	CGGAATGCCTCCAGACTGAATT	10894
1923	GGGAGAGTGATCTCAACATGTATCAT	5523	GAAAAGTCTGTGCTCAGGACACA	8209	GGCTGTAGGAGAGTGTACTCAA	10895
1924	CTCATCACCATTGACGCTCTACA	5524	GGGGCAGGCATATAATACACAATCAA	8210	CCCAGAAGTACTCATCACCATTGA	10896
1925	CCTGAGTGTTGGGTTGTGTGAT	5525	CAAAC TGAAGGTATTGTTTGGTCCTT	8211	GGGCCAAGAAAAATCCTGAGTGTTG	10897
1926	TGTACCTTTGGGGAGTCATCCT	5526	GCTGTTAAAAACCACTGCACACA	8212	GAGAAAGACAGCTTTGTACCTTTGG	10898
1927	TCCTTCTAAGACCTGAGAGTGAGAA	5527	CTCATCAGCGGCTTGTAGTCTTG	8213	TTGTCTCTGAATATGAATAGCATCCTCT	10899
1928	GGGAACAGCAACCTTATCCAGTT	5528	CTATTATCAGGCTCTGTGTACT	8214	TGGTGGACTGTTTTCCTGATG	10900
1929	AGTGGGTAGCTGGCACTTCT	5529	CATCATTAGATGTGCCTGTGACTCT	8215	GAGAAATGGAATTTAAAGTTGGGTGCTT	10901
1930	GTGAGGATCAGTCAACCAACCAAT	5530	CTCTCCATGTAAGCTCCTATGCT	8216	GGGTTGATGTGAGGATCAGTCAA	10902
1931	CCTCAGGTGTGCTCTCTTGTCT	5531	CCCCGGGCAAGACAAGCT	8217	TGGAGTCAGGTCCAATCAGTCA	10903
1932	TTGGACAGGCCAGGATAACATC	5532	CCCCACCATCTACACTTCTGAACAG	8218	GCTTCTTGAGTACAGTTTCTCAATCTGT	10904
1933	TGTTACACCAGGCAGTGATCT	5533	GAAGTGCTATTCTAAACCAATCAC	8219	TGGCTCTCCAACATATGTTTACA	10905
1934	GCAAACCAAAATCCTAGCACAGAGA	5534	CCCATGGATAGTAGGGAATGTTGTAG	8220	CTGTCTAGTGGCATGCTCACA	10906
1935	TCTGTCCACAGCTGGAGAAG	5535	GCCTTTGTTGCCATCACTTAC	8221	CACTAAGTCGAGGCTTGACTCTGT	10907
1936	CCACACTGCAITTTGGAATTTGGT	5536	AAGAAGTGGACTGACATCGGAATT	8222	TTTGCTCCACACTGCATTITGG	10908
1937	AGTTTCTGGGGGAAGGAGTAACAG	5537	GTAGCCTGGGAACATTGTTTAACC	8223	TGGGATAGAGTGGGCACTTCT	10909
1938	CGAGGTGCTCCTTTCTAACA	5538	TTATCCTCCCTCCCAAGCA	8224	ACCAACCGAGGTGCGTCTCT	10910
1939	GGGAAGATTTCTGCAATCACCTT	5539	CCCAGTGGAAGTTGAGTGAAGTC	8225	ACTTACCTTTTATCTTTCCAGGGAAGA	10911
1940	CTTAAGGCAGCAGGATGGTCAA	5540	TTGTAGAGCTGTTTCTCTCACT	8226	GGAGCCAAGTTTATGCTGTATCTAAGG	10912
1941	AGAGTCAGCAGCATGCATGT	5541	TGGGAGCAAAATGTTTACTTTGCA	8227	AACTGGCAGCGGAAGAGTCA	10913
1942	AGGAGAGTGCTGAATGGCTGAT	5542	AGCCTGCATCTGACTCCTGTA	8228	GGGAGCCAGCCACTAAGG	10914
1943	TTGGGGGTGAGGTGCTCAGT	5543	GAATCAGGAAGTCCAGCACAAGT	8229	ATGGGGCCTCGGTGAATTTGT	10915
1944	AGAACATGCTGTAGTCCAGATGTTT	5544	GGTTTCTGCCAATGACATCTCACA	8230	GGGAGACTCAAGTAGAACATGTCTGTAGT	10916
1945	CTGCCAGGCCCTGTCACA	5545	CCGCATCGTTTTAGGGGTTAA	8231	GGGTCTTAAAGCCCCACATTCTT	10917
1946	GACAGGACAGAAGAGTAGGTAAGCT	5546	CTCTCAATGCCCTTTCTTCTC	8232	TGGACACACCTGCTAGGAGACA	10918
1947	GGTGAGAAATACATAGGTCTCAGGATT	5547	GGGTGTGCTCCAGAATGCAT	8233	CTGCTTTGCATATATGGTGAGAAATACATA	10919
1948	CCAGGCCTGAGTCCTGTGT	5548	ACAGCTGCCTGAATTTGGAAC	8234	CCCTTGAAGTGTGGACTATCCTGATC	10920
1949	AGGAAGGCATCATGCTATATAATTGCT	5549	AGATCAGATTGGTCCACACACA	8235	GGTTCTCAGGAAGGCATCATGCTATA	10921
1950	GCCTAACCTTCAAAGATACTTCAGTGTT	5550	CTCACAAGTGGAATTGGAGCTCTT	8236	GAGTGAGTTGCCTAACCTTCAAAGA	10922
1951	GGTGGTTAGTACAACATGCTGAGT	5551	CCACTTTAGCTACCTTGGAGAACAT	8237	GTGTGGAGGTGTTTAGTACAAACA	10923
1952	GTACAGAGCAGCTGCCTAATTT	5552	CAGTTTGTGGAGCCTTGCTTTT	8238	GCTGTGGAATAGAAATAGCACTAAGTC	10924
1953	CCTTTTGCTTTCCACCTCTT	5553	AGGGTGCCAAACAGGTTTATGG	8239	CAATACATTTCATCCCCCTTCTCGAT	10925
1954	TGGAGGTCAAAGTCTCCAGCAT	5554	TGCCACGCTGCCACATCT	8240	GCCAAAGAGGAGGCCCTTTCAA	10926
1955	GCCTAGCGCTGTTGACCTT	5555	ACCTTCAGGCCCACTACTGT	8241	GCAAGTGCTTATTGAATGCTTTCTAAGTGT	10927
1956	CCCAGCCCTTAATCTTAAGTCTAAGC	5556	GAAACCTGTAGAGTCTTACATGCCATT	8242	CACTGTCTTCCAGCCCTTAATCT	10928
1957	ACTGTGCCAGACTCTCTTTGG	5557	CCTAGGCTGGCCCAAGATGA	8243	TCACAATCAGATGACACTGAGACTTAG	10929
1958	CAGGCCCTCCACAGAACACA	5558	CTCACCATGCGCAGTTCTT	8244	CCCAGACCAGGCCTTCCA	10930
1959	GGCATCCATGTGCCAATCC	5559	CACAGGTCAGACAAGGCTAAAACC	8245	GGTAAAGCTGGCCATCCATGT	10931
1960	CAGGATGTTCCAAGGACTCAGAGA	5560	AGGACTAGCCCTTG GTTTGGAT	8246	CACTCTTATCAAGCAGGATGTCCA	10932
1961	CTGTGTGACATGTACAGGTGAAAGTT	5561	AGGCAGACCACTAAGTGGAGAA	8247	TGACATTCAGCATTTCCCTTCGT	10933
1962	TCCATAGCTTGCTCTTCTCACT	5562	ACCATGCTGCTCCAGCAACTA	8248	CAGATCCATATTCTGACGACCTGAT	10934
1963	TTGGTGAGATGAGAGGTTTGC	5563	AGCTGCTACCCACATAGGT	8249	CTCAACAGCTTTGGTGCAGATG	10935
1964	ATGTAGTCTAGCTGGGATTCCA	5564	GCTTATCTGGGATTGCTACCAACTAG	8250	GGTAGCAGACCTTCACTATGTAGTC	10936
1965	AAGCCCCACACCTCGGTAGA	5565	TGCCTTGGATGGTGTGGCAACA	8251	CTTCAAGGGATTTCACACAGAAG	10937
1966	TGCTTGAGCGTGGCAGGTT	5566	CCAGGTAGGTAAAACCTCTGGATTCT	8252	CCCTGACAATGATAATACCTCTGCTTGAG	10938
1967	AGCCGTCCTGAAGCTGTGT	5567	CTCAACAAGCCACGATATGTTAGG	8253	GTCAGTTACCCCTTCCAATCATATGACT	10939
1968	CCACTGGCTCAACCTCCTT	5568	GGGACAGATGCGGCAACA	8254	AGGCCTGCCTCTCTAAGC	10940
1969	GGTCTCATTTTCTGCCCCCTTGAA	5569	GGCAGCTTGAGCAATCTTCTAAAGG	8255	GGAAGAGGAAGGGTCTCATTTTCC	10941
1970	AGGAGAGCACCATTTCAGTTCTC	5570	GTGACATTTTCTGTGCTTGTGAT	8256	CATGCAGGAGAGCACCATT	10942
1971	CAGAGTGCTCTACTTTTCTCACTGTCA	5571	GCAAGAGGATGAGGCTTAGATACCA	8257	AAATTCCAGAGCTTCCAGACA	10943
1972	GTGAAGCAGCAGAGTTAACAAGAC	5572	GGAGTCCACAGAGGCAGCTTAT	8258	CTCTATCTGTGAAGCAGCAGAGTT	10944
1973	AGATCCGTACAGGCTCAACACT	5573	CCGTCTGGGTGGTTCACA	8259	CAACTGTAGAGTTCCATCAAGAGTCAT	10945
1974	GCTGGGTCTATGTTAATCTGTTTGTCT	5574	CTCTGCTTCTCACTGTGCAAA	8260	ACGTCAACCTGTTTATCTCCATA	10946
1975	CCTGGGCCTGTCTATTGCTTTT	5575	GCTTAAAGCTGCAGTGGAACA	8261	AGTCCCTGGGCCTGTCA	10947
1976	CCCACAAAAATAGCTGTGATGCTTG	5576	GGCACTAGTGATCTCTACCT	8262	AGGAAGACCTGTATCTACAAAAACC	10948

1977	GCATGATATGTCTTTAGTCACCTGTGA	5577	CTATGTCTCCTCCCTGCATAGGTA	8263	GACCTGAGAAAAGCATGATATGTCTTTCA	10949
1978	TTATATGCATTCAGCTCTCCAGGAT	5578	AGTTTTCTCGCAGAAAGACAAGCA	8264	CCCCTTGCACTCAATCTA	10950
1979	ATCCTGGGAGGCATCGGTGACAA	5579	AGGAGGCTTGCCTGTGT	8265	CCTGTTTATTCCTCCCCTGATCCT	10951
1980	GCCAGTTGTTCTCTATGGCCTTAA	5580	GCACACTTGTCTAGTAAACAGTGAAAT	8266	TGTGGTCTCACATATAGTCTGTTCTG	10952
1981	TGTACCTAGAGAGACCTGGAACT	5581	TGGGAGTGGAGCAGGAATCC	8267	CGTCGATTCTTCTTTGTACCTAGAGAGA	10953
1982	AGGATGCTGTAATACAATGTGAGGAT	5582	TGGGAAAACGTACCAACACAAG	8268	GCCTTTGCAATGGAGGATGCT	10954
1983	TGATGTTTTGTTGAAAAATCTGTAGGTA	5583	CCCTGATCACTGCATTCTGGAT	8269	GGAGCAAGAAAATGAGTACAATTCCTTCTA	10955
1984	CAACAACCCACTTTGACATCATCTC	5584	GTGGGAGTCAACCAATGATACTT	8270	GTTTTGTTTTCAACACCCACTTTTGA	10956
1985	TTACCTGGCTCCACCGAAACA	5585	CTGGAGGTCTTCAAGGTCTTG	8271	GGAGCCAGGTGACAAAAGTCAAAG	10957
1986	ACTGGAAGTTGGGGGATTCA	5586	AGGGGAAGTGACACAGATTACAG	8272	ACAGGGCAGAACCAAGACT	10958
1987	GACAGCCCTGTCCATTAATAGG	5587	GTTCCACATCCTTGTGCATCT	8273	GGCTTCAGCAAATGCATCAGACA	10959
1988	CAGGACTAAGCAGCCAAGACA	5588	CACAGCTGATGCAAACTAGCTCTT	8274	TGGGAGCTGCAGGACTAAGCA	10960
1989	TTTGCACCAAGGCATGCAT	5589	CGCACTCAGCTTGTGTGAGAAG	8275	GAAATCTATCACTCATTTTGCACCAA	10961
1990	AGGGAGGTTCCAGCTCAATCC	5590	CTCAGGTATGGAGGATGCAGGAAT	8276	AGCCTAGGTGACAAGAGTGAAAC	10962
1991	AGTGAACCTGAGTTTTGTACCTACCT	5591	CGCATAGTCCAACTGGGATACCTC	8277	AATCATATCTGCTTCAAAATGTTTGATCAC	10963
1992	TCACTGTCTGAAATGCTTGTACCA	5592	CACCACCAAAACCCCAAAATC	8278	GCTCTAAGACATAAGTCTCTCTCAGT	10964
1993	CCAAAGTAAGTGACAGCAAACTCT	5593	TGTCCCTCCCTACCTCACA	8279	GGAATATGTTTTGCTGCTGCCAAAGTAAG	10965
1994	CTTTACCATTGGAGGGCTTCTCT	5594	GAACAGAGAGAATGAGGGGAGAGA	8280	GCTCAGCCAAGGGTAACCTTT	10966
1995	CCTTCTCTTCTCATGGGACAGAAG	5595	TGGAGGTTTGTGTACCTCTCT	8281	CCTCTGTCCCTTCTCTCTCA	10967
1996	GGAGTCTGAATGAAAAACGGTTCTCTCA	5596	AGTCAGAACCTGCCACTTCACT	8282	GGTTTTGGAGTCTGAATGAAAAACG	10968
1997	TCCCCACCAAGTTGCAGACA	5597	GCAGATAGGATGGTCTGGAATGTC	8283	CTTCCATCCATCCCCACCAAG	10969
1998	TTAACCCCGCCAGTCTGTA	5598	GGAAAGCCCTTAGTCACTAGTCATATG	8284	CATAAGCAGAACCAAGTAGAGTCATTTGA	10970
1999	ATGAAGAAATTCATCTAGACCCATCCT	5599	AAGGGGCTGGTGGCTTCCA	8285	GAGGGAATGCAGCTTTGTTATGAA	10971
2000	CGGGACTATACTCTACCGTAGTTCATCAG	5600	TGCTGGACTTGCAATTCATCAATTAGG	8286	CAATGGCAAATCTCGGGACTATAC	10972
2001	GTCCTATCCACTAACTGATATCACAA	5601	TCAAAGTGGGTGCAATCCA	8287	AAAATGTTTGAGTCCCTATCCACTAAAC	10973
2002	GTGACAGCAGGCTTCTGTG	5602	GCTCATCTTCAGGCTTAAGGACAA	8288	GAGAATAAGGGCATGCCATCTGA	10974
2003	AACTGGGGTTGAGGTGGGAAT	5603	AGAGAGCAAGCCAGTGAGTAGA	8289	TGGGGGCTTTGGCACTG	10975
2004	TGGAGAATAAACCCAGATTTCTAGTG	5604	ACACCAGTCTCCCAAGTTGTA	8290	GGCTCACATTCTCGGAGAATAAAC	10976
2005	AGCTGTGTGGGCCGCAAAA	5605	AGCTGCTTACTACATACCATCATCAG	8291	GGGAGGTAGAGTGTTTCAAGACA	10977
2006	GCAAAGATCAATGTGAACCCATCATCTC	5606	GCAGTTTGTCTTGGGCTAATCC	8292	TGGCCTGTGGATGTTCGCA	10978
2007	CTGGTTCTGCAGTAATACGTGGTT	5607	ACACCAACATAGCTTTTCAGTTCT	8293	GAGGGTTGATCATTTTGATTTTCATCTG	10979
2008	AGCAAAATGCTCCCTCTGTGCAT	5608	CACAGCAAGAATAAGCCAACT	8294	TGCTGTGGCTTGAGCAAAAT	10980
2009	ACCCAGTCTGAAGCCATTGC	5609	GAGTTTGGTAGCACAGCAAAAACCTG	8295	CCTGCCACCCAGTCTGAA	10981
2010	TCAAGTTGAGCAGGCCAGTGAA	5610	CTGTGTGTAGCCTTTGCTCTCAAG	8296	AGCGTGTGGCCCTCAAGTTGA	10982
2011	CCCTGGGGATTGACCTTGA	5611	GCTTGGGAAAGGAGGTCAATT	8297	TCAGAAGGCATGGACCACT	10983
2012	TCTCACCCACACGAGACAAGT	5612	ACACATAGGCCTAGGGAAGACA	8298	CGCAGTATTGGATGCTTTTGCTCA	10984
2013	AGACATGGATTCTGAGCCATACC	5613	GGACCTGCTGCAGAGTTTATGAT	8299	TGGCCAGGAGAGCATTTTCA	10985
2014	GTCAGTGCAGCCAGTCATACA	5614	GGCTGCACTAAATTTCCCAAAACC	8300	CAGAGACCTTCGATTATGTTCTATAGAGA	10986
2015	CCCAAAAGTAAGAGATCTCCATTTTCATCAG	5615	AGCATTTGGCAGCCAGTGAAAG	8301	CTCTTGGCCAAAAGTAAGAGATCT	10987
2016	CCTGATTCTAGTATTTTGGGGAGGAATG	5616	TCGCTCTGGTGAGCTTGTGA	8302	GGAAGGTCTGATTCCTAGTATTTTGG	10988
2017	TTGCCACCCATCGCATCAAGA	5617	GGACAGATTGAGAAGGAGGAGAATA	8303	GATGGGAGCAGCAATGTTTCTTC	10989
2018	TCGGGAAAAGAGGCCTTTATTGG	5618	GGAGCCCCAAAGTGCAACAATT	8304	AGGGGAGATGTGTTGCGGAAAA	10990
2019	GATAGGCCCAAGATGATGTAAG	5619	GCACCTGGCTGTTTTGCAAAAT	8305	GGTGAGGACAATACAGCATGATAGG	10991
2020	CTGCCTTTGTTGACCTAGAATGCA	5620	GCTGAGTTCAAGTCTAAGGAGGATTG	8306	TGCATTTTCATATTTAGTCAGAGACTACAG	10992
2021	AGATTGCCCTGACATTTTGTGA	5621	GGCTGTTGACAGTCTATTTTGGAA	8307	GCTTGTCAATAATGCAAGAATCCTACTTC	10993
2022	GCTCCTTAGAACAACTGTGTGA	5622	CGGTGAAACCTAAACAAGCTCAA	8308	GCAATCCAATCCTGCTCCTTAGAACA	10994
2023	GGCAGGGAAAGAGTGGACATTT	5623	AGTTCCAGGAGATGCCTTTAGTG	8309	CCAAGTATCAGGGCAGGGAAAG	10995
2024	ATGGAATGTTGATCCTCTTTCCAT	5624	TGGAAGCGTGGAATTTGCTAGA	8310	CACTTTTTGGAGCGGAATTTACTAAGT	10996
2025	CAATGCCACACAGATGTGA	5625	CTGGTGGTTCTTCCATGTTCAATTATC	8311	CCCAAGTAAGGCATAATCTCCAATGC	10997
2026	GTGGCCAAGGAGATTTCAATGCA	5626	GAGGAACCAAGGAGTACCTTCA	8312	GGAAAGCAGTACTGTGACAAACTTG	10998
2027	TCATTCCTGAATCTGGGTATTGTAGTC	5627	GGAACACTACAACAACCAATCCT	8313	GACTTTGTGGAGTAAAACTTCAATCCT	10999
2028	GGGCTTCGCAGAGACTGATCT	5628	GAGAGCCAGGAAGTCAAGCA	8314	GGAGACTGTTTGGGGCTGAA	11000
2029	CCTGACTTTGCCCTTTTGTATT	5629	AGGATCAGCATAGTAGTGCTTT	8315	AGGACCACTGTATCACTACAAATCC	11001
2030	AGTCAATCAACCCAGGAAAGCA	5630	GCAAAGGACTGTAGGTGGATAGGA	8316	AGACTTTTCATCCATCTGAATACTACTCAA	11002
2031	GTGTTTTTACCCAGATTCTAAAGTTTCC	5631	TGTGCATAACTGGGGTGAT	8317	GAGGTGTGTTTTTACCCAGATTCC	11003
2032	GCCAGTGACTCTGTGTCTCA	5632	CAATACAGTAGTGCCGAGACAGATC	8318	AGCAGGCCAGTGTACCT	11004
2033	GCCTGGAGTACCAAGTCACTTTGAC	5633	GACTAGGCTGGAACCTGAGTTACC	8319	TCTTGCTGGAGTACCAAGATC	11005
2034	CAAGTTACTACTTCTGGTGGCCAAA	5634	GGTGCCATGTTATTGCATGCAA	8320	GTAAGGGAGGATGGTGATTGATTCA	11006
2035	AAAGCCAAGGCATCCCTTAGAAA	5635	AGGGGAGTGGGATGACCTGATT	8321	CCTGATAGCCTGTTCTCATACAAAAG	11007
2036	GCAACCTGGGAGCCTTGCT	5636	CGGCAAGTCTCTGACCTCTT	8322	TCCAACCTGGAGTTTCAGAAATCAG	11008
2037	CCTCAGAGTAGTTTGGGCACTA	5637	TGCTGATGGGGTCTGAAAAAT	8323	ACCCAAGACTCAGAGTAGT	11009
2038	GCTAGGGAATAAGATGCCACAGCTT	5638	GCATGTCTCACCTTCTAAAATGCTT	8324	ACGTTAACATCACAGTAGGGAAT	11010
2039	GGGGTTTAAATCACAGAGGTGTG	5639	TCAAGATGCGGGCTAATTCAT	8325	CCAGCGTGGGTTTGAGAGAA	11011
2040	CTCTGTCTCACTAGCCATCGT	5640	GGTCCCTGGGGCTTCGGATA	8326	TTGCCACCTCTGTCTCACT	11012
2041	TGCCTCCACTGGCCAAAG	5641	CCTATAGACCTCTGCAGGACAATAG	8327	ACCACCTGCCTCCACT	11013
2042	ACATGGTGATGTTGGCTGTATCC	5642	TCTGGGATGCTACAGCAACA	8328	AGGCCAGGTACATGGTGATGTT	11014

2043	ACCAAGGCAGCCTCACAATT	5643	CCTCCACCGGGTTACTGTTTCT	8329	CCATAGCAGCTGAGGATAAAACAGA	11015
2044	AGGAACCTCTTCCCAACGCT	5644	AGATGACAACTAATGACTCGGTGTAA	8330	CCTCACTGTGCTCCAGCTTT	11016
2045	CAAAACAAGTTGTAGACCGGATCTG	5645	AGAGCAAGGGTCAACACACTAC	8331	GGTTTGGTTGCGTTGCAATAAATG	11017
2046	GTGAATCTTTAAAGACCCAACACTTGAC	5646	CGAATGAACAGCACTCTACCCCTTAG	8332	CCAGCCTCAGCTCTAGAAAAGTGA	11018
2047	CTGACTGCGTGGGACTTCTG	5647	TGAGCCAGTGGTTCAAGTTTGG	8333	GCTGTTGGCTTGATTTCCTGACT	11019
2048	GGAGCAATACTCTCCAGTTCTTTCTTC	5648	GGAGACGCTGTACCCACAAA	8334	GATGGAATTAATTGAAACTACAGCCTTCA	11020
2049	ACATCCGAATACCCAGTTCCTCTT	5649	GTGTAAGGGGGACGACGAATAAAC	8335	GTGTGGCTTGTAATACATGCTATCA	11021
2050	GGCACTGTATCCAGGTATGATGAG	5650	TCATGCAAGGGCTGTGTTT	8336	TGGTCCATCTGGCACTGTATCCA	11022
2051	GGGAGAAGGGTGATGTAAGGGTTA	5651	CCTTCATCCATGCCTCTGGTTT	8337	GGTGGCAGAGTTTTGAGAAGTATGTG	11023
2052	GCACAAGGGGAAAGCATGATTTAG	5652	AGGAGGCCAGATTGCAGTACAG	8338	GATTTTGCACAAGGGGAAAGCA	11024
2053	GCTAGCACACAGCAAGTTAATTGG	5653	TCAATTTATATCGCCTGGAACCT	8339	CCCTTATCTTGGTTGCTCTGCAIT	11025
2054	TGCCCAAACCTCCGCTACTG	5654	GGATTCTCCAGGCAGAAGTAGTGT	8340	CTGGGAGGTTTCAGGAAGTTTGAG	11026
2055	CTGCATAGAAAAGGAGTGAGGAACA	5655	GAGGAGACAGCAAGCTTAATGTC	8341	GCTGAATCTAGTAAACTCTGCCATCA	11027
2056	GAAAAGAGCCTTTTCTTCTGTTGAC	5656	GGAAGATTCCCTGGTCTGCAT	8342	AAATCTCCAAGGAAAGAGCCTTTTC	11028
2057	ATGATCTCAACACCAAACTCTTCCT	5657	GGAAACTCTCAAGGCATCAAGGT	8343	TTGGAAGAAGCAATGATCTCAACAC	11029
2058	GAGAAGATTTTGAAGCAAGGTGAAC	5658	CCCCAACTCTGCAATCTCTAT	8344	TGTGGCTGTAGAGGCTGAGAA	11030
2059	GGACCATCCCTGACTCTTACATTC	5659	GAGGAGACAGCAAGCTTGTGTA	8345	AGATTCAATCTAGTCAAGCTGTCCCT	11031
2060	TTCTGAACTAAGTTTGGCTCTAACA	5660	TGATGAGGCACCAAGGTTACAC	8346	GACTCACACAAAAATCTTCATGGT	11032
2061	TGTGCTCTGAGGACTCTCTGT	5661	GGCAGATAATCTACCCCATTTTGG	8347	AGCCACGCTTGTGCTCTGA	11033
2062	AGGGCCAGACCATTAGAT	5662	TGGCGTGTCTCATTCTACATG	8348	GGGTTTGTCTAGGGAAATGTAAC	11034
2063	AGGAGTTTGCAGAGCCAATCAG	5663	TCTCAGAGCTCCCTTTGCAT	8349	AGCTGGTTCTGAAGGATGAAGAG	11035
2064	GTGAGCAGTTGCAAGTAGGTGAT	5664	TGGAGACAGGGAAATATGAGGAGTAG	8350	AGGAAAACAGTGAGCAGTTTGA	11036
2065	GGTTTGCATGATGAGAGTTGATGGATAC	5665	TCCCGAACATGGGCAGAT	8351	CTTTTGCAGGAGCTATTGCAAGTTAAT	11037
2066	CATGCAGCTGATAAAAAGCTTTCCA	5666	TCCCAACCTCCAGCCCTTTAA	8352	TGCACCTCCATGCAAGCTGAT	11038
2067	GCATGGATAACAGAAAAAGCCTTTGG	5667	GCACTAAGAACACAGGGGGAAAGT	8353	GCTCCTTGATGGATAACAGAAAA	11039
2068	GTCACTGGCCATCAAAAGTCATC	5668	TCAAGAGCTGGAATTTGGAATGTT	8354	CCCAAACTTCATGGTCATCTTCCA	11040
2069	TTCAGGGTTACTGGCCTACCAA	5669	CCAGCTGTAATTTGTGGCCAAAA	8355	GTGTCTATAGCCCTTTAGTTTGTTCATT	11041
2070	ACCTTCCAGTCCAGCCTCTAGTG	5670	GGCCTCAAGAACTTTCTACTATTCCT	8356	AGGGTTCGCTGAGCACCTT	11042
2071	AGGAGGCCAGCCCTTGAG	5671	GGTGACTGGGGGTACACAGT	8357	ACTCCTGCACACACACACT	11043
2072	CTGTGTCATCACTGTGAAATGC	5672	AGGCCCATCTTACTCACTTTCC	8358	CCCCTTACTTAAACCTTACCTAACCA	11044
2073	CAGCCTCCCCATGGGATCA	5673	GCTTGGGTTTGGCTGACATCTA	8359	TCCTCGACAGAGGGATGACAACT	11045
2074	CAGCTGCATGAAAGAGGAAGA	5674	CCAATCCAAGGGTGGTCTCTA	8360	GGCAATTTTGACAGCTGCATGGAA	11046
2075	TCCCAGCTTATCTGAAGTGA	5675	TGGGTCCCAATGCCAAGTAAAGG	8361	GCAATAAAAATTCAAACAGGCATCAGT	11047
2076	CCATGGCCATAGTCCCAGTGTAA	5676	TGAAAAGCTCTGGAGTCAACAT	8362	TCCCAGTTCCATGGCCATAGTT	11048
2077	TCACCAGGACCATGTACCTAGAA	5677	CATTTCCGCTCACAAAGCCATT	8363	AGCTCTTCCACAGGACCATGT	11049
2078	CAGGTATCTCTGTATCCAGCAT	5678	CCCATACAAGGATCCAAGTACCTGTT	8364	AGGCAACCCAGGTATCTCTGT	11050
2079	AGCATAGCATTTCCAAATCTCTCT	5679	CAAAGCCATATTGACAAAGGAAGCA	8365	GCCAGCAGCATAGCAATTTCCA	11051
2080	CTGAATTCAGAGGCATCTTATCTCA	5680	AGAAGCGAGGGTGCAAAATGC	8366	CCTTCCTATCTCTTGCACATTTAATTGT	11052
2081	TGGAATGGCTGGCCCTTCATAC	5681	AGCAGGAATCAGGCAGGAAATGG	8367	GTTAAACAGCAGGGAAATGGAATGG	11053
2082	CAGTGTTCTTTGGGGCTTTTGG	5682	AGCCACCTGCCACTATCCT	8368	GTGTTCTACTGAGACAAGAAGGGAAAA	11054
2083	GGTAAACAGCCCTTACACTTGGA	5683	ACTGCACCTGGCATACCAT	8369	CTACTGCAGGTAACAGCCCTTA	11055
2084	CCTACCCAGATCCAGTGAACCA	5684	ACAACATACATTGCTGGGCCTTAA	8370	TGTAAGGCCCTACCCAGATCCA	11056
2085	TGCTCAGAACCCTTGAGTCT	5685	GGCTAACCTGCTGAGAACCTTTT	8371	GCCCCCTTGCCATGTGATG	11057
2086	CCACCAGCATGATGTCAAGAGATCTG	5686	GCTGGCTTCGGGTAGAGACA	8372	GTGACCACCACTGATGTGTC	11058
2087	GCAGGTAGTTAGATTTAGTCTATGC	5687	GAGAATAGCTCTGCAGTTGCT	8373	CCCTCAAGCATGTATGAGCAGGTA	11059
2088	CGAATCCCATTTGGTCTGGTA	5688	ACTAGCAAACCAAGCTAACGACAT	8374	TTGCATTCTCGAATCCCATTTGG	11060
2089	CACAACAGCCTTTCTCCATGAAGT	5689	GAGCATGTATGATTACGCTTCTTG	8375	AGGGTCACAACAGCCTTTCTC	11061
2090	CATGAGGAGGGATCACCAGTGA	5690	CAGGAAAGGCAGATGCTTCAAGTG	8376	GACTTTTGTGCTGCAGTGCATGAG	11062
2091	ACAGTGAATCTGTTCACAGTCAAC	5691	GCAGAGATTTAGCTCATGTGTTTCTG	8377	GTCCAAATTTACTCAGAGGTACAGTGAATT	11063
2092	GGAACCTTCTCATGCATCGTTTCC	5692	TGGGAAATGGGCAGTGCCTAGA	8378	GACATCTGGAACCTTCTCATGCA	11064
2093	TCTCTGAGAAGACCTGCTCTTC	5693	CAGGAGCCTCAGAGACAAAGAC	8379	CGGCAAGTGGGAATGTGATCTACA	11065
2094	CTCAGCCACAAGTGCTACAAGATC	5694	AGAAGGCCAGGTGATGTGA	8380	ATCCATCTCAGCCACAAGT	11066
2095	AGTCTGCCTTTCTGGGATGCA	5695	AGGCAGAGGCTCGCAGTGA	8381	CCTCACAGTCACTGCGCTT	11067
2096	CCACAATAAGATGTCTATCCACTAAACAC	5696	AGGAGGAACAACAGAGGCCAAA	8382	GCCTCCACAATAAGATGTCTATCCA	11068
2097	GGACCAGCAGCCAAAGAAGATTA	5697	GCTGACTTTCAAAGCATGAACCCCTT	8383	GGCCACGGCAGAACATTGTAA	11069
2098	AAAGTGTGCACCTGAAGAATGTG	5698	ACCCTCTGTGGTGGTAGAC	8384	AAAATGACAGTAACATCTGTATCCAAAAGT	11070
2099	CAGCAAAAGATGTGTGGCATGAC	5699	GTGGTGATATTTCTAATTCAGGGAATG	8385	GTGAGCTGTGATCACACCCTA	11071
2100	GATACTAGCTGCCACTGGCTAAA	5700	GGCAGAAACAAATAGTTGAGCAATGG	8386	CCAGGATACAGGGTGATACTAGCT	11072
2101	TGTGGCTTGGTTACCCACTGA	5701	GACAAAGGCCAGCTTCTCATACAG	8387	GGCTTTTCTGCTGGCTTGGTTA	11073
2102	GCAAGTGCACCCATTTGTTGT	5702	TGGCACCAACCTAATAGGAAGTG	8388	CCCTAAACGTATGACCAACAACTG	11074
2103	GAGACCCATTGCTTGTGAGACA	5703	GATGTTTGGCTTTTCTGCTCTGA	8389	GGTAAGCTGAGACCCATTGCT	11075
2104	GGCTCAACATTAGGCACTCAACA	5704	AGGAGTGACTGTACAGCTCAA	8390	TGATCCTGTGTTGGCTCAACATT	11076
2105	GAACCAAGTAAATTTACATAACCTGGTAT	5705	GAATGACATTTCTGAGCTCTCGGAA	8391	TGCGAGAAAGAACTGAACCAAGT	11077
2106	CCCTGTGTGCCCCATAGC	5706	CATTGCAGGAGTGGCTACTTCA	8392	TCAGTCTGGCCCTGTGT	11078
2107	GCAGCCAGTTGGACAGAA	5707	AGCTTTGAGCCAGCTGTGAA	8393	CCTGACATAAAGTCTTACGTCAATTTACTT	11079
2108	GTGATTGGCCAAAGAGACTGATGAG	5708	CTGTTACAGCTCAAACCTCTCA	8394	GCTCTGTGCTGCTGATGTG	11080

2109	ACGACAACCATACACGTCATC	5709	TGCCCTACTAAATGTGGTTTCTG	8395	GAGTTTGAATAAATACGACAACCATAC	11081
2110	AAATACTCTGCTCCCCCTGTG	5710	GGAATAGCTAGAGGATGAGACAAGCT	8396	CCCTGGATTAGTAAGAATGGGCTTCAAG	11082
2111	CCAATTGGCAATCGTTGGGTAAC	5711	CGTCTCTAAATTTGCTGCTGTTTG	8397	CCTGTACCAATTTGGCAATACG	11083
2112	GCCTGTAACCTCTCTTCCACATTC	5712	ACCCAGAGAGACTGCAAAAGGT	8398	GAGCTGCCTGTAAACCTCTTCTT	11084
2113	GTGGGCTTCATGCTAGGGTTTT	5713	GGGACTACTACCAGTGTTAAGTGAGATG	8399	ACTGATGGTGGGCTTCATGCT	11085
2114	GCCTGGACTGCAGGAATGTCT	5714	CCCTCCCCTACCTCTCTACAGA	8400	CCCCAAAGCAATTCCTCCTGTA	11086
2115	GGGAACAGGGGAAGGAGTTAAAGTC	5715	GCTGATGCCCAGATGTCTGT	8401	GCTCCTTTTATGTTGGGGGAAAGG	11087
2116	GCCAAGCACTTGCAATTTCTAGCA	5716	TGCCCAGACACGCGCAT	8402	TGGGGCCAAGCACTTGCAAT	11088
2117	CCTGGGGAGCTATGGAAGTGAA	5717	GATCTCACTGTTGCTGTCGGTAT	8403	GGGATCCCTGGGGAGCTATG	11089
2118	CAAGCACTGGAGATGCAGAGTATC	5718	GCCACCAGACCAATTGCTCATTT	8404	TTCAGACCCAAGCACTGGAGAT	11090
2119	GGTTACAGACTGCATCCATTTCCA	5719	CATGTCACTTGCTATGAGTTAGAG	8405	CTCTTAGATAGTCCAGTTCTGTGGTTA	11091
2120	CCCTGTTTTAGTCGGTCCAAACAC	5720	GGACTTCTGGCTAAACATCCATGT	8406	GCCTTCTTCTACAAAACCTGT	11092
2121	TTCCAGGCCTTGAGAGGAGTGT	5721	TGCAAGCTGCTGCTGACTCA	8407	TGAAACTTTAAATTTATTCAGGCCTTGAG	11093
2122	GAGCAACATTCCAGGTGGATGA	5722	GCTTCCACCAAGCCAACAACA	8408	GACAGTGGGGAAGAAAACATTTTCA	11094
2123	GTCTCCTCACTTACCTTCAGCTA	5723	GAGTGTATGCCAGGTGTTAACAACA	8409	GCCTTCTAAAGTCTCCTCACTTTACC	11095
2124	ACCAGGTGCTAGGTACTGTGT	5724	GGACAGCAGGGATCTATCTTTACG	8410	AGTGCTTACCAGGTGCTAGGT	11096
2125	GTGCAGATCCATGCATTTAGGA	5725	ATGACTGTGGTGGCTGCTGAT	8411	TGCAGAACTCAAGTGCAGATCCT	11097
2126	GTCAGAAGGTCGATCATCTGTCT	5726	CACACACACTCACAGAATGATTAGCA	8412	AGGGTTCCCAAGTCAGAAGGT	11098
2127	GGGAACATATGCAGAGATGATGGGTAAA	5727	TCACAGGCCTTGAACCTTTCCA	8413	AAGGCTGCCTTAGGGAACATATGC	11099
2128	GCTGACAGCTGTGGTCAGAGA	5728	TGTCACAGCGTGAGGTCAT	8414	AGTGGCTGGTGGGCTGACA	11100
2129	TCTATCTGCTCATGCTCATTGC	5729	GCATATAGCTATGCCAAAGAACAG	8415	TGAACATGCCTTGCTAGTTATTCTCT	11101
2130	AGAGGATGAAGTAGGCTCTAATCCT	5730	GATCAAGATGTGCACAGTGTCTCT	8416	ACCCCTGCAAGAGAGATGAAGTA	11102
2131	TGGGAGAGGCTGTCAGTTGTGA	5731	TGCTCACCAGTAGGCTAT	8417	AGTAAAAAAGTGGCTCTAAATCTCTCT	11103
2132	TTGGGCCCTCAAGTTCTGTT	5732	CTGAGGGAGGGTAGGGTTACCTT	8418	CCAATCCAACGGAACCCCATATA	11104
2133	GGACACAGAGCTCTCAATTGCA	5733	GAGAAGGAATTGGAACCAAGACAT	8419	TTGAGAATTGCTTTGGACACAGA	11105
2134	TCCAGGCACACTGAGATGCCCATATA	5734	TGCCCTGCACAGTATTGGAT	8420	CGTTTCCAGGCACAGTACGAGA	11106
2135	AACAGCTCACCCCTGGATTG	5735	AGACTGGAAGCCTGAGGTCAT	8421	GAGTCTCCATCCAATGTATCCTATCAG	11107
2136	ACATTGCAGAAAGGACAGGTTACTC	5736	CGCACTGAGTGTAAATTTTCCAAGCA	8422	AGGCTCGGGCTATACAGAGA	11108
2137	TGGGCTTGCGGTAGACACT	5737	CCTCTAGCCTGGATGTTCTCTCTTTT	8423	GGAATCATCCAGCCTGATGGCAA	11109
2138	GCCACATTCAAAGTCCCTGTAGT	5738	GCAGACTGCAGGGTTTCCA	8424	AGGCCTATTCTTCAGCCACATT	11110
2139	ACGCACATGGAGGCTTTCC	5739	GGACAGGGTCATCTCAGTGTGAA	8425	GCTGTGAAGACGCACATGGA	11111
2140	AGAGCCTCACAGGGAAGCAA	5740	TGCCCATGTCTTCTACTCACTGT	8426	CATGTCACACAGAGCCTCACA	11112
2141	TGAGGTCTGCTTCCGGTATT	5741	CCATGGAAGGATACCAACAAGAC	8427	TGCGGGCATGTTTGGTTCT	11113
2142	ACTCCAGATTGGGGATGATAGCT	5742	GGGATCTTCAAGCACAGTCTGA	8428	CCAAAGCAAGACATAGCAAATAGTTCTT	11114
2143	AAGACCAAGGCAGTGCAAGT	5743	ACATAGTCTCCTTGGGGGAAA	8429	CAGCCACAGCAAGACCAA	11115
2144	GGGCTAAGTTTAAAGATGGGATTGG	5744	AACCCCTGAAGGAGTTGTCTATTC	8430	CACGGTGGAGATAAAACCAACTG	11116
2145	GGCTACAATCTACACATTCATTCCCAAT	5745	GCAAGGGGAGCTCAAAGGT	8431	GACCCCTCAGGCTACAATCTACAC	11117
2146	AGCCCATACAGCCTTCCAGAGA	5746	AGAGCTCAGTCTGTCTCATCT	8432	GTCTAGTATATACATGTAGGAGCCCATAC	11118
2147	TCCAGGCTGAGGCTATCCTT	5747	ACGTTGTAGGCCCAACTACAC	8433	GTGGTACAAACATGGCTCACTACAG	11119
2148	CAGACTTCCCTTGCAACAGT	5748	TCAGTGTCACTCTGAGAGCTAAG	8434	CTGTTATCCCTTCTCCATCAATC	11120
2149	CTGCCATACAGGAAGCTAAAATCG	5749	TCTGAGTGTGGAATGGACGTT	8435	AGCCTCTCTCTGCCATACAGGAA	11121
2150	CACAGTCTCTCAGCAATGCA	5750	CCAATCCCTGAAGTCTGTATTACAAGAC	8436	ACCTGTAAGCACAGTCTCTCTCA	11122
2151	TGCTGACCTGTCTCTCTACCA	5751	GGGACTGGGAGACACATATTGA	8437	CCTCATGGTCACTGATAATTCCTTCAG	11123
2152	TGACTCCAGCACAGGGTTGA	5752	CCCTCTCCCTCACCACATG	8438	GCCAGGCTGGTTCACAAA	11124
2153	GTGAGGAAGCTATGGCTCATAAGT	5753	AGCGTAGTGGGTGGGAAATCTG	8439	TGTGTTGTGTGAGGAAGCTATGG	11125
2154	CCGACGTAGGCTGGACCAA	5754	GCCTGTATCTCTCTCGATGT	8440	AGAGCCTGCGCCGACGTA	11126
2155	CCCAGCATACCCAGCTTTGC	5755	GCACAGTGATTCAGAGAGCAGCTT	8441	AAGCTGAAGTGCAGGGAAGATC	11127
2156	GGCGCTTCTTTAGAGTGTGTTT	5756	AGCTCAGTCCCCAGGTTATTAGGA	8442	TGACAGGGCGCTTCTTTAGA	11128
2157	GAAGCGAGCTTGAACCTTCTACT	5757	TGCTTGAACCCCATCTTTATGTC	8443	CCACAGTGTGACTTGTAGTATCTC	11129
2158	ACTGGGCCTTTATACTCATTACTG	5758	CCTGAAGAGAGTCTACAGCCAATG	8444	TGCTTTCAGCCAAGGCAACTG	11130
2159	CAAGCACCGGCCATGTG	5759	AGCTAACCATGGCCTCTGAGT	8445	GGTCTGTCTTGAAGCA	11131
2160	GTTAACCAAGCACTCTTATATGC	5760	TGTATTACTGCTAGTGCCTCTAA	8446	GCTCCAGTGAACACATTTATTCTC	11132
2161	AGCCCCAGGAGCAATGG	5761	TGCCAGGGGTGGCTCTGT	8447	CCCGATGAAAGGCAACCT	11133
2162	CTGTTTTCACAGTTCTCTGGCAACA	5762	TGTGCTGATGTGGTGAACCTT	8448	GACAAAAGGGCTGTTTTCACAGTTC	11134
2163	GCAGATGCTCAGTGGATGTTTGTG	5763	TCGGAGGGGTTTCAGTAACACTCA	8449	TGTGCGGCAGATGCTCAGT	11135
2164	GGGCTTAGTGATGCTAAGGATCTG	5764	CCAACCTCAGCTGCTCCACTTA	8450	GGAAACGGGCTTAGTGATGCTA	11136
2165	CACCTTAACCAAGCATGATGTTG	5765	TCTCTCGACGCCAATATGTG	8451	GACAGCCACAGTGTACAAAATAT	11137
2166	GGAGATAGAAGTTAGTTAGCAGTTACCTT	5766	ATCCCTGATGCCCCACTT	8452	TTACTGATGGAGATAGAAGTTAGTTAGCA	11138
2167	GGCTGTTTCAAGACAAGAAAGGA	5767	TGGAAGCCTCAAGTCTCTTCCTT	8453	CAGCTTAAAGTAAATGCTCCACTGA	11139
2168	CACAAACGGTAGGGTAGTAAGTACCT	5768	GCAGATGACAGCCCCGTTT	8454	GGGAAATCACAAACGGTAGGGTAGT	11140
2169	AACCAAGTCCCAACCCCTT	5769	TGAGACTTCAAGAACCCATCATTT	8455	TGAGCATCAAGTGTAAACAAAGT	11141
2170	AGGGGAAACTATAGAGGGGGTAAAC	5770	CCCATCTGAACCTCTAGCAACTA	8456	GAAGACACTCTGAAAAACCTATCTACTGT	11142
2171	ACTCCAAGATGCCACAAGCT	5771	AGAGAGACTGAGGATATGGCTGAT	8457	GCCATGGTGACCAAGTGTTAA	11143
2172	GGAACCTATGGGTGAGATCTGGAAA	5772	ACCTGATGTTTGCACCTTT	8458	TGGCTGGAACCTATGGGTGAGA	11144
2173	GGTCATTGAGAAAGTCATCCCATCTT	5773	CAGATCCCACCCATAGGTTAGA	8459	AGATAAACCAAGGATCATTGAGAA	11145
2174	AGGTGGGATCCAGTTCGACAA	5774	GCTCTTGCATGTTTCTAGTGATGA	8460	TTATCTCTCAGCTGTGAGAAACTC	11146

2175	CTTCCCCTTCCCTACTCTCCTT	5775	ACAGGGACTTCCAAGGGAGACA	8461	CACATCCCTGACTCTTTGGTTATGT	11147
2176	ATGTTTGTGAACCTTGGCAGAGAA	5776	AGGCTTTGTGCTCTCTGTGATT	8462	GCCTCTGTCAATGGCTATGTTTGTG	11148
2177	AGCAAATAGACAAGGTTTTCTCATTC	5777	ACCTACAGGGCATTAGGTGTTACC	8463	GAAGAGCCTGCTTTGACAAACTCT	11149
2178	CCCTGGTTTTAGAGGAATGCTACTC	5778	ACAAGCTCATAAACTCAITGCACATT	8464	GCAGAACCTCGGTTTAGAGGAA	11150
2179	GTATGATTCCATGTACGTGAGTTTGG	5779	GCCCTGAATTCTGTGCTCGAGAT	8465	GGGTGATCCTGAAAACACTGTAAGT	11151
2180	TGTTGCTGATGGGGGAAA	5780	GCATATGTGCTGTCGACAAAGG	8466	CCCGCTCTGAGGTTTAGC	11152
2181	GAATAGAGAGGCCCTTGTGCAT	5781	CACCACACCAGACTGAAGATAG	8467	GCTGGACACCCCTGATTTAAGGTA	11153
2182	TTTCAGCCCATAGCATCATCTTCT	5782	TGCAGGTGGTCTGAGGATCACA	8468	GCTAGCCTGGAAAATATTTGTCCAATAG	11154
2183	TGTGGTTAGACTTCTGAGAACCA	5783	TGCAGCCTTAGAGGAGGGAGTA	8469	GAGCATGAGAGAAATGTGGTTAGACTT	11155
2184	TGGCTAGTGGGCTTGCTTTCA	5784	CAGTGGCTTTTCATGGTGAATAGC	8470	ACAGTCTCTCCTGGCTAGTG	11156
2185	GCTCATGAATCTGCTGGCTAT	5785	AGCTGAGTGTACCTGTTTCTG	8471	GCTGGCTGGCTCATGAATCCT	11157
2186	TCCCTCTCTCCAACCTTTAGCT	5786	TCCTATCAGCACCCGCCAGAA	8472	TGTAACGTTCCCTCTCTCTCCAA	11158
2187	GCTGATTCTGAGATGTAATAGGCTACACA	5787	CACCTTGCACTTCTGGAAGTCT	8473	GTCTACACAACATTGCTGATTCTGAGA	11159
2188	GGTTGGGTTTCTGCATCCTTTGTG	5788	CTGCCCCTTGAATACATTTAAGCA	8474	ATGGCCAAGGTTGGGTTTCTG	11160
2189	GCAATGCCAAGTTCAGCCACTT	5789	GAGTACTGGGCACAAACAGGTATAA	8475	CCAATCCTGCAATGCCAAGTTC	11161
2190	GGACAGGCGAGCGTATGG	5790	TGCCTTGGTGACGCCACTT	8476	CAGACAGGCGAGCGTATGG	11162
2191	GACCAAGGGGCTGACAAAGTTCT	5791	TCGGGTCTCAGCAGCCCAAT	8477	GCATCGGCAGAGGCTTCT	11163
2192	GGGTCCAATCAGTGCTGGAAATGA	5792	AAATACTGTTACAAGCCCATGTG	8478	GTGAGTAAGAGAGCCAAGATTCAGATG	11164
2193	TCCCTTAATCGGAAGGCAGTGA	5793	ACATTCTTTCTCAACTGCCACACA	8479	CAAGGAGCTTTCATTCCTTAATCG	11165
2194	AATGCCACCTGGTAATGAAGAGAA	5794	CTCAGCAAAGGTAAGTGTGTAGCA	8480	GCCAGGAATGATCTGGAATGCG	11166
2195	GCATCAGATGTTCTTGGTTCCT	5795	CCAGCAGCAATGAGATGTATCTGTAG	8481	ATTACACAATAATTGCATCAGATGTTCTCT	11167
2196	AGTGGAGCTGGGATTCTCAACA	5796	CGGTGAACCTCTCTTAGCAAAAC	8482	TCCCAACACAGGCTTGACAGT	11168
2197	TCCAGATTGGGAGAGTGTTTCT	5797	GCATTCTCAAGCAACCTTAGA	8483	CTGTTTCTCAACCTCCAGATTGG	11169
2198	CATTGTGTTGGTGGCTAATTGAGGAT	5798	TGTGTTCCAAGCCCTGTAGTG	8484	CCTTGGCATTGTTGGTGCTCAA	11170
2199	ACAAATGATGCCAACACTGAGATGA	5799	ATCCTTGCAAGGTCATTCCAACA	8485	AAATGACAAACAAATGATGCCAACAC	11171
2200	CCATCAGATGGGCTTATTCACACA	5800	TTGTGACTGTTTCATGGCTGTATAGT	8486	AAAGGTGTGCTGATAATGTGCATAAA	11172
2201	GCTGTTGGAGCTGAATCACCTA	5801	CCTGCAGTGCTTCATTCAAAGG	8487	AGTATCCCACGCCCTGGTT	11173
2202	GGCAAGGCCCTCGAGAAAGG	5802	ACACTTCCCTCCATGCTCTCTA	8488	ACCTGTCGATGGGCATGGT	11174
2203	GGCTGGGGCTATCTCTCATTTCA	5803	CCCAACTGAAGATAACCGATGCATGT	8489	AGGGATTCTTACCACGCTTGA	11175
2204	TCCCTGTGCTGTCAATGAGCTT	5804	CAAAAGTTCCAGAGGTATTTAATCCA	8490	TGACCACTTCTCTCACTGACA	11176
2205	AACCTGCATCTAGGCTCTCTT	5805	GGCTTATTTCCCAAAATGGTTCAATCATG	8491	GCCTATTATAACCTTCTGCCACATTCC	11177
2206	GACAGCCTATTGGTGAGGATAACA	5806	GAAAGCTCTCAGGGTTACCAGTT	8492	TCTAGACTCTGACAGCCTATTGGT	11178
2207	CCCAGGCCCTTGTCTCTCT	5807	GACTGAGTGAAATGAAGAGCAGCTA	8493	TTCCCTCGTGCTTGTAGTGACA	11179
2208	TTGATCCGCCCTCTCTACTCA	5808	TCCCCTACAGGCTATGGATTAG	8494	GCCTTCTCAGCCTTGTGTTGC	11180
2209	AGACTGGGGATGGGGCAAAA	5809	AGTTTCATGATGTCGCCCTTTGT	8495	ACCGCAGAGTAATCTATAGTCACAGA	11181
2210	ACCTGAAAATGTCCCGAATGTCT	5810	GCTGGCTGTTGGAGGACAGA	8496	TGATCCCATCACTGGAGCTAAAAAC	11182
2211	GGACAGTTACATAAACAGCAGTTAC	5811	ACTGGGACCTCTCTGCAGAT	8497	GGGCAGGACAGTTACATAAACCA	11183
2212	TCTGGATCTTGAATCCACACTCAA	5812	TGCTGTCTCTTAGGCCAAAGG	8498	GACAAATCTGGCTGTCAATTTCTGGAT	11184
2213	TCCGTGCTCCCCACTGAGTAA	5813	CTCTCTTCAAGGTGCTCTGAGA	8499	TCTGTGGCTCTCAGGCTTCT	11185
2214	ACTATGTCAGTGAGGCTGGAGTA	5814	GAGACTGCAGTGAACCATCAGT	8500	TTTTTGAGAGAAGGTCTTACTATGTCAT	11186
2215	GCTGACTTTCTTAGCCACCGTACA	5815	TGCCTGGCAATGTGATAGAAGGAT	8501	GACAGAGCCAGGATTCAAAGCT	11187
2216	CCCTTGATCTATCTGGAGTTCAACAT	5816	GCTGCTTTCCCTCTTGTTACACAA	8502	CACTATTTCTTAGCCCTTGATCTATCT	11188
2217	CCGCCATGAAAATGCGATCAT	5817	TGCTGAATCTGTGGTGAGCTT	8503	CGCTCCGCCCATGAAAA	11189
2218	CTCTGTGGAATAATCATGTGTCCACTA	5818	AAGTGGCACTGAAGTCGATT	8504	CCCCATCATACACAAAAGCCTTTT	11190
2219	CCTCCTAAGTGTGCGTCTTTTCG	5819	GGAATCAAAGCACCTTTATTACTGCTT	8505	GAGTGGACCTCTCAAGTGTG	11191
2220	TGATCCCTGATGTTGGAGGTAAGA	5820	AGCCCAGAGATCCAAGCACTT	8506	GCAATGGCCTAGTTAATGTGACTCT	11192
2221	GGCTGATGAATTGCATGTGGGTTTC	5821	AGACTTGGAGTAATCTTGCCTTCTT	8507	GTAAACATGGGCTGATGAATTGCA	11193
2222	TCTGACACTGATTGAGGAAAAGAG	5822	CCTCAATTTTCACCCCACTCTTCT	8508	ACTCTTGGATGCTGCTACAAATTTGT	11194
2223	ACAGTGGGCCGCTGTGATAA	5823	AGGGTGAAATCTCCAGATTGAG	8509	GGAGCAGGTAAGCTATGAATATGATAGGT	11195
2224	GTGCTGAATCCTAGAATGTACATGCT	5824	AGCTCATCAGCACATGAGTTCA	8510	GCCCTGTGAATGTCGTGAATCCTA	11196
2225	CTCATTTCCCACTCACTCCAT	5825	CCTGTCACATGCAGCTATCAATG	8511	CCATGTAAGTCCATGGTGACTTCTC	11197
2226	ATGCCACACGAAGATCCA	5826	GGTGATGCCAGGCTAAGT	8512	ACCCACGGGCAAGGTAAGT	11198
2227	TGTAGCTCTCCAGCACTTGC	5827	CCATTCTTCCATCTCTCTAATAATAGG	8513	TGAGGCATGCGGTAGTCT	11199
2228	GGCTGAGGGGAGGGGAAA	5828	GCTGGGGCTCTTCTGCTTT	8514	TCACCAAGCACAGAGCATGAG	11200
2229	CTCTGGAATAGACCGTGACAAAGG	5829	GAGCTCACATGCCAGATTCCAT	8515	TCTCCGAGGTGAGAGGACTCT	11201
2230	CGGAGATTTACCATTAGCACTTCT	5830	CCTGGGTAGCACTGTCTTCAAT	8516	TCAAAGGGCTCGGAGATTTAC	11202
2231	TTGCCCTTCAGGAAGCAAA	5831	TGCACGGCTAAGCAGTAAGGGACTT	8517	CTGCTTTTCCCTCTCAAAGCT	11203
2232	TGGTTGTGGTGGGGGTGGAA	5832	GTCTCTCGGGGTAATTTTCTCTATCC	8518	GTTTATTGTGGGGAATCTTTGAGTT	11204
2233	GCAAACATAACAGCAGTGAATTGTAAGT	5833	TGCAACAGGATGGCTGACA	8519	CAGCACTGCTAACACCTGGATT	11205
2234	GGGACATGGGTAAACAGTCACATTG	5834	AGCCATGTCCTGACTAACCT	8520	AGTAATGTGGGACATGGGTAACAG	11206
2235	GAAATCCCAAGAGTCTGACAGTGT	5835	CTGAAGGGTAAAGCATAGGGTTA	8521	TTGCATCCAAATAGTTCGATTGGTTT	11207
2236	CCTTTTCTACTGACAAGGGGATATTTGG	5836	CCAGCAGTGATGACCAAGATGAC	8522	GGGGGCAATTTCTCTCTCTTTT	11208
2237	CTCTAGCCAAACAAGCAAGAC	5837	CAAGGTAATTTGCTGAGCTTTGG	8523	GCTTCCATCAACTCTAGCCAAACA	11209
2238	TACCTCCACTGCCACCACCAA	5838	GCACATTGCTAGCTGAGAGAAACAG	8524	GGGGCGACAGAATGACAGTCTAAA	11210
2239	CCCAGTCTGTGCTTCTCTCTTCT	5839	TGCCAAGATCGTCGAGTGAT	8525	ACCCTGCCAGTCTGTGCTT	11211
2240	TTGTAAAAACCACTAGCAGTCA	5840	GGGAACCCCAACCTCTCTTG	8526	GATCCAGGATGCTTTGAAATCAG	11212

2241	TCACAGCCAAGCATACCTCTGT	5841	AGCCAGGTGCAGTATGGGAAA	8527	AGGACTTTCTTCCCCCTTTATCCTA	11213
2242	AATCTCGGCAAGATCCCCAGATC	5842	CTCATGCTTGCTCTGGACAA	8528	CAGTCTAGGAATCTCGGCAAGATC	11214
2243	GCCCATCTCAAGTGGCTCTT	5843	GACCCAAAACGAACTGAGATGCA	8529	TGCAAGGGCCCCATCTCAAG	11215
2244	ACCGACTGCAGAAAGCTCAC	5844	GGCCAGCATTTCTTGGATCCTT	8530	AACGACTCACCGACTGCAGAA	11216
2245	CTGTTGAATCCACAAGACCAAAACC	5845	CCCCAGGATAGACAACATTTGGAT	8531	CTGGAATCAAAAGATTTTACTGTTGAATCC	11217
2246	GACTATACTCACACAAAATTGCTTTG	5846	TCCAATTGGCCACAAGCTTCGT	8532	CACCTTCTGACTATACTCACACAAAA	11218
2247	GCAAAGCAAGATGACTAAGTGTTCTG	5847	GCTCCCCTGACATCCCACTTTT	8533	GCAGGGTATAGCTTAGCATAATGAGA	11219
2248	CTCCAGGCTAGTAGACATATGTGT	5848	AGATGTGGGGTTTATAAGGAAAC	8534	CCACAAAACAAACCTCCAGGGTAGTAG	11220
2249	AGGAAGCTTAGGCCTTGTATAGC	5849	GCCATTATCTCTCCAGGTGTTTACTGT	8535	GAGCTCTAAAGTAGAAGAGGAAGCTTAG	11221
2250	GGATGCAACTGAGGGAGCAAA	5850	CCAGGTTGACTGCACACACA	8536	TGGTGCAGAGATTGAGGCATCTTG	11222
2251	AGGCCTGAGTGGGGATGTC	5851	CTGGACCTTGGTTAAGCACTGA	8537	ACCTTGGGAAGAGGCCCTGAGT	11223
2252	CACCAAGAGATCGTGTCTCAAAG	5852	CTGGGTTCTAGTCTGGTGTGTG	8538	GGTGTCTTGACACCAAGAGATCGT	11224
2253	GGGAACCTCAATATTTGCTCTCGTT	5853	GCAAAGAGGCTGCTACTCAGATTCA	8539	CCGAGTTGGTGGGAAC	11225
2254	AGGTCTCTAAAGCCCAGTGCAT	5854	AGTCAAAAGGCAGGAGGCAAA	8540	ACTAAACATTCCTAGGTCTCTAAAGC	11226
2255	AATGCTGTATGTAGGTTGGAAGCT	5855	AGAAAAGGGGCCACTGGTCTT	8541	GTGCGGCTGAAAGAAATATACTCT	11227
2256	GTGTTTGAGAAGGTGAGTCTGACA	5856	CCAATCCACTCCACATACCAATTGT	8542	GTCTGGAGTGTGTTTGAGAAGGT	11228
2257	CCTTCTGTTTAAAGCCAGAAGTGTG	5857	CTGTAAGATCTCTGGTGTCAAGGT	8543	CACAAACACAAACCCAGAAATCCTTTG	11229
2258	CCCGCAATATGGGCAACGTT	5858	TGGTCTGGCTTCTGTGACT	8544	GGAATCAAGACAACCTTCAAAGCGAAAC	11230
2259	CTAAAATAGTATGTGAGCTGCATTGGT	5859	GCATTCCGAACACTGAATTGTTAAGTG	8545	ACAGCTATTGAACATGACCAGTTG	11231
2260	TGTAGGTAGTTCCTCCCAAACTTTC	5860	GACTCAGCTGGGGAATTTCTCT	8546	TCCTGGATAAGGGTTCTAACATTTTGTAG	11232
2261	GTGAGGGAGGTAGGGTTTCAAG	5861	GAGGGGCTACTAGAAGCAAAAC	8547	CTGAACAGGGTGAGGGAGGTA	11233
2262	CAATCTGGTCTCATTTGACGTTGTC	5862	GAATGCCCTCTAAGCTTTAATGATG	8548	TCTCCATCCAAAGCATAAAATCCTATCA	11234
2263	CCACATTTTACGGGTGCATGTTT	5863	CACAAAGAGCAGCAAATCACATCA	8549	ACCTCTCCAGCCACATTTTACG	11235
2264	CTATGGAGTTTGGCCACAG	5864	CAGCAAATGGTCCACAGGATT	8550	TTTACAGTGTGTTTATGGAGTTTGG	11236
2265	ACTGTTCTGGATGGGCAAGTG	5865	GCCCAATTGCAATATTTCCGAATGCA	8551	AAGGAGCACTAGGCCTCCAAAA	11237
2266	GGCAATCTACTAGTAGAGGTAGTTCAG	5866	AAAAGGGATGGTGGCGATCT	8552	GGAGACACGGGCATCTTAGCA	11238
2267	CCTATTTTCTGCTTGTGTTACG	5867	AGGCAACAGGTGGTCAAATGA	8553	AGATGCCACAGAACTAAAGCTT	11239
2268	ATCCACAGCCAGCAAAACAGT	5868	CGCATTACTTCCCATCCTACCAA	8554	GAGTGCTATGCTCTAAGCATCATGT	11240
2269	AGGTTCTGCTCTGGCATTTTGG	5869	TGGCTGTCAGTCTGCATGTGT	8555	TTGTCAGTGCACCAAGGTCTG	11241
2270	AGAGATGATGGCAGGGACAGA	5870	ACAAGATCCAGGCTGCTCTGT	8556	TGACGTGATGGGGAGGTGT	11242
2271	GCAATGCTCCCTATTCTGAACA	5871	TTGGGGTGTGACCTGTTGCA	8557	TGACCAGCAATGCTCCCTAT	11243
2272	CCAGGTCAAAACCCAAATGTTATCC	5872	AAGAGGGTACAAGGGAGGCTTCT	8558	GCACCCAGGTCAAAACCCAAAA	11244
2273	CCTCAATTACCTAGTGAGTACCA	5873	AGAGGAGAAGTGGAGACTATTACAGT	8559	CCAGGCCACTGATCTCCATTT	11245
2274	GGCAGTCATTCAAACCTAAGTCTGT	5874	GCACAGTAGGAAAAGTCTGTTGTG	8560	GCTCTAAATGGCAGTCATTCAAACC	11246
2275	TGGTAGGAAGTAAAGAGGCAGGTTAGG	5875	AAGACTCACCTCTCCTTCTATCCTT	8561	AGGGAGGTGGTAGGAAGTAAGAG	11247
2276	GCCTAGTGGGTTCAAGTCAAGCT	5876	TGAACCTAGTCTCTGCTCTATGAT	8562	CCACAGGCCTAGTGGGTTCA	11248
2277	CTGGACTTCAAAGAACCCTGATG	5877	ACCCCTTTCAAGCCAAGGATGT	8563	CCCAGGTATGTGACTGGACTTCAA	11249
2278	AGCCCCACACTACTGATCTCA	5878	GGGAAACCCAACTCCTGACTA	8564	CAGCCAGCCCCACACTAC	11250
2279	CCAGAACACATGTTAAATTTCCCTT	5879	CCTAACCTGCTCTCAAGCTTTTGC	8565	GGAGGTATTCCCAAGAACATGT	11251
2280	ACCTGAGCCTACATCTGAGCTCTT	5880	AACCTGGCCACTCCAACCATA	8566	CTGGAACCTTAACTGAGCCTACA	11252
2281	TCTCAACTGAAAACCAATGTAAGGT	5881	TGGTGGGTATATGGAGGGTGT	8567	GAGTCTCTGGCTGTGAAGAAAACA	11253
2282	GCAAAACCTCTGAGGCCCTTCA	5882	TGGAAGAGGGGGGCATCTG	8568	CCTTTCTCTACTTTACCTGCAAAACC	11254
2283	GCTGATTGCAATTGGCTCACA	5883	TGTTGGTGTGTCTCCCATGCA	8569	CCTGAGTGTGAGCTGATTGGA	11255
2284	GTGCAGGAAGTATGGGAGATTACA	5884	ACCTGCATCATGGCCCTGACA	8570	AGGGCAGGGTTAGACATGAGA	11256
2285	TGCTAGATTCCGAGGCTGGAA	5885	AGGAGCATGTGGCCTCAGA	8571	TTTGAACCTCCCTCTGCTAGATTCC	11257
2286	TGGCATGGCTTTAAAGGTTGGA	5886	CCTTAGAGGAACAAGGCCTGACT	8572	CATCCCGTCTTCTCCTGCTAT	11258
2287	GCCTGGTGAATGGCAAGGT	5887	CAAGACAGTTTCCCATCTGACA	8573	GGCATGGTGGCATTTGGT	11259
2288	CCAACCTGACAAGTGGAGATCTG	5888	GCCTTGTGCTGTCCATTGG	8574	AGCGCAACCTGACAAGTG	11260
2289	ACGAACCCACATCAGCCAGTA	5889	TTTGCAGGCCTTGGACATGGT	8575	AGAAGACACGAAACCCACATC	11261
2290	TCCTGCTACCTATGAAGGGTAGGA	5890	ACTGTGCAATTTAGTCACCATGAT	8576	GCAAGACAGTTCTGAAATCAGACTTC	11262
2291	TGCTCTGGCCTGATAAGGAAGGA	5891	GCTCATTTGCCCCCTGCTAAGTAC	8577	TGGGTTTGCTCTGGCCTGATA	11263
2292	TGATATCTGTGTCTTGGTGTAAATACAG	5892	GCTAAGAGGCTCTAGGTAGCAGTAG	8578	ACCCAGGTTTCAACAGAACTGAA	11264
2293	GGACTGCAGAGTAAATTTTGGCTTTG	5893	GCTGTGGCTGTTTTCTGCTCA	8579	GTGTTTTCTTAAAGAGCTGCAGAGT	11265
2294	AAGTGTTGCAAGTAAAGACCATACAG	5894	CTCCTCCCTCTAGTCTTCTGTGT	8580	GCATAACCAAGTGTGTCAGTAAAG	11266
2295	AGGATGCTGTTGATTGTATGTAGCA	5895	CCTTCCCTCCTCTCAAAACCTGT	8581	CCTGTTCTCTAATTTCAAGGATGCTGTTG	11267
2296	CACAAGCTCACTCACTGCTTA	5896	GACTCCATTGAAACAAAGGCAAGAG	8582	CTTCCATCTTTTACGACCACTTTTAC	11268
2297	TGTACCCCTTCTCTACAGCTA	5897	CCCTCTTTTATGGGGCATGCATTCT	8583	CAAGTGTTTCTTTACCTCCAGCAAA	11269
2298	GCTGTTATAGTCGTGGTGGTGTG	5898	AGCCACAGCTCTGACAACAG	8584	TGGTGGTGTGGCTGTTATAGT	11270
2299	TGCTCTGCTCACTCCCATTC	5899	CAAGCAGACACAAGGATAAGAGGAA	8585	GCTGGAATGCCTCTCAAGATGCT	11271
2300	CTAGGAAAGGCCCTACACTGTTT	5900	AACCTTTGTCAGTGAAGGGTTGA	8586	TCCCTTCTCTCTCTCCATAAGC	11272
2301	AACTGAAAGGCCACGTGCAA	5901	CACCTGTTTACCTTCTAGCCTCTT	8587	TGCAGAGGCTGTAGGATAGCA	11273
2302	TTCTGGTGGCTGGAATGCT	5902	TCCTGTCCACCTATTGCAAGTG	8588	GGCATGGCTGTCCCTTCT	11274
2303	CGACTTGACTGAACAGGCTTAGAC	5903	GGAGGCCCTTGGACCTGGA	8589	CCGGTACAATTCGACTGACTGAAC	11275
2304	AGCTGAGCTCTTCCAGGTA	5904	ACCTGGAGGAGATGAATCTTGA	8590	GAAACAGGACAAAGCGTCACT	11276
2305	GCTTCAGCAGCATCATCCAGAA	5905	CTGCTGCCTGAAGTTCTGA	8591	GTCTGCAGCAAATACAGCTTCAG	11277
2306	AATGCTGGAGGGGTGTGTCA	5906	GCACGCTCTCAACCTCAAACTTC	8592	GGCAAAACAACTGAACATCTATTGG	11278

2307	AGGGGGGTTGGGAACCTCCA	5907	GCTACCGTTTGTTCACCTATCT	8593	CACGTAAGTAAATGGTTCATGTG	11279
2308	TCTCAACCAAGGGGTACAGAGA	5908	TGTAAGGGGTAGTCTCCACAA	8594	GCTCAACAGTTTGTATCTCAACCA	11280
2309	CCTTTGTGCTCAGGCTTTGAAGGT	5909	AGGAAAGAGAGCTGGGAGGAA	8595	CAGCCTTTTCTGTGAGAGATGGA	11281
2310	CTGTCTTGCCATTTTGGCCAATA	5910	GTCTGCTTTTGGGTGAGGATGA	8596	GCAGCAGATTTTCATCTTAAATCATCAGAA	11282
2311	GAAAGGCTCAGTACAGCTTTTAGC	5911	ATCCCCCTGCTTCTGGACAA	8597	CCTAGTGTCTTGTACCCCTTTTC	11283
2312	GGCTTGCCACAATGTTGCT	5912	CCTTTCTCAACTCCTGTTGCT	8598	CTGGCTGGGTTGTGATAGCA	11284
2313	AACCACCAAGTGCCTTTGCA	5913	CCCTTTTACCACACTGATGTTTGC	8599	AGGAAGCCAGGAGTCTCAACCA	11285
2314	GGGGAGCCTCACATTTGACATT	5914	AGGTGAAGCCTCCTGTCACTCT	8600	GGAACTTGAAGCGAAGAGTTTATCTGT	11286
2315	GACAATGGCAGAGAAGGCAGTT	5915	CAGGTCACAGCAGGAAAACAAC	8601	CTTCTGAAGACAATGGCAGAGA	11287
2316	CCTTGGTTTGCACTGTGTTTGG	5916	AGGGAGTGAATGGTGGCAGAA	8602	TGGTGGGGCCATTCTATAGT	11288
2317	TGCCCTTTTGTGCTGGTAGGT	5917	ACAGTGAGGAAGGCTGAGCAT	8603	CTTTCTGCCTGCCCTTTTGTG	11289
2318	TTCCCCAGGCTGGCCTTTAA	5918	GGCCATGACATTAAGATTGCTGAATTC	8604	GCCTGAGCCAATTTTGTAGAGATG	11290
2319	TGATGTTGAGTAGAGGTGTGATGTC	5919	AGGCTGGGCTCCTGTGAGATA	8605	GGTTTGGAGTGGGTTGTTGATG	11291
2320	CAAAACCCACCCAGTTTAGCTT	5920	ACTCTGAACCTCGTGTGCTCTT	8606	GGAGCATTCCCTGTCAAAACC	11292
2321	GTGTCTGTGATGTGGAACGTT	5921	CCCTCTATTGATCCTGTTGGAGTTTG	8607	GGCTGTATTCTGTGTCTGGTA	11293
2322	TCAAAGTTTTAGCCTGCCTTAGTC	5922	TGACCAGGTCTCCAGTGCTT	8608	GGAGCACTCCCAATAAAAGTGTTTC	11294
2323	CGTGAAGCTTGGGTTAACAGTTCCA	5923	CCTCGCTCCATCCTGTGAGATA	8609	CGCATCGTGAAGCTTGGTTAA	11295
2324	GGCAAAAACCTGCTGGAATGCT	5924	CATCAGCAAGGGCCATTCTGA	8610	GCAGGAGGTTATTAAAGGCAAAACCT	11296
2325	CCAGGATGCAGGATCTACTGTA	5925	CACAACAATCCTGGGACTGAGA	8611	GGCCCAGGATGCAGGAT	11297
2326	GGGAATGGAGAACACTCTTCTTGCT	5926	ATGCCCAGTATACCAGGAGTCA	8612	ACAGTATCAAGAGTTGGTTGGCTAA	11298
2327	TGCAGCTGGACAACTCCCAT	5927	GCCAAAAGGATTATCCAGGCTCTG	8613	GAATTTTGAATGCAGCTGGACAAA	11299
2328	AGCTGAAAGAAAACCCACTTTGTC	5928	AGGCTCCCATGGGACTGCA	8614	CTCCCAACAAGCTGAAAGAAAACC	11300
2329	CGCGTAGGGTGTTGGATTCTTTG	5929	TGATTTCTCTGTGCTTTTACCTT	8615	AGTCGCGTAGGGTGTTGGA	11301
2330	ATTGGGAAGTAAGACTTGCAATCTG	5930	CTGATGACCACACTGTCTGCAT	8616	CTGTTGAAATGTGAAGATGAATCTCTGA	11302
2331	GGGTTAATAATGTGGAGGTCACTGAA	5931	CACCTCCCTACCAAGAAGCAGTCT	8617	CATGTGGTAGCTTGGGTTAATAATGTG	11303
2332	CATTTACATCCTCGAAGTCTGTGT	5932	AAGGTCGGTGCAGTTTACAAGT	8618	GCTCCAGCAGACCTTCTCAITTTAC	11304
2333	GGATGAGTTTGGCCCTGATTTTC	5933	GGGCATCATACAGTGAAGGACTTG	8619	GGCTTTGGATCAAAGGATGAGTTTGG	11305
2334	CACCTCTTGGCATTGAGTAACAC	5934	AATTGAGGGCAATTAGCTAGGATCA	8620	CAATTATTCCTATTCACTCCTTGGCATT	11306
2335	GTTTCCACCATTTGCTTACAATCT	5935	AGTAAGAAAAAAGATGGGCTCTCAGT	8621	AAACAGGATTCTCAGGAACATGTTTC	11307
2336	CTGTTACCTTGACTCATCTCAGGTT	5936	CTCTAGTCCGTCAGTTCCGTTTCTG	8622	CAAAACAGCTGACCTCTGTACCT	11308
2337	TGCTGCTATTACAGGCATAAACCA	5937	GTGCCCTCAAAAACCATTAAGG	8623	CCTCAGTGTCCCAAAATGGTGCTA	11309
2338	AGTTTCAGCAGCTAAGCCAGAA	5938	CACTTTAGAGCAGGGTATAACATGGA	8624	ACTTTCTTCACTAGTTTCAGCAGCTA	11310
2339	CTGAAAGTTGTCATAGCTGGAATCC	5939	CCCAGTTGTTGTGCTGAAATGG	8625	GCTGCTTCTGAAAAGTTGCATAGC	11311
2340	GATACCAGAGCAAGCCTTCATGA	5940	TGGGGGTTTTTGGCTCATGTT	8626	CCCTCTTCTGAAGCTGAGATACCA	11312
2341	TGGACTGGATGAGGACAGCAATT	5941	ACTTTACAGTGGGGAGGCTGAGA	8627	TGGGGGGTGGAGCTGGATGA	11313
2342	GGGGGTCTTTTATCTCCAGGAAAG	5942	GCCCTTTCCCATCTTGTACCTT	8628	AGGGAGAGGGGGTCTTTTATCTC	11314
2343	TCTCACCCGACACCCCATAT	5943	AAATTAGTTTCCATTTTATGATCGCCTTAA	8629	GGTCAGCTGTATCCAAACTGTTCTTC	11315
2344	AATAACCTGTTGACTGGTCTCT	5944	GCACAGCACTGGATATCTTAATTGC	8630	GCAGGGCTACCATATGTTGTGAGA	11316
2345	TCACAGTGGGAAGAGGCCAAGGT	5945	CTGGAAATTTACAAGCTCAGTTGACT	8631	CACCGCATCAGCTGGAAGA	11317
2346	GGTTGCACCGGAAAAGAACAGATTC	5946	GGTCTTACCATTGGCGAAACTCT	8632	GACTTTGGTTGCACCGGAAAAG	11318
2347	GGTCACAGAAATGGGCAGAAATGTT	5947	AAGAGGGACTGTGGTGAAAGTG	8633	GGAAACCATTAAAGTTCAGAGAAATGG	11319
2348	GGTTTGGGTCATGACAATAGATCCCTTA	5948	ACAACCTGCAAGAACAGGACCAA	8634	GGGAAAGGTTTGGGTCATGACA	11320
2349	TTCTCACTTGCCAGTGGTGACT	5949	CAGCCCCAAGACTCCCAAG	8635	CTGCTGTCAATTGTTGCCCTT	11321
2350	TGCAGTGGCTGAGTTGCTAA	5950	AGCCAGGAAGGTGATATTAGGATTGG	8636	GCCAAAGTGTTACCAAGAGTCACTT	11322
2351	AGTAGAGTTTCTCGCCCTCTGA	5951	GGTGGGGAGTGTTTTACAGGAATAGAT	8637	GAAAAGTCATTGTCCAGTAGAGTTTCTC	11323
2352	ACTCCAGTACTGGCACTATCCA	5952	GCTTGCATTGCTTCACTATGT	8638	CATGACCAATAAGGACTCCAGTACTG	11324
2353	AGCAGTATGCACTGGGGAAAGG	5953	GGCAGAGTTAAAGTCTTTAGATCAACCA	8639	GCTCCTAAGCTAGCAGTATGCA	11325
2354	TGCCCTTGGTCCCGTACTA	5954	CGACGCCACTTTATCCCTCTTAAAC	8640	GGTTAGGTCTTGTGCTTCCTG	11326
2355	TGTGCTGTTGGGGAGACA	5955	ACATCTCCCACTGCTGCTA	8641	CGCTGCCTGCAATGAATTGTTAGAG	11327
2356	GCAGATCTTGGTGAATACATGGATGCT	5956	GGTACTGTCTCTCCATCCACAAC	8642	GGTAGCTGCAGATCTTGGTGAA	11328
2357	TGAGCTCAGGTGTGGGAAATTC	5957	CTGGCAACAACCTTGCTTAGTTC	8643	ACTGTTTGACATGCACTGAACAG	11329
2358	CTTGGGAAATACACAAATACGTGGAA	5958	ACCAACTGGTCACTCAGGAACATAG	8644	TGCTGACCACTGAGTGAATATCAC	11330
2359	AGAAGAAGTCCCGTCAACCT	5959	GCTCAAGCTCCTCCACTCCTT	8645	TGAAGGTACAACAGGAGAAGAAGTC	11331
2360	GACTCAGACAGCGAAGTAAATTGTTCA	5960	GCTCACTTGAGTGCCACTTACAG	8646	ACTGAGACTCAGACAGCGAAGT	11332
2361	AGTCTAATCGGTCTGAAGTGAAAGTAAA	5961	CCTCCATTTACAGCAACATTCAC	8647	CTGTGAGGGAGACAGTCTAATCG	11333
2362	TTCTCAAAACCCCAATCTGAGT	5962	GCCCTCCATGACTTCGCTTA	8648	CTGAGTTAGAAAAGACAGACCTTCCT	11334
2363	CAGAAGTTACTGCTGGTCTTTTCTG	5963	CCTTGCCACTCTCTCCCTAT	8649	AAACTGGACACTGAACTTCAGATTTT	11335
2364	CCTTAGGGAAGCCATGCAAGAAG	5964	GTCTTATGGCTGTTCTTTCCATA	8650	GCAATGCAGGCTTAGGGAAAG	11336
2365	GTTGCTATCCATGCAAACTGTTG	5965	CTTCTCTATATCCTCCACAGATCCT	8651	TGGTGCTGTTGCTATCCATGCA	11337
2366	CCAAACTTTTCTACTTAGGTGCAATT	5966	CTGCTGCCATTTGACCATATGC	8652	CCCTGTATAGATCATGGATTATTCATCCA	11338
2367	GGTTTGGCATCTGCTGGTCTATTAAT	5967	CACAAAGGCAAGGATACATAGG	8653	AGCAGTTGGTTTGGCATCTCTT	11339
2368	CCTTTTGGACTGCTGGCTTATATTAAT	5968	CACCATTCAGGTTGCTATGGAGAT	8654	CACCTTTTGGACTGCTGGCTTA	11340
2369	CAAGCCCTGCATTTTGTACTGA	5969	GGTTTGGAGTTAAGGAAGGTTTGG	8655	GCTAGCTCAAGCCCTGCATTTT	11341
2370	TTGGAGCACACCAAGTTTAAGCT	5970	GCCATGCACTCACTTGTCTACA	8656	GGACAGAGATTAGACCACTCATGTAAT	11342
2371	GGAGTCTGGGGAGGTACTAATAACA	5971	CAAAATGTGCGGAAAAGGTTATGT	8657	TCTCTTTGGAGTCTGGGGAGGTA	11343
2372	TTGCCAGTGGGAGGATGAAGTA	5972	CGGCTCAGGTAGGAGATCATCTA	8658	GGCATCTTTTTTCCAGGGATAATCT	11344

2373	CCTCCATGCAGATTAGACACTTGTG	5973	TCCTGTTGCCAGTTCCTGCTT	8659	GGCAACAAAATTCTTACACCTCCAT	11345
2374	TTACAGGCGTCAGGCATTGT	5974	CTTCGCTGCACCTTGAGTCAAAA	8660	CCCATTTTGGCCTGACAAAGTACTG	11346
2375	CAGGGGATCAGGGAAGTGAGTAA	5975	GCACCTATCATCAGCTTTACAGA	8661	ACCTTTGAAAGCAGGGGATCAG	11347
2376	ACTGGTTGGTTGGCTGGTTT	5976	TCTCACCCCAATCTAAGGACACA	8662	TCTGAAACCGGCTCTTTGTAAACAG	11348
2377	GGTGAAAGTGTGGGAGGCTTT	5977	TGTTTGTGGACCATGTGGGAAT	8663	GTTCAGACTACGGTGAAAGTGTG	11349
2378	CAAGACTGTTTTAGAAACGGGATTACA	5978	ACAGAAATATCTTGTCTTCAGAGAACT	8664	GGATTTTCCACACAAGACTGTTTAGA	11350
2379	AAAAGATCTGTCTATCAGTACCAAGGT	5979	CACACATGCCTCATTACCATTAAACATC	8665	CTCCAGGTATCAGAGAGGCTTCA	11351
2380	TGGTAATGAAGGTTATCTTAACAGTTCA	5980	CCACTGATTCAAGGACTTTTGCGTAGA	8666	ACCGGCTGTTTTGAGAGACAGT	11352
2381	CCCTGACAATGTTATCTTCTCAAGCA	5981	GGGCAAGTAGTCAACGTTACTGA	8667	CCCCCTAGTACCCTGACAATGTATTCA	11353
2382	GCAGGTAGGCTTTGAGGTGTGAAT	5982	CCAAGCAAGTTCTATGACTGTGAAC	8668	GGCAGCAGGTAGGCTTTGA	11354
2383	GGAGTGGGAGGTGTGTGAAT	5983	TTCCCCACGTTGGTTCCTTTT	8669	GGCTTGCTAAGTCAAGTTAAGAAACG	11355
2384	TGAGCTGATGGGTGCCTAGTA	5984	GAGGGTAGGGGCATTATCTTCAG	8670	TGTCAAAGCTGGGGCTAGATGA	11356
2385	GGCTCGTTCGCCCCATTG	5985	TGGGATCGAGCCAGCTATTATACG	8671	CGCCTTTGCTGAGCTTTTGCTT	11357
2386	TCTGTTAAAAATCTGCATGTTGGATCA	5986	CTGCAGTTTGACCCCTTCTACCA	8672	GCTGGCCTTGGGTTTCTGTTAA	11358
2387	CCCGATGGTTTCCTTTGCTCTT	5987	AGCTCTGGGCTCAGGAAGT	8673	TCACGTCCCGATGGTTTCCT	11359
2388	CTGGCATGAATGTCACTCAGGTT	5988	CCTCTCACAGTTAGTGTACACCTT	8674	GTGTTTCACTGGCATGAATGTCA	11360
2389	GTGAGACCATCAAAAAGAAAGGAGTG	5989	GACTGAGTCACAACTAATGTTGACTT	8675	TGTCCCTGGGAGACCATCAAAA	11361
2390	CTGCCTATTGTTGCCATCAACTTG	5990	CAGCACTGCTTGGCATGAAC	8676	AGGAGCCATCTGCCTATTGTTG	11362
2391	GGCAAGAAATGACTTCCAATGACATTGTA	5991	AGGGGAAGGGGAGCTATACCTA	8677	CTTTTTGGCAAGAAATGACTTCCAATG	11363
2392	TGCGAGAGTATAGGTTACAGGATTTG	5992	TGCTTGCCGGCTTAAGTGTCT	8678	CACCAAACTGCGAGAGTATAGGT	11364
2393	TGTTGGAGGTTGTCTGAGATCAC	5993	GAGTAATTCAGCCATCTGCTCTAG	8679	CGGGTGAGGGAAGACTCCTT	11365
2394	GAGCCCGAGTTACTCGTTTAATAGT	5994	CAACTTCTTGCCCTGTGTTTCGT	8680	ACGTTGAGCCCGAGTTACTG	11366
2395	AGGATGTCTGTTGGGTCCCTTA	5995	GAGTCTGTAAAAATGGCTCAGAAAATTTCC	8681	GAGCAACATGAGGATGTCTGTTG	11367
2396	GGGAGTAGCATCTTCTTTCAGGAT	5996	TGCACAGACAGAGGCCAAATTC	8682	AGGCTGAGAGGGAAGTATGATCTT	11368
2397	CATGGACAAAAGCTTAGTGAAGTATT	5997	GTGATTCTCATTTGCACATCTTTCTCT	8683	GTGAAATCATGGACAAAAGCTTGATG	11369
2398	GTTCAAGTAAGTCAAAATGGGTCTGA	5998	CAGACTTCCACTTGCTCTAAGTAAGG	8684	TCCTCCTTTGTTCAAGTAAAGTCAAA	11370
2399	GCCTTGGCAGGTGTGAATGTGAT	5999	TGGGACATGGTTGTGACAAGGA	8685	CACCAAGGCCACCACACA	11371
2400	GTTCTTCCAGGCCACCGTTGT	6000	TACTTGGTCCCAGACAAACATC	8686	TCAGGGCTGCAAGTTCTTCCA	11372
2401	CTCTGAACCTCCCTGAGACAGA	6001	ATGGCAACCCACTCCTCCCTT	8687	CTGGAGTCTTGGGCCATCAG	11373
2402	TGGGACCAAGCAAGGCATT	6002	TGGGAGACACACTGTATTTCTCA	8688	TGCAGCTGGGACACAGAA	11374
2403	TGCCTGGCCGAGGGTTCA	6003	CTTTTCTGAGTGCGCGTCTCTT	8689	GCAATCCCTTGATCCTGGTTAGGA	11375
2404	CAGACCCACAATGCAGCAATTAGG	6004	TGCCTCCTCAGGGAAGCAT	8690	CTTGTTTCAAGCCACAATGCA	11376
2405	TCACCCATCAGCGTGTAGTGA	6005	GGGGAGCCAAATGTGCTCT	8691	TTTGCTGGCATCACCCTATCA	11377
2406	AGCACTGTCCAGGCCAAACAT	6006	GTGCTGCAGAGTGAGGAGATATGA	8692	GCACGATACTGCTAAGTATCTTTTTT	11378
2407	TGTGTGGGGAGAGCCTGTCTT	6007	CGCAGCTGCTGTACACTAAGC	8693	GAGGCAAGTGGCAGTGTG	11379
2408	CGGACCTTAGAGACAAGCTAGACA	6008	ACTGCAACTCCTTGAGGTCAAG	8694	GCCCTCGGACCTTAGAGACA	11380
2409	CCCATTTGTTCTCAGAAAGCAAGT	6009	TCCTTGACCTGGGGATGATGGA	8695	CCATTTGAGCCCAATTTGTTCTCAGA	11381
2410	CTGGCCTTGGATGTCTTCAGT	6010	AAGAGCCAAGCTTGTCAACCA	8696	TGTGCAAACTCTGGCCTTGGAT	11382
2411	TGGAGTCTTCCAGTCTGTGA	6011	CATGGACCCAAGACCTAGATTCT	8697	GGACACAGATGTAGCAATGGAGTCTTC	11383
2412	GAGTTGGAATGGGGTAGGTAAGTCTT	6012	GTGCCATCTAGGGACCTAGGAA	8698	AGTGACAGCAGAGTTGGAATGG	11384
2413	CCTTTCAAGTTCAGAGCAAGCA	6013	AGAAGAGGCAAGTGAAGAACCTAACT	8699	TGTTTGCAATGATCTCTCTTTCACT	11385
2414	GCTGAGCACACCTGAGAACATA	6014	CCTAGGTCGCTTTAAGTCACAAGC	8700	GCTGCAACCAGGAAACAACCT	11386
2415	TGTGTGCAAAAGCAGGAGACA	6015	AGTGAAGGCACAGTTTATCCAGTT	8701	GCTAGGTGTGGTGTCTTGTATAGTT	11387
2416	GACTCAGTACCCAGTTCTTTTCCA	6016	TCTCTGGGCTTAAAGGGAAAGC	8702	GAAAAATTTGAAAGCACTTTTCCACTCT	11388
2417	AGGATGCCTCGGCTAAAGAAGA	6017	GGGAAGTGGGCATAACCTTGT	8703	CCTCAGTAGTCATCCCTTTGAGGAT	11389
2418	TGGTACCCCTAATGACTGTGAGAA	6018	GCAGCAAAAATGGTCTCATCCT	8704	CCCTCTTCCATATTGGTACCCTTAA	11390
2419	GTTCTCTGTCCAGATCTTGTGT	6019	CCAACCTCCAGTAAAGCATCAACTC	8705	AGTTAGGGCTGGTGAGAAAGGT	11391
2420	CAAGGATAGTGGTTCAACACTAGTGA	6020	ACCCAGCACTGACCTTCTTAAT	8706	CAGTGGTCAAGGATAGTGTTCA	11392
2421	GGGACAGGTGAGGCTTCT	6021	CCTCTTGTCTTCCCACTGCTTTT	8707	AGGAAGGAAGCCAGCCTTTG	11393
2422	ATGGAACAATGAAACGATGATGAACA	6022	GGGAAAACAGACTCTGCCTTGA	8708	GACAATGACCATGTCTGATTATCTTG	11394
2423	ACAGTGCAGCCACCCCAT	6023	GTAAGCTTCAGTCAATCAGTGTGATT	8709	CAGGAAGTGACCCAGTTTGG	11395
2424	CAGAAGTGTGGAACCACTACTTTG	6024	TGGAGATTGTTGGTGCAGAGA	8710	ATGACTACTGTAAGCCAGCACTG	11396
2425	AGGAACAGAGCGGCAGAGA	6025	TGACACCTGTCTGTCTGA	8711	CACAAGTGGCTAATGTCAAGAG	11397
2426	ACAACACAGATCTACCACCAACAG	6026	GTTTCTGAAGGGCATATGGCTTCA	8712	AGATTTCATCTCACACACAGATCTAC	11398
2427	GTGGTGTATCTGGGCATTGATTCT	6027	CAGCAACCCCCAACCATGATAAA	8713	CCTTCATGGCTTTAATGAGAGAACATT	11399
2428	GAGATCTCCTTTCAGCTCCTAATGG	6028	GGGGCCATGTGAGAGAAGAAATGT	8714	TCCCTTGATGGCTGTCTATCTGA	11400
2429	CCAGCCACCAAGTAGCAATATTGTG	6029	TCCCACCATGAACTCTGTCTA	8715	ATAGCCAGCCACCAAGTATGA	11401
2430	TCACCAGCAGAGATCCTTCACT	6030	TCCTGCTACAAGTCTCAGATGGT	8716	AGCTGAGCTGCAGGGAACCA	11402
2431	TGGGTCTGCTTCTGGGAACTG	6031	GCACCTTAATGTCCAGACATACA	8717	GCCTCATTTGGGTCCTCAGTGT	11403
2432	TCGTCCCTACATTTGAGGGCTCTA	6032	TTCAACAGCAGCGTGATCCTAA	8718	CACCTGGGATGACATAGTGAAACC	11404
2433	TCCAGGCTTTGGGTGTTCAAT	6033	ATGTGCTGGTCTTGAGGCTT	8719	AACTACTTGTCCAGGGCTTTGG	11405
2434	ATGGCTCACCTCTTCTCCAATG	6034	ACCCTCTCAGCACAAGCA	8720	CAGCCCAGTACAGACAGCTTTATG	11406
2435	CAGGAATTGATTCTCGGATTGCATT	6035	GCCCCCTTCTTCTTAGGATAGGT	8721	GGGCTTATCTTGCACCTTAGAT	11407
2436	AGGCCATCTCTCACTAGAC	6036	CCAATGGGGCAGCAAGACA	8722	ACTGGGGAACATCTGTCTTTAGG	11408
2437	TGAGAACTGGAGTGTGCAAGCA	6037	CTGCTGACACCAACCAAGTTG	8723	GCCTTCCACTCTCAACTTCAGATG	11409
2438	CTGGCCCAAGTAAATGCCATAAA	6038	TGAGTCCAGGCTAGACTCTCT	8724	TCCCTCTGGCCAGGTAAT	11410

2439	GACACCCCTCTCACTTGTAAATGATAC	6039	TCCTCCAACCTGTCTTTGAAC	8725	TCAAGACACCCCTCTCACTTGT	11411
2440	CCTTTCAGCCAGCATCTGT	6040	CAGAGAAGGCATTGACAGTGGAT	8726	TTCTAGCTTCTCCCTTTCA	11412
2441	GGTCAGGAACATGCATGAGCCATA	6041	GCCCTGCTGAAAATTCTGGTT	8727	CCTCCCTCACATTTCTGTCTTC	11413
2442	GGGAAATGGTGAGACTCAGTGAT	6042	AGCCCTGCTTCTCTACATA	8728	AGACACTGGGGAGAGGGAAT	11414
2443	TTATGCTAGATTGCAAAACCAAGAG	6043	GAGTGCAGGTGTCTGGAAGATC	8729	GCCTGCTTTATGCTAGATTGCAA	11415
2444	AGCACCTAGGAGGAGAGATGTG	6044	CTGAGTCTATCTGTCTCTGGACAT	8730	TGCTGTGTGTGAGAGCACCTA	11416
2445	CCAAGGACAGAGGGTGAGGTAT	6045	AGCCTTGAGGTTAAAGGTCTATCTC	8731	ACGTGGAGGCCAAGGACAGA	11417
2446	AGCATGGACAACCTGCATTTTTTC	6046	GGGTTGATGCATATGCCCTTAAAC	8732	TGGCAGAAGCATGGACAACCT	11418
2447	GGGAAGAAGACAGCAATGGTAAGC	6047	TTGCAAAACATGCTCTATTGAGTT	8733	TGAGACAAGGGAAGGGAAGAAG	11419
2448	TGTCTACCTGCCTTAGTATTTTGC	6048	GCAAGGAGAAACAGTGCACAAG	8734	CAACAAGCAAACAAATCCACGTT	11420
2449	GCACTGAGTTCAATGCCAATTCC	6049	GCACTTGTGGGAGAGAGAACACAA	8735	CAAGGCAGCACTGAGTTCAATG	11421
2450	ACCTGTCTAGGGGTAGGCTATCT	6050	CTCTGAACCTGTAACTACAGCAA	8736	GGTTTTCAAGTGTGAGGTTTTACATACC	11422
2451	TCGGCTGTTAGCAACTCTGTTAGC	6051	CTGTGTTGTTCCGAGAAAGACAAAC	8737	CAGCTCGCTGTTAGCAACT	11423
2452	GGGCTCAGAACCTTAACCTCACATCT	6052	GAAAACCTCAGCCAAAGCCATCT	8738	GCGGGATCAGGTGTGAAGGATTTT	11424
2453	GCTGGATATCTATGGATGGCTGCAT	6053	GCCAGATTCTTGACAGAACAGAA	8739	GTCGGTTCAGCTGGATATCTATGG	11425
2454	TCCCTTGGGATGACTTTCTG	6054	TGGCCTTATACTGGCTCCTGTT	8740	TCTAGGGGGAGCCACTAGGA	11426
2455	GTGAACAGTATCCCAAGCAGTTC	6055	AGTCAACCTCTTACTTCCAAAGCA	8741	CAGCATCTGAAAGTGAACAGTATCC	11427
2456	TGGGTAGGAGTTAGGCAGAGAGT	6056	AGAGGATTTCTCTCCCACTTTTCT	8742	CCTGCTTCATACAGGTAATGAAGGA	11428
2457	GCTGGCTTTTGGGACTGTTA	6057	GCAACCAGCCTAGAATCAATCCA	8743	GTGGTCTGATTACTACAAGCATGATT	11429
2458	AGGAAGGCTGCTGTTCCATGAA	6058	GCTTGCACTATAGGTAAGGCAAAATCT	8744	GGCAGGCACCTCTATTCATCTATAGG	11430
2459	GGCTATCATGGTGGCTAGATTTAC	6059	CTGGGAACATGACTGCTTAGGAAA	8745	GTGTTGAGAAAAATACAGGCTATCATGGT	11431
2460	TGGATCTGGGATGGGCAACA	6060	ACACCTGTGGAGATGTTCCA	8746	CGCTGCAGTGTGTTATTTCTACAGT	11432
2461	GTCCTGGAGCTGCTATATGCTAGA	6061	CAAGTGAACCCTAAGCTCTTCTTG	8747	AAATGATTGCTCTGGAGCTGCTA	11433
2462	GCTGATTCTGCCATATCCTGTGA	6062	ATGCAAAGCCACACAGTAGTTTATAC	8748	ACAGTCTTCGTACACTGATTTCA	11434
2463	CACCTGCTTGAAGGTTAGAAGGAAGTAG	6063	GGAACAGAAGCTGGTTTGCTTT	8749	GGAACATTCAGTCTTTGAAGGTTAG	11435
2464	ACCAACTCATGCCGCTTCA	6064	ATGCAGACTCACAGTCTAATTGGA	8750	AGCAAATCAGTGACACCAACTCA	11436
2465	GACTTGCTTAGGAATTGCTGTCTTT	6065	CCCTGGAGCTCTAAGTAACTTGAAG	8751	CCAGCTCAGCACTATGACTTGCTT	11437
2466	CAACAGATGTTTGGTGTGATTAGCA	6066	GACTTCAAAGCTGGTTCATTCAA	8752	GTTTCTGTGAGTGTGTTGTGGGTTTA	11438
2467	GAGTTTTGTCTACCTCCAGGAA	6067	CTTACCTTTCACTTGCTTGCA	8753	AGCGCTTTGCCTGAGTTTTTG	11439
2468	CAGTCACACAGAGCTAAATGGA	6068	GGTCTGACAGAGTCAATTGCTCT	8754	GCCAGTCACTCTGAAATGCTT	11440
2469	CTGCTTCACTCTCTATTAGCA	6069	TCTCAGTTTCGACGCTAAGATC	8755	GGGTCAAGACAATATCTGCTTTCAC	11441
2470	AGGACCAGGTAATTTTCTCAAGTCA	6070	AGACACCTGGGACCAGAA	8756	TCTGCAAGGACCAGGTAATTTTCT	11442
2471	GAGCTGAGATCAGGATGGCATT	6071	CAGAATGGCTGACTTGCATGAG	8757	CAAGACCCAGAGCTGAGATCAG	11443
2472	CTTGGGGAACCTTGTCTCTCTAA	6072	CAGTATGACTGATCACAAGACCAAGT	8758	TCTCAACTTGGGGAACTTTGCT	11444
2473	TGGATGGTGCCCTTTCAAAAAC	6073	CGATACTGCAAGGCAAGTCTATG	8759	TGAGCTTGGTGTGCTGCTTT	11445
2474	GTTGCATTGAATTAAGGGGAGAACAC	6074	TTGTTCTGTGGGTGTGAGCTA	8760	AGCAGGTGAGTAGGAGCAAAGTTG	11446
2475	TCACAGGGTATTATGTATGGAAGCA	6075	TGTGCCAGTCTCTCCCTTAT	8761	GCTAGCAGACTAATACAGTTACCCAAAT	11447
2476	AGTGGGGTTAGGGAAAGAACTACT	6076	AGTTCAAACACACAAGTGCTAACC	8762	AGCTGGGAGTGGGGTTAGG	11448
2477	TCAACAGTGCCCGCAATAT	6077	GTTCTGTGTTATTACGACAGCTT	8763	AGGGATCTGTGTGCTGTGTTCA	11449
2478	GTGCTATTGGGATGGCATGGA	6078	GCTCTGTGCAACCCAAAAG	8764	GGGAACAACTTGGTGCTATTGG	11450
2479	GAAGAGAGTTTTCCAGTTCAGTTTAAAG	6079	GTGTTGTGGCCATGTGTCAA	8765	GGGATTCAATGTATGAAGAGAGTTTT	11451
2480	AGTAGAGTGAAATTTGTATTCTCTCAT	6080	AAGAGCACCTCCAGGTTCA	8766	GACAGGCACCCCTTTTATCTATAGG	11452
2481	CTGAGCTCTCTCTGGAATTAACC	6081	AGCTCTAGATGAGGCTGAGACTAA	8767	ACCGACTAATTGAACATGTTATAGGAGAT	11453
2482	TGAGCCCAACAGTAAGCAAAA	6082	CCTTCATCTCTGTGCCATCTTACT	8768	AGGGAAAGGAGTCAGCGATGA	11454
2483	ATCACCTCTTTGAAAGTAACTACCT	6083	ACCTCCAGGACAGAAGTACAATCT	8769	GCTCACAGCTTAGACACTCTCAA	11455
2484	GAAGGGTACTGCATGTACAGGAA	6084	GCCCTTTCCCGTGATTCTT	8770	TGAGCACGCATACAACCTTCT	11456
2485	GCCTCTGCCTAGTGTGCAATAATC	6085	AGGTGGAGGAGTCAGATGGATGTA	8771	GCAGCCTCTGCTAGTGTGT	11457
2486	GCAGCCATCTGAACTTTTGATTACAG	6086	GGTTAGAGAAAAACCCACCCATTGT	8772	GACTAACAAGCAGCCATCTGAAC	11458
2487	CTGGAGACTGCCTAAGACTACCAA	6087	CAGTGTGACAGCAACTCTTTCC	8773	GTCTCAAGCACAGAGATATGCAGAT	11459
2488	GCGGCCATTAGGAAGTGATGAA	6088	CCCCAATCCAATCCCTGAAGAC	8774	AAGAGGTGCGGCCATTAGGAA	11460
2489	ACCTCCAAGGTCCCAGCATT	6089	GGGTGATGTCCCTTCAGGAAGAAA	8775	TCTCTTCACTGTCAGATAAAATCCAAA	11461
2490	GACTGAAACAGCCTCATTGTCT	6090	TGGCGGTGACATCAACAAT	8776	ATCGAGAAAAATGATGAGACTGAAAC	11462
2491	TCCTTGACAGAGGCTGGTATAGG	6091	AGGCACCCCTCCTCTTATC	8777	GGTTGGGTTTACTTCTGGACAGA	11463
2492	CCCCTCTCGTTTATGATAGACAA	6092	GAGCAGAGGAGTGGTTTTAAGAGT	8778	ACCATCCCTCTCTGGTTTCT	11464
2493	ACAGTGGCCAAAGCTTCTCTACT	6093	AAGGTCCACCCACCTTTGC	8779	GAATGCACAGTGGCCAAAGC	11465
2494	TGCAGTAGCCACCAAGTCAACA	6094	CTAGCTACTAAGTACTTTCAAGGACTCTAC	8780	GGACGGTAATCTGTGTGAGAACAA	11466
2495	GCCAGATTTTCACTGCAATGAA	6095	GCCTTGGAAGGTTTCTGGGACATAG	8781	GATCAGAATGACAATAGCCAGATTTTC	11467
2496	AGGGCTTCAGGTGAAGGTTACA	6096	ACACAGAGGTAGAAGTGGACTTAGA	8782	GGGAGATTTCCAGCACTAAAATTGAAA	11468
2497	GGAATGGCTGTAAGAGTAAAGGAAAAAC	6097	ACCTGGCTCCCTGGATACCA	8783	GGGACTCAGGAATGCTGTAAAAAGT	11469
2498	TCCTGCTAAGAGTGGGAATCCA	6098	TGTGTCTGCACCTTCTCTATCG	8784	CAGTCTCACTTGATCTGCTAAGAG	11470
2499	ATATGTGAAATCCTGTGCTGAAGTTTT	6099	GCTGGATTGAAGAGAGATGACA	8785	GCCAGCGTATGCCAGTGT	11471
2500	AGGGCTGCCATTTCTGGTTGT	6100	TGTTTGCAGCCAATAACTTATGTAGTG	8786	AAGTCAGGTAGGGCTGCCATTT	11472
2501	GGCTGACACTGTGTACATGAA	6101	CAGTAGGGTGAGCCAAGATACCAT	8787	TTTTACTAAGGGCTGACACTGTGT	11473
2502	GGCATCCTTCAATCCAGTCAACAAC	6102	AAAACCAAGTGGACACCTGTGAT	8788	TTAGTATCTTAGGCATCCTTCAATCC	11474
2503	GGAAGTCAAGTGAAGTGAAGCAACG	6103	TGGGTAGCTCTAACAGCAGTT	8789	GCCATAAAAACTCCAGGACTCA	11475
2504	GGACTATGCTCTGTACCAAGATGTG	6104	GGCATCTAGAATGGATTGGTCACA	8790	GGTTACTGAATGGACTATGCTGTAC	11476

2505	CCACATTTTCCATCTGCTCCTGGAA	6105	CCTTGGCCAGAACTCAACCAA	8791	GAGCCTGACCACATTTTCCATCT	11477
2506	ACTCAAGGCCATAGACCCTTTCA	6106	GGCAGCTGAAACTGTAGCTGTAAG	8792	GGGTTGACAACTGACTGCATGCT	11478
2507	TGTGGAATAAGGGAGGGATTAAAG	6107	CTGGCCTGGAAAGATTGACCTT	8793	GTCCTGAGATATTCACCTCCCTCTACA	11479
2508	TCAGATGGACTGCCAAGGTCAA	6108	CATAAAGTACATTCCATGGTGGCATATT	8794	CCCTGTTGGATTGACGATGGAA	11480
2509	GCCTCATCTCATGGGCAAGAC	6109	CCTTGGGCTGGCTTTTGGGA	8795	GTTGAGATTGAATTTGCCTCATCTCA	11481
2510	CTAAACCTAGGACTCAACAGTCGTT	6110	GGGTGGCAGAGTTTCAAGATAGA	8796	GGAACTGGGTAAATTTCAAACCTAGGA	11482
2511	GTTGTATCAGTGGAGGGAAAGTCT	6111	CACACATGCCTTCCATCCATCT	8797	CAGGTGGTGCACCTCTCCTTATG	11483
2512	TCTTTGCTATTTGGGCTAGTTATTCCA	6112	GGTCACCTTGGATACTCTGAAACC	8798	AATGGAGCTCCCAGGGAAGG	11484
2513	AACTAAGAGACTTGGCTTTCAAATCG	6113	CCGTGATCACACAGCTGGTTTA	8799	AGGACTTCTTTTGGAGAAGTAACCATATT	11485
2514	TCCAGGAGTCAGGGAGTCACA	6114	CCTGGCAAGGAAAGCTTCTTTACA	8800	ACTGGATGTCTCTCCAGGAGTCA	11486
2515	TGGGTAACACCTACTACTTTCAAG	6115	TGTAGTGTCTGGGCCAAATCAG	8801	TGGGAAAGTACAATTGGGTAACCTACAC	11487
2516	GTATAAGGCATGCTTAGCCATTGC	6116	CTCTATCTGTCTCGCTTCAGATTCT	8802	GTTTTGCTGTAGTATAAGGCATGCT	11488
2517	ACAGAAATTGGGAAGCAGGAA	6117	ACCTTTGTCTCTCACTCCCTTT	8803	GTGTGCACTTATCTCGGTTCTG	11489
2518	GCAGACCTATGCTTGGCAAAGCTTT	6118	CAACTGGCACAATGAGGCATT	8804	GACTTCTGAGTACCACTATTTGGATTAT	11490
2519	TTCTGGCTCCTGCTAAGTTGGA	6119	GAAAATTACTTGGAACTGTAAAGGGCATT	8805	GACAAACCCACTGACCTTTTCAAG	11491
2520	GGTTGTCAAAAGTCAGGATGATAAG	6120	CCAAACCTCTCTCCCTTTTGT	8806	GGTCACATGCTCTATGGTTCCA	11492
2521	CTTGCTGTTTCTAAGTCTGTAAG	6121	TCATAGCTGTGGAAGTTGTAGCAA	8807	CCGGCTCTGCTGTTCTGTTCAAGG	11493
2522	GGAACACAATGGAGGTGAGGTT	6122	GGCACTCAAAACCACAGGAAATAC	8808	TCTAGGCACTGTTTAGGGATAGTAAAAG	11494
2523	CTCCGAATGGATCAAAGCTTACTG	6123	AGTTTTGCCCCAGGGATACAG	8809	TCTGGCTCCCGAATGGATCAAAA	11495
2524	GGGAAAAACATTTCTCTGTGCTCATTTT	6124	GCAAAGTACCTTACCTAACCAACA	8810	CCTCTCCCAATTTACAGAGTAGTT	11496
2525	CCTCAATTTAGGCCATAGCTT	6125	TCCCTTCTGCGCTCAGGATATGT	8811	ACAGGATAAAGCACCCTCATCG	11497
2526	CAATTTCTGCAAAATCTGGGTCCAA	6126	GTAAGTTTGGCAAACTCTGCTAAA	8812	GCATGCTTACCCTTGAATTTCTG	11498
2527	TGGGAAGAATTCACCTCCCACT	6127	GCCACAAGGAAACAAATCTGACAACAG	8813	GGTTGGACTTGGGAAGAATTCAT	11499
2528	GGCTTTCTTATAGCCCAAGTACA	6128	CCACACCAACATAGTGCACTTGA	8814	GAAGGTGGCTTGGCTTTCTTCA	11500
2529	GCAGAGAGCCTGGAATTAACAAGACT	6129	TTTGGGAGTCTGCTTCTCTCT	8815	TGCAGCAGAGAGCCTGGAATT	11501
2530	CAGCGTTATGACTCATGCTGGAATTA	6130	CCTCGTGGAGAAAATACCTGTGTAG	8816	GCCAGCAGCGTTATGACTCAT	11502
2531	TGGTCTGGGTTTTATAGTTTTGTATTGC	6131	GTCACCTGCTATGTGTCAGAGTTTG	8817	CATTCTGTTTTGGTCTGGGTTTTATAGT	11503
2532	TGCATCTGCAGCCTTCATTCC	6132	CCCTGGAACATGTTAACAGACTTAATTAG	8818	TTAAAGTCAGCCAATTAGCAACTTTTATTG	11504
2533	ATGGCCAGCTGTTGGGTTGA	6133	ACTGTTCCAGCTCAGTTTCTTAAAC	8819	GGTTCATGTGGGTTTCATCCTT	11505
2534	TCAACTGGGCGCATAGTTCAA	6134	ATACTTATAAACCAAGCTGTCACT	8820	GGGGAGTCCATATTATCTGCAACTG	11506
2535	GTGGTCAGCAAGACAAGACCAT	6135	GTTCTTGAAGCCACATGTGGTT	8821	GAATAAACTAGGTGGTCAGCAAGAC	11507
2536	GACATGCTCACTGAGTGCCATT	6136	TGAGCTTGTGTGGAAGTGATTCA	8822	GCAAGCTATTAGCAAGGCATATTTTGC	11508
2537	AACAGGTTTCTGGCAGAGTTT	6137	GGGTCCCAATGCATACAGAAATCC	8823	GGCTGCACCTCAACACAGGTTT	11509
2538	CTCCAGGAATCAGTGATGGATGAA	6138	GTCACCTTTGACCTGTTCTTAGTGT	8824	TTGAGAAAACATCCAGGAATCAGT	11510
2539	CCCAAGGAAGATAGTCAGACTCTTCTC	6139	AGGTGTGGAACAGGTGACCAACT	8825	GCATGGCTGATTTGCAAGTTTAGCT	11511
2540	TCCAAGGAAACGTCAACAGGAA	6140	ACCCTAGGAGCAAGGCTGTGT	8826	CCACTGTGGGGTCCAAGGAA	11512
2541	ATGTGGAGGAAGGGCAAAACC	6141	ACAGCCCTGTAATACCTCTGGGTTT	8827	CGTCAACCAAAAGTTACCTCTGAGA	11513
2542	GGAGGACTGATAACAAATGCCATTTT	6142	AGACTCCAAATATCAAGCTCTCAGAAT	8828	GTAACACCTGGAGGACTGATAACAAA	11514
2543	GCAGGTTTTAGCTGATGGTCTT	6143	CTAGAAGATGAAGATCCTGAGGTTCA	8829	CCAAATCTGGATTGCAAGTTTAGCT	11515
2544	GTGGCTGCTGTTTTATGGAAGA	6144	GGTGAGTCCATCAGACATTCCTTCA	8830	TGCTGAAGTGGCTGCTGTTTTT	11516
2545	AGCAGGAAAAATGATAATTTGTAGGCAAA	6145	ACACATTCCTATCTGCTTGAGAT	8831	GTGTCATGGCCATAAGCAGGAA	11517
2546	CCAAAAAAGGTCATGGTCAGTTTGT	6146	AAAGCTGCAGCAGATGAGACA	8832	TCTTATTGATTGTGATGTGCAATG	11518
2547	GGCTCACAGAAACAGATGGTTTGG	6147	GATTCCTTATCACCACCTTTTATTCTTT	8833	AGAAGAGTCTGGCTCAGACA	11519
2548	AGCCTTGATAAAACGTCACTCCAT	6148	GCTGTACAGTCAAGGTTATCTTCTC	8834	TCATGCTGAGAAGGTGAGAATTGA	11520
2549	GGTCACCTAAACACAGCCAATCTC	6149	GCACCCATTCAATGCACACAAA	8835	AGCTAGCTCGGCCTTTCACA	11521
2550	CTGAATTGGTAAACACAATGGATGCA	6150	ACTTCTTCTGGCATGCCACTCT	8836	GCCTATTTTACAAGGCCTTGATAAAAAATC	11522
2551	TGTGTTTTATGGTTAAACAGGAAAGTAGGA	6151	GTAGGGGCTTCAGACTCATTACAC	8837	AGTTGGGTTAAACCATCTAAAACATCAAA	11523
2552	TGCTTTTGGACCTCAITCTTTTCC	6152	GGGAGATGGAGGTTGTGGGATTAA	8838	TTGTAACATGCCATTGCTTTTGGGA	11524
2553	CTTCCATTGTAGAGTGGTAGTCTAATTTTC	6153	GGCAGAGATGATTGATACGGACTAC	8839	GCTCTTGATTCCGGACATACTCT	11525
2554	CAGAAGTTTCTCTGCCATAGTCATTG	6154	GCCTACTAAGAACTGCTCTCAACT	8840	TGTAATGTAGATTACAGTCGCTGTGT	11526
2555	GCCACACCCTAAAATTCTAATAATGCA	6155	GATAGAGGAAGAAAAGTCAAGGACCAT	8841	AACATTAAATTTCTGCCACCCCTAAA	11527
2556	TCTGGTGAGTGTGCTCTCTAT	6156	CCCTCTGGAAGATGAGGTACAG	8842	ACACACAAGCAGGTTAGGTATCTG	11528
2557	CTGAGTGTGTTCAGGAATGAACATG	6157	CGACTGCATCGCTGCTGA	8843	CCTATGGTTATCTGAGTCTGTGTTTCA	11529
2558	AGCCACTTCCAAGGTGAGCTA	6158	GGAGAGGCTGTGTCTAGTAATTGAG	8844	ATGAGTCCCAGCCACTTCCAA	11530
2559	CACCAAGCAGATAGCACTAAGCAA	6159	GCAGGTATTGAATCACAGTTGTGGTT	8845	GAACTCTATACCAAGCAGATAGCA	11531
2560	CCATTGCTGCCACCATTTGCT	6160	GAAAACAATCAGGCTCTTTGTTTCT	8846	AGGATGGAGCTCCCAGAGACAA	11532
2561	GTCTTCCAACTACTGCTCTGAAAGC	6161	CAGGAGAGCTTGAGGCAGGTT	8847	GCAACTTTTTGTTCTTCCAACTACCTGAA	11533
2562	CTATGCCAGTTCTGCCTTAGG	6162	GCAGCCTAGACCATAAGGACTAC	8848	ACCCTAGTCCACTGTCTATGC	11534
2563	CATGCCCTTCTTTAAGGTGCTT	6163	ACATATGCTGCTTCTTCTGACTGAA	8849	AAGCACCCTGAAAAAGACATTTAGTC	11535
2564	GGAGAAAGCAACAAATGAATTCCTCT	6164	GTCATCAGGTTGTGCTTCTCT	8850	TCAGAAGCTGGAGAAAGCAACA	11536
2565	GTTCAAGTAATGGAAATGGTTGTCACT	6165	CTGAGGAGCTTGAGATCTTCAACT	8851	TGGCCATAGTTCTCAGAACTAACACT	11537
2566	CACCTATAAAAAATCAATCAGGGTATTCC	6166	ACACCTAGCTGCTTCTAGTCA	8852	AGGATTATACACCATCAAAAAATGTGGTTT	11538
2567	CATGGTGCCTTACTAGCTTTTAC	6167	CCAAGCTACTTGAAGACACCATACC	8853	TGAAAAGCCTATACTAAAGCATCAGTTTT	11539
2568	CCCAAAAAGAGGGAATCAGACCAT	6168	CCCACCCACAATGAGATATAAGG	8854	GAAGGCAAACTGATCTCTAGAAATTAAGG	11540
2569	GGTAATGAGAATCTCAGCTGGGACTT	6169	GCAGCTTGCTCCATCAGGTAT	8855	GAGGTTAGCTCTGGGGAATAAGGT	11541
2570	CATACAAATTTATCATGTCAACACCTA	6170	GACCTCTGAGAAACGACATCTACA	8856	GGGCAGTAACCATACAATTTATCATTGTC	11542

2571	AGAAGCCCTGGTAAAGGAAGAAG	6171	AGCATGTTTTCAAGGGGATTGAC	8857	GAAGACAGAAGCCCTGGTAAA	11543
2572	GCTCTAAGTCAAGGGAGGCTTT	6172	CCTGAACCTGGAGTTAAGGTACCA	8858	GGACTTACCAGTTCTACCAGAGAAG	11544
2573	GCAGGCATGAATTCATAGCTTCCA	6173	GGGAATCTGGTGAAGACAATGAGA	8859	TGCTGTGCAGGCATGAATTC	11545
2574	AGGGCCCTCTTCTGGTTGATA	6174	GTTTTGTGCAGACTTGCAITTTGGTT	8860	GAGCCAGGACAAAGACTTCTTTTCAG	11546
2575	GTGGGTAATGAGGTTTTGAAAACCTCT	6175	GACTCAACTCAAAGCAACCAAGGA	8861	GGTTGTGTGGGTAAATGAGGTTTTG	11547
2576	AAGCAAAGTAGTTAAGGCCAAGAAC	6176	GAGCCAGGATTTTAGATTGAGCAATC	8862	TGAGCTACAGCAAAGCAAAGTAGT	11548
2577	GAAGTGCTGGTCTGTTGTTTTGTT	6177	CCAAGTACCTGATATTGCTCCCTCTTT	8863	CTATTATTAGGAAGAAGTGCTGGTCTGT	11549
2578	AGGTTACAAGAGAAGACTTACACCTTAG	6178	TTTGGTGCTGAAACCAGGTATGA	8864	GCTACTTTCCAGGTTTACAAGAGAAGAC	11550
2579	CAGGGGGAACCTTTGAAGAGACTTC	6179	GAGTGTAAACATACTGGGACTAAGTCA	8865	GTTTAATTTTGACAGGGGGAACCTTG	11551
2580	TGACAGCACCAGTGACAGAAAT	6180	CTGATTCACTGTGTCGAAACCATAG	8866	CCGTGCAACAAAGCTGATTACA	11552
2581	TCAAAATCTACTCATATGTCAGTTGGA	6181	CAGTTCAAACCTGTGTTGGCTGAA	8867	TGTCAGATTCTGGCATTCAAATCC	11553
2582	GGGCTACAAATCAAGGTTAATTCACCTTC	6182	TGCTGCAGGGTGGTAGAGTGA	8868	AGTGGTCACATTGGGCTACAAA	11554
2583	CTATTATTTACAGCACCTTTTGATGAC	6183	GTGCAAGACTGTTGTTGGGAAAAG	8869	GCTCTTATGTTTAGTGCAAGTTTGAAG	11555
2584	CTCTCCCATGACTAGGATTGTAAGG	6184	GAGACACCAGCAGTGATACACA	8870	TCAAAGCCTGTGGGATTCCAT	11556
2585	GCATCTCAGAAAGTTACCACTCCAT	6185	TGCTGATCTTCCAGCTGTTCAG	8871	GCTGCACAACTTCCAGTTTCTG	11557
2586	GCCAGGAAGTCAAACCACTTA	6186	CCCTGATCAAGTCTGACTATTCTG	8872	TGAAAGCAGCCAGGAAGTCAA	11558
2587	GACAAGTTTTGAGTTTACCACTGCTA	6187	AGTGTCCTCCAGAGGTGAAGTACTC	8873	GAACATTCTCTCGTACAGCAAGTTGAG	11559
2588	GGGGTCATGAAGCATTGCCTTT	6188	GACAGGAAAGGTTCTAAGAAGAGAAAAG	8874	AGCTTCTAGGGGTCATGAAGCA	11560
2589	TCGTGATTATGTGAGTCAGCAATTTG	6189	AAGAGACCAGGAGGACCCTAG	8875	CAGCTATGCTGTGCACAAAAAAC	11561
2590	GGAGTCTCCATTTCAAACCATTTTCAG	6190	AGGTCCCAAGGTGCTCTGA	8876	GCTAGGGAGTCTCCATTTCAAAC	11562
2591	CTCAATGAAAAAGAGGGGATTTTTGT	6191	CCTACCGACTGTGCTATGAGGATAAG	8877	CTGGCCACCTCAATGAAAAATGAG	11563
2592	GTGAAATATGTGCTCCCTCAAATCT	6192	CCAAAAAAGGGGACAAATATCTAGTG	8878	AGAGGTTTTCTTATTTTTGGAGGACATTT	11564
2593	CTTACCAGTGTCAAGTGAACGTA	6193	CCTCACAGCATTCTGAACAACTATGG	8879	CCCTCTCTTTACCAGTGTCAAGT	11565
2594	GGTCCTGAGGAAATGCTATATATGGAAT	6194	TGTGTTTTGTGTAGTGGGTGTT	8880	CAAGAGGTCCTGAGGAAATGCTAT	11566
2595	CACACTTGCCTATCTGATGTCA	6195	GCCCTGCAGTTGGATGTCATAT	8881	CCCCCTCCCTTTATCTTCACACTTG	11567
2596	CCACTCCCACAGGACCCTAAA	6196	AAATAGGCAGAGAATGAAGCTACCA	8882	CCTTTTAAACACCACTGTATCCCAAATT	11568
2597	CGTCTATGGAATTCGAGGGAGATCATA	6197	GGGAAGTGGTAATCTATGCCTTATT	8883	TGAGAGAAACAGCTCTATGGAATTG	11569
2598	CGGCTGTTGATCCTGACGTA	6198	ACGCACCTTAATAGTTCGTAGTTTTG	8884	TCTCCAGCGGCTGTTGAT	11570
2599	TGGGGATCATGGGGATTATGGA	6199	CAGCAAAAGGTTTCCAGAAAGA	8885	ATTCTTGGGAATCATGGGGATCATG	11571
2600	CTACTCGCTTAAATTTGATTGATTC	6200	GTAAGAACTGTGCATTTGGGAAAGG	8886	CAAGCTCTCTCGCTGCTTAAATTTGGA	11572
2601	GCCACACCCACCAAGTGTCT	6201	TGGAAGTTTTGTCCAGCAAGT	8887	ACCTCCCAACCAGAGCCTTGA	11573
2602	CACTGTCTGGAATTAATTATACCCATCCT	6202	GCCCTTTCAAATACCTGGAAGCA	8888	CAGTGTTTAGGCATTGAAGAGTTAGGT	11574
2603	GGGTCTCATCTTTGCAAGCAGATA	6203	GGAAGGGGCATGGTCATCTCATATA	8889	CTTCTGTGGGTCTCATCTTTGCA	11575
2604	CCTGAAGCCGATGACAAGACA	6204	GCTTACAAGGCCAGATAATTTAGTTGAG	8890	CTTTTTATCCCTCAAAGATAACCAAGGT	11576
2605	TCCTCTGGCCATCTCTCTAG	6205	GGGAGAACTCTCTGGGTTTGTG	8891	ACCATCACCTTGGCCTTCT	11577
2606	GCCCTCTCTACAGTAAGTGAGTTC	6206	ACGGTGATCCAGCTCTTTAAC	8892	GTGTTTGGGTCTAAGAGGATTCTTCAT	11578
2607	GGGATGAACGTGATGTTGGAGATAGC	6207	TTGCACATATGTTAAAGGGGTTTCTT	8893	CAGATCAGGGATGAACGTGATGTTG	11579
2608	ACTCCATCACTGTTACCTGTTGTG	6208	GTCAGAGCTTATTGGAGAAGAACTCAT	8894	TGTGTTTTCTACTCCATCACTGTTAC	11580
2609	CTGAGTTCAAGTGAACCTTCCCAT	6209	GAGAATCTGTGCATTTGGGAAGAA	8895	GACAAGGCAGCACTGAGTTCA	11581
2610	AACATCCATTTCTCCAGATTTATGAAC	6210	AACAACAGGCCTGCCAGAA	8896	GCTTTGTACCTTCAGATGATTACTGCT	11582
2611	CTCATGCAAGAGTTTTCTTAAAGCCTTA	6211	CAGGATTTGATGTCACCAATTATCAT	8897	GCTCCTTTTTAAATTTGACTTTGATGGATCT	11583
2612	GTCAAGTGGGTCTCTGAAACTTTTAGTG	6212	ACATGCTTTCAAGAGCCTCAGAT	8898	GTAGGTCAGTGGGTCTCTGAAAC	11584
2613	ACTGACTGAAAAATGGCTTGAAAGG	6213	CAGTCTCTCTTCTAACTGCATTCC	8899	AGAAAATACCCTACTGACTGAAAATTGG	11585
2614	GCTTCTTGCTTATACCAATGCAAGTAAGC	6214	GCAAGCCAAAAATGAAAGAGTGAATCC	8900	GCATGTTTCTGTTTTAGCTTCT	11586
2615	CAACAAAAGTGAATACTGGCACTGT	6215	TGCACTCTTTTCCAGTTGAAAAA	8901	AGCTACACCTGTATTAACCCCTTA	11587
2616	TGGTAAGGCCATGTTTCTCTGA	6216	GCCAGACACTGATGAATGTCCAT	8902	TGGTCCCTGATGACTTATTAGTTCATTT	11588
2617	CCCTCACTTAATGAATCCAAGACA	6217	TCCTACCAATGTCATCTCATCTCTA	8903	GGAGTTTAGCCCTCACTTCAATGA	11589
2618	TCCTCAGAAATGTGCCAAAACCTCT	6218	TGATGTTATCAAGTCATTCAATCCAAGTG	8904	TGCTCCACCTTCTCAGAAATGTG	11590
2619	ACAGCTATTTCACTGCCACAATTTG	6219	ATTCTCTTGGTTGAGGGACAAG	8905	GTGAGCAGGAATGTACAGCTATTTCA	11591
2620	CAGTCTGGAAGTCCGTGTTAATTG	6220	CCCAGAGACATATTCTATAGAGGAGATGAG	8906	TTGGGGTAGACAGCTCGGAAGTC	11592
2621	CATTTTTTGGTGCCAGAGAGAAG	6221	GGCTGGAGTGAGGGTTTTAGAGT	8907	CCATTGTCCTCTTTTCTCAAAGCT	11593
2622	TTATGGGGGAGGAGAAAGTGATTG	6222	AGTACTCTGCATGATCAATGAAAGGT	8908	AACCCCAAGGCTCTTGTGAGT	11594
2623	ACCATGCTCTGTGTGTGCATA	6223	CTGATTAGTGGTGAGTTTGAATACATC	8909	TGTGCTTGTAGTGCTCAACTGCTT	11595
2624	CCTGCTTGCTTGGTGATGTGTT	6224	AGGGATTCAACAATTAATCAAACATGGT	8910	ATGTTGCCCTGCTGCTTGGT	11596
2625	GCTGAGTCTGTCAATTACCCAGTA	6225	CTGAAACCTCAGTGCAAACCTGTT	8911	GTCAGAGACTTCTATTTCCTCATTTATGC	11597
2626	GGGCGATTCCAGCACTCTCT	6226	GCAGGGACACATGACCTATTGAGA	8912	TCAGAAGAGGGGCGATTCCA	11598
2627	CATTCAATAAGGGCCACTCTTTG	6227	GGTCTGGATATGTGATAGTAAAGAAAGCA	8913	GGTCTTGCACAGTTGTGACATTC	11599
2628	CTGTAACCGCATAGTATAGTTTCAAGCT	6228	GCAGAAAGAGCAAAGCCATAGC	8914	AGGTGTGTGGCTTGACTTCTG	11600
2629	TGTGTCAGGTCTCTGTGTGCT	6229	GGTGACTCTAAATTGCCAGACATG	8915	TCGCACCATCTCTCTCTGT	11601
2630	CCAAGGTTAAATGACTCACCTGAAGTC	6230	CCCTGGGTTAAATTTCTGGCTTACAC	8916	GGGAAAACCTTGCCAAGGTTAAATGACT	11602
2631	CCTGCCCTCTGTTGTGATCTTAAAG	6231	ACCTCAACCCCTCTGAGACAA	8917	TCTTTTCTGCTCTATGTTGT	11603
2632	GAGGGAGGGTAAGTTACTACAAGTCA	6232	GCCTCATGCTCGTGAAAGTATTTTTG	8918	GGAGTAATAAGTGAGGGAGGGTAAGTT	11604
2633	CCAAAAATTTCTTTGTACCAATTGGCAAA	6233	TGGTTGGATGGTCAGAGATTTGAA	8919	CCCTCATCCCAAAATTTCTTTGTACCA	11605
2634	CTCCTGATTCTATGCAAGAATTTGAG	6234	TGTGCCAAGCCTGGAACG	8920	TTATTCCACTCTGATTCTATGCAA	11606
2635	CCCTCCAGGCCTCATAAAAACTAG	6235	GGCTCTGGTTTCTATGAACCACCTT	8921	TCCTGTCTGTAGTCCCATCT	11607
2636	GGGCAATACTTCCAAGGTTATCCATA	6236	TGACAGCAGCATGGGAAATCC	8922	GGAGGAAGTGTGGGCAATACT	11608

2637	CTTGCCACTGTGAGTTCAAGTG	6237	GTGGCCTAGACAGCTCTTAAAGT	8923	CCACAAACCTTGCCACTGTGA	11609
2638	ACAACTAAATAACGACCCATTCTGTTAT	6238	TGGCGGAAAGTGTTTAGCTGAA	8924	CACCTACAGATTAACTGAAAGCTTTTGA	11610
2639	TGGAGACAAGTGGCACGTA AAA	6239	TGCAATCATGTCTTCATTGTTTCCA	8925	AATAAAAAATCCGGATGGAGACAAGTG	11611
2640	GTGTCCCTCTAAATACAACATTGCTTACC	6240	GTGATGCCCTTTATCAGCAAGACA	8926	GCTCCCTTACCTACTCAGAGATGA	11612
2641	GTGCGCCAAGTACTGAGATGAA	6241	AGGGGCGGAGAGACACAATGA	8927	CATAAATCCTGTCGCCGAAGTACT	11613
2642	AAAGCTGCCTGGGAGGAAAA	6242	CAAGTATTATTTTACCTCCAGACATCAGA	8928	AGAGCTTTAAGTGACAATGGAAG	11614
2643	CTCCTAGCAAACTGTGAGGAAA	6243	GGCAGAGATTCTGAGCCTTATTTGT	8929	GAGCATTTTACAATTCACAAAGCACAT	11615
2644	GGCATTGCTAAGAGTTGTAAGTGT	6244	AGCTCTTTTCACATGCAATAGTGATC	8930	TGATTGTGTGGCATTGCTAAGAGT	11616
2645	AACATCTGTCAGACTGTAATCAACAT	6245	TGAACATATGAAAACCATCTGAGTCAAGA	8931	ATCCCTGCTCTGCGTGCTTT	11617
2646	TCCTGCTCCACTCTCACTCTGT	6246	TGCTCTCACAGCTGAGGAAATC	8932	TGTCTGTGACAGAGTTGTTCTTCT	11618
2647	GGTTGGGTAGAATACTTTAGCTTTGATTC	6247	AATTATATGGAGGCTGCACATTATCCA	8933	CGACTTTTCTGAAAAACACCTATGG	11619
2648	GGTCAACACTCAGAATTGACCTGAT	6248	ACCAGGAAAAAGACACCCAAA	8934	TGCTCAGGGTCAACACTCAGA	11620
2649	GTGATAGATAAACCTCTTCTCATTGT	6249	GCTCTTTGGTCTCTCCTAGTCATT	8935	CTGCTTCTAAGTGATAGATAACCCCTCTC	11621
2650	ACTGGATGTCTCTCCATGCTAAA	6250	AATCTATTTCACAACTTGAGAGTTTCCAA	8936	CCAGTGAGGTTTCTACTGTAGTGTGA	11622
2651	AGAACTTTATCCAGTAGGATACACAAA	6251	TGCCTCTACCACTGCTATGATTCA	8937	GTAATATGGGTGGTCTTCTCTCACA	11623
2652	AAGCTGTAATAAACTCTGCCAGTAATG	6252	TCAGCAGTTTGATAAAAACTCAGTCTCTA	8938	CACACCAAGGTTAAATTAAGAAACCCAATA	11624
2653	GCTTTTAAAGCAGGTGTTTACCAATC	6253	CCTGATCAATTCCACCTGTTTAAATAG	8939	TGGGTGTGGCCTTTAAAGCA	11625
2654	CCTGTAGATAGACCCTAACCATGTAACC	6254	AGTCTGACCTCCCTGCTTAACC	8940	GGACCTGTAGATAGACCCTAACCA	11626
2655	CTAAGCGATAAGCGCGCAAAC	6255	AGGAGGCCCTTTCTGTGTGA	8941	TGAAAGAGCAGCCTAAGCGATAAG	11627
2656	GCGATGTGCTTTTCAGATAGATGGTATC	6256	CCCTTAATATCTTCACTTAACCCCTACAT	8942	TCCTTTGCGATGTGCTTTTCAG	11628
2657	CCATGGAACCTAAGACAGACCAACT	6257	AGCTCTGCAAAACCCATTCC	8943	GTGAGGTCTTCCATGGAACCTAAGAC	11629
2658	GTCCCTAACCTCTGCAATTTGC	6258	AGGGAAGGCTACCAGCTCTATGA	8944	CACAGGTGTTGATGTCCCTAACCT	11630
2659	AATACTTATGCAAGCTTTTCATGAAACG	6259	GACATAATCTGAACCAAGCAGGTAGT	8945	ACCTGCACACTTGTCTTTAAATGTTT	11631
2660	AGAAAGGCTGCCTGCAGATG	6260	GCAAGTTACAACCTCAGGTGCTACCA	8946	GTCACCTGAAAGTGATCCAGAAAAG	11632
2661	GGCTTTGAGTTAACCTTTGAAGTCTT	6261	TCCTTTGACACAAGAAGATGAGGTT	8947	GCAACATCTTTAGGCTTTGAGTTAAC	11633
2662	GGAAGGTTTGACCACAAATGACAATC	6262	TGTTCTTTCTTGCTTTGTTCTTGA	8948	GTGCTAAGAGGAAAGTTTGACCACAA	11634
2663	GGCTGATTACCCTGGGTAAAGGTATC	6263	GTCCAGTCTGCCATCAAAAAGAACT	8949	TGATGGAAGTGGTCAAAATGTAATCAAC	11635
2664	GCTTGAATAGTAAAGCAATCCTAATCC	6264	GACAGGCAATGTGATGCTTCCA	8950	TCTGCAGATTCAACACTATTCTCTATCA	11636
2665	CTGTGTTGTGTTTCTTTGGTTGACA	6265	TGGTGTCTTTGAGTCCATTTCTTG	8951	TCACATGCTATAGTTCATTACACAAAATC	11637
2666	GGCAGAAGAGTAATGGACTGCAT	6266	TGGCCCACTGTGACAGCTT	8952	AGCTTGAAGGTAGGAGGCAGAA	11638
2667	CTCAGTTACACAAAGGATCTTCCA	6267	CTGTTGCCATAAATCCCTTCTACATC	8953	GCCATATTCTCTCAGTTCACACAAAGG	11639
2668	GTGATTACCACACAGTTAAAGAAAGAAC	6268	ACATTTGCCTTCAGGAAGATCCTTAG	8954	CCTTTCAGGAATAAAAGTTGTGATTACCA	11640
2669	AACTGAGCTGATGGCAGTTAGG	6269	ACAAGTGGATTTCTATGTGACTCTATCA	8955	ACAGGACAGGGAGATTATTTCACTAAC	11641
2670	CTATTGGCAGGATCTTTCTGTTGTAG	6270	TGGCCTCAAAACGCACACTGT	8956	CCTGAAAAGGAAAATCTGGCCTGAT	11642
2671	TTAATCTGTCTTCACTCTGCTGACA	6271	CGGTGATCTGTACATGGCTAATC	8957	GGGATGCTAACTGCTCTTCTCTTTGG	11643
2672	GGAGGCCCTCCATTCTTTGTT	6272	GCCCATGGAGAGGCCCTATA	8958	TGCACGGAGGCCCTCCAT	11644
2673	CACAATAATAGCTTCTACTGTGCATTTT	6273	CAAGTAAGGTTTAAAGCCAGTGATCAG	8959	GCTGAACCTACAATAATAGCTTCTTACTTG	11645
2674	AGCCTTCCAGATCCCTTGT	6274	GCAGGAATGTTCAATCGCTTCT	8960	AAGCTCTGCAGCCTTCCAGAT	11646
2675	CCAGTTGACTACCATCACAGATACAAGATG	6275	GCTTTGTTACCCATATGGTCTAGTTG	8961	ATCTTTCTCTTCTCCAGTTGACTAC	11647
2676	GCATATACTGTGGTGGGTAATTGTG	6276	CAGTATTCAAGTGACTGCAGTTATACAG	8962	CCAGTTATAAGCAGATGAGGTGATTTCAT	11648
2677	CCACTAGAATACAAATCCACTTCTGACA	6277	TGTAGCCATGACTGAGGCCTAT	8963	CCCAGGAAGCCACTAGAATACAAATCC	11649
2678	AGGGTGACATGCTTACAGATC	6278	ACTGATTACTGAATACTGGCCTTAATCT	8964	ACCATAATGGCAGGGTGACATG	11650
2679	AGGTTAGTAGTCAAGGCCTATGTTTTAC	6279	AGGAAGGGATATGAAACATGGCTTAA	8965	CTCCAAAGCTTGTTCACTTCTACT	11651
2680	GCAACCTATAGCAGCCTGGATT	6280	CAGGGTCCAATATGGCCAACA	8966	GCTTGCCCTTTTCTGTTCAATTG	11652
2681	AAAGGCCCCAAACCTTTGCT	6281	CCAACATATGGTTTCAGAAAGCACAAA	8967	TGGTGAATAAATACACGGAATTTCTAAAGT	11653
2682	CCCTCATTTCTATGGTATTGATCCACAA	6282	ACATGTTGGTGGGCACAGAA	8968	TCTGTCTACCTCATTCTATGGTATTGA	11654
2683	GGGGATCACAAAAGTGTCACTTG	6283	CCCTGGCCATCAAGGAGCTA	8969	ACCTACTGGGGATCACAAAAGT	11655
2684	GCATTATTCGGATACTACAACAGACGAA	6284	GGATATTGGCCTGTAGTTTTCTCTCCTT	8970	TCCAGGACCTGATGACTTCACT	11656
2685	TGAAAGACAATTTGCCGGTATGTTAC	6285	GCAATTGCTGGACCATATAATGAGACAA	8971	GCATAATGTTGTAGGCATTTGAAAGA	11657
2686	CCTGAGGTCCCATGAAGAGCTATAA	6286	GGCAGAGTGATCATTGATTGATAACCA	8972	AACACCCATTAACTCTCATGTTTTCC	11658

FIG. 36

Target		SEQ ID		SEQ ID		SEQ ID
No.	Pool A Sequence (5' to 3')	NO.	Pool B Sequence (5' to 3')	NO.	Pool C Sequence (5' to 3')	NO.
1	GGCACAACTTTGGGAGACAAA	11659	CTCACTAACTTTTCCCGAGAACTCA	22643	GCTTAAGCCACAGAAAGGCACAAAC	33627
2	CCTGGAACCTGAAAGCTTGCAAAAAG	11660	CCTCTGAAGGGAGACTGAAACAAC	22644	CGAGTGCCCTGGAACCTGAAA	33628
3	ACAGGGTGCTCTCTCTTGA	11661	GCAAGAATGCTTGCTGCTGCAA	22645	AGCCACCACTCTGCTCTTGA	33629
4	GGAAGCAAAACAGGTAGAGCCTGGTA	11662	GTGGCATTCTACTGCCCTTTG	22646	TTGGGGACCCCTGGACTAAG	33630
5	CTACAACAACAGAGCTCCAGGAT	11663	GCAGCTTGTTCAATTGTGGTTCA	22647	CCTCCCCAGTATCTTACCACTACAAC	33631
6	TGTCCCTGGTCTGATGTGAGAGA	11664	GTGAGGATGAGTTTTAGTGCTATC	22648	CACCAAGCCCTCAACTCTTAAA	33632
7	GCAGGAAGTGCCTTGCTTT	11665	CCCTGGACAAAATGTAACAGCCAAAGT	22649	GAAGTGAAAGCAAATGGCAGGAACT	33633
8	AGGTTTCGGCTTTAGTTGTGTGA	11666	ACCTAGCTATCCTTCCAGCATTTT	22650	GCTGGTATTGTTTTGGGGATAGAGGTT	33634
9	TGTCGTCTTCTGCGGGCATTC	11667	GCTGGACAAACTACTGCCTCTTC	22651	GTGGAGGAAATTAGATGTCTGCTTCT	33635
10	GTCCTCACACCTTTCTACCAGAAG	11668	GCCAATAGCTGCTTGATGCAAT	22652	GGGCAAGTCCCTCACACCTTT	33636
11	GGCTGCAGGAGTAGAGTCTAAATG	11669	TAGTTGCCCGGATTCCCAAGA	22653	TGAGTCTGGCTGCAGGAGTA	33637
12	GGCAAGAAGAAAACTGGAGCCAAGA	11670	GGGAGAGGCTGGTCTGAGT	22654	CTGAAGCCCAAGTGGAAGAAG	33638
13	GAGCCTGAGTTCTTGATCACTACA	11671	GTTTGTGAAAGGTCAATGTGAGGAA	22655	AAGTCTCTGAGCCTGAGTTCTTG	33639
14	CCTGGAAGGAGCCCGGTAGA	11672	TCCTCGGGAGCTCACAACTT	22656	TCTCAGGGTGCTGGAAAAAG	33640
15	GCAATGGTCCAGTGAGAGTT	11673	TCCCAGTATGCCAGACCA	22657	GCACTGCAAAAGAAGAGGCTATTG	33641
16	GCCCTTTGGAACCTGACCAA	11674	CCGAGCTTAAGCAAAATAGGGCAAGTA	22658	TGGGAACCAAGCCCTTTGGAA	33642
17	GGCCTTGATTGACCTTCTTTT	11675	TGGCCAGTAGTAAGTTGAGAAGACTA	22659	GGCTTCACTATCAAGAAGGGCCTTGATT	33643
18	CCACCCGCTTCTGAAACACATC	11676	CGGAAGCTTACGTTCTGT	22660	AAGAGGCCACCCGCTTCT	33644
19	TGGCGCTAAAGCCCAACA	11677	GGAGGGAGAGCTCCATCTCTGA	22661	TGGAGCAGGCTGGCGCTAA	33645
20	CCTTCCCGCTTCTGGATGAAA	11678	CGGCAATAGGACTCAGCAA	22662	CCGAAAACCTTCCCGCTTCT	33646
21	GTCAGCGTTTACGGCTATTGAGT	11679	TAGGGCAGGTGCTCTGTCAT	22663	GGAAGGGGAATTTGTCAGCGTTTA	33647
22	GCATCTCCAGTGCCCTCTGT	11680	GTGAACCAAGCTATACTACCTGCTTTT	22664	GCAGTCTCAGCCTTCTCTTGAT	33648
23	CATCTTCTAGACATGCACACAAC	11681	GGCTTCTGTGCTCATAGTTCACACT	22665	GTGGGAAGCATCTTCTAGACAT	33649
24	GTCCCAAGTCAACTGCCATCT	11682	GGGCACAGGAGGTGAAAAAGT	22666	GCCTATTTTGGAGTCCCAAGTCAA	33650
25	GCGTCAGCACAGCTAACACA	11683	CGGGAGCCGTTATACCACTTAG	22667	TGGGCCAGCTTGCGCTACT	33651
26	TCACAATGGGAGGGAACATTCAA	11684	GCTTCTATGACCAAGTCCCTTT	22668	CACCTTATTACTACCTTCTCTCACAATG	33652
27	GGTAAGGCTGGTTGTAAAGTCCACAT	11685	GTGTTGGCCAGACCCACTGT	22669	ACTGGGGTAAAGGCTGGTTGT	33653
28	CCGACTCAATGGGGAACTCTACT	11686	GGGCACTTTTGAAGTTGGGCTTTG	22670	AAGCCTCTGTGGCCGACTCAAT	33654
29	TCCTTACACCTTGGGGCGTCTA	11687	GCAGTCTGGTGCTTAATGTT	22671	AACAGGGCGTGAGTTTCTT	33655
30	GGGCATTCTAAGACACTTGGACAGT	11688	CAGACCTGGCAGGATCAGAATAGT	22672	GGAGAGGCCAGGGCACTTTCTAAG	33656
31	CACTGTATCTCAAAGGGCAAAACAA	11689	TGCAATGCAGAGGAGAAAGGTT	22673	CAGCCTGCTAGGAACACACTGTA	33657
32	ACTTGTCTCTGAGACAGTTTCA	11690	AGTCACAGGTATCTGACTCTCATA	22674	GGTGATTCTGCGCCGAACCTGTCT	33658
33	GGCCTCTTGGTGCTCTGT	11691	GGAGCAATCAGCCTTGACAGA	22675	TGGATCGGAAACACCAGACTCA	33659
34	GCTAGAGAAAACAAGACATCCAAGTTT	11692	TGGCGCCCGGAAAAACCAT	22676	CCTGAGACCGTTGTAGAGAAACAAG	33660
35	GCGGGCATAGAGAGAAGGAAAT	11693	TTCAAGAGCATCCTTGCGCTAT	22677	TGGGATGCGGGCATAGAGA	33661
36	GGCTTCAGTCCTTCACTCTTTC	11694	ACCTTGAGAAGGTGATTTGTGT	22678	TCTCCAGGCTTCACTCCTT	33662
37	TCAGAGTCTTAGGCCAGCAT	11695	AGAAAGACCCAGGTAAAGAACCAT	22679	CCAAGTTATGCTGCTGCTCAGA	33663
38	GGTTCCTCATGGAAGACTGGTTTG	11696	CACCTACACATCCACAGGAGACA	22680	GGGAACCTGGAAGACCTTTACTT	33664
39	GTTGAGAGGGAGTAAGATCAGACAA	11697	GACGCAGTATCCACAGAGCATT	22681	GGTGGGATAGTTGAGAAGGGAGTAA	33665
40	CTCCCGCTCTAAATGAATGGAT	11698	ACCAGCTCTGAGTCAGGAAGT	22682	CCTCAGCTCCCGCTCTAAA	33666
41	CATTCCCTCCCTACCTCGGAAA	11699	CCACAGTCCGACGAGTGTTTT	22683	GGATGAGCATAAGCAGTGTTCA	33667
42	GAGACTCAATCCTGGCACTTGT	11700	TCACTCCACTTTACAGGCACATATT	22684	AGGAGTGAGAAGGGAGACTCAATC	33668
43	CCGGCTGCACTTAAAGACCAT	11701	ACGAGATCAGACAAGTCACAGA	22685	TCAAGTCCCGCTGCCATT	33669
44	GATGAGGGCTGAGTATGGTCAAG	11702	CCCATGACCCAGGTTGGAATTG	22686	GACAGAGAGATGAGGGCTGAGT	33670
45	CCCTTCTCTGAACCCCTTCATT	11703	CACCTGTGTGAGTTGCTGGTT	22687	AATTGCCAGCTGTATTCTCTTCT	33671
46	GGGGCACCAAGAAAGAGACAAG	11704	GTCTGTGGAGCACACCTTGGA	22688	ACAGAGGATGGGGCACCAA	33672
47	CATCAGTACCCACATAGGTTTAACT	11705	GCCTTCCACTGAGCCATGA	22689	GCATGAGGATGGAATGGACTCATCA	33673
48	GGAGCTCAGTATGAGTAGAGGGGAAA	11706	CAGCCTGTTGGTTAGATTCTGT	22690	GACCTTCAAGGGGAGCTCAGTAT	33674
49	TTGTGCACGACGCTGGAATG	11707	CTTATGTGTGGCTTGGCTTCTTG	22691	TCTGATATGGAACCCAGGGATTGT	33675
50	TCGCTAGGCCATTCTCTCTGTT	11708	GGGGCTGAATCAGACAAGGAA	22692	TGCACCATCGCTAGGCCATT	33676
51	CACGACACCCTTAGATAATGTTGGAT	11709	CACAGCTTGAAGGCTGAA	22693	GTCACTTCAACGACACCCCTTAGA	33677
52	TGGCACAAGCCCGGTCAT	11710	CTCATGATGTCAAATGCTGCTCAA	22694	AGCTTGGAAAGCTGGACATA	33678
53	GCCTCTCTGCTATCTGAAACAA	11711	GTTCTGGTGACAGACAACCTTCT	22695	TTCCAGCTCTCTGCTATCT	33679
54	TGCAGCGATCCCTTCACTT	11712	TGAGCAGCACAGTCCAATTCT	22696	CTCAAAGGGGAAGAAGCTCAGT	33680
55	TGGTAGTCAGGCTAGTGACTT	11713	CCCTGGGAAAGTTACTGTGAT	22697	TCTGCGTCTCACTTCTGGTA	33681
56	GAGGTCTTCAAAGGCTATTGAGA	11714	GTCAGTGAGCTGCCAGTTTTC	22698	AAGGTGACAGAGGCTTCCAAAG	33682
57	CCTGAGCCTGTCACATATTTCT	11715	TCCAAATCTGAGCGCTGTCA	22699	TCCAAATCTGAGCTGTCA	33683
58	GAGAGCAACAGGCGTTGAGA	11716	GCCAACCTATAGACACAACCTTGGTTAC	22700	GGAGAAGAGTGGAGAGCAACA	33684
59	AGCCCTACAAGGTCAAGTTTTCA	11717	GTTGACTTCCGGCAGTAAGTGATGA	22701	GACTATACGATACCAATAGCCCTACAAG	33685
60	GGAGGCACTTCACTCTCTCTA	11718	ACTGGGACGTTTCTACGTTATCA	22702	GTCAAGGGAGGCACTTCA	33686
61	GTTGGGGTCAACTTTCCTGAAG	11719	GGAATCCAGCCCATCTCACATC	22703	AGAGTCTGCCCTGGAACTGAA	33687
62	GAGGTTTGGTCCATCATCAGA	11720	ACTGACCAACACACGGAAA	22704	GGAAGAGTACCCCGAAGTAGGTT	33688

63	GAGGCTCATGTCTCTTCAGCCTTAG	11721	CCTTCAAGGGCTTTCTCTCAC	22705	GGTGGTAGAGGCTCATGTCTCTT	33689
64	GTTCGTTCCCGTTATCTCTCACT	11722	ACTTCCACATGGCTTAAACAGAGA	22706	TCCCCAAATCCTTTGGCAATGT	33690
65	GGGCTGTTCTTTGTGATAGTGT	11723	TCGTGAAGAAGATGGAGAGGATTA	22707	GTGTCAAAGGGCCTGTCTCTGT	33691
66	GTTTGCTGTTACTGAATCCCGAATCT	11724	CTGGGACCAACCCATTTCACA	22708	CTCTCATCAGCTGTTTGCTGTATC	33692
67	GCACATGTAAAACTCTCCCTACTGT	11725	AAGGAAGTGGGGTATGGACTGA	22709	GACCTCTTCTCCCTGCACATGTAA	33693
68	CCTCTGGTAATAGCACCCAGGATAC	11726	TGTTGGCCACATACATTGTTCTCA	22710	CCTTCCTTGAAGTGCCTCTGGTA	33694
69	CTGAGGTCCAGAATCCAGATGTTCT	11727	CTCCTGCCTTCGGGGATGT	22711	GCTGTCACCAAGACTGAGACTGA	33695
70	GGACAACAGGATCGGGGATGA	11728	CACAGGCCAGAGATTCACCAT	22712	TGAAAGCTATTGGGACAACAGGAT	33696
71	CCATGTGTAGGAAGCCCTGTGA	11729	TGGGAAGCCTACCTTGACTCT	22713	CAGGAAGATAAGTACTGAGCCATGTGT	33697
72	GCGACCTCACTTTCCAGTCAT	11730	AAGCCCTCGAGAATCTAAAAGCAA	22714	GCACATGTCTGCGACCTCACTTT	33698
73	GTGCTATTGTGGCTCTGTAGGTTGA	11731	CGACAGGGCCTCCCAATTC	22715	CAGCAGAGCAGAGTGCTATTGT	33699
74	GTTTCAGCCTGAGAGGCAAGA	11732	AGGTAGACACCCGAAGTAATCACA	22716	GCTGTTGCACTGTGAACCTGT	33700
75	GAGATGAAGCGTGTGACCCAAGT	11733	TCAGGTAGAGGTGCCCAAGGTT	22717	GCAGCAGACAGCTGGAGATGAA	33701
76	TGCTCATCTCTGCCCCCTCTTT	11734	GGAGGCTATGAGAAGTGAGGTTTG	22718	CTCTGCTGTTCCCTCACCTGTAA	33702
77	TCTCAGTCGTTTGAAGGAAA	11735	GGGCGGTAAAGAGCTTCAGAGA	22719	TCTGGCTTCTCAGTGCCTTT	33703
78	AGGTTTCCCTGGACACACATTC	11736	TGGTCTTCTTATGCCCAACAAAC	22720	TGTCAAGGGACTAAGTTTCTAGGTTTC	33704
79	AGGAGACAGGGACAGTTTCAATG	11737	CTCACACGGGCTCACTTCT	22721	GGCTCATGCTGTGATAGGAGACA	33705
80	TGGGTGGAAACAGCTCCTTTA	11738	CTGTCTACCGATGCTCTCAA	22722	GCCGAGGAGAAATATGGTTGGAAAC	33706
81	GCCCTTAGCAACAGCTGCAT	11739	GGTCAGAAACAGAGCCTGTAAAC	22723	GCATCTGTGGTTGCCCTTAGCAA	33707
82	GCAGACACGCTCTGGCAAT	11740	CCTGAGACAGAAGCAGTAGCGTCTT	22724	GTCCATTGGGCAAGCTTCT	33708
83	GCCAAAAGTGACAGCAACACA	11741	CGCAAAATGGGCTCCTGCTT	22725	CCTGATGCTCCCTCTGCCAAAA	33709
84	GCACACATCCAATCTTTCAGTAAATC	11742	GCCGATTAGGGGTGAACCTTG	22726	GCCTCATTCTCGCACACATCCAATC	33710
85	TCCTCATCTCAAGCTCCTTCTCT	11743	GGAGGTATTCTGGCTTCCCTAAGA	22727	GCCCTTCTCTTGTGCTGAACAGT	33711
86	GGCATTTCACCCAGAATTAAC	11744	GGAAGGGTGAGTTTAGCACAATGGTT	22728	ACCTGAAGCCAGGCACCTTTC	33712
87	AAGCCACGTTGTGCTCTTG	11745	CCCACTTGCACAAATGCAAAGA	22729	TGGGAGAAAAAGCCACGTT	33713
88	CTCAGTAGGGTGAAAAGGATGGAAGT	11746	AGCTGTGGTTTTCTGTGTCA	22730	GCAAGGCTCAGTAGGGTGAAAAG	33714
89	GCTGGATCTACAGAAACAGCAAA	11747	TGTGTGTGTTTAGCAAGGGATTTC	22731	GCCAAACTGCTTCTTGCTGGATCT	33715
90	TGGCTGCAGATGCTTGTCA	11748	CGTTTGGCAACGGAGATGTGT	22732	GGAAAGGCGGTGGTAATGTGGTT	33716
91	GCCTCTCAGCCTCAGTCTCTTA	11749	TGCCCACCTTTTCTTTTGCTT	22733	TCTGACCAAGTCCGCTCTCA	33717
92	TCCTTGACTCAGCCTCTGTA	11750	GGGCTATACATTTCTGGGCTCAA	22734	CCTCACACTTCTCTGCTTGACT	33718
93	GGAGGACATGGTGTGAGGAT	11751	TACATTCCTCTCCCGCAACA	22735	CAGCTGATCTATGATTGGAGGACAT	33719
94	CTACAGTTAGAGTCACACGTACACA	11752	CAGGCAATCAGGATCAATGGACAGA	22736	GCATCTACCAATCACTACAGTTAGA	33720
95	CATGCGGAGGGACTTAGCAA	11753	GGCCCATGACTCTGCTGGAT	22737	CTCATCAGACACAGGCAGCTT	33721
96	GCTTTCAGAGTAGAGGCGTTTC	11754	GGAGGCATCTCCGGCTACA	22738	AGGGCAAAAGCTTTCAGAGTAG	33722
97	TGATGGTGCAGAATTGCTACGATA	11755	AGTGAAGGTTGGAGAATGAAAAG	22739	GCAAAAGTTTCATGGCCAAAGTGCA	33723
98	GCTGAAATGGACCACAGAGA	11756	CGAGTTGGCCTCGTCTACCAA	22740	TGCTGCCAGGCTGCTGAAAT	33724
99	TGCTCCAACGATGGCTCTTC	11757	CGTGGCAGCTGGCTTTAGAAATC	22741	TCCCAGGCACCTGCTCCAA	33725
100	AGGTGAAAGCGATGTCTGCTTAG	11758	TGGTGCGAGCCACTCTCTTATC	22742	TCACCTACCTAGGATTAAAGGTGAAAG	33726
101	GCCCTGACCTCACCATTGGAA	11759	CTCTGGCAGATGCGTTAGTTG	22743	GGACAGGTTGGTGCCAGATT	33727
102	TGGGGCAATTGCGGGTATT	11760	GGGGCTTTGGATAACACCAAGGTA	22744	AAGGAGGTCTGGGGCAAT	33728
103	GCATTACAGGAGAGTGAAGATGGAT	11761	TTGCAACCCCTCCGACATTC	22745	CTTGCCTAGGAAGGGCATTACA	33729
104	GGAGGAGAAAGGTGGTACACTTG	11762	AGGAGAAGTTTCAGGGGACCAA	22746	GTGCAAGCTGGAGAGAGAGAAA	33730
105	GGAGACAATACAGGTTGGGTGGTT	11763	AGAGCTGCTATCATGATGTGAAA	22747	GCTGGTCAATTCTGTTAAATCAAGGAGACA	33731
106	GCGGATCTTCTTACCTAGTCTGA	11764	AGGGTGAGTCTGGAAGAGGTT	22748	TGGGTGAGGGCGGATCTTC	33732
107	GGATACTGTGTAGGAAGGCAATACA	11765	CCCCACTCCCTCAAGGTATGT	22749	CCCAGAGAGGCTGGATACTGTGTA	33733
108	CAACTCCAACCCAGCCTTTTG	11766	GTCAACCTCTGAGATCACACAT	22750	CCTGTGGCTCTGAGAGAGAAATCAA	33734
109	CAGGCCAAGAATGACATACGACTT	11767	ATGACAACATCACGGACAGAGAA	22751	TGGGACACTTCAGGCCAAGA	33735
110	GGCGAAAATGAGCACTGTGGAA	11768	TGACAATGCCGAAGGATTCT	22752	GGCTAGCATTCGCGCAAAATGA	33736
111	GGAAGGCAGTACAAGAGCTTACT	11769	CTATGTTTCAGGCACACCACTTC	22753	GCTCAGATGTGTAAGGAAGGAGTACA	33737
112	GGCGATTCTGACATTTGATTGCAT	11770	CAGGCTTGTTCTGGGAAATACAA	22754	TTCCCGGTGTTCTGGCGATT	33738
113	GGGGTTTGTGTTGGGTACAGAGA	11771	GCCGAGGTTTCAAGGTCCAA	22755	GGCATGTAAGGGTGACAAAGGAGTTG	33739
114	CTGCAATATTGGCCATTTCTCTTCA	11772	TGCTCAACTCAAACAGGACACT	22756	CCCTCCAGGCTTCTCATCT	33740
115	AGTGTGCACGCCTGGTTGAA	11773	TGCGGCGATGTGGCTGTA	22757	CCTGCCTACGGTCCATAAGTGT	33741
116	CCCAGCTCCTTCACAAAGACT	11774	CAGAGGGTGGATGGATACAGTTT	22758	TCCTCAAACCCAGCTCCTT	33742
117	TGGAGCTGAGGAGGAAAGAACA	11775	CGTGGCTCTCTGCACTGAT	22759	GGCATGCTTTTCTTGTGAGTGA	33743
118	TGGGTCAATAAAGTGACTCTGTAACATC	11776	GTGCAGGCTCAAGTTGCTTCT	22760	GGATCTTCTCTGCGGTCTATAAAGT	33744
119	GCTGTGAATGTTACATGGCAGGAT	11777	GCTTGCTTGAACCGATTTTGGAT	22761	GCTTTTAAAAACCCAGCTGTGAATG	33745
120	CGTCCCTTACCGGAGCAACTTT	11778	GGCGGACCGAGTGCTTTA	22762	TCTCCCGCTCGTCCCTTA	33746
121	AGTGAGCTAGAGGCTAGGACTTAC	11779	CCTCAATTACTCCCAGATGTTTCA	22763	CTGTCGCGAGAAGCCAAAAG	33747
122	TCCTTTCTCTCATCGCCTTTG	11780	TCAGCAGGAGGAAGGATGTTTG	22764	CTGACTGCTCTTCTCTCTCA	33748
123	GGGCACAGAAGGGTGTCCAAA	11781	ACCTTCCGGCCATGTGTGAA	22765	CCTGAGCAGAGGCACAGAAAG	33749
124	GGCCCTCATTGCAGTCAGCAT	11782	CAAATCTGCTCTGTCTATGCTAGGAA	22766	AGGTTTCATGGGCGCTCATTG	33750
125	TCCTGAGATGGGAAAGAGTGAAGA	11783	AGCTCCTGACATTATGCCAAA	22767	GGGCTCCCACTTCTCTGAGAT	33751
126	GAAACTGCACAAATCTCTCTCTA	11784	GGGAAAGCCAGACATCCTCTCTA	22768	GCAGGCTCGATATCTAATCCAGAGA	33752
127	CGCCTGTGGTTGTTGATGAAAG	11785	GCCCAGGTAGAGGAACAAATCA	22769	GCAGAAATCGCCTGTGGTTGT	33753

128	TCCCCAAGAGCACAGACTCAAC	11786	GGAGAATATCAAGCTGTATGGGATT	22770	GAGAAGCTAAATGGTCCCCAAGA	33754
129	CCTCTTCGAGACCTTTGAGGAT	11787	CCAAACGAGGCCCTCTCTCTCT	22771	GGACTGAGGGGCTCTCTGGAA	33755
130	TCCACTCTACCATTTGCTGAAT	11788	GCCCAGAAGAGTGCTTGACA	22772	GCCCTGTAGTACATCCAACT	33756
131	TGAATTGTGCAGTGAAGGCTATATCT	11789	GGCAGTCTCTAACTCTGGTTTTC	22773	CCTTTCGATGAATTGTGCAGTGA	33757
132	TGTGAGTAGGATCTAGGCATGTTAGT	11790	CCAGCACATTGAGTCCAGAATCA	22774	GAGCTCTAGCTGTGAGTAGGATCT	33758
133	GGTCACACAGAGTTAATGGAGACA	11791	CAGCCAAGTGACAGCTGGAA	22775	CCTCTTTGCCAGGTACACACA	33759
134	GGACCCAAGAGGCTGAGAAAAG	11792	TCCTGGCAAATCTTGACAAAAG	22776	ACTGGGTGAATAAAGGACCCAAGA	33760
135	CTCGTGGGTGTGATGGAACAGA	11793	GTGGGATTACATTACAGATGCAGAA	22777	AGAGGCTCGTGGGTGTGA	33761
136	TGTTGAGCGTGACCAAGTGA	11794	AGACCTTACCTCTGCCACAGT	22778	TGGGCTCTGCTGCTGCTTGG	33762
137	GGCTGAGGCTGTAGCCTTGAT	11795	GGAACAGGAGAAGAGCAAGGAA	22779	GATGGTCCCCAGAGGGATGA	33763
138	GATGGGCTCAAGTCAGAGGTTAAG	11796	ACTGATGTACCAAGAGGCTAGA	22780	ACCCCTGATGGGCTCAAGTCA	33764
139	GACAGCTGCTTCTCGGCTACAA	11797	CACAACCGCTTTCCCTTGA	22781	GTCAATACTGTGGACAGCTGCTTCT	33765
140	ATCGCACGTACTGCCATGT	11798	GGGAGACACTGCAGGACAAAGT	22782	GGAAGCATCCCGCCAGCAT	33766
141	CCAGACCATGACCTCCATCCACAT	11799	GTGCTGAGAGTTTCTCTGGTT	22783	ACTAGGATCTATTTCAACCCAGACCAT	33767
142	GCAAAGAACCATCAGGGTAGACATC	11800	CACAGTGTGTAGTTGCTGTT	22784	GCCTCTGCTGCAAAGAACCAT	33768
143	AAGGGAGGCCTTCCACTGTCTAT	11801	GCCACAATCTAGGACCTGCAGAA	22785	GCTCACCATCTTCTCATCAACACAGA	33769
144	AAGAGGCCATTGCCATAGTTCA	11802	TTTCTGCCCTAGTTCAGGTCATC	22786	GGGAGAGACAGGTTAAGAGGCCATTG	33770
145	TGGGGTTCAACCCGACAGT	11803	CCTTGAAGATGCAACAGACATTCTTCTAC	22787	CCAGCAAGCATGGGGTTTCA	33771
146	CGTGCTTAAGCCAGGTATT	11804	GGATGCAGGCAGGCAAGT	22788	CGCCAGGAATTCGTGCCCTTA	33772
147	GGTCTCAGGAATCCACCTCAA	11805	GTGCTAGAGAGCGAAATACCTGTT	22789	GGCTCTCAAAACCTCAGGTCTCA	33773
148	ACACAGGGAACGCTCTGTAAATG	11806	CCACAGAATCCCACTCGAATAAG	22790	ATGCTTAGTGCTGCACACACA	33774
149	CCTGTCCTCTTTGGTTGAAGGTT	11807	CCCCAGACCAATCCGAAGTGT	22791	ACCGACTCTGTCCCTCTTTG	33775
150	CAGGCATTATCTACATGCTCTGCTGTCT	11808	AAGCAACCCAGTTCCTTCCAA	22792	CAGGAGGTGGCTTTTACCTCAATTC	33776
151	CGTCCAAGCCTCAGCTGTGTAA	11809	CAGCTGTGCTCTATTGTCAT	22793	CACCTTAGAAAAATGCCTACCTTGA	33777
152	CTAGCCAAAAGCCATTCTGGTAGT	11810	AATGTGTAGCCTTTGAGACGATGT	22794	GGAATAGATTTTACAGGACTAGCCAAAAG	33778
153	TGTTATCTGCCTTCTCCCAACAAA	11811	GCCCCCTCTTTTCTATGAGGATGT	22795	GCCTTCTCACTGTGAACCTT	33779
154	CCTCACTGCCAAATCTGATACAGACA	11812	AGCATGGGAACCAAGTGTTCATC	22796	AGCCTCCTCACTGCCAAATC	33780
155	CGAGAATTACCCCATCTGTATCCTCTTTC	11813	TGACAGGACGAGGAGACTCAA	22797	CCCACTACACGAGAATTACACCCATCT	33781
156	GGCAAGGGCTAAGACGTTTGAA	11814	TCTGCTTGCAGAGTTACAGAAT	22798	TTAGCAGGGCAAGGGCTAAG	33782
157	TCCTAACTCTACCTACATCTCAAC	11815	AACCTTTTCTGCTACCCATGTACT	22799	CAGGGAAAAAGACTGAATCCTAATCCTA	33783
158	CCGGGACTAGGGTGAAGTCA	11816	CCGAGCTCGTCTGGGTTTGAA	22800	ATGAGGACGAGGCCGGGACTA	33784
159	TGCTACACACTAGCTCCTCACA	11817	CTATCTGCCCGCATCACCTT	22801	GAGTTAGATGACCCCTTACTTTCTGCTA	33785
160	GCACAGACATCCAGAACTGCTT	11818	CGACGGCTCGGAGAGAATC	22802	CCATTAGTGCGCACAGACATC	33786
161	GTGTGCCACAGAGACTTGGA	11819	CCCACGGGTTTGGGTAGCTT	22803	TCCTGGCTGTCACTACTGTGT	33787
162	AAGCCGCTAATAATGGAAACCTA	11820	CTTGACCTTGTCTAGCAGTTTGT	22804	CTGGGAAACAAAGCCGCTAAT	33788
163	ATGTTCTGTAGTCGTTAGGCTTGT	11821	CTCAGTAGTCTCCACCGTCAT	22805	CGTCTCCGCTGATGTTCTGTAG	33789
164	TGAAGAGGCGAGGAAAAGGTTGT	11822	AACCTTTTCAACCTCCACATT	22806	GTGCCAATCTGTGGCTGTGA	33790
165	AGCCAGATACCGTGAGCCAAGA	11823	AGTTCTCAGGCCACCTTGTTT	22807	TGGCTAGTGGGGAAGCCAGATA	33791
166	CAGAAGTGGGATTCAAATCCACAGAGA	11824	CCCGCAGGACTGAGCACAA	22808	TTGGTACCAGAAGTGGGATTCAAA	33792
167	GGCCCAAAGTGCTTTGAGAACA	11825	CATCCAGGCACACCGTTAAGA	22809	CTGTGGTTTGTGTAGGCCCAAAG	33793
168	GTCACGGAAGAACTGGTGGATCA	11826	TCGGGAGCACGTTTGACAGT	22810	GGGCCAACACATGAGGGATGT	33794
169	GCTTAATAGGCGCCCAACCATTT	11827	GGTTGCTCTCAGGGGAATAAGA	22811	CCACTGGAATCACTGGGTGCTTA	33795
170	CAGCTTCCCTGTGGAATTGTCTTC	11828	CGGTAACCAATCCAAACAAA	22812	TGGGACAGTGATTCCAGCTT	33796
171	TGAAGGCTACACAGCCAGAGA	11829	TGCACACTGCGTCAGCTT	22813	AGGGACAGGGCAGCCAGTCA	33797
172	GCTGCCTCTAGAGCCACTACA	11830	GCATGCTTCAAAACATTATCCCATTC	22814	TTATAGCCGCTGCCTCCTAGA	33798
173	TTTACGGGCTCCCAAGTCA	11831	GGGCATCCAGGACGGAAGAGA	22815	GCTCATCCAGGACCCCATCTTT	33799
174	CGTCAGCCGATAATAGCTGTTGCTT	11832	TGTCAGCTGGCTTCTGTAAG	22816	CTCATTGGCTGACGCCGATA	33800
175	TCTTCCCTACCTGAGCCTGATG	11833	TGAGCTGGCCTGGTGAATAG	22817	CCTCGATGTTGGTAGGGACTCTTC	33801
176	GCCATGTTTCACTGCTGCTTAC	11834	ACCTCACCTCTAATTTCTGGACTGT	22818	GCGAGTCACCTCTGCCATGTTT	33802
177	CAGGGCTTTGTGACCTAGACAGA	11835	CGTGACAGCTAATCACCCACAT	22819	AGGCCACTCAGGGCTTTGTGA	33803
178	TCTTGCAGGACAGGAGAGA	11836	GGAACACCTCTCCCTCAATTCTTT	22820	CTGGGGAGATGATATTAAGCTGACTCT	33804
179	CCTTCCCTCCTTCTGTCTTCT	11837	CCTTGGCAGAGGGAGATTGAGA	22821	GCTGCCTCTGTGGTCACATC	33805
180	GCATTGAGGTAGGATTGGAGGAA	11838	GTGAAGCGTCTCTCTGTGA	22822	CCAAGGCAGCACTTGAGGTA	33806
181	GTTGTCTTGGTTGCCGTGTTT	11839	CCAGACTAGCCGAATTTCCAGGAT	22823	GCCAACTGCTGTGTTGCTTGG	33807
182	TGCTTCTGTCTGGCTGAGAAG	11840	TCTGGAGAAAGTGACAGGGTAAGA	22824	ACAACCTCACCTTTGCAGACA	33808
183	CTCCTTCGTGTATATGAGCAGCTT	11841	GAAAGGCTGGGTATTTTGAACCAA	22825	GTCATTTGCTTTTATGACCTCTCTT	33809
184	GCCCTTTTCTTAAAGCAGGAAGA	11842	CACAACCTCACATTCTCCAGGTTA	22826	AGTGCAGAGCCCTTTTCTT	33810
185	GCGCAGGAAGAGCAGTTTGATG	11843	GAGCCACAGTATCAGCTCAACA	22827	ATGGCGAAGCGCAGGAAGA	33811
186	GGTTCGCCAGATTGGCTCAAAAG	11844	ACTGCAACCTTTTGCCTGAGA	22828	TTGCCAGAGGTTCCCAAGATTG	33812
187	ATCGGCAGCCGCCCAATA	11845	TCTCACCGCTGTGTCAGAGT	22829	CAATAAAGGCCCTCTTCAACAA	33813
188	CAAAGTCTCAGGTGTGAGGAGTTAC	11846	TCTCCAGCCCTCAGTCTTCT	22830	CAAGGAGGAGGACCAAGTCTCA	33814
189	CACACTGGGTTTTCTGTTTCACT	11847	TGAGAGGTACACACACACAGA	22831	GCATCTGTATGCACACTGGGTTT	33815
190	CAGGGCAACTCAACGGCAAAAG	11848	TCATCCAGCATCATTTGTTGAGAA	22832	AAGGTGCCAGGGCAACTCAA	33816
191	AGCTGGTCACTGTGGGAGAAGA	11849	CGCCTCTCCACCTTTGAACCT	22833	GTCTGCAGCTGGTCACTGT	33817
192	AGGCTCAGCTCTGGGGATTG	11850	CGACAATTAAGGGCAGACATGGAA	22834	TGCTGCAGCCATGCTTCTTA	33818

193	GGCTGGCTCCATCGTTTGAGAT	11851	GCACATTGCCACCGTCCAGAT	22835	AGAAGCGGCTGGCTCCAT	33819
194	CAGGGAAGCTTTGACAGAAGAGATA	11852	CCCATCCTTCAAGTCGTGGTT	22836	GCCTTCAGGGGAAGCTTTGACA	33820
195	AGGATACAGGTTGGAAAGCAAGATT	11853	ACCCGGTGGAGTCAGGATTGGA	22837	GCAGCACCGCTCTCTAGTTAAG	33821
196	GTGCGGCTGTCTATCAACATTCAAC	11854	TGGATGGGTTGGCTTGGTACT	22838	GACACTAAGTGCGGTGTCTATC	33822
197	GGAACGGGAGTCAGGTCAAACA	11855	GCTGTGATTGTTGAGCCTTGT	22839	GCTACCAGGAACGGGAGTCA	33823
198	TCCCTCTGTCTGAGTCTGGGTCTA	11856	GGGGTGAAGTACTGCAGTTAAACAT	22840	ACCCTGTTCCCTCTGTCTAGT	33824
199	ACGCGCAGTCCACAAACA	11857	ATCGGCGCGAGCCAGGATT	22841	GCCAGCTTTAGCCGATGAAGT	33825
200	TGCATATTGTCCAAGGCTGCTT	11858	GCAGTCTCTCAACTCTGCTGTTGT	22842	GCTGCGCCCATTTGTTTGCAT	33826
201	GCCCTCTGCATCTAGCCCAAT	11859	AGGGATGTCTCCCCAACCT	22843	GGCACAAAGCCCTCTGCAT	33827
202	TGGTCCATCCAATCAGGCAAT	11860	GTCAGCACCATGTAGCAGATGT	22844	TGGGCCCATGGTCCATCCAAA	33828
203	GCCGCTCCTCTTCTGTTCTTAAAAA	11861	CCAGCATTGGGGCAGCTTCT	22845	TTGCCGCTCCTCTTCTGTT	33829
204	GCAAACCAAGGCTTTTCTTGATA	11862	GCCCTTTAAGGAACCTTGCTACA	22846	TCTTCCCAAATGGGACCTTCA	33830
205	CCATCTGGCTATGTGACGGATGT	11863	TCCAGGTCCACTACTGTGTCA	22847	CCACATAGCTCTCCATCTGGCTAT	33831
206	CAGTAAAGGAAGCTTTGCAGGTTGT	11864	CCCTTGGGTCCTCTTCTTCA	22848	GGAGTTTCCGAAGGCAACAGT	33832
207	TTAAATACTCCCATGCCCGAAA	11865	GGCGGGTATTGTGCTGACA	22849	TCCTGGCCTAAGGGGTGTTT	33833
208	GGTTGTGGAGACAAGGCTTCTA	11866	CCATTCTGCCAAATTTCTGTGTGT	22850	GTGCTCAGGTGTGGAGACA	33834
209	GCTGTCTCTCCCTAGGTCAGGTT	11867	GGGGAGCAGAATGGATTGTCACT	22851	CTCTTCAAGCAAGGCTGTCTCT	33835
210	ATGTGTTCTCTGAGAGTCCCTTTAC	11868	CAGCTACAGGCAACACAGA	22852	GTGTACAGTGAAGGCCATGTGTTT	33836
211	GGGACATAGCACAGGACTGGAT	11869	AGGCAGATCACTAAGTGTCTAAG	22853	TCCATGGCTCAGGAGGGACATAG	33837
212	CAGCTCTACAAATTTGTTGCCATCTT	11870	TCAGTAGAGCCTTGAGGTAGCTT	22854	ACCACGATCCACACTCTAAC	33838
213	GGCTCTGGAAGTTGCCAGTCA	11871	CCTGCCCTACCAACCCACATT	22855	TTGGCTGGAGGGCTCTGGAA	33839
214	CCAAGATTTGGAAGAGCTGAGGAT	11872	CCCTCTGCTTTGTCTCCAGATA	22856	GCACCACTGGAGCCAAGATT	33840
215	GGCTGAAGCTGTAATCCACACA	11873	AAGCCAAAGCTAAATCTTCCCTGAA	22857	GCTGGAACCTCTGTATAGGCTGAAG	33841
216	CAACCAGGATCGCCCTAGAAAA	11874	AGGCCTTCAGCCTGAGACA	22858	AGTGGGAGTGGTCTGGTCAAC	33842
217	AACCAGCTACGGAGAGGATGA	11875	TCTTCTGGGACAGTTCCTC	22859	ACTGGAGCGCTTGAGGTAGA	33843
218	ACCCAGCTTAATGGTTCCAAATAGT	11876	GGGATCTCTGCAGCATGACTTG	22860	GCACACCAGAAGATAACCCAGCTT	33844
219	TGCTCTGCTTTCTCCAGTTTCA	11877	TCAACACCTTTTGGTGACAGT	22861	GGGCATTATTGAATGCTCTGCTTTCTT	33845
220	CCTTCCAAAGGGAGGGATGTTTTT	11878	CGCGCTCTACCTCTTGATTTA	22862	ACCCTGGAGCTCCCTTCCAAAA	33846
221	GCATTGAACACCTGGTTTACTTCA	11879	TCTGTTCTTGAACATGCCAGTGA	22863	GGCCTCCTGGTGCTTGAAC	33847
222	TGCTTGACAGCTCTGTGATTGT	11880	GCAGTAGGTGGAGGGTGTTC	22864	GTGCATACATTGACTGCTTGACA	33848
223	GCCAGCTAGAACCTATACCCAGAA	11881	AGACCTTCTGGCTTCTTTTG	22865	TGTAAGTGCCAGCCAGCTAGA	33849
224	GTGAAATGCTTGGCCTTGTCATC	11882	ATGGGCTGAGGCAGATTGT	22866	GACCTGAGTGTGGTGAAATGCT	33850
225	CACCAGTACCCAGGCTCAA	11883	GCAAGAGGAAAGACCAGCATCA	22867	CAGGGTGCCTCATCTCAGGAT	33851
226	GATGACTGGACCGCATGTCTCT	11884	CAACCTGGGCTGGACTGT	22868	AGCTGAGGCTATGGGATGACT	33852
227	CTGTTCTGTGCTGCTGTAG	11885	CAGCCGCAAGAGAGCCTAA	22869	GCTTGTTCCACCACCTCGTT	33853
228	TGCCTTTGGTCCCTCACACAAG	11886	GAACACACCAGGTTTCTGCACTAGAT	22870	GCTGAGTGCCTTCTGCCTTT	33854
229	GAGAACACGGAGAGAGGAAGT	11887	CCCCGCTCTGTCCCCATCA	22871	AGTGACAGATATGGGGTGAGAA	33855
230	CCCACAGTTAGTACATGGCAGAGTTT	11888	ATCGGGAGTCACAGCACTTG	22872	GCTTCCAGATCCACAGTTAG	33856
231	CCTGGGAGCCATGTCTGAAACT	11889	CTGAGAGAGGAGTCTATCTTCTTGA	22873	CCCAGGACTGTCTATCCCAAGA	33857
232	GGGCACCTTACATTGCTGAGA	11890	GGCCAAGGGTGAATGGAGAA	22874	GGGTTATGGGCACCTTCACA	33858
233	GGACCTGGTCTTTAGTTCCGATT	11891	CCCCGCCAGGTACTGTCTCA	22875	GGCAGACAACTTGGGGAAA	33859
234	AGCACCAAGGGCTGAAGGAAAG	11892	GGACCAGGGCTGCGAGAAA	22876	GACGTGCTCAGTGGGATTGT	33860
235	GCAACACAGATCCACTGAAGACA	11893	GTGGGACATCTTATGATCCGCTTAG	22877	GCAATAACCCATCGGTGGAGCAA	33861
236	GGCTCTCCATAACCATGCTGTA	11894	TGAGTGTCTAAACATGGGCACATAC	22878	TGGTGAGATCTTGGCTCTCCAT	33862
237	TTCCACTGGCCCACTGTACT	11895	AGCCTGCCCTACCCCAATCT	22879	GCCCTCTTCCATTGCCAGAA	33863
238	GCCCATCAGTCTCCCTGCTA	11896	TGACTATTGACTGGTCTGGTAAC	22880	GTCTGTCTGCTGCCCATCAGTCT	33864
239	CCAGTCATCCGGGGCACTT	11897	GGGACTTGACCTTGCTTCCACAA	22881	GCAGGGAAGGCCAGTCATC	33865
240	GTGGAATCCAATCACTCAGCCTTCA	11898	AAGTACCGCCCTCGTCTGTT	22882	CCCCACATTTCTCAGACAGTGAATC	33866
241	CGCCCACTGTATCTTACCATTC	11899	TGCCATGGCGTGTGGATCT	22883	TCCCGCCCACTGTCTATCT	33867
242	AGTGCTGGCCATCTGCTGTA	11900	AGAGACCTTGGCAGGTGCAT	22884	TGTCTCGGGGTGCCACACA	33868
243	GTGTTTCATCCATCAGGGCCAATG	11901	CACATTAGTCTGGAGAGCTGGTT	22885	GCACGTGGAGAGTGTTCATCCAT	33869
244	GCTAACCTTGGCAGTGTGGAT	11902	CCCCAGTACTCAGGGGACTTTGT	22886	TGAAATGAACAGACCAGTAACTT	33870
245	GCTGTATCCATGGTCCAGACA	11903	GATGGGCCATGTGGCTTCT	22887	CCTGGGCTATGCTGTATCCAT	33871
246	CCATGGAAGAGGGAGATGGAAGT	11904	TCTCCCAAGTGGAGCTTATGT	22888	GAGACTGCCTGAATACCATGGAAGA	33872
247	CCACCTCTTGGGCCCTTTG	11905	CACCAACAAGCTGGCTCTGA	22889	TGGGAGGGTGGCACCTCTTG	33873
248	CACAGAATATGGGCTGAGAATCCAAGA	11906	CGGCTCCAAGTTCCACAT	22890	CTTTGGTTGCAGGCCACAGA	33874
249	GAGTCCCCACCAGCAAGAAG	11907	TGTCCAAGGTTGAGGGGTTGT	22891	GGCTGCCTTGGGACACATCT	33875
250	GTGATGTGGCTACTGCTTCACT	11908	CTGGAATGGCTGTAGGCACCTT	22892	GCCAGGAACACTGCTGTGTATG	33876
251	GCTTCCCTCTTCCAGTGCTT	11909	GCACATAACTGTACCTCCTAAGCCATA	22893	GAGAGGGGTTTGCTTCCCTCTT	33877
252	CTGACTGTGATTCTGGCATAGT	11910	GGGAAAGCAATGCTGTGTTTATG	22894	AGGGGCTGCACTGTGATT	33878
253	CCCCTCACTAACGGTGCAATTA	11911	TCCACAGTCAGGCCAACCAT	22895	CCATCAGCAGATTACACATCAGA	33879
254	CAGGGATGAAAGACAGAGCATTTG	11912	ACAGCTGGACCCAGGGAAGTT	22896	CAGGGAAAAAGGGATGAAAGACA	33880
255	CCCCTCGAGGCTGTTTGTAGTGA	11913	CTGTGTGCATGAAGGGATGCTT	22897	CTGCTGTGAAGCTGGAGACTTTTATC	33881
256	CCAGTGTGAGGGCCGAGTAG	11914	GATGTTGGTACTCGCTTCTCAGT	22898	TGCGCGGTTGACCAAGTGT	33882
257	TGCTGCTTTACGCCAGTGA	11915	GGGTACTAAAGGGCAGTTCTGTTT	22899	GGACAGGTACTAGGTGCTGCTT	33883

258	GACCAATGGGGTGTGAGCTT	11916	TCCTAGGCTGACCAAGTGTGAT	22900	GAAGCCGGTTTAACTGGTGTG	33884
259	AGGCTATGGGAGGTGGGAACA	11917	GCCTTTCCCAAGTCCATTTCT	22901	CAGCAGGAGGGAAAAAGGCTATG	33885
260	CTGTGTATGTGGGCTCTGAAGCTCAA	11918	TGTCTTTACCAGCCAGACT	22902	CTCAAAAGGCAGGTGCTTGACA	33886
261	GGGGCTCAGATCCCTTGTT	11919	CGTGTGAGAAAAACCTCTCCTACTAC	22903	TGGTTCCCAAGGGGCTCAGAT	33887
262	AGCATCCGTGGAGGCTTTTAAT	11920	TGTCCAACAGCTTTACATAGCACAT	22904	GTGGTGAAGTAATGGCATCAAGCAT	33888
263	ACGATTTCTGAAGCAGTCTTGTA	11921	CAGAAGCAGTGAGCTGTGGTT	22905	TGCTGTGGTGTGGTCATTTGT	33889
264	GGGCATTAGCTGGCCTTCACA	11922	CTGGGCCTGCAGAAATGCTA	22906	TCCAGTGCAAGGGCATTAG	33890
265	TCCCACTTACAGGCCCTTCT	11923	CACTGAGGCGATGCTCTGATCT	22907	AGGCTGGCCTCCCACTTAC	33891
266	TTTCAGAAGTGCTGGAACCAAGA	11924	TGGCCTCTCTCTCTAAAAGCATTTC	22908	AGAGTAAACTTGGAAAGGATGGGTTTC	33892
267	CATGAAAGCACTGGGGTTCTCT	11925	CACTCACAACCTCTTTCCCAAGT	22909	GCAATCCCTGCGACCCACAT	33893
268	CGAGAGAGGAAGACACTGGAGTGAA	11926	CGGTGGGCAAAGCCTCCAT	22910	AGGCCAAAGTCCCTGTGAAC	33894
269	CCTTCTCCCACTAAGTGACTGGAAA	11927	ATCCACTGCCTGACCTTGT	22911	GGATGAGATTCCCTTCTCCCACT	33895
270	CAGCCCATCTGGGCATCT	11928	ACTCCAAACCCACCTGCTA	22912	GCTGTTTCTGTGCTCCTT	33896
271	AGGCTGGCAAATGGGCTCAA	11929	GGGTCTCAACCTCAGTCTTGT	22913	GGGTGCTGGGAACATGAGGAA	33897
272	GCTGAGCCAGCAGTGTT	11930	ACAGGGCTCTGGTTCTAACT	22914	CAGCCTTCTGTCCACTCCTTAG	33898
273	CCTGGCTGGGCTACATCTTACCTT	11931	CTTAGGAGCATGGGTACACAA	22915	TGCTCCAGAGCCCCACACT	33899
274	GCATGGGGACCTGAGACTTTCT	11932	AAGCCGGCAGGCTGAGTT	22916	CACTCCGCATTGTTGTGAT	33900
275	GGGCCGATGAGCAAGTCAGTT	11933	GGAGCCACAGAAGATGCGAGT	22917	ACACCTGTGGGGCCGATGA	33901
276	CCTCCCGAAAGGAAACAGAGCAT	11934	CAAGACCTGCCACCTCTCT	22918	GTGGTAGTTAGACCTCCCGAAAG	33902
277	TGGATGGTGAGAAGACCAATG	11935	GGTGACGCTTGCTCACT	22919	GGGCAGAAGTGGATGGTGAGA	33903
278	GCCTGGTCACCATCGGCTTT	11936	GCGGAAAGGTGGAAGAACCTTT	22920	GCCCTACCTGTTCTCCAT	33904
279	GACACTCACAGGCTCAGAGAAC	11937	GGGCACACTGAAGTCTAGAAGCAA	22921	ACTTCCAGGAGCACCTTTGAATAG	33905
280	TGAGCACTCTGGGTCAAGA	11938	TGGGCCCATCTCTTTGACCTTC	22922	CCATCAAAGAGGTAAACAGCCAGTGA	33906
281	CTTGGCTCGATTGGTCCAACA	11939	GAAGGATGAGCGGATGGGTCTA	22923	AACCCCGTCTTGCTCGATT	33907
282	CCAGAGCAGCCAGGTCTTCA	11940	GCAGTACTTGGGGTCGTATATCTGT	22924	GCTACACGCTGGGCACCAA	33908
283	TCTCTCGCCCAAGATCAGA	11941	TCCACCTACCTGTGGGCAATC	22925	GCCCTATGGCAAAGGCTCACTA	33909
284	CCTCAGCCAGGACTCACTTTTAG	11942	CCCGGGTACAACAGTGACCTT	22926	AAGCCTCTGGCTGTGTTTC	33910
285	TCCATGACGGGCTGGTCA	11943	TCTCCCGGAAAGTCCGGTTCTA	22927	CCTGTGTTTTGGGCAGGTT	33911
286	CACCCTGGGATCAAGTCCAAGT	11944	CACCCAAGCTCTACTGTTACT	22928	TGGTTACCACCTGGGATCA	33912
287	TGCATGCTGGGACACAGAGA	11945	GGGCCAGCTGACCAACTAC	22929	TCTGGTACTCCAGGGTGCAT	33913
288	AGGGGCTGCTGGGGCTTGTA	11946	CTCCTGAAGCAGCAGCAA	22930	TGGATACACCGGCTTGCT	33914
289	GCGCTGCCTAGTGACATTGGTT	11947	GCTGTCACTGACCTGGATT	22931	AAGACACCGCGCTGCTAGT	33915
290	TGGTGGTGGTCCCAAGTAATGT	11948	GCCATGCTGAGAGCCTCTGT	22932	TCCAGAGGCAGGAGACAATCA	33916
291	CCCTGGTGGGTTTGAGTGAA	11949	GTCCACGTGTGGAACATGTTTATT	22933	CCGCAATTGGAGCTGAATCTTAAATC	33917
292	CCCACTTAGAGCCCCAGGAAA	11950	GCAAGGAGCTGATCTCATCTGTGT	22934	CCTTGGGGTGGCCCACTTAG	33918
293	CGATCGGCTTTGACGGCTTT	11951	CAAAGGGCTCTTCCCCACAAA	22935	TTTTCCCTGACGATCGGCTTT	33919
294	AACCATGCTGTCTCCCTAGT	11952	GGGAAGCCCTTGGAGGTTGT	22936	GTCAGGGAGAACCTATGGACCTA	33920
295	CCAACAGCGTGAGGCTTCTGA	11953	TCTGCACCCCTGCCCTGTGT	22937	CCCCAGACAGATGTAAGTCCAACA	33921
296	GCCTGGAACACACTGTA	11954	TCCCGAGAGTGACAACCTCTT	22938	CTGCATGCCTGGAACACACT	33922
297	TCCTGCCCGTCTGCTCAA	11955	GTTTGGCTGCACGTAGAGAAAAAG	22939	CTGACTGCTCACTCTGGAAC	33923
298	TGAAACAGAAAGCTTTCACCTCAT	11956	GTTGGCACTGGGCGCTTCT	22940	TGCCGAAGAGGCATGAAAC	33924
299	AGTCAGGGTGCTCTTCCATGA	11957	GACTCAGTCACTGAGAGGGAGAA	22941	TCTTCTCCAAAGTACAGGTTGCT	33925
300	GAGCAAAGAGCTGTTCCAGAGAA	11958	CGTGGGGAGGGAGACCACTT	22942	GCAGTGCCAGGAGCAAAAGA	33926
301	CCTTCTACACAGGATGGGATGAGT	11959	TCCTCTTTTGACAGACTGGGAACAT	22943	AGCCTTAAAACTGCCTTCTACACA	33927
302	TGAAGGGTTCCCTCCAAAGT	11960	ACCTTCTGAGGTTTGGGGTAGA	22944	GGGATTCACTAGTGTGTGGATTGA	33928
303	GCCTACATGTCTATCCCTGAAG	11961	TGTAAGGCTTAAGCCGCACTT	22945	CCAATGGTGGAAACACAGCTACA	33929
304	GCTGGAACCATGGCGAGTT	11962	TGACCAGAACCACTCGGACAGA	22946	GCTAGATGAGGGAGGCTGGAAAC	33930
305	GGGCCAGTACCCAGGAGGAA	11963	ACAGGCCCACTGCCCTGTCT	22947	CCTGGATGTGGCTGGCAGTA	33931
306	CACAGGGATGAGCACCACT	11964	GCTGACGGCTGGAATCATCT	22948	CATTGGCAACCCAGCTCACA	33932
307	TGGCAGAGTTGTGAGGATTTCAA	11965	AGCTCAGGTAAAGGTCAAAGACA	22949	AGCCCGAGCCTCTCAAACTT	33933
308	AGGCGAGTGTCCCAAGACAA	11966	GCAAGTCCAGTAACGTCAATT	22950	ACAGGGCTCCAGGCGAGTGT	33934
309	GTGAACCAAGGACATCTGGACAAG	11967	AGTGCTTCAAGCCTGAGATTGT	22951	TGGGAGGTGAACCAAGGACAT	33935
310	TCAGGCACAGGCCAGGTATAG	11968	CCCGGTTCCCTCCTTCTCCAT	22952	GGGCTGCAGAGATAAGCTCGTT	33936
311	CCGGACGCAGACGGAATTA	11969	GGTGACCGATGGCACTGAATGT	22953	CGTCACAGCCAGTTCTCACACA	33937
312	GGCAGTTTGGGGAGCTGTGT	11970	CACCTGATCACCTGGGAAAAG	22954	TCTGACCTCGGGGCGAGTTTG	33938
313	CTGACATTTGCGGGCTGTTG	11971	TGCTGTACGCCACTTACACA	22955	GCGAGAAACACCACTGACATTTG	33939
314	CTTCATGGGACCAAGCCTATG	11972	TTCCCTAATGCAATGGAGGTCAA	22956	CCCAATGGTAGCTGGCATGCTT	33940
315	CTGGCTGGACCTTCTCTGAT	11973	CAAGCTGCTCCCTGACACT	22957	ACCTCCCAGGGACACTCACT	33941
316	GGCCCTTGGCTGTGTGAA	11974	AGGCAGTGCCAGGTCTGTAA	22958	AGGCAGTGGCCTCTCTTTGTA	33942
317	TTCTCGTGGACCTACTGTGT	11975	TCCTTCAGGGTTCGTTTGT	22959	TTGCCGGTGGATCCTGACTT	33943
318	CGTTGGCTCTTAAAGTCAGCTA	11976	GCAAGTACCAGGGAACCTACTGAA	22960	TGCAATTGATCGTTGGCTCCTA	33944
319	GTGTAAGGGCGGCTCTAACTGA	11977	GGACCTGAAGTGGATGAGCTTTGT	22961	GGCCGCTTTCTTAGGGTGAAG	33945
320	ATCAGAGGAGGGCGGACCAA	11978	AGCCCTGGACAGATTGAGA	22962	GGTGAAGGTGAGGATCAATCAGA	33946
321	GGAGACCATGGGAACCTTCAAC	11979	GCAGAAGGAGCACCTCTCCATA	22963	TGTGCTTCTGGGAGACCAT	33947
322	GGTCTGTGTTGAGGTAGTCA	11980	GTCACAGCCATCCAGTGCAA	22964	GGTTCTCAGAATGGTCTGCTGT	33948

323	GGGCTAGCAAACACCCAAGT	11981	GAGCGAGCCTTGCCTTGTTA	22965	GCAGCCTTAGGGCTAGCAAA	33949
324	GCCAAATGAACCTGGCCCTGTA	11982	AAGGCTAGAGTGGGAAGTACT	22966	CCCCTAAACCTGGGCCAAATGA	33950
325	GCCACAAAGGCCCACTACAGA	11983	ACATTGTTCATGGAGGAGTGCAA	22967	TGACAGGCCATGCCACAAAG	33951
326	GTCTCCAGGTGAGCAATCCAA	11984	GAGGGAAACTGAAGATGGAGCTTT	22968	CCCATCCTATTACCCCAACAGCTTTC	33952
327	CATGCCAGCAATTGTCCCTTAG	11985	CAAGGGCTGGGGCTCACAT	22969	ACTGCAGCCCCTGTGAATAC	33953
328	GCAGTCTTGGCAGAGCTTTACT	11986	CAGACACAGTCAGCGTCCAT	22970	GGAGAGCTCCTGCCTGCAGTCTT	33954
329	GAAGAGTCAGTGGCCTTGAAGA	11987	TGTTCTTCAGAATGTGCCGTTTC	22971	GCGCACAGCAGAATGGAGAT	33955
330	GTGGTGTATGTTGTAGTCCAGCTA	11988	CTGCAAAAATCCTGACCCAGTCT	22972	GCATGCAGTGGTGTATGTTGTAG	33956
331	GTGGGGTAGTGGTAAAGTAAGCAT	11989	CCACCTTGTTGGCTCTGAGT	22973	GCCTAATGTTTGTGGGGTAGTGGTA	33957
332	GGGTCCCTGCTCCATCTCATT	11990	CCTGGAGCGGCTGTCTCATA	22974	GGGAGACCAGGCCCTAAGA	33958
333	AGGGCCCTCCCGCAATTAGA	11991	CAGTCTGTCTGAACCCATTACACCAA	22975	TCCCTGCAAGGACCCCTCAGT	33959
334	CCTGAGGTCTTGGCCCAACA	11992	CAGTGTGAGTGTGAGAAACAAAG	22976	TCTCACCTGACCCCTGAGGTCTT	33960
335	TTACGCGGGAACCACTATG	11993	CACCCCTGGGAAGGATGAAAT	22977	GACGCAGCTTGCTTAGACTTC	33961
336	CTGACTTCTAGTCTTCCCTTCTATGAAA	11994	AGGGCTGCATGCCACAGA	22978	GGGTGCAGCTGACTTCTAGTCTT	33962
337	GGTTTACAGGTTAGGGCATGGAT	11995	CCTGTACTCCCTCCCTGGTATC	22979	GTGCGGTCAAGGTTTACAGGTT	33963
338	AGGACCGGAGGACTGCTCTATT	11996	TCTCTGTGCCAGGCTGTGT	22980	TCACAAGCTCCACTCCCTCAAG	33964
339	AAGGGCAGCGTATCCCTCTACA	11997	TCTGAGACTTCTCCCTGTGTA	22981	TCTGCGTGTGCGTGTGTT	33965
340	GTGGCCAGTTTTTGTCTCAGAGA	11998	CCTCATGGTGGCTCTGGTGACTT	22982	CAGTGACATGTGGCCAGTTT	33966
341	GGTGAGGATTTTTCTCGACCTCTTT	11999	AGACGGAGAGCCCTGTG	22983	TGTTCAATGATACTGGTGACGATT	33967
342	TCTCTGTCTCTCCACCAGTT	12000	CATGGGTACAAGCTCCAATTCCTT	22984	GGCGTGGAGTTGCTTCTCTCTT	33968
343	CCAACTGGTCCCTGCATTCTTG	12001	GAGGGAAAGGGTTGGGGAAAAATC	22985	TGGGGTGGCAGACCAACT	33969
344	GTGTGAGGATCCTGCAGCATTTA	12002	GCACTAGAAAGGGAAGGAACATA	22986	ACCACGTGACAGGTGTGAGGAT	33970
345	AGTCCCTCAGCTCAGCCATA	12003	GAGGTAAAGCCTTGGGCATTTC	22987	GGAGTAGCTCTGTAGGGAGAGTTG	33971
346	GCCAAAGGGTAACCTAAAGGTA	12004	GTGAGGTGATGGGCAGACTAC	22988	ACATGATTGATGCCAAGGGGTAA	33972
347	GGTTGGAAGGTGACGCTACA	12005	CCTTACCAGCAGGCTTCACAA	22989	TGCGTGCTCAGAGTCACATAAG	33973
348	CCTGCACTTGCCCGGTTCT	12006	TACCCACCCACCCAGTCCCAT	22990	AGCACACCCCTCTGCATT	33974
349	GCTCAAGAAGTGCATCCAGGTT	12007	CGAAGTGTGGGAGTGTAGAAC	22991	CCAGGCGGCTCCAAGAAGT	33975
350	GTGCTGGGTACAACTCAAAT	12008	CTGTGGTCTTGGTGTACAGAGA	22992	AAACCTGGCAGAGGTTGCAT	33976
351	TGTCGTCCCACTGTGGAAGT	12009	CCAAGGGGCTACAGTGACAACA	22993	CAGGATCTGAACGGGAGGTTTC	33977
352	CCCAGGCAACTCACTTACA	12010	CAGCAGTGTGGCCTTCTCTAC	22994	GGTGGAAATCTACCCAGGCAACT	33978
353	AGAGTAGACGCGCCCTGGAA	12011	TGCCACACGGAGCTTGTTC	22995	CTGCCGTGAAGTGAAGTAGA	33979
354	GCTAGCAGGACTTGGGCAACA	12012	CACCATGTACTTGCATCTCAGAAA	22996	ATCCCTGGCATGCTGCTA	33980
355	CTGAACAGCTCGGACAGAGAAG	12013	CGCCAACGTGGCTGATGTTT	22997	AGTGACTCATCTGAAGTCTGAA	33981
356	CACCACGTTGATGCAGAGTTTC	12014	CCTGGCCTTACTTCTCTGAGT	22998	ACAGGAAGGCACCACGTGA	33982
357	CAAAGTGCAAGAGTGGAAAAACA	12015	GACTTCTCTCAAGCATTTCAACA	22999	GAGGGGCCAAGTGCAGAAAG	33983
358	GACCAGGCCCTTTGATTGTTCTGT	12016	TCAAGCCAGGAGACCCATACA	23000	AGAGGTGACCAGGCCCTTTGA	33984
359	TAAGTCCCGTGTCTACAGCAT	12017	CCCGGAAGCACTAGCTCGTAAG	23001	GTGACGCGACCTGCTCATAAAGT	33985
360	GCTCCATCTGTGAATGAAGTAAGT	12018	CGCTCGCAGCTTTGACTGTAG	23002	ACCTGGGCTCCATCCTGTGAAT	33986
361	GGGATCCATCACGTTCCAAACAT	12019	GGCTGTGTCTGTGAGGGTAGA	23003	GCTCAATCTCCCACTGCTTCT	33987
362	GGAGAGTCCAGGGCGTCTT	12020	GAGCGTGGAGAGAAAAGCAATGT	23004	CTCTTCTGGAGAAGGGGAGAGT	33988
363	CTTCACAGTGCTGGGACATTT	12021	CGATAAGCCGCTGTCTCTGT	23005	GTCCAACTCCTTCCATCTGAATTTCTC	33989
364	TCCAGGATGGGGAAGGACCTAAG	12022	ACGCTGGATCTCCAGGACACT	23006	CACGTAGGCTCTGTTTCTGTTT	33990
365	CTAAGCTCAAAGTCAAGGGACAGA	12023	CACCCCTCTTCCCTGTTAAAGGATT	23007	CCCCTGGCTAAGCTCAAAGTCA	33991
366	GAGAAGAAAGTGCCTGAAAATAC	12024	GCTGATTCTGTGCAAAAGTCCAGTGT	23008	GGAAAAACACCCGCGCAGAGAAG	33992
367	GTGCTTTCCACAGCGAATC	12025	CGATGAAAGGCTGGGAGCTGAA	23009	GCAAACTCCTAGGCTCTGTGCTT	33993
368	GGTGTCTGCAGAGGGTGGAAA	12026	CCGGCAAGTGGCTGTCTATAC	23010	GTGAGAGGATGTGTGCGTTCCAT	33994
369	AACTACCTCCCAACCAACA	12027	CTCTGCATGTGGAGCAAAACAA	23011	CATTACCCAGTTGGCAGAAAAAC	33995
370	GTTGGGTGGACAGTCTTTTCTATCTTG	12028	AGGTAAGGGGAGGCTGCAGAA	23012	GACAAGTTGGGTGGACAGTCTT	33996
371	GTGCTCTCCCTTGAATAGAGAT	12029	GCTAGATAATGCTCGCTGCTTG	23013	AAGGGGTGCTCTCCCTTGA	33997
372	GATGGTGGAAACCGACCAACT	12030	CTGAAAGATCACTACCAGGATGCTA	23014	CCCCGTGAATGATGGTGGAAAC	33998
373	TGCAGGGTGGCAGCATGA	12031	AGACAACAGCGTTGCTTGAGTA	23015	GTAATCAACCCCTCAGTCTCTCATC	33999
374	GCCCTCTGACTTCACTGACCTACT	12032	AGGGAGAGCCTCTGATGAAAAGT	23016	AGGCCAGCCCTCTGACTTC	34000
375	TGGGGTTGAGGTCCCTTATG	12033	CCAGTGTAGGCTCACCATTCTGT	23017	GCTTGGGACTCTGGGGTTGA	34001
376	CCCCTTCACTGCGCTGGTAGT	12034	CCCAGGAGTCTCTGTCCATTGT	23018	CCTGGCTTTGCCCTTCTATCT	34002
377	CCTCTGCACCTTGGCCTACATT	12035	TCCTGGTGTGGACGTGTCTCAT	23019	AGCCAGCCTCTGCACCTT	34003
378	GGCGGAAACCAACCCCTCAGA	12036	CGTCAGGGGCTCCTTCTTTTG	23020	CCTCTGAAAGGCGGAAACCAA	34004
379	GGGCCCCCTCCACATACACA	12037	GCCAGAGCCTTCATTGGGAGAAA	23021	AGTGCCAGCAGGAGCAA	34005
380	GCCCATGCTGAGGACTAACCTT	12038	TGGGCTCCTCCAGCCTTT	23022	CCAGGGCAGGACTCTAACCATTG	34006
381	CCCTAAGGTTGGGTCGAGTTG	12039	GTTTTCCAGGCTCTCTCTTTC	23023	GTTAGGAAGGGTCCCTAAGGTT	34007
382	CAGGGTCCCAACGGGTTCTA	12040	GGGATGTACCAAAGGCTTCTCT	23024	GGTGGCTTGGATTGCTACT	34008
383	GCCCCAGCATTCACACTGCAT	12041	GGTGCTTCACAGGGTTACAGT	23025	TCCACCTGCGCCACGACTT	34009
384	GCAAGTAGCTGGGCTTGTCA	12042	AGCCAGCAGGTGCCATTCT	23026	CGTGGAGGGGAGGAAGTCTTG	34010
385	GCACCATCAGGAGATGCAGACT	12043	GGGAAAGTAAACATCCAGCTTCA	23027	ACCAATGGGAGGCACCATCA	34011
386	CTCTGTCAAGTTTCTGAGTGGGATGA	12044	GCAGTTCTCCTGCAGGCTTT	23028	GAGTTGCACTGTACTCTGTCACT	34012
387	GAGGCTCACTCTCCCTTAT	12045	CTTCCCGTATTGCTAAGGAATATTCT	23029	GGCTTTTGGCTTCCAGGTTGATG	34013

388	TCATGCTGCTTGGGTAATGTTCT	12046	CTGTGCAGCAGAGGCAGTTATG	23030	CCCCGAAGGGTTGGGAAAT	34014
389	CTGGGCCATCCTCCTGTCT	12047	GGGCCTCGAAAGGCAGAAATC	23031	TCCAACACCATCCGCTCTTC	34015
390	TGGAGAGTGGGGAGGAGCTT	12048	GCATCCATCCGGGCAGTTTTCA	23032	GTGGGTGCCAGAGTTGAGATTC	34016
391	GGAGCATGCCGCCTTGTTACT	12049	GAAGAGCAGGAGCTACTTCTATCCAT	23033	GGCCGGGAAAAGGGAGCAT	34017
392	GTCTCTTCCCTGAAGTAGGGTTGT	12050	GACCCAGACTCAGTCAGTAGATG	23034	GTCTTCCCCATAGTTAAGTTGTCTCTTC	34018
393	TCACTCACATCATCATGTTGGAT	12051	CAAACGAAACCATACCCACTTC	23035	GCAGCTACGCATACAAATCACTCACATC	34019
394	GGAGCAGCATTGCTTCGTT	12052	TGGGGCTCCACAGCCAGAA	23036	ACTGGAAGCTCAGGAGCAGCAT	34020
395	GCCTCGCATCAGCAGTTTT	12053	GGCTTAACAGCCTCACCAAT	23037	AGGCCACTGCCTCGCATCA	34021
396	CCCGTTTGAAGAAATGATAGCTCGAA	12054	CTGGTGGGAGTGGGCTTATTT	23038	GGAATTTTGTTCCTCCGTTTGAAG	34022
397	GGGTGCTGTTCTGGCTTTGA	12055	GCAAGTGTTATCAGAAGTCCACCTTAGT	23039	TCTAAATGTTCTCTGGGTGCTGTTTC	34023
398	GGCTGTGGTTGTTGACAGAGT	12056	TGAGCCAAGACTTTCCTGTATT	23040	GGGTCTAATAGGCTGTGGTTGT	34024
399	CCCTGTGGAACAAAGTGGGAACT	12057	GCCAGACGCAGGCCTAGTAA	23041	GGCTGTTAGCCCTGTGGAACAA	34025
400	GCAAAGGCTTGCTGACAGTGA	12058	TGGCCACGTCCTCTCCACTA	23042	ACGGCAGAGCAAAGGCTTGT	34026
401	CAAGAGGACCTTCGGAAACTTTGA	12059	ACAGCAGGCTTAATCTAGAGGTA	23043	GGACAAGGCCCTTAAATTCATACCAAGA	34027
402	AGGCACACGCAGGTCTCATC	12060	CCCAGAGTTGAGTAGGACACATG	23044	AGCCCAGAGCAGCGTTCA	34028
403	GTGTAGAGGGGCACTCTATCTTG	12061	CTGCTTGCCCGCACTCTT	23045	TGGTAGGTAGAGGGGCAACT	34029
404	CAGACTACAAAGGTGTTGCTGTTTGT	12062	TGCCCCGCTCAGTTTGAAT	23046	GGGCCAAGCGTTCAGACTAC	34030
405	CTGCGTTGTGCCTACTCTGT	12063	CTGCCCTAGGGATCTGGGTGATG	23047	ATGCTCAGGCTGCGTTGT	34031
406	GGGTGCCCGCACTTAGCAT	12064	GGCTTGAAGGAGCCATCTGT	23048	TGGCTCCCTGAGGAGTGTGTTG	34032
407	GTGAAGCCAGACAGCAGTAATCA	12065	CCAGCTTCAGTGTGCACCAA	23049	CAGAAAAGTCTAGTGAAGCCAGACA	34033
408	GGAGGGTGAACAAAGCAAGATG	12066	CCTGAGAGCTGTACTGTTGCTCGAA	23050	CACAGACAACTGGAGGGTGAAC	34034
409	ACCTGCAGGAGCTAGTTAGAGA	12067	TTTCTCACTGGGTGGGATCT	23051	ACATACCTGCTGTACCCCAATG	34035
410	GCTTTCAGTCCCACTTGTA	12068	GCGGCAATTCCACATCTGA	23052	GCAATGAACACGACGAGGCTTTCA	34036
411	GTGAGGCAGGAAGGATGAGTTT	12069	CCAACCTAGGGCAAGTGGTTCT	23053	GACTGAGCTTGTGAGGCAGGAA	34037
412	GAGCTTTGGAGACAGTGGGGTAAC	12070	GGTTGCAAAGTACTGTGGGAATAAG	23054	GCATACTAAAGGAGCTTTGGAGACA	34038
413	CCAGCATCAGGTCACAATGAAC	12071	GAGGACTTGGGCCCTTCTCTATC	23055	GCCAACCAAGGCCAGCATCA	34039
414	ACTGAGGGCGGCATTGCTTA	12072	TCTGCGATGCGTTCCTGTT	23056	ACAGAGCGGTACAGCGGAATC	34040
415	GCGGCAAGGAGGGTTTCTAA	12073	GTGAAGCTTGGGCTGGTTTG	23057	GAGAAAGTGAGCATTGCGCATGAAAG	34041
416	TCAGAGTTCTGTCTAATGGAGGAA	12074	CCATACAAAGCAAGAGTGGGAAGT	23058	GGTCTTACCTTCAGAGTCTGTCTCTA	34042
417	CACTAGTCTGGAAAAACCAAGCACC	12075	GGGAGGGGTTTCCCACTAAGA	23059	GGGGAACATTTAGACACAGATAACACT	34043
418	AATCCTGGAACACTCTGCCTAAA	12076	CATCTTCCAATGTGGAGCTGTCA	23060	AGGGCCAATCTGGAACACT	34044
419	GTGTGAGCTAGTTCTCTGCTCTTC	12077	CAGCCGTGACTGCTCAT	23061	CCTTGACCAAAAATAGAAGTGTGAGCTA	34045
420	CAACTGCAGCGTGTGATTTTA	12078	CGAAAAGGGAGTGGTGCTTTC	23062	ACTGCCAAGTGGCTGCAA	34046
421	AATCGGCCACAGCCCAAGAGA	12079	CCCCTGCTGGTGGTCTGTTT	23063	CACAGCTGAACCTCAGGCAATC	34047
422	GGATCTTCTGAACACACATCCTT	12080	GGGCCTGGGTTCTCTTCT	23064	CAACAGCCGGGATCTTCTGAAC	34048
423	ATCCAGTTCCTGGGTGACTCT	12081	CAGTGCCTGTGGTTCTCACACT	23065	GGGCCTAGGTGTGTATCCAGTT	34049
424	GTTTTCTCCACCAACACACCTTTCT	12082	GCTTACACTGACGCTGCAACTGA	23066	CCTGTCGGAATGTTTTCTCCACCAA	34050
425	AAGGGGACTCGGAGGACAAGA	12083	TGCCCTGCACCTCTGATCT	23067	GGGTCTAAGGACACCGGGTCTA	34051
426	GGGCCAATGTGTCTCGTTTGT	12084	GGAGGCCACCACACCTCCTA	23068	TTCCGGTGGGGCCAATGTGT	34052
427	TGCCATGGCCTTTGCCTATAC	12085	TCTCAGCCGACTCAGATCACT	23069	GCATTGTGAGGCTTCTCTCTTTG	34053
428	GCTCTCAGGGAAATCATCCATTG	12086	CATTCTGGAGTGTGGGTGGATT	23070	CAGAAATCAGAAGCTCTCAGGGAAA	34054
429	CCTGGGATTTACCATGTCCCATAA	12087	ACGGTGAAAAATGAGGCTGTGT	23071	ACTCTTTTGGCTGGGATTTACCAT	34055
430	CGTGCTCCACTTCTCTGACAA	12088	GGGGACAGGAGGCATGAGA	23072	ATCTGGCCCCGTCTCCACTT	34056
431	CAGGGATGAGCCGCTGTTTCTA	12089	TGCCACTGCGTCATCTGTGA	23073	AACACCTGGGGAGGCAACA	34057
432	AGATCTTCGGGGCTCCAGACA	12090	GGCGCTGGGGACTTCATT	23074	AGGCAGGGAGCAGACAGAT	34058
433	GCATAGTCCACAGTAGGAAAAATGCAA	12091	CTCTGGCCCCACAATCAATGT	23075	GGTTTTGGGGCATAGTCCACAGT	34059
434	GGCAGCTGCAACAGTATGTCT	12092	ACCCTGTCCCAATACCTGTATC	23076	CCTCCCTCCAGCATGAAG	34060
435	GGTGTCTGTGATCCAGCTGATAC	12093	GCCTGACCTATGACCTTCAGTAAC	23077	TCCCTGGGTGGTCTGTCTGATT	34061
436	CTCAGTGGGCTTAGAATAAACCTGAAT	12094	GGAGCCACCATGACGACTGT	23078	CCCCATCCCATGCTTCTCAGT	34062
437	GGAGGTTTGGCTGGGCTTTT	12095	CCTGAGCCCTAACATGATCCAAA	23079	TGGCTTCAAGGTAGGGAGGTT	34063
438	AGGCGGGTCCCGAGGAAACA	12096	TGAGCCTCTGCTGCTA	23080	GGAGGGTGGCAGTGTGGTA	34064
439	ACAAGGGGCTGACTCAGCTT	12097	GTGCCCTTTGGCCACCAT	23081	GCTGTATCCAGGGAGGTGACAAG	34065
440	CCTGGTGTGCTCTGCCTTGAA	12098	GCTGGATGGGCAGACAGGAAA	23082	CCTGCGTGTCAAATCTCTTTCTA	34066
441	CCTCGTGGACACTTGGTCTTG	12099	ACACGGCCGTCAGTCACT	23083	GCTGTTGTGGTTAAGAGCCTGGAT	34067
442	GGAGATAGGAAAGTCATGGAGGGTAA	12100	TGCGTGACAAGGGGCAAGAT	23084	ACCAGGCATAGTGGAGATAGGAA	34068
443	AGTCTCATGGCAGGCTGCTT	12101	CCACCGACTCTGGGTCTCTT	23085	TGCCGGCTCCCACTCTCAT	34069
444	AGAACCCTGCACCTCTTTCT	12102	GGACCTCCCTGGATGAAGATGAGA	23086	TGCTCGGCAGGGTGAGAA	34070
445	GGCCTTAATTGACACCGCTAATCTTG	12103	GGGGACACCGATGGGAGACA	23087	GGCACCCGTTTGGCCTTAATTG	34071
446	GGAGAGGCTAAGGGGAAACAGA	12104	GTGGAATGCAGGACTGTGTCT	23088	TGGTGGGCAGGAGAGGCTAA	34072
447	ATGGTGGTGGCTGTGCGATT	12105	CCAGACCCTTGACTCTATCCAA	23089	AAGTGGGTGCTACAGAAGCATT	34073
448	TTGGGTGATAGGGCCGAGAATG	12106	TCCACTTCAGCTGCGCCAAA	23090	GGGCTAAGAAATGAGTGATTGGGTCATA	34074
449	ACACGAAAGCGGCGTCAGAA	12107	GTGTGTGATTTGGCCCGGATCT	23091	TTCAGGCTCTGAGACACGAAAG	34075
450	TGGGCTTCTGGGTTCTAGATGT	12108	AGAAGGGATCACCCACCTT	23092	ACTCCTGACCGAGGGAATGT	34076
451	GAAACCATCCATGTCTACTGTGT	12109	CTCCGCTCAAGTACCTTGAATTT	23093	CCCAAAGGAAACCATCCCATGT	34077
452	TCCCACTTACTACGCTCCAAGA	12110	GCTTGGACTCATGTACACGTT	23094	CACAGTTCCCTCCCACTTACT	34078

453	TCCTGCCCTAGCTGTGGCTTT	12111	CATCGCCACTACAATTCACCTCTGA	23095	AGCCGGGGAATGTCCTGTATTC	34079
454	CCGCAAATAGCCCCAGAACT	12112	CTCCCTTGCCACTTTCCTCTGA	23096	CCTTCTGATGCTTGGATACCGCAA	34080
455	TTTGGTTAGCGGGGCTCTCT	12113	GCCAAACACCTTGATGGCAGGTT	23097	GCAGATCAGGATTGCAGGCTTTG	34081
456	CCAGGATAAGAAATGTTGGCCTCCTT	12114	GTTATCCCATCGATTCCCTGCAT	23098	GGCCTCAGAAGCCAGGATAAG	34082
457	CTGTTGCCCTGGGATTAAAAATG	12115	TGCGAGGCAGAGCACGTT	23099	GGTTTCGCTCATGCCTCTGTTG	34083
458	TGTGCTACCTGGAGAGGGTTTC	12116	GGGGATGGGTTACAATGTATGTCT	23100	TTCCTGAGAGGGCTGTGCTA	34084
459	CCCTTCTGCAGCATGTGCATT	12117	GATTGGGGAATGCAGCTTACAGA	23101	ACCAGCTCCTTCCTCCCTTCT	34085
460	GCTAGGAATGGGAACATTGGCATCT	12118	CAGGCTTTGGGGCAACAGAGA	23102	GCACAGCTAGGAATGGGAACA	34086
461	GTCTTTACAAGCAGGCCCATTTG	12119	GGGGCATCTGCCTTCTGGAAT	23103	GCTAATGCTCAAAGGGAAAAAGTGCTT	34087
462	AGACCACCTGCCTAAGACCAA	12120	CACTAGAGCCAGCTCGGAATAC	23104	GTGGCATTGTGGAACAAGCAAAG	34088
463	ACCCCATCCCCACAGCTT	12121	CGGATTCTCAGAGAGCAAGCGTAA	23105	CCTGCCAGCAGGGCATTITTTCT	34089
464	GATTGGCTCTGTGCTCTGAGT	12122	GCTGCACCTTGGAGCAT	23106	CCTCAGATGGCTGAGGGAAGA	34090
465	CCTGCAGGGAACCTGCAACT	12123	TTTCCTGTCCTGACCACTCT	23107	GTTCAGGCCTGCAGGGAATA	34091
466	CTTTACAGCATTGCCTCTCTCTA	12124	GCTTTAGGGTGTGGAGTGAGT	23108	GGGTACAAATAGCCTTTACAGCATTG	34092
467	GGCCACTAGTCTGGGACAAAG	12125	GCCAGAGGACATATTTCCAAGCAATC	23109	AGGCAGCTTAGGCCACTAGTCT	34093
468	GTAATGTCACTGCGCTAGGTAAAGA	12126	CACAGACTCACAGGGGTGTTCA	23110	GAATCCACCCAGTCTAAGGATAG	34094
469	GGAGAGGGAATGCTGCGAAT	12127	CCCTCAGGCAAAATCCCATAACA	23111	CCCTGGAAGAAGGAGAGGGAAT	34095
470	GGAGGCACAGCAGGTCTGA	12128	CTCTCTGTCCTCTGGAGTAAGAA	23112	AGGGCAGTGCCAGCTGAGTTG	34096
471	GGACACCAACGATGACACAAAAT	12129	TCTCTGACTACCATCTTCCACTGT	23113	ATCCCCACGGACACCAACGAT	34097
472	AGGGAGCGGCATCCTTTG	12130	CGCAGCACCATAGTCACAGCAA	23114	GCAGCCATTCCCTCACCACAT	34098
473	TGCCAAGAGGCTTCTCAGTTC	12131	GCCTTGATGATGGAGCAAGT	23115	CCCCGGGCAAAACACATACT	34099
474	CCTGGGCAGTAAGCTAGCAATG	12132	GTCTCAAACCTGTCTTCTCTCAA	23116	ATCCTGGTCTGGGCAGTAA	34100
475	TCACCCCTCACTGCACTCT	12133	AAGTGAGGGCTGCAAGGAGTCA	23117	ACCAGGTGCCAGCTCCCTATAC	34101
476	GCTGAGAATCCAGAGACTGTGTT	12134	ACGTGGTGATCTGGGAGAGA	23118	GTGGAGCAGGACTAGCTGAGAATC	34102
477	CCACACCATACAAGGATCTCAA	12135	AGGCCGAGGAGCTGGACTT	23119	GCCAGAAATCCACACCATAAAG	34103
478	AGTGGATGAGAACTATCATGGCAA	12136	CAAGGTGTGCCAATCCAATATC	23120	GGGGACAGTTTCAAGTGGATGAGA	34104
479	CTTGAGGCAGTTCGCACTTCA	12137	GGTGGTGGTCCCTCAGTCT	23121	AGGTGAGGGCTTGAGGCAGTT	34105
480	GCCAAAGAACACGTCAAGTCTCA	12138	AAGGGACGGCCAGTAAAC	23122	TGAGGGAAACCAAACTGCATTCT	34106
481	TTTCCACTCTCCCTATTTCTGCAA	12139	AGCCTGGGGCCTGGGAATTA	23123	AGGCCTTTTCCACTCTCCCTTA	34107
482	CCACAGATGCAAAGAGAGCACTTC	12140	CACCGTGGCTGTGTGGAGAT	23124	CCCTTACAAACCCAGATGCAAAG	34108
483	GGGAGTGTCTGTGGTCCAGAAT	12141	TGGAGAGATGGGCTCTCCTTAG	23125	CACTCTTAGGAAGGGAGTGTCTGT	34109
484	CAAAGCTGTTTGCGGTAGA	12142	CTGCAATACCTGCCTACCTACTCT	23126	ATAGGGAACTGGTGTGGTCAAC	34110
485	GCTGCGGAGGCCAGAAAGT	12143	CCCTGCGGGACTTGTGGTAA	23127	TCCCTGCCTGGGCTTGT	34111
486	TGTAGACAATGGGGCCACTAAG	12144	CAGTGGTGTCCCTAAAGCACTCT	23128	CAGGAGCTGAGGCTTGGTTTG	34112
487	TGTGCCAGTGTGTACCTTCA	12145	ACGGGGCTGCTAATAGGATTAAAG	23129	TGTTTTCTGTGTGCCAGTGTGT	34113
488	GGGTTCAAGCCAGTAGAATGACCTAT	12146	CGACAGAGGCTGTGAATCCCCAAA	23130	GCAGGGTTCAGGCCAGTAGA	34114
489	TTGAGGACAATAGAGAAGGTCTGTTT	12147	GCCACTGATCCAGGTGACTTCT	23131	AGCTGGGATGGAGGGACATTGA	34115
490	GCTGGATCCTAAGACAACACTGTAT	12148	GCCAGCTCGACAGTTTCTTACA	23132	GGTGTAATTTGCTGGATCCTAAGACA	34116
491	AGGCTGGCATGTTGGAGTCA	12149	AGTGGGATGGGGCTGTCTGTT	23133	CAGCCTCCAGGCAAAATTTCCAA	34117
492	TGTGAGCTGTTCTTGCCATGT	12150	GCAGAGTCCCTTGGTGGTGAAG	23134	GCAAGTTTGGCCATCTCTTGTA	34118
493	GTGTTACCTGGCGCCTGAATGT	12151	CAGGCCACATTTCCACAGA	23135	CGTCCATGAAGGAATAGCTGGTGT	34119
494	AGCTAAGTTTTCCAGGCGATGT	12152	TGCAAAACATGGACGGGTTGAT	23136	ACCCGGCTATACAGAGAATCTTT	34120
495	GTGAAAGAGCCATGATAGGTCTGA	12153	GTGTTGCAGCACTAAAACATCACA	23137	GTTTCATGAAAGTGAAGAGCCATGA	34121
496	GATGCCCGCACTGTCTAGA	12154	ACAAAGGGGAAATCCAATGGTCACT	23138	GGGACAAAATCGGCTCCTCAGA	34122
497	TCGCCCTTGTGGATCCAAGT	12155	GCTGGGAAGCTCTGCCTCAA	23139	ATGCCCTGAATCGCCCTTGT	34123
498	AGGGGACGTCTCCAGGTT	12156	TGGGAAGTCCCAAGCTCCAA	23140	CCCACACCTCTTCCCAAGGAA	34124
499	ACCCTGCATCGGGTCTCA	12157	CCACGGAGGAAGAACCAGAAGT	23141	GCCCATGGGTAAAGCAGGAA	34125
500	GTCTGTTCCCGCAAGGTTGA	12158	ATCACCCGAGGACCCATGT	23142	ACTGGCCGGTGGTCTGT	34126
501	GTGTTGTTCTCTTCCCAAGGAAT	12159	AGGGGCTCAAGTGGGCTCTTC	23143	CGCTGCTCTGGAAGTGTGTGTT	34127
502	GTCTCAGAGATTCACAGCCTACA	12160	GAAAAACGGGTTAGGGCAGAGA	23144	TGGCCACAGAAAGGGTCTCA	34128
503	ACAGATGCCAGATGCAGAAGAAA	12161	CGGAATGGGATGCCTTGGAA	23145	TCTCTGGTTAACAGATGCCAGATG	34129
504	GGCTCTGAGGTCTATCTGTATCA	12162	CAGTGTCCCGTGCAGAT	23146	CCCCAAAGGCTCTGAGGTCATC	34130
505	CAAGTCCCTCCCAGCAACAA	12163	TGTACAGATCAGTTGGTGAATGT	23147	GGACATGACTCCCTGGGACAA	34131
506	CGCTCTGTCTCTGTCACTTT	12164	CCAGGACCCGAGATGGTCTGT	23148	TGTCTTAGCTGCGCCTCTGT	34132
507	GGATACCAACCCGCCAGAA	12165	AGAGACCAAGGGCTCTCTCTAA	23149	GCCAAGGGCAGGTGGGATA	34133
508	CCATCATCTGGTTATGCTACAGTCT	12166	GAGGGAGGTGAATCCACAGAGAGA	23150	CCTTTCCAACCTCATCTCTGGTTA	34134
509	CTTGATGACTCCACTTCTCCATCA	12167	AGGGCCACCACGGTGAGAAA	23151	CCTGCCTGATACCTTCTTGATGACT	34135
510	GCCAAGGAGTGAACCGAGTTTG	12168	AGAGAGCCATCTCCTTCCAA	23152	GGCCTAAAGGCCAAGGAGTGAA	34136
511	GCACCTGTGTAGGGGTTCACT	12169	ACTTCTGAGCAAGTGTGATGTGA	23153	CAGTCTTAGCGACCTGTGT	34137
512	GTGGCCCAAGGCTGCTT	12170	GGCGACAGTCTCTCTGACTTA	23154	TGGTCAGCGTGAAGCTCTGT	34138
513	CACAGGAGGTCAATTAAGGTTCAACA	12171	CAGATTGGCGACCCACCTTAT	23155	AGGCTCCACAGGAGGTCAAT	34139
514	GCAGACATTGTATGTGCGTGAACA	12172	GGCCTTCTCAAGCTGATGGTTGA	23156	TGTGAAGAAAGGGCAGACATTGA	34140
515	TGGGTTTCGACGGCTGTT	12173	GCTGTCATCTAATGCTGCCATGTT	23157	CCAGTGTGGGATCTCAGGCATT	34141
516	ACCACCACACCTAGCTGCAAAAG	12174	GCTGCTCAGAGAGAAATGTCAT	23158	GAATTTACTCTGACCACCACCTA	34142
517	TGTCCCTGGGGCACTGAA	12175	GATCCGCTGAGAAGGAACAAG	23159	TGCTGTGTGCAGGGACTGT	34143

518	GTGGGGTAACAGCCACAGGTAT	12176	ATGCCCTCGAGACCAGTAGAA	23160	TCAGGTGACAGGTGGGGTAACA	34144
519	CTGCCGAGACTATGCTCAGTA	12177	GAGGTTTGGGGTGCGAATGAT	23161	GAAACCAACTGCCCGGAGACT	34145
520	GTCACCCAGGCCATGTGAACCT	12178	GCAGAAGTTGCTGTTCTGTTT	23162	AAGGAAGTGGCCGAGTAGT	34146
521	GGGCCATGTCTTGCTCTGTAG	12179	GGGCAGAGGCAGGACCATTG	23163	AGCGCTGGGCCATGTCATT	34147
522	CCCCAAGATGCTGCCATAGTTC	12180	GCTGGTATTTTCGTTTCTGCATGT	23164	GGTTAGTTCCCTTTATTGCCCAAGAT	34148
523	GCAGTTGGTAAAGGCAAAGCTTAACGAAA	12181	TTGCCCTCCTCCCCTCAA	23165	GTGTGCAGTTGGTAAAGGCAAAG	34149
524	AGACTAGGCAGGGTACACACA	12182	ACATGCCTACACCCAAAGTCATC	23166	GTGATTTTCCAGCACCTCCCACTA	34150
525	GTGAGCACAATTTGGATCGAGTGAGA	12183	TGCCTGGAGGAAGGAAGTCA	23167	GGGAAACCTCTGAATAACTCACTCTGT	34151
526	GAGTGGCTAGCTCTCAAGACACA	12184	CCTTCCCTCTGGATTTTGGGTTT	23168	GTCAGTGCTTTTCATGGCATCTT	34152
527	GTGTGGGAAGGAGGATTCCATGT	12185	AGCTCCTCACCCAGCCTCAA	23169	AAATTACTCCATGGTGGGAAGTGT	34153
528	ATGTGTAGGTCAGACCCAGAAGT	12186	ACACCTGTGGACCATGTCTGA	23170	GCCTGATTGAACCCCTACAACA	34154
529	CGTCCAGGAGACAGTTAACCTCTTG	12187	GCCCCAGGTATGCTTGACCATT	23171	CGGCGTCCAGGAGACAGTT	34155
530	TTCCAAGAGCATTCAAGTGTCTT	12188	ACCCAGCAACCCAGGAAATC	23172	CCAGGGTCTTTTCAAGAGCATTTC	34156
531	AGCAGCTCAAACTATGCCAAAGA	12189	GGAGACCAGAACATGACATCCAAT	23173	GTTTCTCAGGATAAGCAGCTCAAAAC	34157
532	AGTGCCAGAGCCCGTAGAAA	12190	CTGGGCACCTTGCAGCTTTT	23174	TGACCAGGCAGAGGGCTGAT	34158
533	ACCCTGTGCCTAAGCTGAAGT	12191	AGGCCCTGTTTCCCTGGAATG	23175	TTGGCCACCCAGAGCAGTCAT	34159
534	CTGTGCTGGTGTCTTTCA	12192	ATCTGCCGAGCCAGGTCATT	23176	GCAGTGATGCGATGTGAGTCT	34160
535	GATGGGTGTGCAAGGCAAAG	12193	GTGTTTGGCCCAACACCTCTGA	23177	GAAACCTAAGGATATCAAAGGGCTGAT	34161
536	GGCCCATTTACCTTTCTATCATGT	12194	AAGGTGTGCTTTCTCTCGCTAT	23178	CAGGCCCAATAGGCCCATTTAC	34162
537	CAAGTGGATTGTGGGTGGACACT	12195	CCTTAGCTCGGTGCGCTAAACT	23179	CTGGGTGAGTCAAGTGGATTG	34163
538	TGTTGTGACATTCTGGTGCTAAA	12196	CCCACTATGGCAAAGATCCATCA	23180	TGTGCCGCTGTGTGACATTC	34164
539	AGGCAGGCGATGAGCCAAAT	12197	TGGCACCCAGTCATCTGCTA	23181	GCCAGGCATCCAATCCCTAAG	34165
540	GTTCCAAATCACAGGACAGGGGTAT	12198	CATCCCGTGTTTCAAAGGAAAG	23182	TGATGTGCTCTCTGTGTTCCAAAT	34166
541	GGAGATGCAATCGGCCATAA	12199	AAGGACGTACAATTCGGAGTCA	23183	AGGAACTCTGGGGAGATGCAA	34167
542	TGTTGGCCAGGGGTAGGTT	12200	TCCTTCCCTAGCTGGGCCTTT	23184	CGTTGCTGCAATCAAGTGTGTTG	34168
543	GTCATGGGGACCTGGATTGCTA	12201	GGGGCGATAGGCACACACA	23185	GACACCTCTCTATCTGTGGAATG	34169
544	GCCACATGGACACCTCACACTT	12202	CTGACATAGGTGGCTGGAGTGA	23186	AAAGGTAATGTCCATTGCGCTAGAT	34170
545	GGTTTTCTTATCGGTGTTTGAGTCTAC	12203	CGCAGACAGAGAAGCAGTCTA	23187	CGGAGAAAATTTGGTTTCTATCGGTGTT	34171
546	CAGGGTGATAAGTCCACAGCATTC	12204	GACTGCCGCGAGCTCTGTAA	23188	GCACTAAACGCCAGGGTGAT	34172
547	CAGCACCCAGAGAGCAGCTT	12205	GCCATGGTTTAGGGTCTCGAT	23189	AAAGGGGACCTGCCACCTTCA	34173
548	GCGCAGGCGCAGCATTATT	12206	CTCCCCGGGTAGAGCAGTGA	23190	TGGTGTGAGCCTCGTTCCTTCT	34174
549	CACGACACACACGCAATTCA	12207	CAGTGGGCTTCCCTTTACGAT	23191	CACCACACAGGTGCATCACA	34175
550	TCCCATCAGCACCAAGTGAAG	12208	CCGATGGCCAAAGGCTCTCAA	23192	CCCATTGCCAAAAGCAAAGTGT	34176
551	GGGAGATCATACAGAGAGGAGGTT	12209	ACACACTTCATCACGCCTTGT	23193	AGGGCCACAGCAGAGGAGAT	34177
552	TCAGGCTAAAGACATTGCTGTAGAA	12210	TCCTTGATCTCCCACTCCATTTT	23194	CTGCGTTTGTGTTTCAGGCTAAAG	34178
553	CCCTGTCTTCCATGCTGCTAA	12211	ACCTGGCTGGCCACTTCTCA	23195	ATGTTCCAGGCCCTGCTCTT	34179
554	CCTAGGAGGGTAAAGCGGAGTT	12212	ACCTGCGCTGCTCGTGTTT	23196	CACGCGGAAGTAGCAACCTA	34180
555	TTGCCAGCTCTGCCCTGCTA	12213	AAGTCTCAGGGCCACTCCAT	23197	ATGTGCTGCTACCCCACTTG	34181
556	GCACCAGGAGTGTGCTGAAGTT	12214	ATCAGGCCAGAGAGACATGA	23198	TGGGTGCACAGGAGTGT	34182
557	GTCTCTGACAATACATTAGCCACTA	12215	GGATGAGGGGCTGGCTTCATAC	23199	CTCAGGGACTAAGTGTCTCTGACAA	34183
558	AAGGCTCGCCTGAGGGTGAA	12216	ACCCAGGGAAGCAAGCAT	23200	CCTAAATACAGGGAGTGGGATGTAGAAG	34184
559	CGTGATTAAAGTACGGCTGCCTGTT	12217	CGCGTGGCTGCTGTGAGAA	23201	GCTTCTCCACCCCGTGATTAAAG	34185
560	GACCACAGAAATTGGAAGGAGCTA	12218	AGCTCAAGGGAAGATGTCTCCTA	23202	GGAGAACCTCCGACCACAGAAA	34186
561	GGCAGCTTCCCTTCGCTCTT	12219	GCCCTCTCAAAGTTAGGACTGA	23203	AGTCCCAAGGAGGAGCAGTT	34187
562	GCCTGCTGTTGGGTGAATTAAGTGT	12220	TCGCCCTAGCCCTGGAAATTCA	23204	ACCCAGAGCCTGCTGTT	34188
563	GTGATGCTGCTACGGAGGAA	12221	GGCAGATGTCGCGAAGTTC	23205	CTCAGCTGGAACATTTGTGTGAT	34189
564	CCCGAATGCCAGTGACAA	12222	AGACTCCGTCACCTCCACAAT	23206	TGGAAGGGACGCCCAAT	34190
565	AGGGGCTGAGTCTTTTCTTC	12223	TTGTAGCGTTCGAAGAGCAA	23207	ATTTGGCTGGAGGGGCTGAGT	34191
566	GCATCAGAGCAGTGGGCTTACA	12224	CCAGAAAACCTGTAGGCAAGATGT	23208	GAAGTCAGTGTGTGAGCATCA	34192
567	TGGAGGGAGGGAGCTGTTC	12225	CGACTCACCCGCTCAGCAAA	23209	CACCGTGTCTTAAGGGTCAGT	34193
568	TGGGAGGGCCAGAGACTCATT	12226	CTGCGAGGCCTCTCTCACA	23210	GGAGCCACAGAATTAGCACAGTCA	34194
569	GAAGAAAGCCAGGCCTCCAAAAC	12227	CCTGTCCCTGAGCCCTCTGT	23211	CAGATTTGGCTGGCATTTCAGAAG	34195
570	ACAGTTGGGGCAAGCACAT	12228	ACGGCTGCTCCTTCAGTCA	23212	CCTGTCTGCTTTTGTGCAACAGT	34196
571	TGCAACGCGAGGGTGAGTT	12229	CTCGAGCCTTTGTGGACATCT	23213	AGAGAGGTGAGACGGTGCAG	34197
572	GGAGAGATGCGTCCATCACAGA	12230	CATGCACACTCTGCCTCGAA	23214	CGACAGGGGAGCAGGAGAGAT	34198
573	GGATGGCTTCAAGGCAGTTGA	12231	GCCTAATCACTCTCATCAAG	23215	GCTGGATGGTCTAGGATGGCTTCA	34199
574	CACCTCTGGGGCACTTGTGT	12232	CGGACACCAACTGTCTGTTTTG	23216	CCAACCTCAGCACATGCATTTC	34200
575	CTCTTGCAAAATCGAGGAACGAGAGA	12233	CCACCATGCGCTGTTCTCACT	23217	GCACGCACCTCTTGCAAAATC	34201
576	ACCTTCAGGGCCACCAAGTGT	12234	GATTTAGTTGACACCTTCCCAAGTT	23218	CACACCTTTTCTCAGGTACACCTTCA	34202
577	TGCACTCACTCAGGGCAGAAGT	12235	TGTGCTCGCAGCTGTGGTTA	23219	TGGCGTCTGCACTCACTCA	34203
578	GCAGTGCGGTGTTCTGTCATCA	12236	CAGCCCCCTGTTTCTGTTCT	23220	GCTATGAGGCAAGTGGCTGTT	34204
579	TCAGGCAGGGCTCAGAAGTGT	12237	TTCTCTTCCGCCCCAACACT	23221	AGATGGGGCAGCAGCATTCA	34205
580	TCCTCTGCTTCAAGCACTGT	12238	CCTCTGAGACCTGAATGGTGTGA	23222	CTCATGACCTTTGCATTGTGCTAT	34206
581	GGAGAAGACTGCGGAACACACA	12239	GGAAGAGCCGTCTCCCTTGA	23223	TGCTCCCACTCTTGGTGT	34207
582	CACCCCTAAGTTTGAGATCTGTTGATT	12240	ACGTGGCCCCAGGTGTGACT	23224	GGCTCTGCACCCCTAAGTTTG	34208

583	TGCCCCCTTCCAATCCTGTGTGA	12241	GGCTGCAGCAGAGACTGCTTT	23225	CTTGCTGTGCCCCCTTCCAAT	34209
584	GCCACAGGGGATGAATAAAAAGCAGTA	12242	CTCAATGAGACCGATGCAAGTTC	23226	AGTACAGGCCACAGGGGATGAA	34210
585	CAAAGATGGGTCAAGTTCCTCTCA	12243	TGGACACAGAGGCAGAAAGAGAT	23227	AAAAGCCACAAGATGGGTCAAG	34211
586	GGTGGGCCCGAAGCAAACT	12244	CCTCGCTAGCCAATCTTCTGA	23228	GCAGCCCTGAATTGGAAGTTCT	34212
587	AAGGCTGCCCTGGTCAAAACA	12245	AAGGCTCCCTGCATCCTAAAG	23229	CCCATTCCCACAGAGCAGGAA	34213
588	TTTTAGGACAGCCAGTCGAGAA	12246	CCAGGCTAGACACAGAGGATGTTTAC	23230	CCCACAGGAGCAGGTGTTTTAG	34214
589	ACAGTTGAAGTCCAGGCTTATTGA	12247	AGAAGCAGCATATGGTGGAACT	23231	CAGTAAATGGTGAGGCCACAGTTG	34215
590	CAGTGGACCCAGATGGTGACTTC	12248	GGTGGTGCTGGTTGGAA	23232	ACCAACCACTGGACCCAGAT	34216
591	TGCTTTAGGGAGCATGGAGTACA	12249	TGCTTTGCTGGGGATCTTTTCTT	23233	CTCCAGTTCACTAAGGAACATGAAATGCTT	34217
592	CCTCAGTCTTAGCCTGGGCTCTT	12250	CCTGACCCGAATGCCAACTTCA	23234	GGTCTTCCATGTCCCTCAGTCT	34218
593	ACAGACCCAGGACGCTGAAG	12251	CTGATGCCCAGTGCCACAT	23235	TCCTGTGGCTGAAGGACAGA	34219
594	CGAGGGGCTTTGTACCACTGTT	12252	ACGCTGGCAGGCTCTCAATAG	23236	AACTGAGCGAGGGGCTTTGT	34220
595	CCATCTGGAGCAGGGGAGAAG	12253	GCCTTGGCCCCCTCAAACAAG	23237	GGAGCCACAGGGGATGGAA	34221
596	GGTTACCCCATTCATCTTCTGTGA	12254	TGCTACCTTTGGCAGGGTGA	23238	TCCAGCAGGCTGAGGCATTG	34222
597	GGGAGAGAGCTGGCGTTCA	12255	AGAAGGAACGGCTCCAGTGATG	23239	TCCTGGTCCGGGAGAACGAT	34223
598	CCTGCATGTCTCTGTCTCTTG	12256	GCCTAAGGTTTTCTTAGTCTTGGA	23240	AGGGAAGCCTGATGTCTCT	34224
599	CCGCACAACCTACTATTGCTGTTG	12257	CCAGAGGAAGCTTGTGTGATGAGA	23241	GTCTGGAACCCGCACAACCTTAC	34225
600	AGGAGTGAATCAAAGGATGGAAGTAG	12258	TCTCCACACACTTGCCTTT	23242	TGGGTTTTTCCACCATAGCAAGA	34226
601	GTCTTCTGAGGGGTGAAAACAGT	12259	GCAGGCACCTGCAGTCACA	23243	GGACCGCACGCTGTCTTCT	34227
602	AGGCCCTGAAGTTGCTGGAA	12260	CCAGCAAAGGCTCCTTCTTCT	23244	GGTGGTCCCTTGTGAGCAT	34228
603	GTGAGTAAGTCAACAGTGATGAGGAA	12261	CGCCAAAATCTACTGGGACTTT	23245	CACCTCGTTTCATATCCAGGTGAGT	34229
604	CCAGCACAGAACCACACGTT	12262	AGCCCTGCCGAGTGACGAT	23246	TGGAAGTGCACACAGCAGAA	34230
605	AGCTGCCGCATCTTGTCTTTC	12263	CTCCACCAACCTTCTCAGAACAA	23247	GTACCCCTCAGGCCCACTTTA	34231
606	GATGGTCCCAAGGAGCCAATGT	12264	AGGTTAGAGCCCTGTGCAA	23248	AGGAGGGGCTCAGCATGGAT	34232
607	CGTGAGACCTACATTACTCTTG	12265	GGAAAATGACGGTGGAAGAGA	23249	TGGACGTGCAGACCTCACA	34233
608	GCCTGAGTGTCCATGAACCTGT	12266	AGGTACATGGGCTCAGAGACA	23250	TCAAGGAAATGCAGTGGTATGTGT	34234
609	TGGATAGCTACATGCTTGCTTCTT	12267	GAGGTGGGTTTGACGTGTTT	23251	GGGCAGTGGGTAAGAAGAACCCATT	34235
610	CGGAGCCACTTTACTCCCAACA	12268	TCCACGCTTCTAGCCTTTCTT	23252	TAGGCCACGGAGCCCACTTTA	34236
611	CTTAGCAAAGAGCCTTCTGACTGT	12269	GCAACATAGAAGCAAGGCAGTTTTT	23253	CGCTTCTGTTTAAATGCCTTAGCAA	34237
612	ACAAGGGAAAGCTGAGGGTTCT	12270	CACAGGGCATGATTTCTGCTTA	23254	GGCGAGGTTTCAGAAACAGGGAAAG	34238
613	CAAAGCACCAATCCTCTGTGTGA	12271	ATGGGCGGAGTGTGTTCAA	23255	CTGTATCTGTGGGCTTTTCTTCA	34239
614	GGGCAAAAGAACTACTCTGGTCAGT	12272	GCTACTTCCCAATTTGGTTGACACA	23256	TCTATCCCATGCCGGAAGGCAAAAG	34240
615	CACCTCCACCCCTCCCTACA	12273	TGCTGGGCGAAGGCTCAAA	23257	TCAAAACAGAGTCTCACTGTCACTT	34241
616	GCACCTTTCGCTGGAAGTTTC	12274	ACATGTGACCCAGGGATGT	23258	GGCCCTCTCTGGGCACCTTTG	34242
617	CTCCGCCACAACCTGAAATCTCT	12275	TGGTCCCTGTCTTGACGTCT	23259	CCTCATATTGCTCCGCCACAA	34243
618	TGGGCAAGAGTGTGGAGTCA	12276	CCCAGACCTGGAATAGGACTTG	23260	CCTTGTTCTCCGGCGATGTT	34244
619	CCGAAATCATTGAACGAGCAGGCTAT	12277	AGGGCTGCCCTTCACTT	23261	CTGATGTGTACCCCGAAATCATTTGAAC	34245
620	CCACCTAAGCCCTAGGATCATCT	12278	GGCTGAGGCAAGGTTTTGCAT	23262	GGCTCCTCCATTTCTTCCACCTAA	34246
621	CAGCAGGAAGGGGTGAGTTC	12279	CCTCCCTTCTCTCCACTGAT	23263	CACATCAGAAACGTTGGGCTGATAC	34247
622	CGCTGGAGCCTCAAATTGGTT	12280	AGTGACCACAGGTGCAAGAAG	23264	TCGGGCCAGCCAGATTACT	34248
623	GTCTGGAACCAACAGAATTGTCACT	12281	TGTGTATCCTTGGGATCTGGTACA	23265	CAAGAATTTCCCTGTCTGGAACCAA	34249
624	CAAGACCTTGAGCGCTCAAGAA	12282	GAGCTTTCTTGATGCCTTACAT	23266	GGCCAGCCCAAGAGTAGTAACAA	34250
625	GTCAGCAAAGGAAGGAGTACCAT	12283	CGCAGGCTTCTGTGTTGA	23267	GACAGAGGGCTAAGGTCAGCAA	34251
626	CAGAAGTCATTGCTGAGGAGGAA	12284	TGACCTGAAAGCTTTGTTCAT	23268	CAGCCATCACCACAGAAGTCA	34252
627	CTGGAGAAGATGCAGTCGACCAT	12285	CCTCTGGAGGCCCCACTGTAAT	23269	TGCCAGGTGCTGGAGAAAGA	34253
628	AGCTCTACTTTCACAGAAAGGAGTTG	12286	TCTAGTACATGCCTTTGGTGGAT	23270	AGCATACCTCTAGCTCTACTTCACA	34254
629	CCTGCTCCTGTGGCCCTTA	12287	GCATGGAACAGGGCATGACT	23271	CCTTTGTGTGTCTTCCAGTTC	34255
630	CCAGCCTTGCTTCCCTTCAAT	12288	CGCTTGTCCCCACTCTTACA	23272	CAGTTTCCCAGCCTTGCTT	34256
631	GGGGCAGGGAATACAGGAATTT	12289	CACTCTGTGCAAAACAGTTGTAG	23273	TTCACTGAGGGGCAGGGAAT	34257
632	GAAATACTCAATATGCCCTCAGCAT	12290	TCAGCACCCATCTTGCTCATC	23274	GGCCAACTTGGTGTAATAATCCCTTGAA	34258
633	GTGAGGTGTGGAACGAAAGGTTTG	12291	GGAGACTCTACCCCACTT	23275	GAGTTACCAGTGAGGTGTGGAAC	34259
634	TTGATTGAGCGGGAGCAAAGA	12292	GGGGATTGTTAATGGCCGAGACT	23276	CGCTCCACGGCTTGATTGA	34260
635	CAACCCGAAGAATCTTGTCTCTCAAG	12293	ACCCACCACTTGACAGTTAC	23277	GGCACCAACACTAAAAATCAACCCGAAGA	34261
636	GGCATGGGAATAAATGCCAGGTGAA	12294	GGGTCCCTAAGCACTGTGAGAAG	23278	TGCTTTCTTGGGCATGGGAATA	34262
637	GGAGACTTGGAGGGTAAGGCAACT	12295	AACCAAGCCTTGCGGTAAAG	23279	AAGCCTGAGGGCAGGAGACTTG	34263
638	GCAGTTTTTGAAGGCTAGTTATGTTT	12296	CCTAGGGAACAGTCCACTGAGAGA	23280	GCAGAAATAGCCAGCAGTTTTGAAG	34264
639	GCAAGGTCTGAGTGGAGAGGAT	12297	GCCCGTGTGTTGAAGCTACTGTCT	23281	GCAGCTACTTGAAGGTCTGAGT	34265
640	ATTGCAGCTCCAGGCTCCGAGAT	12298	GCCAACCAAGTTGAGTTGGGAGTCA	23282	CCTCATTCTGGAATGCCACTTTTG	34266
641	CAGCCCTCTCCTGTTCAAGTGT	12299	GCCAGCTAGTGGCTTAAACCAAGT	23283	GCACCTCACCAGCTCTGTCTCA	34267
642	CGAGGGTCGTTGGCACTTCAAT	12300	GCTTCGCCCTGAGCTGTCTT	23284	GGCGTGGAAGGATGTCTAACAAGT	34268
643	TGGGAAAGAGCGAGATCCAAAA	12301	CGTGATCTACCCCACTGAGACA	23285	CCAAATGGGCAGGTGGGAAA	34269
644	TCTGCCAGCCGATGGAGTA	12302	AGTTGGGCATGGAGGCATGT	23286	ACTCCTGGGCTCAAGCAATC	34270
645	GTCAGTCCCTCTGTCTCTGTCA	12303	AGGCCTTGACAGGAGAGAAATG	23287	CTGCATTGTGAGTCCCTCTGT	34271
646	TGACACAAGAATCAGGTTGGTTGA	12304	CACCTCTGCTTTAGGTCTCAGGTTT	23288	GCAGAAGTTATAGCAGGGATGACA	34272
647	TTTATTGGCTACCCAGGTCCTA	12305	CGATGCTGAGACTAAGGAGCCTAAA	23289	CCAGCAACCTTTTGGAGTGTTT	34273

648	GATGTCTTCCCTGAACAGTCAGAA	12306	GTCACCTATTCTGCTCTACCCAAA	23290	AACAGCTTGATGTCTTCCCTGAA	34274
649	GCTGGGCTGGTTAGGGAAACA	12307	GAGCATCTCGAGAATTGCATTTGA	23291	GGACAGAAACAATATCCTGGTGAGAA	34275
650	CAACACTGTGCTGTATGGGAAAAT	12308	GACAAGTCAGCTGGTGAAGAGTGAA	23292	CCACCAGAGCAGGCTCTTACAAC	34276
651	CAACCCAGGAAGACACACCAA	12309	GCCTGTGGCAAACCTTGAACATGA	23293	CCAAATGTGAGGATCAACCCAGGAA	34277
652	AGAAGGTAGTTCACTGACCGTTA	12310	TCCACTGTGGTTTGAGTGGAAG	23294	GGAGCTAAGGCCAGAAGGTAGTTC	34278
653	GGGCTGGCAGATATGTAGTAGAAG	12311	AGACTCGCTCATTCACTCTCATTT	23295	ACAGAGTGGGCTGGCACATA	34279
654	GGCGACAACATTGCCAGGATCT	12312	GAATCCAGCTCAGCCCCCTCTA	23296	GTGTGTTGAGGGCGACAACA	34280
655	CTCAGCTCAGGTATTTGTGCTGTTA	12313	TCAAGCAGAACAGGACTGACAAT	23297	GCCGCCCTCTCTTTTCTCA	34281
656	GCTGCACTGCATACATACATGGAA	12314	TCTCAGCTTCCCGCTTCAT	23298	GAATGGGGCTGCATGCATA	34282
657	GGCAAAGTGTGGTGGCAGCTT	12315	AGGGCCCAGGTTCTTCTT	23299	TTCACCACACTAGTAAGGCAAAGT	34283
658	GGAAATCTGAGCATGTGGAGTGA	12316	TCCCTTCAGAGTAGACCATTGA	23300	GTGAGAATCCATTGGAAATCTGAGCAT	34284
659	CGATACCCAGGTACCATGTTGAGA	12317	AGCCAGGAAGCCTCAGAGT	23301	GGGCCCTGAATAACCAATAGCGATAC	34285
660	GGAAGGCCATTTGGCAAGAATC	12318	TTGCTCTACCTCTCCAGCTT	23302	GCCAGGAGAGGAAGGCCATTT	34286
661	CTTGGTCTGTCCCAAGTTGTAG	12319	CCCTGCCCTATTTTAAACCACAAAG	23303	CAAGCTGCCCTTGGTCTGT	34287
662	TCGAGAGAAAGATGGGGTAGAAAGT	12320	CCACTGCACCCAGCCAATCT	23304	GGCCTTAAAGAGGACATCGAGAGAAAG	34288
663	CCCTGCCTAACCCAACATCTGTGT	12321	AGGCAGGAAGCCTGTTTCA	23305	TATGCTCCACCTGCTAAC	34289
664	GTGGAAAAGGCGTCAGACTGT	12322	TGTGCAAACCTCTGTATGGAATGTA	23306	GGGTGGTGAGGTTTGGTGGAAA	34290
665	CCTGCGAGTTCTGGAGCAAT	12323	AGGGGCCCTTCTGGAGGTTT	23307	GGAGACAAACAGACCAAGCGAACA	34291
666	GGACTAGGTGGTGGTGCAA	12324	TCGTTCCACCATGCTTTTCTT	23308	GCTCTCTACTGGGATGGACTA	34292
667	AGGGCTTTTATGTGAGTGTGT	12325	TGCTTAAACGAACAGGGCTTTG	23309	ACAACCTAGGAAGAATTAGGCTTTTC	34293
668	AGCATCTGGCTCCCAAGTGCTA	12326	CTGCGAGGGTGTGGTATTTT	23310	CCTACCCAGGACAGAAAGCAT	34294
669	GGCAAGAGACGAAGTGGAAGCATT	12327	CCACCTATGCCACCAAGGTAT	23311	GTCAGGATAGGCAAGAGACGAAGT	34295
670	GCAAGCTGGGTGAAGTTATCTGTTTC	12328	CCCTCCCTCGCAGAAGTATAAG	23312	CTGAAGCAAGCTGGGTGAAGT	34296
671	GCCAGTTGAGGGAAGCCATCT	12329	GCCTTCTAATGCCACCCAGATCA	23313	GGTCCCCAATTCTCTGCCAGTTG	34297
672	GCCTCTTAGTGGGCAAGGTT	12330	GCCTCAGTCTCGGTAGCTTCA	23314	CCGAAAGAAATCGGCCTCCTTAG	34298
673	CGGAAACAAAACAACTCTCCAGAT	12331	TGCCCTGTGCCCTCAATTCT	23315	GAAAAGAGCTGAACAAACGGAAAC	34299
674	TGAGCCTTGTGCTGTGCTA	12332	ACCTGTACTCTCTCATTACA	23316	TGCTGCTCCAGCCATAGGTT	34300
675	TGGGAGGCATAGTCCCTGTGAT	12333	CGCGCTCTGCTCGCTTCTT	23317	AACACCCCTGGGAGGCATAGT	34301
676	TCTGTGGGGCACTTGACTTT	12334	CTGGAGGAGAGGGCAGTCAT	23318	GGCCCTCCAACTCATGGAAGT	34302
677	CAAAGGAGGTTCAAAGACCAAGTTGT	12335	GGGATTACAAAGTGTGCGGTTTC	23319	GCTCTCAAAAGGAGGTTCAAAGA	34303
678	CCTTAGTCTACTTTTTCCCTGTCAT	12336	GGATGGAGACGGCAGGAATG	23320	CATGCCTATCTCCCTTAGTCTACT	34304
679	GACCTTGCAAGAACGGAGTCA	12337	GGACAGAGAATCAGGTACGGTAT	23321	AGTCAGCTCAGGGGTGACCTT	34305
680	GACTGCCATCTGGCATTGAGAAC	12338	ACCTCGGCCTCAGGACTTCT	23322	CCACAGCACTGACTGCCATCT	34306
681	AGCGCTCCTGCTTTTTGA	12339	TGCTCACAGGCTCGGAGATAGT	23323	ACATGCTGAAAGCCAAAACCTCTA	34307
682	GCCAAAAGTGAGAGTTATTTCACT	12340	AGCAGTCAGGTGCTCCTCCTT	23324	CAGAATAGCACAGAGTGTACAGA	34308
683	TATTGGCCGCCAGCACTGT	12341	TGGTATGGGGCGGCAGTGA	23325	CCACATCCTGCCATAGGAGCTA	34309
684	GAGCGCTAGTCACTACTTTGT	12342	CCAGCTGACACAGGCTCAT	23326	TAGGGCAAAGAGCGCCTAGT	34310
685	GAGCCAAGTTGGTGAGGAT	12343	GTGTCAGTCTCCTTGAGTCATTTG	23327	GGAAATTCTGTAAGCTAAGAAGCCAAGT	34311
686	GAGAAAGGAGAGATGCATGGGTTT	12344	GGAGGATGCCCCATCTCA	23328	GCTCCCAACCCAGAACACT	34312
687	GGCCACCCCTGTGCATCTTTA	12345	GTGGTGCTTGTGCCACTGT	23329	GGCATTCCAGCAGTGACCATAG	34313
688	TGAATGGTGGCCGAATTGTGT	12346	GGCAGTGATAGAAGTACATTTG	23330	CCATGGGCACAATCCAAGCCTAT	34314
689	GCCCTTTCTGGAGGTACTTGAGCTTAT	12347	GGAAAGTCAGTGGTCAAGCTT	23331	GGGGCCCTTCTGAGGTTA	34315
690	GCAGTCTCCAGTGCTGTTCTTC	12348	TGTCACCTCTCTGCTCATAAGT	23332	AACGGCAGGTGAGCAGTCT	34316
691	CTTACCCACAGCCAGAAATGT	12349	GTTTCATCCCCAAGGACACAGA	23333	GTGGTTGCTTTCACCTACTTCTTC	34317
692	CTGGCTTGGAACAGAAACCATGACT	12350	GGGACTGGACCAAGAAGGGTATG	23334	GACTCCTGGCTTGGAACAGAA	34318
693	AAGGCTTGAGACGTGCTTGT	12351	CCATGGCAGAAAGCTCAGGAAAC	23335	GCAAAGATGACATAAGCAAAGGCTTGA	34319
694	GCTGCACTGAGCCACGAT	12352	GGTCTCGCTCTGTGACACCAT	23336	GGAGTATCACTTTAGCACTGGAGTT	34320
695	TGGCTGGAGCAGAGTGAACA	12353	GCTTCCCGTGACTGTCTCTAT	23337	AGGATCGGTGAGGCCAGTGT	34321
696	CCGCCATCAGGGGTGTATGTAA	12354	GAGAGGGTACTGGTAGAAGCATTTT	23338	TCCAGCCACCGCCATCA	34322
697	AGGGATCAGGGCCATCTTCA	12355	AAGTGTGGGGCCCTCCTAAG	23339	CCTCCACTCTACCAAGGCTTATAACA	34323
698	AGTCAGCAGGCTGGAAAAACT	12356	GCAGCTGTCTGTCTGCAATTC	23340	TACGCTGACCACCTGACAT	34324
699	CTGTGCAGGAAGCAAGGTAGAT	12357	CCTGTCTGTGTCATCTCTGT	23341	GTGGGTACTACTCTGTGCAGGAA	34325
700	TGAGTCAAGGTGATAGTCTTCTT	12358	CAAAGGCAAAAAGTGGCATCTGT	23342	TGAGGCATTTGAGTCAAGGTGATAC	34326
701	ACCTATAACAAAGGGGAAGTCAGGAT	12359	GAGCTACCTCTGTGGACTTCA	23343	TGCCTGGGTTAAGGCGCATA	34327
702	ACCTTCCCCACCATGTTCTACA	12360	GGAAAACCTCTGAGCCTCACATT	23344	GGGAACCTTACTGATCACTAGTACAAAAC	34328
703	CACATGCCAGTAAATGGAACAAA	12361	CGGCCCTTAGCTTGAAGTAGT	23345	CTCCTGACACATGCCAGTAAA	34329
704	CACCTGGAAGCTGAAGCCAAAG	12362	GAGGCTGCCTAGAGAGACAGA	23346	AGTGTGGGGCCACCTGGAA	34330
705	AGTGGGCGAGCGCCCTTAT	12363	GGCCACGATGGGCATTTG	23347	ATGTCCGGTGGGAGGTACAGT	34331
706	AGCCCTGCTGCGTGGACAA	12364	GGGGCTCGCGTCTCTGTTT	23348	AATACTGCCCTCCCGGACTACA	34332
707	CTTGGGAAAATAAGTGAGGGCAAAG	12365	CTGTGGGATGTCTTGAACTAC	23349	CACTGCAGCAAAGGCTTTCAAC	34333
708	GCAGCTTTTCTGGTGTCTTTC	12366	CTCGAGAAAGGCTTGGAGATACT	23350	CTCAGCTCTGTGCTGGATAATG	34334
709	GGGGTGGTTAAGTATGGGCTAGCAA	12367	TGGCCCTCAAGGAGCTGTA	23351	CTGATGAATTGCTGGGGTGGTTAAG	34335
710	AGTGAGCATACAGCTTCTCAGAAAT	12368	GCACCCAGCCAGCAATTGGATA	23352	GGTTTAGGTCTCCATAGTGAGCATA	34336
711	GGATCTAAGCAGTGATCTCTGTGT	12369	CCCCGATTCTGCGTTTGCTT	23353	CGGGTTCTTCTTGACAGGGGATCT	34337
712	GGTGACTGTGCACGCTTAAT	12370	AGAACCCTGGTCCACATGCTAAC	23354	AGGCTTCCCTGGTGACTGT	34338

713	GCTCAAGTACTCCTGGCTTCT	12371	CCAAGGCCCTCCTCTCTAAG	23355	AGAGCTGGCAGGCTCAAGTA	34339
714	CAGGATCTCTTTTGTGAAGGAGCTT	12372	CACAGGCAGTTAGGGTAGGTTCT	23356	CTGGGGCCTGCAGTTTGATT	34340
715	GGCAGACAAATCAGCCAGTT	12373	TCCCCACGATGGCAGTGAGTT	23357	GCAGCCTGAATCTTGGCAGACA	34341
716	GTCAATTGAAGTCGCTTGTCAT	12374	TGGAGCAATATGGTGCACTGTT	23358	GAGCTGTCCATTAACCAATTAATTAGGTCAT	34342
717	GGGACTACAGATAAGCACCAGTGT	12375	CACCTGTCAAGTTTTGCCGTCTT	23359	TCTCACCTTAGCCTCCCAAGT	34343
718	CAAAGAGGCCCTCATGCTCAGT	12376	GCAGGCATGACAGACTTTCCTT	23360	TGGCTGCCCTCCTCCATGAT	34344
719	TGCGTCTACAACCAAGCAAGT	12377	GC GTTCCCCATGGCATGTCTAAA	23361	CCCAGGAGTGATCTTGGTCTTACA	34345
720	GCCAGAGATGAATGGTTTGCGAATG	12378	TTGGAGTGGACGTCTTCTATTTT	23362	CGGGATTTTGAAGCCAGAGATGA	34346
721	CCTGTGCTATAGAATCAGCACTCT	12379	CAGGGCTCCCTCCTCCATT	23363	CCATATGAGCTCTCCCTGTGCTA	34347
722	TGTGTGTTTGGAGAGGGGAGAT	12380	CAGCACTGAGTTCATTGCCCTCAAAA	23364	CGGTGGTGAGATGGTGT	34348
723	GAAGCTCCTTACATTAGTGCCAGGT	12381	GCCATAGGAGAGACCTGAATCT	23365	TGGTCTCCTGGAAGCTCCTT	34349
724	TGCACTCAGAGGAGAAGTTAAACA	12382	GACTGCAACAGAGGCTGACCTA	23366	TGTAACACAGGGAAGATGCACTCA	34350
725	GGATCAAAGTTCAAGGAGTTAGTGTA	12383	TGCCCTGGGTGGTCTTGT	23367	CCTCCTGTGAGGATCAAAGTTCAAG	34351
726	CGCCACGACATTTGAGTCTTG	12384	CAGCAGAGACCTGATAGCCCTATGT	23368	GGAAATCCGCCACCAAGCAT	34352
727	CCGGCCAAGAAGGTAGCAA	12385	GCAACAGGTTTTGTCTCTGGTT	23369	AGCAGTCAGTCAGTTCAGCTA	34353
728	GGGCTTTCTGGCCGAGATGAA	12386	CCTCGTCTCCTCCATCCAAA	23370	CCTCAATGATTACCGGGGCTTTC	34354
729	GCCACAGGTTGGAGGCAAGA	12387	CTGGAACGGCCCCAGAGT	23371	GGCTCTCTTGGCCACAGGTT	34355
730	AGTGCCCTGCTCAACCAATAC	12388	TGGTGGGACATTTTCTGGAAG	23372	CACGCCAGAAATCAAAGCCAAAG	34356
731	TCCCTCTTGTTTCCAGGTTTTTGT	12389	CTGGTTGCAGTGTGGAGCAT	23373	CCTCTTAGCTGTCCCTCTTGTTTC	34357
732	GGAGGCTCCATCCACAGTCA	12390	TCAGATGTCAACCCCGCTAT	23374	ACACACCCACAGCTTCTTC	34358
733	GGGCAAAATCTGTGTCTCCAGATA	12391	CGGCGACTACTGGAGGCTTT	23375	GGCTGGAGGGCAAACTCTGTGT	34359
734	GGGTACAGGTTGACTCTGGGATT	12392	AGGTAGCCAGCAGTTCCTCAT	23376	GCCATCAGAGGGGTTACAGGTT	34360
735	CCTAGCTACAAGCGCACTCT	12393	TGGCTGCTCAGTCTGCTTA	23377	TCACATAGTATAAGGCCCTAGCCTACAA	34361
736	GAGTACTGAGGCAGGGAAGGTTT	12394	TCCGGAAGACACGAGAGGAAA	23378	GGGTCCAATGTGAAAGCACAGAGT	34362
737	CCAATGAGTTGTAGAGCTCAGATTGT	12395	ACATGGGTTTTGAGTCAGCCATT	23379	CAAGGCCATAAGGCCAATGAGT	34363
738	GAGGGGTGCTAGTCAACTGTGT	12396	GAACCTTGGCTCTTGCAAGTCATC	23380	CCTGAGGTGAGGGGTGCTAGT	34364
739	AATGCCAAGCCACCTGGAA	12397	TGACTGACTGGGCTTTCAGA	23381	GGCATGCTCTTCAAGGAGAAGTTAG	34365
740	AGGAACCCACAGCGGTAACGTA	12398	GGCAAGGCAGCCAATAAAGGATGTA	23382	TGTCCCGAGCACCACTAAGTTC	34366
741	TGCGAGCTGAGTGCAGCAT	12399	GGGCTGTGGGCTGTTTTG	23383	CGGGGAATTGGACACAGACTGGTA	34367
742	CTCCAAGTCCAGGATATATGAAGCAA	12400	CAAAGTGGTGAGTTCCTTGGGTTT	23384	GGCTTCTTCAACTCCAAGTCCAGGATA	34368
743	GCACAGAAATAATCGTGACAGAAA	12401	TTGCCCTCCCAGTGGCTTCA	23385	GGGCTCCATTGTGTCTCTCAAC	34369
744	GGGAGCAAACTCTTAGGAAGACA	12402	GGTGCTCTAGGGGCTCACA	23386	GGTTCTGAGGGAGCAAACTCTT	34370
745	TTTGGGTTTTGGGATGAGGATAA	12403	CAGTGAGGAACGTATTAGCCCTAT	23387	ACCCTCTTAATTGCTTTGGGTTTTT	34371
746	TTCTCCGCCAACCGTCTTT	12404	GGCATCGCTCCACCAAGT	23388	CGTGGAGAGGTATTTGGCAGTGT	34372
747	GCTACCTGAAGTGCTGATGGAT	12405	AAAGAAAGAGGCCATGTGGTACA	23389	GGCTGATTCTGCTGCTCTCAAGCTA	34373
748	CTTGATCTGTCAAGGGAGAAGAGAGA	12406	TCTGGCCACCTGGCGATTT	23390	CAGTTGCTGCATCTTGATCTGT	34374
749	GCAAGGGAGGTGATGGGAGATGA	12407	GACATGACCCACAAAGCCTTCTT	23391	GCACTGGTGGAAAGACAGCAAAAG	34375
750	CCGACTCTTGGTGGGTTGAA	12408	TGCCTGACCTCCATGGAAC	23392	ACCCATGACAGCCGACTCTT	34376
751	TGTGTTCTTAGAGACTCTGGCTTT	12409	GCCATGTGAGGCATAGACTT	23393	CCTTAGAAGGGCTCTCTCTCTGT	34377
752	ACCAGCTGTGTGAGCTAAGTTG	12410	AGAAAGCCGAGGCTCAGAGA	23394	CGGTCTGAACGGAACTGCCATA	34378
753	TGCTCTTCCCTGTCTTTGGAA	12411	AGGCAAGCTAGCTGATATCTTTTC	23395	ACCCTGGTCTGCTTGCCTTT	34379
754	GCAGGACTAACAATGGCTCAGA	12412	GGTGAGTGACCCAAACCTTCA	23396	GCTCAATCGAGGCAGGACTAAC	34380
755	CAGGAGCCACCTGGGAAC	12413	GGCATGCTTCAATATATCTCTAGT	23397	GGAGTTGGCCAGAACTTCCAT	34381
756	TGGAGAAGAGCAATCCATGTTGT	12414	CGGGAAACCTGGGAAGTGA	23398	CTAAGGGCTTGAGAGAAGAGCAAA	34382
757	CCAGGACCCAGAAGTACTCCCTAT	12415	CCTGGTGAGTAACGGAGAGTCA	23399	AGCCAAACAGGACCCAGAAGT	34383
758	CCTACCATATGCAAGGCACCAT	12416	CAGGCATGGGCAGTTCTTTTATC	23400	AGACACATTTGCATGCCCTACCAT	34384
759	AGAAGTCCAGGCTTCCCACTTG	12417	ACCCTCTGCTTCTGGTGTCAGT	23401	CACCTCATTAAAGCCATTTGGGAATAGAAG	34385
760	GGGCTTGTTAAATGAACCGAGAAGT	12418	ACGCTACAGTGAGCGGAAA	23402	GCAGCCAAAGGGCTGTGTTAAATG	34386
761	GCCACAGTAAACAAAGTACACAGT	12419	GGGGCATGGAATCAGGAACCT	23403	TGGGTACCAGTTAAGCCACAGT	34387
762	TGTGCAGTGAATGCAGAGACTAT	12420	TTAGAGTGGGAGCGGAGACCTT	23404	AGAGGGACTTATGTGAGTGAATG	34388
763	CTCACAAGCCTAGAAGGATATGTT	12421	GCAATGATCAGTGCGTGTTCAGA	23405	GCTGTTTTCTCAACGCTAGA	34389
764	ATGGGACACCTCCTGCTGAGT	12422	ACCACAGGGTTGGGAATGA	23406	AGACTGCCTGCTTTTCATCA	34390
765	GGGTAGCAGGGAGAGAGATTGGTT	12423	ACGGTGCCCGGCTATTTCT	23407	GCAGGGGCTGTAAAGGGTGTA	34391
766	GGCCTTGTTGCCCTCTCCACTTA	12424	GCATGTGCTGTTTCTAACCAT	23408	CTGGGTCTTCTATGGCCTTGTTG	34392
767	CACCTCATAGTGTACCCCTGGTTGT	12425	GCCCACCTTATACCTCGTCAACT	23409	GGTGCTCACTTCATAGTGTA	34393
768	AGAAGCTGCTTTCTGCTTGTA	12426	CCTCTGCGACCATCTATCA	23410	AGATGGAGGGCAGATTTCAGAAG	34394
769	GATTGTTTGTCTCAGAAAGAAGA	12427	TGGTGACGGAGGATGGCAGAA	23411	CACACAGAGCCTGGGCTTATATC	34395
770	GAACAGTTGGCGATAGGCTGAA	12428	TGCATCCACCTGTCTATGACT	23412	GCCTGGGATCTCTGAAGAACAGTTG	34396
771	GGCCCTATACTGCTTACAGAGA	12429	AGCCAGAGTTCTGCTTCTTG	23413	CCCTTGTAAAGCATGGCCCTATAC	34397
772	CACAGGTGATAGCAACCTACCAT	12430	AGGCTGCGAGTTTGGCAGAT	23414	TTCTCATACACAGGTGATAGCAACA	34398
773	CCTTGGGTGGAACCTGTGATTCAA	12431	GTCCCTGCTGCTGCACTT	23415	CCTCTTTGGCCCTGGGTGGA	34399
774	AGGCACCATGCTCAGCTCCTA	12432	GCACTATGCAGCAGGAACCTAAG	23416	GTGTTGGCCAGGCACCAT	34400
775	GCTCAAAGCTTGGGGTTCTAC	12433	ACAGGCCTGGTTGGCTTTGT	23417	CCCTGGCTACTGCCCATGTTT	34401
776	GCTCCAATGTCACTCCCTTCA	12434	CCAGGTCAAGGTATATTATGGAACA	23418	GCCTTGCTGTGAGTCCAATGT	34402
777	GCTGGAGTTCAGGTTGGACTT	12435	CCGTGGCACTCATTTCAAGA	23419	CATCTTTGGGGCTGGAGTTT	34403

778	GGGCACCCACCATTTGGAA	12436	GGGCTCACTTGGATGGTCTAAAG	23420	GAGCCACATCCCGTGAACA	34404
779	GCCAGTCTGTGGTGTTCATTGT	12437	CCAAGTGTGACAGTGTCTTTGTTT	23421	GAATGTGTCGCCAGCTCTGT	34405
780	CACCCTGGGAAGCTGACTGTA	12438	CGATACAAGTGGATGGCTTTCATTCT	23422	CCTGGAAGCCAGCTAGAAACCAT	34406
781	GTGGCATCTGAGGTGAGCTTTG	12439	CATCTCACCAAGATCTTGAGTGTCTAA	23423	GGAGAGGAAGACAGTGGCATCT	34407
782	GCCGGTAGTTGTGACAATAGGAAA	12440	AGGTGGAGCTGCCATCTTGA	23424	GGTGAATGCCGGTAGTTGTGA	34408
783	GGGCGTACTTCTTTTTCATTCTAC	12441	AGACACAGTTAGCCAGACCTATTG	23425	AGCCGGGCGTACTTCTTTT	34409
784	TCTAGGCTGGAAGTGGACACCAA	12442	GACATGTGCGGAGGCTTAATCTGAAC	23426	GCTGTATGTCTGCAAGTCAAGT	34410
785	GAGTTTCTGTCTTGGGTATGGGTTT	12443	CCTGCCTAAAGGTTTGCAGACAA	23427	TCCTCACATGAGAGTTTCTGTTC	34411
786	GAGACACCTGGAAGGACGAACA	12444	CCACCCAGATGGACCTCCCTTTTA	23428	CTCCAGCATCTGGAAGGAGACA	34412
787	GCTTGCTGAGAAATGCCTGTGA	12445	TGCCTGTGTGACTGCCCTTA	23429	CGGGAGGCTTGCTGAGAAA	34413
788	CCCACACACAAGTCTCACA	12446	GAATTCGCGCTCTGGTCTTTT	23430	TAGCCAGCTCCACACACAA	34414
789	TGGCAGGACAAGGGGTTTG	12447	ACCCAATGTCTTGTCCAGTAG	23431	TGGGCGTAGCACAAGAAATCA	34415
790	CCTATTCCCATGGAGCCATTGTTG	12448	GGCTGCAGTACACCCAGACT	23432	TGGGTTGCTCTTTGTCTTCAA	34416
791	ACCTTGCTGAGGGAGCAGTA	12449	GTCTTTGGGGTAATCACCCACAGTTAAA	23433	GTGGCAACCAACTCTGAGGCTAAC	34417
792	CAAGGCAGATGGGAGAAGAGCAA	12450	CACACACCTTTTGGCCCTTTT	23434	GGGAAGAATGCTGTCTCTCACAA	34418
793	CCACCTTCAGGCCCTTGA	12451	TCTGGAGGGGTAAGAGCTGACT	23435	ATTTCTGCGGTGCCACCTT	34419
794	GCAACATCTGGGGCAGACA	12452	GTAGGACCAAAACATGGAGACTGT	23436	CACAGAAAGCTGGGGCAACA	34420
795	TCCCAACACAGTGGCTAGA	12453	CACCTAGTGCCCGAGTCAGGT	23437	CCAGTACATGCTTTCCCAACACA	34421
796	GGAGTGGATGAGAAAGTGTCTTTCT	12454	CAACCATGTGTGCGGCAAAAC	23438	CCTTTTAAAGGAGTGGATGCAGAAAGT	34422
797	GTACACTAGCAAGTACCGGTGAGA	12455	GACAGCACATGCTATCCCTACTT	23439	GAGCCCCAAATGTACACTAGCAA	34423
798	TGAGGCTTGTTCCTCGCATGT	12456	AGAAACAGAGCTGTGAGGGAAGA	23440	GCCAGTGCTTTTCTTAATTGCTTTGA	34424
799	ACTGGACTACACTGGACTACTTTGAT	12457	AGGGGAAGGGTCCCTCATTT	23441	CCACTGGACTACTGGACTACAT	34425
800	CCAAGAGCCCACTGATTCTCT	12458	ACCTTAGTGACAGCTCAGACA	23442	CAATAGCCAGGGTCTGAATTGCAT	34426
801	TGATAGGCAACAGCAGACAGT	12459	AGGGCTCTTGAGACCAGCAA	23443	GAGTGCAGAAAGTGGGTCTTGA	34427
802	CCCGCGTTACAATGCAACTT	12460	GTGTGGATTGTGAGGAGGAA	23444	AAGCCCTAAACCCGCGTTAC	34428
803	CACCTTCAAAAGGCAGCTACAATC	12461	CAGCAAAAGCTGGATTCTACTCA	23445	AGCAGAAATCACACAATGGCAATAC	34429
804	TGCCTGGTGATCCTCCATCA	12462	GGCATTTGCAATTAAGAGCATTC	23446	TGCTTCACTGCTCTGTGTAT	34430
805	GCTGCAAAACGAGAAGTAAAGCAT	12463	CACCATGGGCCACTTTCTT	23447	ACCCTCCCGCCATCAAGTA	34431
806	GCCCTATGCACATTGGCTTGT	12464	CCTCTCTGATCATTTGGCAGGAAGA	23448	CGTCTTCTCCAGTTTCTGAGCCCTAT	34432
807	AAGGACTGAGCAATGGCTGTT	12465	TCATTGTAACTAGGGACTCCACGTA	23449	GGTCAGCTGTGTCAATAGGACTGA	34433
808	GGCCGACAGAGCCTCAACTTT	12466	CATATTACCCTGGGAATCACAGCAA	23450	GGAAGCAGGTGTCAAGTGTGA	34434
809	GGAGTCTGCAAGTTTGAGGTTTATATG	12467	TGGCCTGCCACATCCCTAT	23451	GGTCTGCTTCTGAGTCTGCAGTT	34435
810	CCTGTTTCAAGATTAAAGGCTTCT	12468	CCCAAATGGCAGAGGCTGTGT	23452	CACACTCGGTTCTGTTTCAAGATT	34436
811	AGCTTTGGGGTCCCTCAGTAT	12469	CCTGATTCCCTCAGTTCTGTCT	23453	ACACCCATCCCAAAGGGATTAAAAAG	34437
812	AGATCAAATCACCCAGCTTTGT	12470	TGCACTAATGTCTTAGAGGAGCTTTC	23454	CCTGTCTCCCTGGCAGATCAA	34438
813	CACACATGTCCCTGCAAGTTG	12471	CAAGGCCACACAGGATGTGTCT	23455	AGGCTTCCCTGAGCAGAGATATT	34439
814	GCGTCTGACATGTCTCTGTT	12472	GGGTCCAGGGTATAGGTGGAAGA	23456	TCTCTGGCTCCAGCGTCTGA	34440
815	CCGGCTCTTTACCCCACTTAG	12473	GCGCCTCTGGAAGGTGAGATT	23457	AGGGATATGGCCGGCTTCT	34441
816	CACCCAGAGCCCAAGTTC	12474	GGCCTGGTGTAATTTCTACCTACATA	23458	GTGGTGGTGGTGTGCTACT	34442
817	AGCCTGTCTGCCACCTGAAA	12475	TGAGTGAAATGCAAAGGCTGCTA	23459	CCTTCTTTTCACTAAGCCTGTCT	34443
818	GGAGCAGAGCGACCGTCAT	12476	CACCTGGATGATTGCCATTGCTT	23460	GAGAGATTGGAAGGGGAGAGATTG	34444
819	GCACCTGGACTAGTATTCCGGGAGAT	12477	GGTGCATGACAGATCCAGGACTA	23461	GGTGGAGTAAACACAGACTCGGACTA	34445
820	CTCTTCTGGCACAAGGTGTGTCT	12478	TTTCAGGCCCTAGCTCCAGGAT	23462	CCTTCAGGGCAGTGAGTTCTCTTCT	34446
821	CACCAGCAAAGAGGGAAGTTAGA	12479	CAGCCTCTTCTTAGAGGTGTGT	23463	TCCAGGAAAAGGAAGTGCACAA	34447
822	GATGTCAACGTACTGACTCCAACA	12480	GGCAGTTATTGCAGCAAGGAAATCT	23464	CGCATGTGTACCTTAATGATGTCAAC	34448
823	CCACAGCTTCAATTGGTCTCT	12481	GCCACCCTAAGTGTCTCATGT	23465	CCCTGAATGTTCCACCAAGCTT	34449
824	GGGATGGTTATCATGCCCTCTTC	12482	CAGGACAAGGTGCTCAGAGTTTC	23466	GCCTCCAGAGTATGGGATGGTTA	34450
825	GGTTCTAGATCCCGCTCTCTTCT	12483	AAGATGGAGGCCGCGAGTTC	23467	TGGAGGGGACCGGGTCTTA	34451
826	CTCTGGTACCTGAACCTTCCATT	12484	GTGAGGCTGAAGCCCATGA	23468	CCTGAGTTGTCTCCTGTCACTTC	34452
827	TGCTTCGAGGAGAGGTAGTGA	12485	CCACTTAGCATTTGCTGTATCAA	23469	GGGGACACGCTTACTGTAGTCTT	34453
828	GCACCTTGACTCACAGGGAGAA	12486	TCCAGGAACAACCGCACAGT	23470	TCAGCAGGAAAAGCACTTGACT	34454
829	GTTATGGCAGCTGACACAGTA	12487	GGAGCCCCAAGAACCTTGATT	23471	GTTTCCTTCTTGTGTCAGAGTT	34455
830	GTCACAGATTGAGGAGAAGCAA	12488	GGCTATCGAAGCCTTATGTCTA	23472	CCATACCAGACACAACTACAGTACA	34456
831	CAGCCTTTTCCATAGGCAATGT	12489	GTGACAACTGTGTGGGTGAGTA	23473	CCTGACTTTCTAGTTCAACTCAGCCTT	34457
832	GCTCTGGCTACTGCTATTGGTGTGA	12490	TGGGACACCTGAGTCATGGAT	23474	GTGATGCTCTGGCTACTGCTA	34458
833	ACACAAAGAGTTTCGATGGCCCTT	12491	AGTACTCATTTTGGCAGCACGTA	23475	CAAGGGCTATTACAGGACTCACAAA	34459
834	TGTTTCCAGACAAGCCAACAAGT	12492	CAGGCTGCTCAAGGCATTAGT	23476	CCTGCATACCAGCAAATGAGTTGT	34460
835	GGCAGAGCAGCTCTTTCCATCT	12493	GGTTGTGTTCCCGACTCTGAATA	23477	ACTGCATGGCAGAGCAGCTT	34461
836	GTCCAGCCTCGGAGCAAAA	12494	GGATTGAGGAAGGTAGCGCTT	23478	GCAGAGCTCCTCAAAGGGGAAA	34462
837	TCATATGAACCTACCACCACTA	12495	GTGGTAGTAAAGCTGGTGATGACA	23479	CCACCACTACCATCATCACTATGAA	34463
838	CCCTCGCTTCTGGTAGTAA	12496	CCGACCAACCAATCCCATGAA	23480	GTGAGTGAATGGGTGGGAGGTA	34464
839	AAGGCGACCTCCGGAACA	12497	CAAATTACAGGCAATGACGCACATAG	23481	CATGTGCTCTAGCAAGACAATCAAA	34465
840	AGGCGGAGCTCTAAGCACTA	12498	TCTGGCCACTTTAACACCTCATT	23482	GGAGACCACAAATGCACAGGTCTAC	34466
841	ATGAGCTCTGCAGTCATTGAATTG	12499	GGGTGATGCTTCGCTTGATACTGT	23483	AGCTCTGTAGGAGGGCAAGGAT	34467
842	CTGGCTGCTATGCACTCAGA	12500	TCTTACCCCAACCCAGCAAAT	23484	TCCATGGCTCTGGCTGCTAT	34468

843	GCTTCGTGCTTTTACCTGACTGT	12501	CACCAGAGCCCTCCATTCTAAAC	23485	CCGTGACTAGTGCTTCGTGCTT	34469
844	CAAAGGACAGACCTCCAGAGA	12502	GGAGGGCAAGGGCATCTCA	23486	GGACCAATGGCTGGAAGACCAA	34470
845	GGGGTTACTTACCGGTGAGACAAATTC	12503	CTCCCCTGTGCACTCTTTCACT	23487	CAGAAGTGTGGTGGGGTTACTTAC	34471
846	GCAGAAGCATCACTGCGTAATATC	12504	GTGGTAGATAGACCCGGCTAGACT	23488	GGCTGTTGCAGAAGCATCACT	34472
847	ACCATCTCCCATCTCAGTAAA	12505	GGTCTGAGCAACTGGGTAAA	23489	CCAAACCTGCTCTCCACCAT	34473
848	CGTCTCCATTTCTGTATCCCTCTCAA	12506	GAAGATGGGACAGGCGTTGT	23490	GCCCAGGTCTCGTCTCCATT	34474
849	GTGGGGTAACGGTTTAGGAGTTG	12507	GGGTAAGGTGTGCCCTTGTTCT	23491	TGAGCCTTGTCAGTGGGGTAAC	34475
850	CCTTAATTACTGCCGATTGCGCTGT	12508	CAAGCGGAGCAGAACTGA	23492	GCATAGCTCTTTGTAGAACTTGACCCTTA	34476
851	AGCCTGGAGAACAAAAGGTGAAA	12509	GCAAGATCCCAACCTCCAGGAGAA	23493	CCACAGTGAAGCCTGGAGAACAA	34477
852	CGAGGCAATTTCCCTGCAA	12510	GGAGACATCCTCGCTGAACCTA	23494	GGACATGGGCGAGGCAATTT	34478
853	GAGGTGACATGCCTGTTGTCT	12511	GGCCTGAGCTAAGCTTTTTCTTGCTA	23495	ATCCCAGGGAGGAGAGGTGACAT	34479
854	GCCCTTCTAGTGAATGTTGGGTTCA	12512	CGCCAGCATTCTGCTGCTT	23496	CGCTGGCCCTCTAGTGAATGT	34480
855	CAAACAATCTCTGTGCCTCTACT	12513	ACAGTGGTGCCAGGTGGA	23497	CTGCAATTCCTCAACAATCTCTGT	34481
856	CCCTGCCCTAAAGGTCTCCAAAAAC	12514	GCAGAATAAACAGGTTCTGTGCTCA	23498	GGCTGCTCTCCCTGCCCTAAA	34482
857	TGAGGGCTATCTCGACCTTT	12515	CCCAATCAGCCCCAGACATTTG	23499	GCTGTGGGGTTTGGGGCTAT	34483
858	GTGGTAGCTACTGAATCAGCCCTAT	12516	TCGCTCTCTCTCACCCTCTGT	23500	CCCTGAGAGTGGTAGCTACTGAA	34484
859	TCCAGGTGAAAGCAGGTCAAG	12517	GTGTGTGGCAAGGTGTGTCT	23501	GCCAGATCAAATCATTCCAGGTGAA	34485
860	GCAGATAAAGCAAAAGGGTGACTT	12518	AGGTGGGATTGGAGGTTGGAA	23502	CACAGAAGGGCAGATAAAGCAAAA	34486
861	TCCAGGTCACTGCCTCATAGAT	12519	CAGGCAGAGAGGAAGCCAAA	23503	GCCATGTGGATTTCAGGTCACT	34487
862	TGTGGGAGGAGAGGTCACCAT	12520	CCTGCCTCCCCAACAGTGA	23504	CGCTGTAGCTGAAGCACTGTCCTA	34488
863	AGGGCCTAGCGGTCAACATT	12521	TCCCTTAACAAGTCACCCACTTC	23505	CTGCTGATTGAGGACCACAGAA	34489
864	GGGCAACAGAAGTAACATCCATTAG	12522	CCCCTCAGCCTGTATGTCTCT	23506	AGCACAGGGCAACAGAAGTAAC	34490
865	TCTGCTACAGTCTTTGCGTTCA	12523	CCCTTCTCTAAGTGCCAGAGAAAC	23507	GGGCCCAACATCTAGTTCTGTACAA	34491
866	TGACCTTTTCAAGTCTCCGTTGT	12524	AACCTCACTGTTGCGTGAGT	23508	GAGAAAGCAGGTACTGACCTTTTCA	34492
867	TGGAGGACCAAGGCCTCAT	12525	CCCTGCTCCCAAACTCTTTA	23509	CCAGTCTCCATCTGGAGGACCAA	34493
868	GTGACACCTCTGCTTTGTCATGT	12526	CAGAGTAGGATTAGCCACTTCAGTAAG	23510	GGCAAGCCCATCATAGATTTTAGTGACA	34494
869	TCTGGGATTTGAGCATGGAACCT	12527	GCTCGGAGACTCTGCCTCTCTAT	23511	CCCCACCTCTTTCTGGGATTTG	34495
870	GACCGTCTACTAACAGCACCAAGT	12528	CCTCAATGCAGGGGCAGTCTAT	23512	AGTGGCTGAACAGACCGCTCTAC	34496
871	GGTGAAGACTAGGCTCCCTCTA	12529	AAAATTGTAGCCCCACCATGT	23513	CAGCCTAGTGAGGGTGTAAGACTA	34497
872	GGGGCGTAGTGAATCTCCAATG	12530	GGGAGTTTACCCTAAGATGTTTTT	23514	GGGTGTGGGGCGTAGTGAA	34498
873	ACCACCACACTCCCTTCTCT	12531	GCCTGAGGTCCATGACTTTGT	23515	GCAGAGGCACCAACCACT	34499
874	GAGAGGTCAAAGCAGGAGACTGAATC	12532	AGGCCCACTGTACATGGAT	23516	CCTGCATACGGAGAGGTCAAAG	34500
875	GGCATAGGTGACATGCCATCAGA	12533	GCGGTAGGCTGCCTGAACA	23517	GCGCCATCTTTTTGAGGCATAG	34501
876	CAGACAATGGAACACGCCTGCAT	12534	TGGGTTCCCCGAGGCTCTGT	23518	GGAAGGTTCTGACAGACAATGGAAT	34502
877	GCGCTGAGCTTAGACTTCACCTACA	12535	CATAGCACTGGGATCAAGAAAGACT	23519	CATCTTCCAGCCTGAGCTT	34503
878	TCCCCACCTGGAGCCCCAAAT	12536	GTCTGTCTACTCCAAAGCACAAG	23520	GCTCATGGGCAGGGTTCACTT	34504
879	CTGTCCAGACTTGTCCCAAGA	12537	AGGGACCTAGAGGACAGGAAA	23521	GCAGAAGCACTGTCCAGACT	34505
880	AGGAGACAGTGAAGCTTTTGT	12538	CTGCTGTTGGACCTTAACACT	23522	CCTTCTATCAGTAGCAAGGAGACAGT	34506
881	TGGACTCACTGTTCTCCAAGTGA	12539	TCAGGCTTCTCTGCTCCCTCTT	23523	AGCGGGTTGGACTCACTGTT	34507
882	GCCCTGGTGAATGCACATTTTG	12540	TTGGATATTGTTGTACCCCTACA	23524	GGCTAACTGAGCCCTGGTGAATG	34508
883	TGGCATCGAGGATGGCATGA	12541	GGCCCACTCGTCACTATG	23525	CTGGAGACGTACATGCCAGTCA	34509
884	TCCTGTTTGTATGGGAACCAAGT	12542	GCTTACAACGCAACTTCACACA	23526	CCGCCATCTCTCTGTTTGT	34510
885	GCATCCAGCCAAATCCTCACT	12543	CCCACCTGAGCCTTCACTTC	23527	GGGGAACAGCTGGAAGGAGCAT	34511
886	TCCTCCCTGAGACCACAGCTT	12544	TTGGTGGCGCCATGAGTCT	23528	AGTCTGGCCTGTGTGTCTGT	34512
887	CCATCACCATTATCCCTACTTG	12545	TTGAAAGCCTCGTGCCATTTG	23529	AGGGACCCCATCACCATTTC	34513
888	ACTGGCTGTGAGGCTTGCTT	12546	TTAGGTGGGATGTGATGTGTCA	23530	GGAACATAACATAGACATAAATGGCTGTCA	34514
889	GCACGAGATGAACAAAGACACCAT	12547	CACATAAGGGAACAAGCGCACAA	23531	TGTTTTAGCAGCACGAGATGAAT	34515
890	GAGGGAATGGTACCTGGATTAGCAA	12548	CCTCAACCTAGACTGGATGTCA	23532	AGGCAATGGCAGGAGGGAATG	34516
891	TGCCACTTCACCCATACTGAATTT	12549	GACTTGGTCTGGGTTTGTGAGA	23533	GAGATTACAGGAGCATGCCACTTC	34517
892	CACACTGCCACCTGCTTGAGTA	12550	TGACTGCTGACACGGGAGGAAT	23534	TGCTTTGAGAAAAGCCACACT	34518
893	TGATGAGTGGAAGCCCATGTTG	12551	TGGTGGCGAGGGTAGAAGAT	23535	GCAGCGGCTATAGACAGATCCAA	34519
894	TGCTCATCATGGCTATGCTTTCT	12552	ACTCACAGTAATCCAGGGGAAAAG	23536	GCACTGCCTCTGCCTCAAAA	34520
895	GCTGATCCAGAGATGGACACAA	12553	CTGCAAAAATACCAGGGAGGAACT	23537	TACCACAGGGCTGATCCAGAGA	34521
896	GCAGTGCTGTCTATGCCAATG	12554	ACTCTCACACCCTTAGGCCCTT	23538	GTGGTCTGCACTCATCTTTGA	34522
897	GCCAGATGTGGAGTTAACAAGTCA	12555	ACCGCGCCCCATCACTTACT	23539	GTCCATCAGCCAGATGTGGAGTT	34523
898	TGACTTAACAGGTGACCTAGACACA	12556	CTGACCCCTGGGCAAACTACT	23540	GGGTCTGTGCGCTGACTTAACA	34524
899	CCTTGGAGGCCAGCAACAA	12557	CGCCACGGACTAATGCTGTT	23541	AGAGGTGAGGGTGAAGCACTA	34525
900	GAGGCACTGATTCAATCAACAGGATT	12558	TTGGCTTTGTATCTCCAGCAACT	23542	GGAAAAAGTGGAGGCACTGATTCATT	34526
901	CCCATTGGGTAACCTGCTGAAGTA	12559	CATCGCTACCGGGTTATGTTTTT	23543	AGAGAAATAGTACCTCCATGGGTAAA	34527
902	CAGGCCTCAAAACACGAAGAAG	12560	AGAGGCAAAATCCGCACCTAA	23544	GCAGAGCCAGGCTCAAAAC	34528
903	GGGGAGAAGGTGCACCAAGATTCA	12561	CCCTGCCCTTCTCACTCACAAA	23545	TGAGTCTGCGCTTCACA	34529
904	GCGGGTTAGGAAGATTCCCTGAAG	12562	CATGCATGACCCGTCTCACTTT	23546	GTGGGAAGCGGGTTAGGAAGAT	34530
905	CTTCCTCACCGCTCCTTAATAACA	12563	GGCCTGCCTTAAGTTCTGCTAAAG	23547	GGAGCCAGACTTCTTGCTCTT	34531
906	GGTGCTTTCCTTCCACCGAAGT	12564	GGAGTTCTGCACTTGTGATGTTT	23548	GCGTGTGGTGCTTCTCTTTC	34532
907	GGGAGGAACAGTGATCTGAGCAT	12565	GCGTCCAAGGCTGGTAAGAAG	23549	AATTTTCAGAGGAAAGGAGGAACA	34533

908	GAGAATTAACAGGGCTTTGAGGGATT	12566	GGCAGCCTGGGTATGTCTTG	23550	GCACCACATAGGTGACAGCAA	34534
909	CACCGAGCACTCGGGTGAATAA	12567	TCAACTTGATTGTCTCCACACTGTA	23551	AGTGCACGTCCGCCGTAA	34535
910	TTGATGGCTCCCATGTAAGTTTGA	12568	GGCCGGCCATCCAGTATAATTT	23552	TCCTCAGGTGTGTTAGGCATTTTGA	34536
911	CGAAGAAGCAAGACCGCAGTAAC	12569	GTGCGGGGCTTGAAGGAT	23553	GGCACTGGGGGAAGCAAGAA	34537
912	CTCTGGGGAATGCCTAACATGA	12570	TTGTTCTATCGATTACCCACCAA	23554	TCCTGCTTGCTCTGGGGAAT	34538
913	CAGCAATGAGGCCAGCGTAGTT	12571	CTAGTACCACTTTCTCCTTGCTCATT	23555	ACCCTGGTGGGATCCAGAAA	34539
914	CCCTATCCAGAAAGAAAAAGCCAAGTGA	12572	CTGCCAGACCACCAACTCTCA	23556	CGAGCCCTATCCAGAAAGAAA	34540
915	CCTTCTGCAAGTCAAGGACTCA	12573	CCAGGCAGGACGCAACTCA	23557	GCTCAATCACCTTCTGCAAGT	34541
916	GCCGTAGGTAGTTCATGCTAA	12574	TGGTATAGCCACTCTGGCATTTT	23558	GGTACTTTTACTTTTCCGTAGGTAGT	34542
917	CATCCTCTTGCCGTGTGTGACT	12575	GGAGGAGTGCCTGCAGAAGTATCA	23559	GGGCTGTACCTCATCCTCTTG	34543
918	CAAGTAGCGTTTATCCAGGAA	12576	GCCTCTGTTTTCTCGGGCTAAG	23560	CATCATGCCCAAGTAGCGTTCA	34544
919	GCCCTGAAATTGGAAGCAAAT	12577	CCATCTACCTGTGCCAGAAA	23561	GGGATTTTTGAGCCCTGAAATTG	34545
920	GCCACAGGTGCGCTTCTGAAC	12578	GCCCACGTCTTGGCCTTGT	23562	ACACCGGCGACTTCTCCAAT	34546
921	GGCAACACTCTGTACAACCTCTTACT	12579	TCCGCTTCCACAACCAAGAAC	23563	TGGCCTCAGGCACCACTCTGTA	34547
922	AGGCCCTTCAAGAAGTTGAACA	12580	CCACTTTGCCAAATTCCTTTTCATC	23564	CTCAAGGCTAAAGTAACCTCTGGAAAG	34548
923	CCCGTGTAGCCAAGAGACTGAAG	12581	ACGAGGACCCGCGATGTCT	23565	AGTCTGCAGAGACCCGTGTA	34549
924	TGTGTGTACAGGCCGATCT	12582	CGGCCAGAGACTCACTCAGAA	23566	TGCTGGGTAGGTGTGTGTGTA	34550
925	GCTCTCAAGGACTTTGCAGTCT	12583	ACCCACCAACACCACTTGAT	23567	AACACAGGCCTGGCTCTCAA	34551
926	GAGGGAGGTGCTTTGCTGTCAA	12584	TCCCTTGAGCCTCCTCTGTTCT	23568	GGAAGGGGAGGGAGGTGCTT	34552
927	GGCTCTGTGAGGATGGAGAGAGT	12585	GGGGACAGTGGGAGGATGTCA	23569	GCTCTCTGGCTCTGTGAGGAT	34553
928	GCCAGGGGAAGTGGTGTTTAAG	12586	ACTGGCTAGTCCCAGTGATG	23570	ACAACCTAGTGCCAGGGGAAGT	34554
929	GTAGACTCCACACCTTCTACCTT	12587	CGCCACCTGGACAGGAAACA	23571	ACAAGCCCCACAGGGTAGACT	34555
930	TCTCCTGGAAATGTGAACAGGATTG	12588	AGCAATCTCTCAGGCCAGGAAAG	23572	GAACCAAGTTTCTTCTCCTGGAA	34556
931	CTCGTGCATCTGAGTGAGT	12589	GCCTCTGTTACCTTTCTCCATT	23573	GGAAGCCACTCGTGCAT	34557
932	TCGGATGCTTCTGGGCAAG	12590	AGCTGCTGGGAGTGGGAAA	23574	TGGGTGCTCGGATGCTT	34558
933	CAACCGCTCAGGCTGTGAA	12591	GCCCAGTGAAAGGGCAAACT	23575	GCTCATTAATGCACGCAGACACA	34559
934	GATGATAAGCCTGTCCCTGAGATG	12592	GGTCCGTGCAGACTGGACAAT	23576	GGTGGTACAGAAATAATGGCTGTGATG	34560
935	CAGGAGGGAGAAAGCTTTGGAAGA	12593	TCATCATCATGTCTGGTGAAATGT	23577	TCTGGTAGCAGGAGGGAGAAAG	34561
936	CATCCGTCTCTTCACTAGCTGTAAAT	12594	TCTATGCTCAGGGCCTAACACT	23578	GGATGTGTTTCCTCTCTTCACTA	34562
937	GTCCTCTGCTTCTCTGCCATA	12595	CACCTTCCCACGTGTGCTAT	23579	AGACATGGGTCCCTCTGCTT	34563
938	GCTGTACTCTGGGTGACATTC	12596	TGAGTACCCATCAGGGTTATTTTT	23580	CCTGGTACCTGATATGATGTTAGCTGTA	34564
939	AGCCCTCTGATTCAGGTAAAG	12597	GCATGAGTTTCAACTGGGGTACA	23581	GGTCCACCCATAGCCCTCTGA	34565
940	TCGATGGCAGAGACAAATGACA	12598	GCCTCATCAACGACCCGATTCA	23582	GGTAGGCATTTTTCGATGGCAGAGA	34566
941	CAGGGTCACACACTCGGGTATT	12599	ACCAGGACCCCACTGGTT	23583	AGTAGAGGCAGGGTCACACA	34567
942	CTCCAGCAGACAGCATGCAAAC	12600	AGGTCTCAGCCCTGACTGTT	23584	ACTAAGGAAGCCTCTGGGTTCT	34568
943	GCACACCTGAAGGTCAAACGAACA	12601	TGGTTTACCCTGAATCCACTCTGA	23585	CTCTTCCCTGAAGACAACCACTT	34569
944	GTTGATGGTGCATTCCAGATGTA	12602	ACCATATGACCGTCAGGCTTCT	23586	CCTTCCAGGTTGATGTCGCTT	34570
945	TGTGGCTCGGCTCAGACATA	12603	CCAGGGGTGGCGTGAAAG	23587	CACTGCCAGATGGCAGAAAG	34571
946	TTGCGGCCACTGTCACTACT	12604	CAAACCAAGTGCTGGTAGATTCA	23588	CGTGGCTGCATCTGATCCTTTC	34572
947	CAATCCTTTGTGGGTGTTAAGTGT	12605	CCTCACTCTGCCCATCAGT	23589	TGTGAGAGGCCGTTGGGAAA	34573
948	TGCCCTGATGGATAGGTGGAT	12606	GTAGCCAGGCATGCATTTTTGA	23590	GGAAATGTTTGACTCATGCCCTGATG	34574
949	AGAGCTCCAGGCTCATCCCTAT	12607	CCAGCTGTCCAAAGCACTTCA	23591	AGTCAGCCAGATGCCCAGAA	34575
950	CAGAGTCCCTGGATCTGTTCTCA	12608	CTGTCCCGTGCGTTCCTCA	23592	AGCTCAGGACTGCGTTCTTC	34576
951	CTGGGGCAGGACCAAGAAA	12609	GCCACCTCCTCCACGCTAA	23593	CCATGTACCCAGGAGAGGTGATGA	34577
952	CAGTGGAGCTTGCTGGTTGACT	12610	GCACTTTGCTTTGATGCCTGAAATA	23594	TGTGTGCTGCAGTGGAGCTT	34578
953	GGGTACCTTCTCTCAAAGCAGCATCT	12611	CGCAGCAACTGACACTCTGTAAG	23595	GGCGTAACATTAGGGTACCTTCTCT	34579
954	CATCCAGACCATGGCATCT	12612	GGCCTCCTCTCTCCCCATT	23596	GGGTCTGGGAGAGGGATAACTTCA	34580
955	TGGCAGAGACTGGCAGGAA	12613	TCCCACCCCTCGATCCCCATA	23597	GTGGTAAGTGCACGAGGACAAAG	34581
956	TTCTGAAGGGTGTACCAAGTTG	12614	GAAGGACATGGCCATCAGCAA	23598	GGAGCCTCTGGTTCCTGTGT	34582
957	AGGGCCCTGCTGAACACTGAA	12615	AGGCAGAGGGCGGTGTCTT	23599	AAGACCTCTCGCAGGCCGATT	34583
958	CATCTCCAGACGGTGGTGTTT	12616	CGTCTGCTTCTCTGGGTTT	23600	AGTGAAGGCCCTCTCCTGAA	34584
959	CTTGCTTGGGACTGTCTCTCT	12617	AGGTGACCATGTGACCACAGA	23601	CCTCGATTCACTCTGGGGACATTC	34585
960	ACTGGCAGAGCCAGGATT	12618	GGGTAGCTTATTGGGGTTCAGTTCT	23602	TCACTTTCCACCTCTCAGAGAA	34586
961	CAGGACTTCTGGAACCCACTGT	12619	GCCGTATTGTCAGGCACAATCT	23603	AGGTGAAGCAGAGCAGGACTTC	34587
962	CATCCCTGCGCCTAACTCTAAG	12620	AAGCAGGCAGGAAGGAGACA	23604	GCCTCCTCATCTCATGGGTTTCA	34588
963	TGCACATGGCGGCTAAACA	12621	TGGACCAACTCTCACAGCAT	23605	AACCCCTTTGGTCTTGACAT	34589
964	GGAGTTCGATGGTACCTCCCTTA	12622	CAGGCCAATGGACAGTGAAGCTA	23606	GCTGCTATGGTGGTATCAGGGAGTTC	34590
965	AGCCATGCCGATTGCCTCTT	12623	GGTGGCGAAGGGGTAGTGAAA	23607	GCAGGAGCAGGTTTAGCTGACA	34591
966	TTGGTCTTCAGGTCCGGAGGTT	12624	ACTTCCCGGGCCTGGCTTCT	23608	CTCACACTTGGGCACTGCTT	34592
967	GGCTTTTGTGGGAAGCACAGAA	12625	GCTAGGAACCTTCAGGCATTTTA	23609	GCTCCCCAGTAGGGCTTTT	34593
968	TTGAGTCGTGGGCTCTCT	12626	GTTCCTGACTTTCTAGTAACCAACCGATT	23610	CCTCTGTCTACATGTAACAGCATTG	34594
969	TGTGGATGGCCAGGATGTGT	12627	TCCACAGCCGTGCATCTGA	23611	AGCACCCCTGAGCATGTGGAT	34595
970	CCATGACAGACACCCAGCATCT	12628	GTGATGCCAACTGGGCTATGA	23612	CGATGCAGGCCATGACAGACA	34596
971	CCTGCCTCAAACAGAGGAACTCTA	12629	GCTGAAAGCTTGTGCTGCTCT	23613	ATAATCAGCCTGCCTCAAACAGA	34597
972	CAGTGAGCAATCATGGCATTTGT	12630	CAATGGGTAAGTAGGCAAGGGAATTAT	23614	GCTGCCAAGAGAAATGGGACACT	34598

973	TCCATCCCTGTCCAGCTCCTA	12631	CCCGGCCCTCTTATAATGGAAGA	23615	GCCATCTCAAACCTCGGCAATG	34599
974	GGAACAGCAGCTAAGTCATGT	12632	GCCAGTTCCTGGCGATGGCTAA	23616	GCAGCTTGCACTGCTTTGGAACA	34600
975	GTAAGAAGGAGGCGTCGGAATC	12633	TTCCTACCCCTTCCCCAGAAC	23617	GTGAATGGAAGGTGCATGTAAGAAG	34601
976	TGCTGGGTCTTTGCCCAACAT	12634	GGAAGAAAGCCCTCTCGAGACAA	23618	GGGGAGAAACATAATGCTGGGTCTT	34602
977	GCCTGGAGATCAAGCTGCAAA	12635	GAAGTACGCACCTTGATGTCTCTGT	23619	GACAGACCAAGCCTGGAGATCA	34603
978	CACCAGGGTAGGTATCCAATACTGT	12636	TGCCCACCAAGTGAGACTAAAC	23620	GCTTCACTAACACAGGGTAGGTATC	34604
979	GCAACTGAATGCACGTGTGTGA	12637	GCAGGTGCTAAGTGTCTCTGCTT	23621	GCTGGAACCTGGGATTTAGCAAA	34605
980	GGACCTTAGAGCAATGACCTTCA	12638	GAGTTCCTTTCCCTCCAGTTTCTTG	23622	GTCCATAACAGGACCTTAGAGCAA	34606
981	GGAGTAGGTGGAACAAACTGCTTCT	12639	GCCAGCTGAGGACTCTCCTT	23623	GCTCTTGGGAGTAGGTGGAAAC	34607
982	GAAGCAGTCAGCAGTGCTCAGA	12640	CAGTGCCAGTGGAAATCCCAGAT	23624	GGTTTTGGGACCTAGAAGCAGTCA	34608
983	GCAGTCTCTCCTCCTCCAGCAA	12641	CTCAGCTCCTCTGAGAAACAAAC	23625	GGGATAGCAGGTCTCTGTCCAA	34609
984	GAGCTCTACCCAACCTCTTGGTCCTA	12642	GCCATGCCCTTTCCAACCTT	23626	CTCTCTGAGCTCTACCCAACCT	34610
985	CCCTGAAGAGCTGAATCACAGACA	12643	ACAGACTGCGTGTCTCTGCAA	23627	CCCTTTTTCCCTGAAGAGCTGAA	34611
986	AGGAAGGTGTAGGAACTGCAAATAC	12644	GATTACGAACCTAGGGCACAAAC	23628	GGACTGGTGAGGAAGGTGTAGGAA	34612
987	CCTCAACATACGGGCTACCAAA	12645	CCCAGGGGTTCTGAAAGTAAAA	23629	GCAAAACTCCGGGATCTCTCAAC	34613
988	GGCAAGGAGTTCTGGGAGCTT	12646	GCCATCCCAGGAGTTAGGAT	23630	TTCCCTCCCAGGCAAGGAGTT	34614
989	GGTGAGGGGTTTGGTGCTATG	12647	AACCTCTCAAACCTTCACTCCAT	23631	TGCCAGGTGGAGGGGTTT	34615
990	CAAAGCAAAGAACCTTACCCATGA	12648	GCTTGTGAGAGCAGGTTGAA	23632	AATCAGCCCCAAAGCAAAGAAC	34616
991	GCCAAACAGCTCTGCACTGA	12649	CCACGTGGGATGTGAGGTT	23633	CCAAAGTCGGGAGAGCCAAAC	34617
992	GCAGCCAAGAATGCACCTGAAAG	12650	CTGGAGCCAGGAAGCCAAGAAA	23634	CCTCAACACAGCAGCCAAGA	34618
993	GGGAAGGAGCTCTCGACCTA	12651	GGATGTCTGTCTGTTCCTCTTC	23635	CCCACCTCGGTACAAGTCAGACA	34619
994	CTCCCAAGTCACTGCGTTTGT	12652	TTCCAGAGGGCTCCACCCAAA	23636	GCCAGTGTCACTCCCAAGTCA	34620
995	GCCGTACAACCTGACGCCAAA	12653	CTCGGTCTCTCTGTACCTACTT	23637	GGGTAGACAGCAGCCGTACA	34621
996	GCTCCTCCTCCAGCTCAATTT	12654	ACGACCCACTTCTCTTCTGT	23638	CCCCTCTCTGCAAGGTTCTA	34622
997	CTCGGGTGCTTGGAATTGTGT	12655	CCAAGATGCTCATCAAGAATGGAA	23639	AGGGTCAGTTGGGAGTAGAACA	34623
998	TGGTTCCTCCGCTCCATTCTCT	12656	TGAAAAACCTCGGGGAGCAAA	23640	TGTTCCCACTCTTTATCTCTCTT	34624
999	CTGTGTGTCTGGCTGCTGACAT	12657	GAGAGGGCCAAGATGGGAACAT	23641	TCAGCGGGCTGTGTGTCT	34625
1000	GTTAGCGTGGGTGCTCTGAAT	12658	CCCCAACACACTGCACAGAA	23642	GGAGGGCTGCAGCTGAACCT	34626
1001	GGGCACCTCTGAGTGCTTGA	12659	CTGCTCTGCTCAATCCATACCATTTC	23643	ACAGCCACAGGGCACTTCT	34627
1002	CTCTCTGTTCACCCACCTA	12660	CAAGGGCAAGCCAGTGCTCT	23644	GCAGAAGCTTAGGACGGCATTC	34628
1003	GTCTGAGGAGATAAACCACACT	12661	CGGGGAGGCCATCACTGTT	23645	GCCTTTCCACCTTTGTCTGAGGAGAT	34629
1004	GGAATGCATGGGCATAAATTCTGTCTT	12662	GCCCATGTGTCACTGCTCAAA	23646	GGGCAGGAATGCATGGGCATAA	34630
1005	GCAAGGAGCCTATTGTTACTAAGAGAGA	12663	GCTCCAGATGTTTCGGATCAA	23647	AAAAGTGAAGGAGCCTATTGTTAC	34631
1006	GGGTTGTGTGGCAAATGGAAGT	12664	TCCCAGGTGTCTGTGGAAG	23648	GCAACAGCTGGGCAAGAGA	34632
1007	CAGGAGCAGGAGGAGGTAGAATTAATGA	12665	GTTCAAGCCCAACCTGGAAGT	23649	TCCAGGAGCAGGAGGAGGTA	34633
1008	GGCCCCAGTGATGTTTTAGGTTCA	12666	GATTTTTCAAGGACCTACTGGACACT	23650	TTGAATGGCCCCAGTGATGTT	34634
1009	TGATTTTTCCATCTGTGATGGTGTTG	12667	CCCAAGGCAGTGATGTTTCCAA	23651	GAGGCTCAGAAAGATGCACTGAT	34635
1010	GGGAGAGCAGTCACTTGGGAAGA	12668	AGGGTGGTGGCTACAGGATT	23652	AAGGTGTGGGAGAGCAGTCA	34636
1011	CGTGGCTAGGGTTGACTGTCTGTT	12669	TACAACGCGCCAGGTGTAAC	23653	GCCTTCGTGGCTAGGGTTGT	34637
1012	CCATGCGTGCAGGGGAGAATTA	12670	ACAGCGGCCTCTCTCTTTT	23654	GGACGGATGCACCAACCGTGAT	34638
1013	TGTGCTCAGTAAGTGCTTGTAGA	12671	TTGCTAGGTTGAATGCACGTGAG	23655	CCAATCAGCCATTTGGTGAATAGTT	34639
1014	TGGTGAAGGCCCTGACTCGAT	12672	ACCTAGCATGCTGCCATTG	23656	CACAAAAGCGCCTCTGGTGAAG	34640
1015	GGGTCCCTCTTAGGCCACTTTT	12673	CAGCAGCTGGTGGGCAAG	23657	TAACGCTGTGGCGGACTCA	34641
1016	GGACCTTAGATTGCGGAGAAAACACT	12674	GAGCCACCTGAAACCCACAAAG	23658	TTTCTACCTGTGTCATTGGACCTT	34642
1017	CCTGACCATCCTAGCTGCAAGT	12675	GCCCTTGGCGCTCTACATTA	23659	ACCATGACACTTTTCTGACCAT	34643
1018	GGCAGGCAGGGTGTGGATTTT	12676	TGAGGCAGCATTGGACATT	23660	GCATCTCCACTCCCAAGTTCCCT	34644
1019	CTGTGCCAGTGACGAAGACA	12677	TCTTGCTTTGCCTAACAGGGTATT	23661	GTTAGAAAACCTCTGTGCCAGTGA	34645
1020	GATGTGAAGGTGCAATGAAGTTACA	12678	GCATTTTTGGCCCACTGAACACT	23662	ACGTATATTTTGGTGGGTTGATGT	34646
1021	CCCCAGTTTGGTGCTTCTCA	12679	GGTGCCAAGCTGAGAAGTACTTG	23663	CCCGAGTGTTCCTCCAGTTT	34647
1022	GGACAGGAAGCAGCTCTACA	12680	GCAGAAGAGCCTCACACT	23664	AGGCTAGTCCCAGGACAGGAA	34648
1023	CGGCTCCTGAACTGGAAGGAGAT	12681	GGAAATGGCTGCGCTGTAAACCTT	23665	AGTGCTACCGGCTCTGAACT	34649
1024	ACTCACGGCCCTGAAGCAA	12682	AATCTCTGGTCCACCCCTACT	23666	GGGCCACTGTGATTGCAGACTT	34650
1025	CAGGAGCACCAAGACTGGTAGATG	12683	TGGCACCTTGCTCTCTCT	23667	CCCAGGCAGCTGGTCTCTA	34651
1026	CCCTCCAAGTGTCACCAAGCAA	12684	AGCTCAGCCAGTGCTTGATT	23668	AACTGATGGCCCTCCAAGT	34652
1027	CAGTGCCATGTCACTTTACATTG	12685	AAGGGGCGGCAACATTCA	23669	TGCCACCAAGTGCCATGT	34653
1028	AAGGACTTGGACCCCACTGA	12686	ATGTAAGTGCCGCGACTT	23670	AGGATGGCGAGGGCTGGAA	34654
1029	CAGAGAAAAGCCCACTCGTTAC	12687	GCCACTGACAAATTGCCGAGTTT	23671	TTGGTTCCCACTACTACAGAGA	34655
1030	CACATCTGCCTGATGCTGCTA	12688	GGGTAGACATGTGGAACGTGGAT	23672	GGAGCCTGGTTTTCCATGCCATTTC	34656
1031	GGGTTATGGTGGGACGCAA	12689	CCTCAGCAGTGCCACAAATG	23673	CAGAAGAAAACATGCAGGGGTTATG	34657
1032	ACAGAGAAAATGACCTTCCAGGAA	12690	GCTCATGGGGCTGAAGATAGACA	23674	CCAGCTACCAAACCTATTACAGACAGA	34658
1033	CTGGTGCCCTGGTTATAGGAAGAA	12691	AGGCTGTGGCCCTAGCATGT	23675	TGACTTCTGGTGCCTGGTT	34659
1034	CTTTTACGCTATGGCATTGGATT	12692	ACCCTGGTCATTGCTGGAAG	23676	TGCAGGGGACCAACCTTTCA	34660
1035	CAGAGGCAGTTTGACCTTACA	12693	CCAACATCCAGCCAAATCAAG	23677	TGCCTAAGCAGAGGCAGTTTG	34661
1036	AGCAAAAATAGCCTCTGGGACAA	12694	GGTGACGGTGTCTTCACTTCA	23678	TCCAATGTCAAGTTGGGGTAACATAA	34662
1037	GCATTTGGAGGGCTAGGGACAA	12695	GGTATCAGACAGCCCTGCATCT	23679	GTCCATTTCACTTATTCCAGCATTTG	34663

1038	GCAAGGGCAGGTAGGGAGAAAAAT	12696	AGTCGCGTCTGGTAGAGCAT	23680	CCATTGAGAGCAAGGGCAGGTA	34664
1039	CCTCCCAGTGGAGTCTGTGTTTC	12697	TGCTGCGCTGGCTCTACACA	23681	TGACATGTGTGTTTATGAGGGAGAA	34665
1040	GCTGTCAGCCCCACAGATG	12698	ACCCTCATCCAGCACTCCACTA	23682	TTCGGTGGGAGGGCTGTCA	34666
1041	GAGGACGCATATGGACCCGAAT	12699	TGTTTCAGCCTTCCAACGTGAT	23683	CCTGATTCCTTGCTCCTCATATAG	34667
1042	GTCTAGAAGCTGTATCCCCAGAGTCA	12700	ATCTCCAGACGTCGGCAATG	23684	TGCTGCTTATTGTCTAGAAGCTGTATC	34668
1043	CGCTTCCGTAAGGGAGCATCT	12701	GCAGGGAAGAGGCAGCATTGA	23685	ACATCCCTGCCTCCCAAGT	34669
1044	CACGGTCACAATGTTTGTGCAT	12702	AGCGTGTGCAGGGTAATGAA	23686	TGCTCCTGCACGGTCACAAT	34670
1045	GCCCTTGGCTACATTTGAGTTGT	12703	GTCTCCACTGCGTGGTGACTA	23687	GTGATCATTGCGCTTGGCTACA	34671
1046	GGATTGGGGTGTTCAGAGCAAGA	12704	ACTGCTGATTTTTCTCCAGACCAT	23688	CTGACAATGATTATGGATTGGGGTGT	34672
1047	AGGAGCGTGCCTGAATGTGT	12705	AATCCGGTTCACCTCCAT	23689	CCCTAGAGGTTATGGGTACAGACA	34673
1048	GGCACTGAGGGACTGGAACCT	12706	GGGAGGTGTGTGGAGTCAGAAATCA	23690	ACAATGGAGCCGGCACTGA	34674
1049	GAGACTTTGAGGCAGACTGTCA	12707	ACACACAGCTAAAAGAAAGCAGTTG	23691	GCTTGTGGGTTTGACTGAAGAGACTTT	34675
1050	CTGGAAGTCAGGAAAGTACAGTTCTA	12708	ACCTTTGTGCTGCTGAATCT	23692	GGCCCTGGAAGTCAGGAAAG	34676
1051	GGTTGTCTCGGTTTCGCAGAGTT	12709	GACTGGCTGGGACCAAGATT	23693	CCAGCCTTGTTGCTCTGGTT	34677
1052	GCCTGATGGGAGAATCAGAAACT	12710	CCTTCTACAGACATTGCAGGTCATC	23694	GGAAGGTAATACAGCCTGATGGGAGAA	34678
1053	GGCAAAATCAAGCCTGCCTTTTC	12711	GGACAATGATTTGAGCTACGGTGTA	23695	GCAAGCAGTGTCTGGCAAATC	34679
1054	AGTGTGGGCCCTACCTGTGATT	12712	AACCCACAGGGTCCCTAACA	23696	CCAAGTCTTCTGCTGACTGT	34680
1055	TTTTGCCGCTGCCCTGAT	12713	CAGTGCCAGGGGAAGAACTGA	23697	GGTACTAATGCCGCTGATGCTT	34681
1056	GGACTGTGTTGGGTGCAATAAC	12714	GTCTATGCCAGTTGCTAGAGGAAAC	23698	GTGGTTTAAAGTGGGACTGTGTTG	34682
1057	ACCCGATGCCCATGACT	12715	GGGGACCATCAGTGCCATCT	23699	TGAGGGAGGTGGGACCTAAA	34683
1058	CCCAAGTGAAGCCCCACCTTTAG	12716	CGCCAGGCTTCAGACCTT	23700	GGAGCAGGTCCCCAGTGAA	34684
1059	GTGGCAGACAAGGACAGTGAGT	12717	TGGGCTCCCTGAACAA	23701	AGTGTGAGGGTGGCAGACA	34685
1060	CCATGGCAACTCCATGCTTCCAA	12718	GAGGAGTCAAGGAATCGAGGATGA	23702	GTCTCAAATCAATCCATGGCAACT	34686
1061	GCTTCCCAGGATACCCACCCATTA	12719	GGTAATGTGTAGACCCACAGTTCA	23703	CCTTCTCCAGCTTCCAGGATAC	34687
1062	GCTGTCTCGGTCCTGTTAGT	12720	TGAACCCACAGCCCATCTCA	23704	AGGCGATGGCAGCTGTCT	34688
1063	GAGCCGATTTTATATCCATGCCTGTAG	12721	ACCTGCGGCAAGATCTCAGT	23705	CAACATCCAACAGAGCCGATTTT	34689
1064	CCCAGAAACGAGCCATGGAAAG	12722	TGCTGGGTCCCTGGATGGAT	23706	ACACAAGGGGCACCCAGAAA	34690
1065	AGGTGCGCCAGAGTCTGTGA	12723	ACTCTCCACAGGCTATGCAGAT	23707	GCTTCAGGGAGATAAAGGAAATCAAGA	34691
1066	CCAAACCAATTGCAGCTGTGTAAC	12724	TCTGAGAGAGGCTGGCTACCTT	23708	GCAATCACCCAAGACCAACCCAAT	34692
1067	GCTGCCTTCTGAGCTCCTGATTT	12725	AGCCTGAGGACTTGGCAGTCA	23709	CAAGGGGCTGCCTTCTTGA	34693
1068	CAGCCTAGAGGCAGCAAACTGT	12726	TCGGGCAACTGCTCCTCTGT	23710	TGCCCCATTTCCCTCAGAGT	34694
1069	GCAAGTGTGAGGTCCCTCTAGTCA	12727	GGGACAACTTTGGGGCTTGA	23711	TTTGTGAGAAGGCAAGTGTCA	34695
1070	AGCCAATGAGCCAGGAACA	12728	GGCCAAGCTTTCAGCCTTTC	23712	GCCTGTGCCATCAGCCAAT	34696
1071	CCTGCATGCTTGGGTAAATCTTG	12729	CTGGATGAGAATGGTGGCCTAAT	23713	AACCAGATACACCTGCATGCTT	34697
1072	AAGGGGAGCTGTGTGCTCT	12730	AGCGAGCCCTGCAGCAAGA	23714	ATGCCGGGGAAAGCCAGAA	34698
1073	CCAATCTACGACGGGACCAAA	12731	CAGAGCAGGGCTGTCTTGTCT	23715	CCATCTGTGCTGGCCAATCCTA	34699
1074	TGCTGATTGCTGTGTTGCTA	12732	CAGGAAATCCAGGGGACAGAAGAA	23716	TTCCACCCTCCGAGACTTTG	34700
1075	GGGACACTGACCTGCACCAAAA	12733	GGCCAACACATCAGGGAGCAA	23717	TGTGCCCTGGGACACTGA	34701
1076	GGACCTTCTAAGCCACTGATCTCT	12734	TGGGGTGTCTGGGAGAGGAA	23718	GCTGGGTCTGACCCCTCTAA	34702
1077	CTAACCCAGCTCAACCTCTTG	12735	GGGTGGCAACCTCAGATTC	23719	GGTGTGCTGGACCGAGATTCTAAC	34703
1078	GTGACACAGGCTGTTCTCATC	12736	CTTGTTTGCAGATTACCTGTGT	23720	TGCACGCACTCTCCCTTATG	34704
1079	TTGGTGTAGGGAGCAGGAGAT	12737	GCTGTGGTCTGGGTGCTCA	23721	GGAATGCTGCCACTTGGTGTAG	34705
1080	CCTCTTACACCCACTGTTCCTAAG	12738	AAGGCGAGGTACCTGAGTAAG	23722	ACACCCACCATCTCTCTT	34706
1081	GAAACATTCTGGGCTGAGAGAGA	12739	CCAGAAGAGGTGTGGCCTGAAAG	23723	TGCCCCAGGCCAGAAAGCAT	34707
1082	GGAAACCTGGTCCAAACCAAA	12740	CAGTCAGTAGAGGGCGCTGTT	23724	CCGACGGCAGAACGGAAAC	34708
1083	AGGCACCTGTTTGGCCGAATG	12741	GGATGGGAATGGGTAAAGGCACAGA	23725	AGGGCACCAGAGGTGACA	34709
1084	GCTGTCAGAACCGCTGAGTAT	12742	GGAGCTTTTACTGGGGTTCACT	23726	TGGCAGGTGCTGCTGTGACA	34710
1085	GCGGTAGGATGTTAAAGGCAGCTT	12743	CCAAGTCCCTGGTCTGGAAGT	23727	TGTTCCCTGCGGTAGGATGT	34711
1086	GGTTCAATCTCAGGCTCACACT	12744	GGGACAGCAATAGCCGAAA	23728	GGCCTTGCTGCTTTGGGGTTCAA	34712
1087	GCATGGATCTGCGTGGAGACA	12745	GGCCACGTGGTCAGATTGTT	23729	TCCTTACTGCTCAGCATGGATCT	34713
1088	CAGAACTGGGTGGTGTCTGTTTTG	12746	CGAGAGCCTGAGCATGTACAAAT	23730	GGAAACCTCCTATAGTACGCCAGAA	34714
1089	CAGACCCTTGAGAGCAGGTT	12747	GTTATCTTCTACTGTCTGTTCTTAG	23731	CACCAGCCATGGACAACAAGT	34715
1090	GCTACCAAGGGAGGTCTCTTCT	12748	GCTTCTGCCAGTGCTCAAGAT	23732	GCCTCCTGGTATTCTGTGCTA	34716
1091	GAGGTGGGTAAACAGACCATCA	12749	GGCTCTGATAGGCTTCTAGAATGTT	23733	CCGGGAAATCAGAGGTGGGTAAC	34717
1092	GGAAGCAAGCACATACTACCAT	12750	GGGTGTAGAGCAGGATGGGTTA	23734	GTCCATCAGGAAGCAAGCACAT	34718
1093	ACTGCGTAAGCGGTGGCATA	12751	GTCCCCGAAACCCACACTGTATTC	23735	CCAGCAAGAGGAAACTGCGTAA	34719
1094	GGTATCAGCAGTGTGGGTAAAGGAT	12752	CCCAAACTGAGGTGGAGCTT	23736	GGGCAGTAGAAGGTATCAGCAGTGT	34720
1095	CTCGGAAGTCCCAGCAGATCTTTC	12753	GTGACCAGTGTAGCTGACAA	23737	GTGCCTTACTTCGGGAGCTTTC	34721
1096	GGTGAGGTTACACCTCTCTTTC	12754	TTCCGGAGGTGAGATCCCAAGA	23738	TGCTGCGGGTGAGGTTCA	34722
1097	CTGCAGTCTGGCTGTGGAA	12755	CAGCTCATCGCCCCACAGA	23739	CCCAATCCGAGCTGCAGTCAT	34723
1098	CCCTGCTGTGGGACCTTATATT	12756	AGGGACGACGCGACTGAA	23740	TCCTCCATCTAAGCTCTGCTCAT	34724
1099	GGGCATTGCCACAATGGTTT	12757	GGCAGTGGGGTCCATTGAAACA	23741	CTGCCCTGATAACTCTGGGCATTG	34725
1100	GTGGCAACAGGACAGGGATT	12758	TCTCCAGAAGCCTCGCCTTGA	23742	CTGGGGTACCCAGGGATGT	34726
1101	TCTAGGACCAGGACCATCAGA	12759	GCCGCATGTCTACTTCTTCTT	23743	TGGGCCAGGGCTGTAATCTA	34727
1102	CGAGGGGTCTTTGAGGCAAACTT	12760	AGGCCGAGCAGCTTAGTCT	23744	ACCGGCCAGGGGTCTTTGA	34728

1103	TCCCCACCTCTCTTTCTTTAGAGTAT	12761	TCAAGATGGAGCACAACAACCAA	23745	TCCCTTCCCCACCTCTCTTTC	34729
1104	CCAGGAAAGCCACCAATGCAA	12762	GTGTTGAGCAGGCAACTTGTGA	23746	CCGAAAGCTCTGCCAGGAAA	34730
1105	GGGCTGATATAATGGAGGCAGCTTAG	12763	ACTCATCACCTTGGCATGCTT	23747	GTGCCAATTTTTGTGGGGCTGATA	34731
1106	GCCCTGTCCTGACTGACATTCT	12764	TCAGCCAAAGAAGGTATTGTGGAA	23748	CCTCTCCACCAAGCACAGCAT	34732
1107	TCTTTGGCCACACAGATTACTCTAC	12765	CAATGCAGGAGCTTCTCCACAAA	23749	CTGCCACTGTCCATCCACATCT	34733
1108	CAGAGTAGGTGTGCCGTAGGAA	12766	CCCACCAAGGAGGCAATTCT	23750	TGCAAAGTGCATGGCACAGA	34734
1109	CGCTGTCTCTCCATCCAAGTGT	12767	CTTTGCCCTGGCATCTGAAAC	23751	GGTGGCGCTGTCTCTCCAT	34735
1110	CGGAGCCTTGGAGCTAGGTGATTA	12768	CTCTGGCACCTGGAACACT	23752	TCCTGGCATCAAGACTGTGAAC	34736
1111	CAGGGTTCCTAGCTCTTCTCTGTTT	12769	TCATCCATCTGAGCCAAATTTCT	23753	GTCTTTGTTTACCTCCAGGGTTCCTA	34737
1112	CATTCCCAATGGATGTGGCTAGA	12770	AAATCCAGCCACAGGATGATACAA	23754	CCATCTCTGCATTCCCAATGGAT	34738
1113	GCTCCACTTTCGCCCTCACTT	12771	GCACCAAGGAAGCATCAGGTACT	23755	CCCTCTGTTTTCAGCTCCACTTTC	34739
1114	CTTGCTCTTGTCTGCACTGAGTA	12772	CTGCTCAGGGGCCAGACTTC	23756	CAGACTTCACCCACTTTGCTCTT	34740
1115	TTGAGCTGTGCAGGCTTGT	12773	GAAGAGCAGTTTCACTTATCTGTGTA	23757	TGGGCTGAGCGGCTTTCTTA	34741
1116	TGTGGCTACTTTCCACAGTTTG	12774	GCCTCCGGATCTGTGCTAGTGA	23758	GGGATAGCCCTTGTGGCTACTTTC	34742
1117	CAAAGGACAATCACAGAGCTGTTT	12775	AGGGGAGCCTCAGCATCCTAAA	23759	TCCCATGGAAAGTATGGACTACAAAG	34743
1118	GGAATGGACCAAGTTGTCTTGATT	12776	CGGCTGACTGCAGTTGTCT	23760	GTTCAGGAGTAAGGAATGGACCAA	34744
1119	TGGATGTGGCCCCGATTTGT	12777	TCGCTTCGGGCTTTCAGCAA	23761	ACTTGGCAGGAAGGGTGGAT	34745
1120	CCCCTGCCCCAAATAGCATTTTA	12778	GATCAGAACTCTGGCATGATGA	23762	TCCACCCCTGCCCAAAAT	34746
1121	ACCAAGCACTGGGGAAACTAAA	12779	GAGAGCCCCTCAGGCTCTTG	23763	GGCAGACGGGATTCAAGTTGCTA	34747
1122	GGCATGCTCCGCACCAAGA	12780	CCCCAGGAGAGCTGGTGTATGA	23764	ACCATGCTGGCCACAGT	34748
1123	CAGGCCATGTAAACGACTCTCA	12781	ACTGTCTGTTCCACCTTCA	23765	GGGACTTTCCAGGCCATGTA	34749
1124	TGCTGAATGGTTTGCTCAGTTTG	12782	AGGGCCCCCTACTACCACTTTAG	23766	GTCTTGCTGTAATGCTGAATGGTTT	34750
1125	TCGAGTCACTTACCTGTCTCAAATG	12783	GACCAAGGAAGAAAGACCTTGAA	23767	CCTGGCTCCATGGGTCACT	34751
1126	AGCAAGCGACGGTCTCCAT	12784	TGGACACTGCCGTAAGGTGAAG	23768	TCTGGGGTGCCACCAGCAA	34752
1127	ACCTGCAGAACTGAGGCTCTCT	12785	GCCTTTCACCTCGATGTCTTC	23769	GCCTCTCATACCTGCAGAACT	34753
1128	AGTGTCAAGGAGGGGAAACGAA	12786	TTCCCATGGCAGATGCTGTT	23770	GCAGGTGGAGTCTGAAGTGTCA	34754
1129	CCAATCCTTCCCTTATACCTTGTA	12787	GGGGATAAATGTCAAGCTGGAT	23771	GTCTCTATTATCACTCCTTCCCTTA	34755
1130	GCAAAGATTGCTGCCCGTTCA	12788	GGCTTACTATGCTGTCTAAACATTAC	23772	AGGCTGCAGAAACAGCAAAGAT	34756
1131	TGGACAAGAATGGAGAAAGACGTT	12789	TGGTACCTGATATGCAGCCATTG	23773	CTGGTGGGCCTTATGGACAAGA	34757
1132	GCCTTTCCAGGACTCAACAGT	12790	AGGCGGGGCAAAATGTTGATC	23774	CTGGGGCCAGAGTCTGATTCTTAG	34758
1133	CTGCTTTGAGGCAGATAGGAGCTT	12791	GCAGACCTACTGACCCCTTGGTT	23775	GCATGGAGATGAGGCTGCTT	34759
1134	CCTGCACAAAGTGCTGTCAAC	12792	CAGTACTGAGTCCCTGTGTTTTTG	23776	TTTCTGCCACCTGCACAA	34760
1135	GCAGGAAACCACAAAACATCACCTA	12793	CATCACTCCCCTCTGTGCTA	23777	CCAAAACTATCTCAGGTGCAGGAA	34761
1136	GCTTTCTCTCCCTAGGACATACAGT	12794	AGGCCACTGCCTTCTACCTT	23778	CCTCTGGCAAAGCACCCATTCA	34762
1137	AGCCTGGCTCCCTACACATT	12795	ACGAGGGCTGGCACGAAA	23779	AGAGCCAAGAGGCTGCAACA	34763
1138	TGCTATTGGGGCATTGGTGTT	12796	GACAGCTTGCACTCAAGACCTTCT	23780	GCAGTGAGCCAGTAGCCTTTTG	34764
1139	TGCATCCCGTTGCTGTCAAG	12797	CATGGGGAAATGGGTGAGTACAGT	23781	GCTCCAAGGTACTAGTGCCTGAT	34765
1140	GACCTGTGTCCTTTGTCTTAG	12798	GCCAGTGGAGGTAGTAGCATTAC	23782	GGCCAACTCTGTACCTTCAGT	34766
1141	CCTTTGCCCTCCAGAGTCTCCTT	12799	GTTACAGCATCAAGTGCACAGT	23783	CACCTTCTCAGTCTCTCCCTTTG	34767
1142	GCCTGGTACTCTCCAGTTTTAG	12800	TGAGGATTTCCTGGGACACAGA	23784	CTCTGGTTTGCCTGGTACTCT	34768
1143	GGGACCACTCACTTTGCCAGATT	12801	AGCGGCTGTGTGCAAGTCA	23785	AGGGAGGGACCACTCAACTT	34769
1144	ATTCACATTCTTAAAGCCGTGTA	12802	ACTGCCTCCAATGACCCAGGAT	23786	GCCCTACAGGTTTACATGCAAGATATT	34770
1145	TCCAGGCACGCACCTCTGAT	12803	TCCCTGCGTTGCTTCTCACT	23787	GCTGTCCATGCAGAGCTAAGT	34771
1146	GGCAGGCATCTGTGCAGTCATT	12804	TTGGAATCCAGTGTCTTGCAAT	23788	GAATGAATGGCAGGCATCTGT	34772
1147	TGCCGACATAACCCCTTCTCT	12805	TCTTTTGGCACTACGAGCTATGAA	23789	GGCTAAGGGAATGCCACATAA	34773
1148	CGCCAATCTCAGTGGTTGGAAT	12806	CACCAAGACATTAGCTGTGATG	23790	GCCAGAAGGGAATCGCCAAT	34774
1149	CGGAGCAACTTGGCATGTTAATACA	12807	TGGCCAGGTCCATTCTCT	23791	TTCCATCCCGGAGCAACTT	34775
1150	GTGGCAGCCTTTCTGTAGTTGA	12808	GGAAAACAATGTCCCTCACTTTG	23792	TTGAAGGAAGTGGCAGCCTTT	34776
1151	GCTCGTTAAGAATTAGCCCCACATC	12809	AGGAGGGTACCTCCGTCTCTA	23793	GCCTTCCCTGGAGCTCGTTA	34777
1152	CACCAGCTAGAACCTCCTGTAGT	12810	GTAGGCTTCCAATGCCAAGAAATG	23794	CTGAAATGGCAGCCTTATGTTTCATC	34778
1153	GCTGCTTTGCGGGACCTT	12811	CTCAGGCATGGACACCTATCTTC	23795	TTCTCTGGAGTGTCTGCTTTG	34779
1154	GGCAGGAGTCACTGACAAGTGGA	12812	AGCTCCCACTCCAACCTCAGA	23796	TGGAGCTGGCAGGAGTCACT	34780
1155	TGTGTCAAGCAGATTGAAGCTAAC	12813	GCAGGCGAGACTCCCCAAC	23797	GGGCTGTGAGGTTGTGTGCA	34781
1156	TGCACATTCTTCTTGGTGAT	12814	TGCACTCTTGGGAGGAAAA	23798	GCTCAGGGCTTGACATTCCTT	34782
1157	CCTGCATTGCAAGCCGTTT	12815	GCTCAGGCTGGCTTGAACA	23799	TGCCCTAACTTCTCCTGCATTG	34783
1158	ACCTGCTGTGTGGTATGGAA	12816	GGCTGGACAGTTGTTGCTGAT	23800	ACCAGGCCTTCCCTTAGTCA	34784
1159	GAGCCGAATGTTCACTTATGGAGTT	12817	AGATCAGCGACCTTGAGGAA	23801	GGGTGAGCCGAATGTTCACT	34785
1160	CTGAAGCCTAATGGGGATCCAGAA	12818	AGGCACCCCTTACTGTGAGA	23802	CCAGCCAGAGAGGTATCAACT	34786
1161	AAATAGCTGTCCATTCTGGTTGT	12819	CCAGGATGGAGAAATGCAGACACA	23803	GCTACTTTGCAGCTACCACTGAA	34787
1162	TCCCGGATTTCACAGTAGT	12820	AGACCAGTAATGGATGGAGGTGTA	23804	CTGAAGTATCATCTTCCCCGGATT	34788
1163	GGGTAGGATGCATGAGAACTGGAT	12821	CGCTACTCTCAAGCCAGAAA	23805	CAGAGGGGTAGGATGCATGAGA	34789
1164	GCCAGCTGAGGAACTATTAGACACT	12822	TGGCAGCCCTCCACCTTTT	23806	CTGATGCTAGATCCTCTTCTACTTG	34790
1165	CTGCAGATCTAGCCAATGAGGTT	12823	TGGCAGGTGACAAGGTGAATTT	23807	GGCAATAGGAGCCTGCAGAT	34791
1166	GGCCAAGATTTTGGTGTCAAGTAG	12824	AATTCCCTACGGAGTGAAACACAA	23808	GGGCTGTGGGCCAAGATTT	34792
1167	ACAGCTGCGAATGGCCTAAT	12825	TGTGTAAGGGCAGGATAAAACAACT	23809	CCCAACTATTTTTGGTTAGGAAGAAC	34793

1168	GATCTCATGGCTACGGAGATCAAG	12826	ACCTCAACCTCTGTGTGTGTTT	23810	GGGTGACACCTGAGGTTCTTGA	34794
1169	CCTCCTGGGAACTGGCAAGTAAAG	12827	CCACAGTGAGGGTGAACAATCAT	23811	CCCAAAATGCCTCTGGGAAAC	34795
1170	GTACATGGTTATGGCTACCAAGAA	12828	CCTCACTCCCTCCTGTCTT	23812	GGAACATCTCATGGTCACGTATTTG	34796
1171	TGGTCAGTGTCTCCAGAGTT	12829	ACAGCTAGTCTGGATAAAACCTAGAGA	23813	GGTCTAGGGTCTCAATTTGGTCACT	34797
1172	CGCACATGTCTCGTGTCACT	12830	CATTCTCTGTACATTGGAGGGAAC	23814	CCCTTTGGATGACTCTTCGCACAT	34798
1173	ACCACTGACAAACCTGTGCAT	12831	GGTGGGACGAGTCAATCACTAAG	23815	CCACTGCCACCAGTGAACAA	34799
1174	CAGGGATGAATAAGCCTCATGAAAGA	12832	CACCGTGCCAGCCTGTAA	23816	GAGTGGTTTCCCATCAGGGATGA	34800
1175	ACTGCAACACTGTGATTGTCTTCA	12833	GGCATGTTAGCGAGCATTTTACA	23817	GGCAAACTGCAACACTGTGA	34801
1176	TTGGCTCCCCAGAGTGTGT	12834	GTCTCGTTCAGACAGTGGTTCT	23818	TGCAGGTTTCTCACATAAECTCTT	34802
1177	CAGTCGAAAGAGTGGAAGGATGA	12835	CAGGAACCTCATCTGAGTTGATT	23819	TTCTCTCCAGCAGCACTCTTTATT	34803
1178	TGAAGCATCTGGCCTGTCTGA	12836	TCTTGCTGGACCAGAGTGTGA	23820	CTGTGGCCCATGAAGCATCT	34804
1179	TTCCGGGTGCATCCTCACAT	12837	AGGCCGAGGGAGTTGTTTG	23821	TGTCGTCTTCTAGCGCTCTTC	34805
1180	CATCCACAGCTGTCTCCGTGTA	12838	GGCCCTCAAAGTGGTGAAGAGT	23822	CACACATTTAGGAGCTTGATCTCATC	34806
1181	TTCCAGGTTGTTTCTGCAAGTAG	12839	CCTTGCCTGAGCTGGTATTCT	23823	GGAACCATGTTCTCTTCCAGGTTT	34807
1182	TCCAGAGACACAGCTAGTTAAAAAC	12840	TGTGGCTACAACCTCAGGCAAA	23824	TCATCATCCCAGAGACACAGCTA	34808
1183	TGCTGCTCGTACAGTGGAAAG	12841	GACATTGCTTGACTTGGGTGTGT	23825	CCTTGCTGCTGAACCATGAGACT	34809
1184	GGAGCAGTATCATTTTGGTGCATTG	12842	CTACCCGCTCCCATGAATGAATC	23826	GGACCTAGTGATTCTCCCATCAT	34810
1185	CGGTGGTGCTTTGTTTTAACT	12843	TGTGTGCTGACAGGTTTGTGA	23827	CACATTTTTCGGTGGTGCTTT	34811
1186	GGAGAAGGAATGTGCAAGAACAAAC	12844	GCAACAGGAGCTACTTGCCAAA	23828	AGGAGCCAAGAACAGGAGAAAG	34812
1187	AGTAGGTGTGATGCCAGGAT	12845	GCCCTGTGTTGTGTCTGAT	23829	TGGCCATAACAGAGTAGTGTGA	34813
1188	TGTCCTTCTAGCCTCATCTCTCA	12846	GGCTGCAGCATGAAGAAATGTGA	23830	TAGCCCCACGTGCTTCTCTA	34814
1189	GCTAGGGATACTGAGTCTGTCAT	12847	GCAGACCATTGCTTGGAGGAGATA	23831	ACTTGTTCACTTGCTAGGGGATAC	34815
1190	CCCAAAGAGTCCCCATCTGGTT	12848	CTGAGCTGGGAAGACTCAAAC	23832	CAGAGAGAAGGAGGCCCAAAGA	34816
1191	AGACCTAGGCGGCAAAACAA	12849	GCAACTTAGGCCAGCTGAGTT	23833	TGTCAGTAACGGTGGAGACCTA	34817
1192	AGTTTCTGGAAGCCAGCTATTAA	12850	AAGACAGGGTGGGAGATGTAGT	23834	GCCTTTTAATTAGCCTTGAGCTT	34818
1193	CGTAAGCATAGGGGCTGCAGTA	12851	CCTGGATTGGGCATACGTGAA	23835	AGTGGGAGCCTCGTAAGCAT	34819
1194	GCAGTTGAGGGAGTTCAACTAAAGA	12852	TTCCCTGAACTCTTGCTGGTTT	23836	GGAATAGGTAGGTGCAAGCAGTTG	34820
1195	CCTAGGCTAGAAGCCAGAAAAAC	12853	GGGTGAAACTGGAGGCTTGTTT	23837	ATCCACAATTTCCCTAGGCTAGAAG	34821
1196	CCTTCCCTTTGTACACCACATC	12854	ACTCTGTACCGGGTATTTACACT	23838	GCCTAGGGTTCTCTTCTTCCCTT	34822
1197	CCTGTGTTAGGAAGATGAGGAT	12855	GCCATCCAGACCCCTCTAATTG	23839	TGGTTCCCCGAGCTCTTTTC	34823
1198	GAAAGAACTGACTTTGCAGCTTAAC	12856	CAGCCTCGTGACGAGTTG	23840	TGGGTCTAGAAGGAACTGACTTTG	34824
1199	AGGGAGAAAAATCACACTTTCAT	12857	AGAACCCCATACCTGCATTACAAA	23841	GGGCTCAGGGAGAAAAATCAC	34825
1200	GGGGACGAAGTCAAGGTGTAG	12858	TCCCTGGAACCTCCAAAACT	23842	TGAGTCTTACGGGGACGAAGT	34826
1201	CCAGAGAAAAACAGAGGGCATTGGTT	12859	GCGGGTGGGACATGTTGA	23843	GATGACCTTGCCAGAGAAAAACAGA	34827
1202	TGTTCCCCAGGTTTGGATTTC	12860	AACGCCACCCCGCTGAAAG	23844	GCAGGGCTCCTGGGCTAATG	34828
1203	GAAAGTACAGGCTATAGCTGATGGAT	12861	GTTTGTGGCAGAGACGCTATTG	23845	CCTGTGAGCAAAAGAAAGTACAGGCTAT	34829
1204	GGGCATTGTGCTGGTCTCT	12862	CTGGTGTGTTTATAGTGAAGTTCCAACA	23846	AGGAACACGGGGCCATTG	34830
1205	CTGTGAAAACCTGGGACTAGCAAAAG	12863	GGAGTGCTTACGGCAGCTT	23847	AGCATCTCTCTGCCCTGTGA	34831
1206	CTCCTTGTAATCCAGTGAGAGAAA	12864	GAGCAAGGAACCTCTGTGTGA	23848	GGTTTGTGGTCAGTGACTCCTTGTA	34832
1207	GGGTGGGAGCAGAAAGTATGTTG	12865	CAGGGCAAAGCCACGAAGTT	23849	AGGTGGGTGGGAGCAGAA	34833
1208	ACAAGAACGCAGAGCTGTCA	12866	TGGGCAGAACCTCTGCTAAA	23850	GGCACTTGGCAGGCAAAAAC	34834
1209	TGGAGTCTGCTCCAGTAGCTAAG	12867	GCCAGGTTGCTGTGGTAAAC	23851	TCTGGGAAGAGCAATGGAGTCT	34835
1210	GTCCACAGTGAGTGTCTGGAAA	12868	GCAAAACCACTGAAGTAGTCGTT	23852	TGCGCAAGTCCACAGTGAGT	34836
1211	TGCTGCGCCCTATAGCTTGGTA	12869	GCTTCCAGCAGCAAAACAGAGA	23853	GGCTCAATGCCTGCGCCCTAT	34837
1212	TCTTGGGATTCTGGGGCTTTC	12870	CCTGCTGTTCAAGGATTTCTGAGCTA	23854	CTGAGAAAGGAGGCTTCTTGGGATT	34838
1213	CGTCTGCGCCGAGACCTT	12871	CTCCAGTGCTTACTGATTCAGT	23855	CGCGTCCCATGACGTGAAC	34839
1214	GGCCTGTCTCTCAGCATGT	12872	GGCACAACCAACAGTGACCAA	23856	TTTCCGCATGGCCTGTCATC	34840
1215	GAGGAGTCTTAAGTCAAGGGATAC	12873	AGGGCAAGCTTCCCAATAACT	23857	TGGGGACAGAGGAGTCTAACT	34841
1216	GGCTGAGTTTCTTTGTGGCATGTAA	12874	AGCCACCACACCTGATCCAT	23858	CTCTCTGTGAGGCTGAGTTTCTTG	34842
1217	GACCCTTGATAGTTAGAAGAGTGTT	12875	GGGGCTGTGTGGAGCTGTAG	23859	CCATCTGTGACCCCTGCATAGTTAG	34843
1218	GCCCTAAATAACCTCTACTCACGGGATT	12876	CCTCTCGCTTGGCTGTGTT	23860	AGAAAGTTCTGCCCTAAATAACCTCTAC	34844
1219	ACCCAGTGCTTTGGTGTCTCA	12877	CTGATCCATTGCCCCACACACA	23861	TCTCACTACAAAAACCCAGTGCTT	34845
1220	GCCCCATCCATGACTTGGTGAA	12878	GTCTTAGCTGGACGCATAGTTG	23862	GTGAAACAATGAGCCCCATCCAT	34846
1221	GGGGCCTGGGGTCAAGAA	12879	GGGACTTGAAAAAGGCCTCATAG	23863	GGCCATGCAGACCCCTCTGT	34847
1222	GCCAAGAACCTACCTGCAATTG	12880	CCTTGGTCTGTTACCTGTCTT	23864	CCTGGGTGAAGCCAAGAACCTA	34848
1223	TTCCCTGGCCCTGTTTCTCT	12881	CTGGGAGCCAAAGAAAGATTAATGA	23865	CCCCTGCTACAGAAATGCAGCTT	34849
1224	CCCATTGCTGGTCTATAGCTT	12882	CAGGTTTTGAGTAGCAGGAGGAA	23866	ACAGGGGATGTAACCCACTTTG	34850
1225	CCTGAGCATGTGGTGTGGTTT	12883	TGGGAACCACTGGACCTTCA	23867	GCATATGCTAGAACAACTGAGCAT	34851
1226	CCTCAAAATGGGAGCCAGCGATA	12884	GTACAGTGGGAAGGGCATT	23868	CCACTATATGCTGGGGACCTCAA	34852
1227	GACATAGGGAAGTGTGTCTACTTCA	12885	ACTTGGGGGCCACGCTCTA	23869	AGTGGGGACATAGGGAAGGTG	34853
1228	AGATCTCAAGGTAGGAATGTGTCTCA	12886	CACGCACTGCTGACCTCTGTGA	23870	CCATGGGGAATCTGGGCAATCA	34854
1229	GGCAGGTAGAAAGGCACACCCCTAT	12887	TGCCATTGGGCTGGTTGAT	23871	CCATGTCTAGTCAAGGGCAGGTAGA	34855
1230	TGACTCCAGCTCCAGGGTTACA	12888	CAGTCTGCTGGGATAGCAA	23872	GTGTTCAAATGTCAGTGCTCTGT	34856
1231	AGGCAACGGGACACACCACTT	12889	CCCCTGGAAGGGGACAGCAT	23873	TCTGTCTGAGTGAAGATGGAGACA	34857
1232	CAGGGATACCATGGAGAAGTTGGTA	12890	GAGCCGTCTTGCACACA	23874	GCACCAGCCAGGGATACCAT	34858

1233	AAATGACTGCTTCTTCACTGAGA	12891	AAGAAAAGCTGGCCCTTTTGATG	23875	CCCACAGGTTTTAGCAAACTGACTGCTT	34859
1234	GTATCCCATGTGCCATTACTTCTGT	12892	GCAGTGGGGACCAATCATTC	23876	GCTGTCTGCTCTATCTTCCAAATGT	34860
1235	TCGCAGGGGTTGCCTCAGT	12893	CAGGCAAGGAAGGGAGCTTGAA	23877	GGGAGCTGAGGACCTGCAATC	34861
1236	CAAGACAGAGTGTGGGCAATCAA	12894	GACCTGGCTCTGTCTTGAGT	23878	TGGCTTCTAGAGCAAGGAATCAAG	34862
1237	TGTCATGGCCACTCTGT	12895	GCAACAGAAGCAATGCAAGACA	23879	GGCTGTTTCTAAGGCTCTGTCCAT	34863
1238	TGCTGATCAAGCCAAAATCTACCAT	12896	TGGGAACCGGTCTGGAAGAA	23880	CCCCACTGCTGATCAAGCCAAA	34864
1239	CCATCATTCTGGCACAGGGTTTG	12897	CCAACTGCAAAGGAGTGGGTAA	23881	CTGACCCTTCTTCTCCCATCA	34865
1240	GCAACTCCAGCCAAAACATCTTTTC	12898	CAACGGCAATGCTGACAGAAG	23882	CCCTAGAAAGCAACTCCAGCCAAA	34866
1241	CAGCAGTATCACCTCCATTTTGCTA	12899	ACAGGGGCACACCCTATCTTGA	23883	CCCCATTAAGAAAGTCAGCAGTATC	34867
1242	CCAGCTCACATTGGCAGCGATT	12900	GGATCACACAGGAATGGGATGAA	23884	TGTCATGGATTTCAGCTCACAT	34868
1243	AGGGGCAGCACCTTACTTCA	12901	CTCCCTGGGAACTCTGCTTAGA	23885	AGGGTTCAGGGCATCTGTCT	34869
1244	CAGAGCGCAGGCATGCTTATTG	12902	AGAATGCTGAGTTTAGGGAATCCAA	23886	TGGTGTCTCCTGTGGAACAGA	34870
1245	TTTACCCAACCTTCAGCTTAGAT	12903	AATCATAAGGCCACGCTACTTCT	23887	TCCAGCTAATTTTACCAACCTTCA	34871
1246	GAGCCTAAGAGGCATATTGGCATTG	12904	AGTCACTGGCTTGCCCTTGT	23888	TGGCCTGTGGGAGTAAAAACTTG	34872
1247	CCCCAAGGAGTCACTCTGGTT	12905	CAGTCCAGGGGTGAGATAGGAT	23889	TTCTTCATCAGCACAGTGACAAAC	34873
1248	GGAAGTGCCTGGAGCACAGA	12906	TTCCCTGCTACCTGGAGGTGCA	23890	GGAGCCAGTGTCTGAGGAAGT	34874
1249	GGAGATGCTGATGCGTCTTAG	12907	CTGATCCCCTGAACACCAGAAG	23891	GACCTTGTAAGGAGATGCTGATG	34875
1250	GGTCTCAATTCTGGCACACTATCA	12908	TTCTGTCCAGGGGAATCTCA	23892	TGAATAAGTGCTCTGCTCTCAATTC	34876
1251	GCATGAGGCTGTTTTCCCATGT	12909	TCTCCCTCTGTGGGGAAGACTTG	23893	CACTTTGGATGCATGAGGCTGTT	34877
1252	CAGGACCATGCTTCTCTGAAAC	12910	AGGAGGAGGCAAGCGAAGAT	23894	GGTGGTGTGACGACCATGCTT	34878
1253	GATGCTGCAGGACAGCAATCA	12911	GGACAGGCTGACTACAGGAGAAG	23895	CCCCTAGCCAGCAGAGATTGATG	34879
1254	GCCCATAAAGGACTCTCTCCAT	12912	TGAGTATGGCTGAGTGGTGAT	23896	GCACCTCTCTCTCTGAAGCCCAT	34880
1255	CCGCTTGATCTTGGGAAAGT	12913	ACGGGAATTGAAGCTTAGAGAAGT	23897	TGCTACTACTACCCGCTTGATCT	34881
1256	ACACCTCAACACGGCGACTCT	12914	TCCCATGCAGCGGGTGAAGA	23898	GGACCTCAGAACACCTCAACA	34882
1257	GTTGGTGACAGAAGTGATCTAGGAA	12915	CACGAAGCTGTGTGCTGGTAGA	23899	CCACCTGCTGTGTGGTGACA	34883
1258	GCCACTGGGACGCTGTTT	12916	GCACATGGAGGCACTGTCT	23900	TGTTAGAGAAGGAGGGCGTTTTC	34884
1259	CTGAGAGTGGGCATGCATTGT	12917	GCCATGGCTTTTGTGCAACT	23901	GTCCCCACTCATGCAGAACTGA	34885
1260	GGAACAAAAATGCGTGGTCAGA	12918	GCTAGGCTCACTCTGTGCAA	23902	AGCACCGTAATTTCTACCTAACA	34886
1261	CTGCTCTTCCCTCCTGACATCT	12919	AGGAGTGACCCCTGGTGTGAT	23903	GACACTTTGGAATACTAGAGCTGTCTT	34887
1262	TGTCTCTGGGTGGTGAGT	12920	GGGCTGTGAGTGCTGAA	23904	GGGAATTGGCCTGGGAAAAGTGT	34888
1263	AGGGCGGTGAGGGTGTTGA	12921	GAGGGGTTTCCATGCTGCTACT	23905	GCTGTGCTCTGTCATTGGGAAT	34889
1264	ACCATGACTTCTGTTCCAAAT	12922	GCAGCTGAGGTAGAGCAGAAA	23906	GTACAGAGTTCCAGATCCCAAA	34890
1265	GAGGGAAAGTTGGCCCTCATCA	12923	GCCACCATGCCAGCCATTTA	23907	CCCTTGTGGAAGAGGGAAAGTTG	34891
1266	CCCTACTGCTTTGTCTTAAGTGAGAA	12924	GCCAGTGAGATGGAGGTAGGAA	23908	CAATGGCCCTACTGCTTTGTCT	34892
1267	GCTCAGCAATACTGCAGTTAGGAA	12925	CCCATTACTCTCTCCCGTTTC	23909	CCTGGGTAAACAGCTCAGCAA	34893
1268	GTGGTAGGGGCGTCTCACT	12926	GCAGACAATTTCTGGGAGAATGATTTG	23910	AGGTGCGGGGACAGTGGTA	34894
1269	CTGCTGCTGCTGCTCAAAGCTA	12927	CCCCAAGGCCAAGCAACTTA	23911	CCCCAGCTGTGTGAGAGTGTGTA	34895
1270	CAAGACATCCACCATCAGACAGCTA	12928	GTCTTCTGTCTCCAGGGATTG	23912	CAAATGTTGTCAAGACATCCACCAT	34896
1271	GGCAGACACCGAGCATCTACA	12929	CACCTTCTCAAACCTCAGGACTCCA	23913	AGCACTGGGCAGGCAGACA	34897
1272	CAAGGACCATATGTAACCTACCATCA	12930	TGTGAGCAAGTGGAGAGGTATCA	23914	CCACACCAAGGACCATATGTAAC	34898
1273	CCGCTTTTGCTCCTCACATC	12931	GGCTGGAGACCCACATATACA	23915	TGTGCACCTCCGCTTTTG	34899
1274	GGAACAAAAATGGCTCTTGGACAT	12932	GAAAATTTCCCTGGACGCTTAAA	23916	GCAGCTAATGTTGTCTATAGGAGGAA	34900
1275	CCGTGGTTTCTCACACCAT	12933	GGGTTCTAGGGAGGTAACTGT	23917	ATCCCAGCTTCCGTGGTTTC	34901
1276	TGCGCTTCAAACCTCAGAA	12934	GCTGTGAAAAACAGGAAGACCTAATG	23918	TCTACATGTAAGATGCGCTTCCAA	34902
1277	CGTGTCCGTTCTCTAGGTCATTAG	12935	GGCGCGAGCCAAGTCTTT	23919	TGGTCGTGTCGTTCTCTA	34903
1278	TGCTGGAACACCTAAGGACTCA	12936	TTACAGTAGTGGACCATCTTCA	23920	CCGACAGAGTGTCTGGAACA	34904
1279	CCCCTTTTCTAAAGCAGAATGATGT	12937	CTACAGGGAAGTTTCGTCCAAGT	23921	CCTTGCACTGTGCTTCTGTACATTT	34905
1280	CGGTAACCGGAAAACTCAGA	12938	CCAGTCTGGCGCAATAACA	23922	GCATTGGCTTTGAAGACGGTAAC	34906
1281	TCTGCTAGCCACTGGAATTCA	12939	GGTGCTCTATTTCCCATTAGGATCA	23923	ACCAGGTGTGAGGCTCTGCTA	34907
1282	CACCTGGCAGGAATGATGGTTT	12940	TCATTGGTCTTCAACCTTGCTT	23924	GCTATTTCAATAACCTGGCAGGAA	34908
1283	GGGCTTCATTATCACATGACTCT	12941	AGGGCCTCACTGCTGGTTTCA	23925	TCAAGCTCTGGGCTTCATTCTC	34909
1284	GCAGAAATGTTCCCATGTGCTTGAAA	12942	CCATCAGGAGAAAAAGCCCTCAAC	23926	GGGGCAAAGGTGGGCTTAGAA	34910
1285	CAGGCTGAAGGAGAGTTTCCAATC	12943	CCTACCAGACCAAGTGCATTTCT	23927	CCCTACATCTTTGACAGGCTGAAG	34911
1286	CAACGTGCCGCATTTGTGTTG	12944	GAGGGGAGTTCCCATGGTCTAACA	23928	CGCCGTGCTCTTCCACAA	34912
1287	GCAACAGCCTGCAGATGGAT	12945	CCTTTCTTCTGCTGTGCGAGAA	23929	GCATGCACCTGTGAGCAACA	34913
1288	CTCCTCCACCTTTTGCTACAGT	12946	GTGTCACTCTGACCCAGAACCAAGT	23930	CCATGCCTACTCACCTCCAGTTTC	34914
1289	GAGGGAACGATAGCTTTGCAGTTA	12947	CCAAGCAGGTGACCCAGAA	23931	CACACCATGAAGAGGGAACGAT	34915
1290	CAAGTTCTATTCTGAGGTGCTTTTG	12948	GCCCCAAACCCAGACATAGT	23932	GTGATCCGTAGGGAATTTCAAGTTCTA	34916
1291	CATAGGGCAGTAGCAGTGAGATT	12949	GGAGGCTATTTTCAAGGCGAGTAG	23933	AGGAAGGGTTCTGTCTCTCT	34917
1292	CCGATCAGGCGTCTGTCTTGT	12950	AGAATGCCAACTAGTGACTAGTTCT	23934	ATAGGCAGGCAGAGGCCGATCA	34918
1293	GTCTTTCAGACTGTCGGTTTTCA	12951	TGGTGCTGTATGTTTACCCATATC	23935	GCAAAGAAGGTAGACTTTGTCTTCCAG	34919
1294	AGTGCTGTGGGCTGGAGTTGA	12952	GCCAACGGACTGCGAGTGAAAA	23936	TCCCTCCAGCAGCAGTTTCACT	34920
1295	CCATTGGGCAGGTTCCACATC	12953	CCCTCCGTTTGTCCACGTAAC	23937	TCCTTTCGCTCCACCATTTG	34921
1296	CACATAGGAAGGACTGGAAGCTATG	12954	GACTGAGAGACTCTGGGACATGA	23938	GACCACCTGTAGATAACACACATAG	34922
1297	TAGGGGCATGCTGTAGCTCTGA	12955	TGGGCCAGACCTGGAGACT	23939	TGCTGCAGCACAGTGAA	34923

1298	CAGCCACACCAAAATTGCTGGTT	12956	AGAGTTCACCGGAGACCAGATAC	23940	ACGCGCAGCCACACCAAA	34924
1299	CTGGCACAACGGTGTTTTTAGTGT	12957	ACTCAGCATCAGTAGGAAGTAGTGT	23941	CCCCAAATCCTCACTGGCACAA	34925
1300	GCCACAGTATCTCGGACTGA	12958	CTCCTTCTCAGGGTCTTTGACT	23942	ACTCACTGGAGCCCCAGTATC	34926
1301	GGCTTAGTTGTAAGGGCTTTAGGATCA	12959	TGGGCCCACTTTGCTCTCAT	23943	CCAAGCAGGTATTGGGCTTAGTTG	34927
1302	GGCAGACGGGTTTAGTCTTCAAGT	12960	CAGGCAGCCATCACTCAGTCT	23944	TGGGAAGGCAGACGGGTTTA	34928
1303	TGCACATCATCATTGCAAGAAC	12961	TGCAGGCAGCTGTGTTGA	23945	GCCACTATATCTGTATCTCCTTTGACAT	34929
1304	GAGGTAAATGGGTCAAGCACACT	12962	ATTAGGGCTGACTTTTGGCATTTC	23946	CCACCTGGGCCAACCTGAA	34930
1305	TGGGTAGGCCCTAATGGACTT	12963	GCCTGTGCTCAGCAACTTTTGA	23947	CGACCTCTTCGGATCTATGACTGT	34931
1306	TCGGCCTCTGACTGGTGAATGT	12964	GCGGGCTCCTCTGCCATAAG	23948	GCCCATTTTCGGCTCTGACT	34932
1307	GTGAGAGGCTGGTAGCAAGGTAGA	12965	AGCTAGACAGCACCTGAGGTAT	23949	GGCTCATCTTAACAAGGATGTGAGA	34933
1308	CCCGAAATCCAAAGGCAGGAA	12966	GAGACTTCCCCTAGCCTGTCA	23950	GGAGAGACCTACCCGAAATCCAA	34934
1309	GGTTGGTTATCATGCCCTTTGACT	12967	GCACTGCCAAGTGGTCAAGGAA	23951	GGGACATTGGTGACCTGGTTGGTT	34935
1310	CACCTTCATTGCAGCGTGTGA	12968	GGTGACGTTAAACAGGTTTG	23952	GCCCCACTCAACACCTTCATTG	34936
1311	TGGCCTTGTGTGCTCTCAGT	12969	GCTGATGTTCTGCTGACACTAC	23953	TGGGACACCTGGCCTTGTG	34937
1312	GGGTTGAACCTGACTGGGTGGTT	12970	TCCAGGCACCTGCTGACACATA	23954	GGTCAGGAATTTGGGTGAACCTG	34938
1313	AGCTGAATGCTGCCAGTTGT	12971	TGGCAGTTGCCACAGTATGTAA	23955	GCTTTCTGCAAGAGGGACAGAAAAAGT	34939
1314	GCCGAAAGGAAAGCATGAGTCATCA	12972	GGCTGAGGAGAGGCAAGGTA	23956	GACACAGCCGAAAGGAAAGCAT	34940
1315	CTTCCCTGCACTTTTGACACCTAAC	12973	ACATGACCCGCAGAGCCATAGT	23957	GAGGTTTCAGTATCTTTCCTGCAT	34941
1316	CCTCACTTTGTCCCCAAAGACA	12974	GCAGTTCACCTTGGGGTCTGAATTG	23958	AGGCAGCCCTCACTTTGTTC	34942
1317	GCATCATCTGCTGGGTTTGAAG	12975	GGTCGGGGAGTTAATAAGCATCA	23959	GTTCCCACTGCTTAAGGCATCA	34943
1318	GTGAAACAAGCAGTAAGTGTGGGATGA	12976	AGCCACCAAGGGTGAGTTGT	23960	GCTGAGGTGAAACAAGCAGTAAAG	34944
1319	GAGTGTGACCGAGACAGGATGT	12977	CGCCTGCTCGGCATGAGAA	23961	GCTCCCAATAGACATCTTTGCTT	34945
1320	GCTTGACCCAGGCAGCTTTGA	12978	TGGGACATCTGGGCTTCTTTG	23962	GGAGAGCTGGAGACAGCATTCA	34946
1321	GCCACATGCCACCCACTA	12979	TGACGATGCCCGTCAGGTA	23963	GGACAGTGGAGGCCACAT	34947
1322	GGGACACAGGCTGTAGTGTCA	12980	GGGTCTAGAGCTGGAGTGAAACA	23964	AGGTGGCATGAAGGGACACA	34948
1323	GCCTACTCACCTTCAAGCTCAA	12981	CAGGCAGGGTGGTATTACAGAA	23965	GTGTACAAATGCCTACTCACCTT	34949
1324	AATGCCTGAAGTGGCTGATGT	12982	CCACAGCCACAGGTCAGTAG	23966	ACCTCTTTGACAAATGCCTGAAGT	34950
1325	GGACATGGTGACATTCACAGT	12983	GGCAGCTAATTGCACTCGGTTGT	23967	AGGTTGAAATGGACATGGTGACA	34951
1326	GTCTTCCACAATGTCAGGCTTT	12984	CCATGCAGCCGTGATTGAAGT	23968	AGGCCCAGGTTTGTGCTTC	34952
1327	GCTCAGCCTTCATGTGACCTGGAT	12985	CCAGGGGTTGCCGAAACACT	23969	CCAGGAGATGCTCAGCCTTCA	34953
1328	TACGGACAGAGCCCGGTAATC	12986	TTGGGAGGCCACAGGATCCACTA	23970	AGGAGCTGCTACGGACAGA	34954
1329	TCCTATAGGATGGCATCTCTCAA	12987	TGACCAACAAGATTCTCTTCCAA	23971	CCCGTGTGCTCCTCAGTTTGTGA	34955
1330	GGATGAGCCCAAAGCACACAGA	12988	CCCTACCTGACACCTAGTAAATACAA	23972	AGGGTCGGGATGAGCCCAAA	34956
1331	AAGCTTGCCATCATGGTGTACT	12989	CAGTGGCATTACCATGTATCTGT	23973	GGCAGCAGAGCTGAATGAAAG	34957
1332	CCCACACACCCAGAAACAAA	12990	GCCAGTGGTTCATCCTCCAGAT	23974	CCTACAATCTGAGAGCCCTTTGGAT	34958
1333	CCCAAAGTGGCTCCCAAGA	12991	GCAGAACAACTCAGGCAGAAA	23975	CCATGCTAGGCGTCCCAAGT	34959
1334	GTTGGAAAAGGAGGAAAGACAGA	12992	GAGGCAGAACCTCTGAGT	23976	CTACATCTCTGCTCCACAGTTGGA	34960
1335	GGGGTAGGCAGTTTTCTGTGAT	12993	CAAGCGGAGGCTATCACCAA	23977	GGCCTTCACTCACCTTTTTG	34961
1336	AGTACCCCATGGCACTGGAAGA	12994	GCATCTGCATCTTACGGCAGTTC	23978	CTGTGCCCATCACTTCCAGTA	34962
1337	TGAGCTGGGATAGCCCGAGAA	12995	GGAAGTCCTTCAGCATAGGAAAC	23979	TCCCGCCCTCCTCCATTTC	34963
1338	CAGCTCGTTCCTGTCCAATCCAT	12996	GGAATGCCTCTCACTGTGTTCTTC	23980	ACAGTGGCAGCAGCTCGTT	34964
1339	GGTAGTGGAGTAGGTAAAGGGTACTGT	12997	ACACACAGCAGAACTGTCA	23981	GCTTCTTGATGTGGAGTAGGTAA	34965
1340	TGCCGTGAGAACTAATCAAGGTT	12998	GCCTAGCACTGAGCTGACCATT	23982	CCTGTGTTGCCGTGAGAAC	34966
1341	CTTCATGTGCCATGAGACTTTCCTT	12999	GTGGGCTTCCCTGTTTCATTTT	23983	GCAGTTTCTGTTTCCAGCACTTC	34967
1342	AGGGTGGGACATGGCAAATAAAG	13000	AGGCAGGTGGCCTGCACAA	23984	CTCTAGAAGTACAGGGTGGGACAT	34968
1343	GAGTTGACGCTGTAAACATCAATTTCA	13001	GGGAGGCAGATTGCGAACAA	23985	GGGTTGTGAGTTGAGCTGTGA	34969
1344	AGGGTGTCCGTGGGTAGACAA	13002	TCCCTGCCTTGCTGGGAAC	23986	CCCTTGTTATTAAGCAAAAGGCAAA	34970
1345	CACCTTCAAGATGACCAATCTCTGT	13003	GACATGGGGCATTGCGATCT	23987	CACGGGCACTTCACTTCCAAGA	34971
1346	GCTGAGGGGTAGAGAGTCTCTGT	13004	ACCCTGCCATCCTGGTGTTC	23988	CCCAGCAGCTTTTCTTACACA	34972
1347	TTGCTTCGAGCTTGGGGTCATC	13005	AGGTGGCAGAGGCTCTTTT	23989	GATGAGGGATTGCTTCGAGCTT	34973
1348	GGGCCCAGCTCTGAACATCCTT	13006	CCAAAGGGTGGATGGGACAGT	23990	TTCCCTAGGGGCCAGCTCTGA	34974
1349	GCCATCTTCTCACTGGTTCCAA	13007	AGCACCCATCCTGTGAAATAAC	23991	CCTCCCCATGCCATCTTCTCA	34975
1350	GTGCCAGGTTGTAGCAGAGAAG	13008	GCTACTCTTTCAGTGGCCCTACGAT	23992	ACACTGAGGTGCGAGGTTGT	34976
1351	TGTAGGTTGTGAGGAGGAAGTCA	13009	CTACCTGCTGGGTTTCTCTT	23993	CCTGGTGCAAAGGGTCAGACT	34977
1352	AGCCCTTCTTGGTGGAAGTTAC	13010	GGGGCTGAGTCTGTGTTGTTG	23994	CAAAGGCAACAGAGCCCTCTT	34978
1353	TCCCAACCACTGCCATCCTT	13011	AAGCGGGCTTGGAGGAA	23995	GGGCTCAGTGCTTTCTGTGGAT	34979
1354	GCAGGAGTGGGTGGAAGATG	13012	AGAGGCAGGGTATATGCAAGTTTC	23996	TGGGACTCCTGCCCCACTT	34980
1355	CCCCACAAAAGCAAACCAAGA	13013	ACCAATGGATCGTTGTCTGTAGT	23997	GCAATGTGATTGATCCCCACAAA	34981
1356	TCTGCAGGAAGTGCTGTCTCT	13014	AGCAGCCTCGGGACAAAACA	23998	TGGGCACTTCCGACTTTCT	34982
1357	CTAATGCTGCGAAGCGGAATC	13015	CACCCGACCCGGCCTATAA	23999	ACCAAAAGGCGAGGCTCAA	34983
1358	GGAGTTCAAAGCTGTGGGATTAGT	13016	ACGGTGTTAGGACAGCATCAAA	24000	GGCAGAGAGTGGGAGTTCAA	34984
1359	GGTACTCCATTGCTTCCGGTACT	13017	GAACCTGTGTGCCACTGACAT	24001	GAGGGATCACTCACTCTTAGGTA	34985
1360	CCAGTCATCTCCGTGTCTGAT	13018	GGACTATGGGAAGTCAATTCTGTCA	24002	GTGATGCACAAAGCCAGTCATC	34986
1361	CCAACCTCCTAGTGATGACAGTAT	13019	GCTCTGTGCCAAATCTTTGTGA	24003	CCCATGGACCAACCTCCTAGT	34987
1362	ACAGCACTTCACTGCATGA	13020	GCTCCAGTCCATCTGCCTTTATC	24004	CAAAACAAACAGCAACAGCACTTC	34988

1363	CAACAGGATGTATCTCAACCAAGTCA	13021	GATCACAGCGTACCTCTTCATGT	24005	GCAATCCCAACAGGATGTATCTCA	34989
1364	TCCCCATTCCACCCCACCAA	13022	GTGCCAGATGAGAGTCAGGTTT	24006	AGTGAGGCGTCTCCCCATTC	34990
1365	CGGGGATTGTATCCAGGTTGT	13023	CCAACTGTGTGCGAGCTTCAGA	24007	GTAGAATAGCCGGGATTGTGCAT	34991
1366	CGTTCTCACGGAAGACAACTCT	13024	CCCTCTTCACCCCATCTTTGT	24008	GTACCCATCAACACCTCTGCACAA	34992
1367	CTCTGTCAACAACCTCCATTCT	13025	GTTTCCTCTAGCTGCTTTGCATTG	24009	GGCCATACAGTCTCTGTCAAC	34993
1368	GTTCCAGAAATGAATCCCACGTA	13026	GTGGCTTCTCTCCATCAGCAT	24010	GGAGACTCTAAATGGTCCCAGAAT	34994
1369	AAGGACCTGCCCCCTCTCAGT	13027	CTCTGAAAGGGGTTGAAGCAAATGT	24011	CCAAGCTTATGGTGGGAACAGGAA	34995
1370	CTATCAAAAAGATGAGGCACTGGAA	13028	CAGGTCTTTCACGTGGATCT	24012	GTGGGTGGGATTGTTCTATCA	34996
1371	GACTGTTACCTCGGGATTGCTTTG	13029	GCCTTGGACAGGCATGTGT	24013	CTGATGCCTGACCTGACTGTTAC	34997
1372	GGGAAGGTTGGGGTGTTCATTG	13030	CCAAAGCCGCTCGTACTCACAT	24014	AGCTAGGCGAGGGAAGGTT	34998
1373	CCCAGCTTATTGCCAGGAGAGTT	13031	GTTCTCTTCCCTGTGCTGTAG	24015	GCCATATGATTGCCCCAGCTT	34999
1374	GCCAGGATTGAAGCCCAAGTCA	13032	GCATAACAGTGTGGGCTTTTCAGA	24016	GTCACTAGTCGAGCCAGGATTG	35000
1375	TCCATGCACTAGTGGTTTTCTTACA	13033	GGGACCCATACCTTCTCTGAAC	24017	ACCCAAGGATCTCCATGCACTA	35001
1376	CCTTTCTAACAGACTCTGGCTCAA	13034	GCTTGAAAAACCTTGGTGAGGAA	24018	GCAGGGCCTTCTCTTCTAACAGA	35002
1377	AGCACTGTGCCATCTGTGA	13035	TCAGCACCCAGTGCCAATGA	24019	AGCCCTGTGAAGGAGCACTGT	35003
1378	GCTGCCTGAGCTGAATTTCAAAAC	13036	GGTGTCTGAAGAGCCCCAATTC	24020	AGAAGGTGAAGGTCCCAGGAA	35004
1379	TAGGGTCTGCGAGGCACTGA	13037	GAGGAGGGTCTGAGCTTCTGATGT	24021	GCAGCTCTGGCTGGTCTCA	35005
1380	CATGACATTGCAACTCCCTCTGTT	13038	CAGCCCTGTGTTTAAGCAGGTAA	24022	CCTCCTCTTCTGGCTCGTTAT	35006
1381	GAACACGCGTAGGATACAAGGTT	13039	CCTGCATTAAGTGGCTTCTACTACT	24023	GTGGAATGGAGGGTAGGTGAGAAAA	35007
1382	TGAGCTGGTTAGAGCACGTTT	13040	GTCTCTCACTGTAGACAAGGAAAGCAA	24024	AGTATGCTACAGTTGAGCTGGTTAG	35008
1383	ACATGGGGTATTGAGCCAAATGT	13041	CATGTGTGAGAGCCCGAAT	24025	GCCTATGTACACATGGGGATTCA	35009
1384	AGCAACTCCGTGGTCAAGAAT	13042	CAACATCTGGGAAAAGGTACTTCCAA	24026	TGCTGCAACAGCATTTTCA	35010
1385	CACAGTGACCTGCATTAACTTT	13043	TGCAGCCGAGGAGGAATAGT	24027	GAGACATACAGTGACCTGCAT	35011
1386	GCTCAGGTGAGTGGTCTTCAA	13044	TGACGTCCCCGGTGCAGTAATA	24028	CCCTCCTTCCCTGTGAGGAATG	35012
1387	GTGAGACTAAGAGGTTAAGTGCCTGT	13045	GTAGGCTGGGATTTCCCTGATG	24029	GATAGTGAAAAGTGAGACTAAGAGGTT	35013
1388	GAGCAGCAACGTCCTCAAC	13046	AGGAGGGACCTTGGAGCAA	24030	GAAGCCAAGGAGCAGCAAAC	35014
1389	CCACAGAGGGGCTGCAAAA	13047	CCGAGGTGGCTGTGTTAATCT	24031	CCAGTGCAATTAGGCTGGAAGGAA	35015
1390	GGCCTCAGAACACTATACACCAAA	13048	GTGGTTTTCTCAGCTGTCAAGATG	24032	GGTGTCTGGCCTCAGAACACTA	35016
1391	GCCTCCAGAGACCGCAAATACA	13049	CAGCCAAGAATCCTTCCACTGT	24033	TGCCTGTGGGAAACCAAGA	35017
1392	AGGCTCCATCTGCTCTTCTGT	13050	GGGAGGACACCAACTCTTCT	24034	TGGGCAAGGCTCCATCT	35018
1393	CCTGCAGCTTCCATGTGGACATTAC	13051	GTGACTGCACTCCGGGATGA	24035	ACCCCTGCAGCTTCCATGT	35019
1394	CCTGTGTGGTACCAGCTTCTTC	13052	GTGTGACGGGAAAACTCCAGGAT	24036	CCTCCTCCCTCTCTGTGTGGTA	35020
1395	TGGAGGGCAAAACAAAAGGAT	13053	GCTCAGGCCACCAAAACCATCTA	24037	TGCAGAGTATTTGGAGGGCAAAA	35021
1396	CCTCCTCATGTGGCCATATTAC	13054	GGATAAAAGCGAGCATCTGGAAA	24038	TCTTTTCCCTCCTCCATGT	35022
1397	CCTAACGCTAGACCATATGGGAAGT	13055	TCAGGTGGGTACGGCAGTT	24039	CCAGGAATCCTAACCGCTAGACCAT	35023
1398	ACCGCCACCAACCACTGT	13056	GACCGTGGGTTCAAGGAAGCAT	24040	CGCTGAAGGCTAGAGAACA	35024
1399	GTTCAATAGCTGCAGTGGGGTTAC	13057	GCTGCTGTAGCCCAATATACTCA	24041	CAGGTGCCTTGGGTGTGAGTTT	35025
1400	CCCAGATTCCCCTCTGTCA	13058	CGGGGTAGAGACAACCGTGAA	24042	TGACACGGACTCCCAGATT	35026
1401	GACCTGAAGATGGTAGATGCTCTTG	13059	TTCTCTGCCACCTGCTAT	24043	GAGAGGATCATACATTACAGACCTGAAG	35027
1402	TGGGTCCTGTCTTCTCCACCTT	13060	TGGGTACGACTATTTCCGGTTGA	24044	CCGAGTAGGGGCACTTCTATTCCAT	35028
1403	TGTGGTGGAAACGGGTACAGGAT	13061	CCCCATCAGGGTCAGGTCTCTT	24045	AGTGATAAGGACCTGTGGTGAA	35029
1404	AGAAACACTTACCCACCAATCAA	13062	GGGCAAAAGATCTGCCTCAGT	24046	GGCTGAACCCCAATATGAAACACTTAC	35030
1405	CAAACACAGCATGAAGCATTTACAGA	13063	TGGGAGGCAGAGGGACCAA	24047	TGCCCCAAACAGCATGAA	35031
1406	CCACCTAGGACATGAAGGAGTCA	13064	CCACAAACACGACCCCTGTTT	24048	CGTGTGCTTTCCACCTAGGACAT	35032
1407	GCGGCTAGAATAAGTGCGAACA	13065	TCAGGAGCACTGGGGTGAAA	24049	CGTGCCGCGGTAGAATAA	35033
1408	ATGGATCGCGTTTGAGAACAAATC	13066	CTGCTGCAAGGGCATGGAAGT	24050	GGAGAAGCTCATGGATCGCGTTG	35034
1409	GGGTAGAAAGCAGTTTGTAGGGTTA	13067	ACTCTCCCAGGAAGGAAGTCA	24051	GCACCGTAAGGGTAGAAAGCAGTT	35035
1410	GCGAGCAAACTTTGACTTTTCTT	13068	CCTGCTCCCTGTCTTATAGA	24052	TGCGTGCAGCAAAACCTT	35036
1411	AGCCATCATGTCCACATTTCCAT	13069	TGCTCTTCCCTCACTCAATTT	24053	GGCTGTGCTACTACGCCATCA	35037
1412	GTTCTGTAGAGGGTGTGCTTCA	13070	GTGAGGCCAGTGCTGTGGAT	24054	TCTTGACCATGGAAGTTCTGTCA	35038
1413	GGAAGGCTTAGTCAACAGACGACATT	13071	GCCGCTGCAAAACCAAGCATTC	24055	GCCAGCAAGAAAGGGAAGGCTTAG	35039
1414	GCTGAAAGGGCCAGGTTGT	13072	GCAGTTGGAGCCTTAGCAGTCA	24056	CTCTGGGCAGTGTGCTGAAAG	35040
1415	CATGACCGGCTTCTGTAGTT	13073	GCAAGAGGGAATGGCTTAAGATG	24057	CAGCAGAACTTACAAGCTTCCATGA	35041
1416	CAGACCTGTATCACCAGTTT	13074	CCAGTTCAAGTTGGGGCTTGT	24058	TCAGCCCCAGACCTGCTAT	35042
1417	TGAGAGTCAGCAAGTGCCCTAG	13075	CCTCTTACACCTGGTGGCAAT	24059	GGGAGGCCAGCCTGAAGTA	35043
1418	GCAGATGCCTGTCAAGCTGTACT	13076	TGATGGAGCGCCTCCGTATG	24060	GGAAACAACACTGACCTTGCAGATG	35044
1419	CGATGGGTGTGGTTCAAGGTCAA	13077	AGCGAACTTCGGCAAACTTTC	24061	TGGGTGATGGGTGTGGTT	35045
1420	GGCTCCACCACTGAGTTTT	13078	TGCCTTTCCAATTGAGGTGAAA	24062	CAGACTTCCATAGTGCCTTTCTCT	35046
1421	CACCTGTAAACATCATTTTCGATCA	13079	CACACACGCTCTGTCTT	24063	CCCCGAAATTCACCTGTAACAT	35047
1422	TTCTGACCTCGCGATCCTT	13080	GGCCAGGGGAAGTACAGGTAGA	24064	GGCTGACTCTGAAGAGCCTT	35048
1423	CCTTCATTGAGCACTGTCCTGTA	13081	GCTGCCAATGTCTGAAAGCCATA	24065	CCACACAGGCACTGTGCTTCA	35049
1424	CCCCACCTCAGTCAGGGAAGATA	13082	CCTGCTAGAAGCCGTGGCTAA	24066	GGAGAAATAGGCCACCTCAGTCA	35050
1425	GGAGTCAAGCAAAGGCAATAGTGA	13083	GTAGTTTTCTGTGGAGGGCTAA	24067	TGGGTTTTAAAGCAATGGAGTCAAG	35051
1426	GGGCTGTGGAACCAACAAATG	13084	GAGCACACCCCTACCAAGGAA	24068	GGGTCAAATGGGCTGTGGAA	35052
1427	ACGAGAGAGGTGAAGTCACAGA	13085	TCCCTGAAGAGGGCCAAGGAT	24069	GCCTTACCATTGCTCCCAAA	35053

1428	AGCCCTGAAGGTCGTCCATA	13086	GGAAATAAATGGCCTGTTAGGCTGAA	24070	GACCATCTCCAAAGCCCTGAA	35054
1429	CCTTGAAGCTGAGCTGAAGCAGTT	13087	GCTCCGTTTTCACAGAACCTT	24071	AGGCAGCAGGGTCACCTTGAA	35055
1430	TCAGGCTTAGATCCCTGGAGTAG	13088	GGCAGCAACGTGAGGAAAA	24072	GGCTTTGTCAAGCAATCAGGCTTAGA	35056
1431	GCTGCTTATAGCACAGGCACCAA	13089	TGCCAGTACAGTGCAATTGGAAA	24073	CCTCCACAAAATCTGCTGCTTA	35057
1432	TGTTGGGACCCACCTCTGCAA	13090	GACGTGAAGTTGCCATAGCTACA	24074	GGCCTCACAGTCATGGTGTGT	35058
1433	GCTGATCTGTGCGGAGGTT	13091	GGCGAAGAAGGAATGGAGTGTA	24075	TGCTCCCATATTGGGCTGATCT	35059
1434	CACATGGCCTTGATGGTATTCT	13092	CCAGCTCACAGACTCCTGTAAC	24076	TCTGGCCCTTGGTGACAT	35060
1435	GGTGTTTGAGCCACTCAGTCAAG	13093	CAAGGTAGGATCTTCCCTCTTGTG	24077	GCCAGCCCCAGGTGTTTGA	35061
1436	CAGGTTTCCAGGCATGTGTCA	13094	TCTTGCTTCCCCACCTCAGT	24078	GCCCTTATCTTCCAGTAACAGGTTT	35062
1437	CAGCAGCCCAAACCTCGCTT	13095	CGGAGCAGTGGCAATGGAAATC	24079	TTCCTCGCCTCCTACTGTGAGA	35063
1438	GCAGAACTCAGGCCCTCTGTAT	13096	CCTCCTTGGGGAACCACAACT	24080	ATTTACCAAAGGGGAGAACTCA	35064
1439	GCTGCCTGAATGGATTGAAGTTG	13097	GGGGCTGACAACATGACTGCTT	24081	GCCACAATTGCTGCTGAATGGAT	35065
1440	GTGTGGAAAAATGGCAAGACAGTTCT	13098	CTATGGACCTGTCCAACCAT	24082	TGAATGATGCCTATCAAGTGTGTG	35066
1441	CCTCACCTTTCAGGCTCAAGT	13099	GCAGGACTAAAGCCACAGGTAA	24083	GCTGGCCTTCTCCACCTTTCA	35067
1442	TTTACCCAGGCTGTGGACAAG	13100	CAGATAAGTGTGCTCAGCTCTCA	24084	AGGCCAGGATTCAGGGCTTTAC	35068
1443	GAGGGTAGGGACTGTGTTGATCT	13101	GTGCCAGCCAGTGTGCTAAATC	24085	GCCCACTGGAACCTCTCTTGA	35069
1444	GCTGGGACACTAAGTCATGAAGCTA	13102	CCTAAGCAACAGGCAGCTCTT	24086	CGGTGATGCTGGGACACTAA	35070
1445	GACTGATGTCCACATATCCCTCTGA	13103	AGGCTGTGCTGCCCTCCACAT	24087	GCCTCTGATGCATGTTGACTGA	35071
1446	CTGTCCAGGGATTGTGTTCTTG	13104	AGGAGGGAAGAGGATTATGCTTCTA	24088	GCCACTGAGGTTTACTGAGTCATTG	35072
1447	CTGCCAAGCAACAATGGCTATG	13105	GTGGAGGTATTTTCAAGCTCAACTTC	24089	AGTGGGTCTGCCAAGCAACA	35073
1448	GCGAGGGAAATTCAGCCAGAT	13106	CCAGACATCTAAGCGATTTTGGAAAT	24090	GGCATTGTCTGATAGCGAGGGAAA	35074
1449	GTCTGGGCTCGAAACACACT	13107	GTGTGGTCTGGAAGGAGTGAT	24091	ACCGGGTGAGGCTCCTACTT	35075
1450	GGAACAGACTATGTGGGCATCA	13108	TGTTGACTCCAGGTGCAAAATCT	24092	GTTACTGTCTATAGCTGGAACAGACT	35076
1451	ACCTCCCGTCTCTCTACCTT	13109	ACCCGTGTGGCTGGAGAAAC	24093	GCACAACTCCTGCTATTATCTAAC	35077
1452	CTGAAACATCTGCACTGTCTAGGAA	13110	TCTTGCTTATGCACTCAAATA	24094	GTCTTCAAAGCTTCTGAAACATCT	35078
1453	CCTGTCTTCAGCAAGAAGCAGATG	13111	CAGCAGCATCCAATCCAACCATCA	24095	CCATCCCTGTATTCTGTCTTC	35079
1454	TGCTTGCTCCCTATGGAATGT	13112	GAATTGGCTCACTAGGCTAGAATGT	24096	CCTGAGCCATTCTCTTGCTT	35080
1455	ATGGGAAGGGAGGCTGCAGTT	13113	GTCCCTGCTCAGCAGATGTT	24097	GGATATCTGTGTACGCTCTGTGTCA	35081
1456	TCCCCTCTCTGTGATGGAAGA	13114	TGCCAAAAGTTATGGGGTGCTA	24098	CTTACCCTCTTCCCCTCTTCTGT	35082
1457	CCCAGGCTTCTCACCCCTTTTG	13115	CCACCATCCAGTGCCTGTTGA	24099	GGCTGGGAGTCTGCAACTACAT	35083
1458	CCTAAACAAAGGCGAGCATGATGA	13116	GGCCATGCTGGATGATAGCAA	24100	GCCAGAAGTGAGAGTAGACTTCTAAA	35084
1459	AGTGAGCGGGATTTCAGAACTCA	13117	TGCTGCTTACAGTTGTTCAGATT	24101	GGGGTAGAAGAAGTGAGCGGGATT	35085
1460	GGAGGGAAGTGTTGTGGTTGAAGA	13118	GCTGTGTACGTGGAGCTTTGACTA	24102	GTGAAAGTGAGGGAAGTGTTGT	35086
1461	GGTGTGAATCTCCAGCTCATC	13119	TCCGGGATGGAACAATGCTACT	24103	GTGTGAGACTTGGTTGGTGTGAAC	35087
1462	TCATCTGCAGTTTGCCCTTGA	13120	CGTCCCTCACACTTCACAGCAT	24104	GGTCAGTGCTGTCTATTGAGATCA	35088
1463	CCCTGGACCTGTAAGTGCCTTTTC	13121	CCCTGTGCCCTCTAAGCCTACAA	24105	ACCCATGCCCTGGACCTGTAA	35089
1464	GCGAGATCTCTGTAGAAGAGGACAA	13122	CTGCCACTGTAACGCAATTTTC	24106	TCAGCAGCGGAGTACTCTGTAGA	35090
1465	GGCCACTTTCATGGAGTTAGTCA	13123	CGAGAAACCTTTGCAAGTGAGTGA	24107	ACCTAAATTGCGGCCACTTTCCAT	35091
1466	GGCCTGGAATCTAAAATCGCAATCAGA	13124	CCACCTCCACAGCCTCATCT	24108	TGTAGTTTGAGGGCTCGGAATC	35092
1467	TACCTCCGACCTTCCCACAGT	13125	CCCATGGCCAGCATTACCTCTT	24109	AGTTGGGGCACCACCACCTA	35093
1468	TGCCAGACCCGCTGAGTACA	13126	CAGCCAGATTCATGCGCTGTT	24110	GGTGAACACAGTCACAGTTTG	35094
1469	CTCTACCTCAAGGCCCTTCTTC	13127	CAGTGGTCAAAGCTGGGGAAAC	24111	GTTACCAATTAGCTTCCATCTCTCA	35095
1470	CCTCTGATGGGCCAGATGGATTTTAA	13128	TGGCCCTCCTGCTCCTGGAT	24112	GTAAGTGTACAGGCTGAGTTCAAGT	35096
1471	GTTCAAATAGTAGTGCTGGTGTAC	13129	GTTGCCCTGGGACTCAAGATAG	24113	GAAACGAGAATACCTGGGTCAA	35097
1472	GCTCCTTCCCCACAAGAGAGAGAA	13130	GTGCAGGAACCCCTCTATATGTGAA	24114	TCTTACAGCTCCTTCCCCACAA	35098
1473	GCTTTTCCGACTCCAACATCACT	13131	TCCAGAGGGTTGACAGGTCAGT	24115	GATGGTTGGAACTGGTCTTTT	35099
1474	GAAGAGGTGACCACTGAGCAA	13132	GCTGCATGTTTACTCACTTCTCTT	24116	AGCTTCAGGAAGGCCTCAC	35100
1475	CTTTTCTTTAGAGCCTCTTCCCAAT	13133	AATTTCTGTTGAGCCTCAGGTTT	24117	CTTGGCAATTTTCCAGCCTTTTCT	35101
1476	GCTTGTTGAGCTTGATGTGT	13134	CAAGTGCTCGCTCTGCATTG	24118	CCTCGGTCTATCAGTTAGGCTTGTC	35102
1477	AGGCCTGGCCCTTTATTGTTG	13135	TCCAACACAGCGTGTCTCTCA	24119	GGGAGAAGGGGACACAATGAAG	35103
1478	CTGACTGATAGCAGTTTGCCTCTCT	13136	GGGGTGGGGCATGAGAGATT	24120	GCTCATGGCTGAATCTGACTGTAG	35104
1479	ACGCAGCTCAGCCCTGATGA	13137	ACAGGGGTAAAGGGAGGCTAA	24121	CTCAAACACAGCCAGTGTAG	35105
1480	CAAAGGGCATGTGTAATCTGTAGGTA	13138	GCCCCAAACACAGTGTGACAAGTA	24122	AGGAGGCTGAGTTAGCTCCAA	35106
1481	TGAGCTGGTGTAGGATTGACTCT	13139	TGTTTGCTCAGGACTCTTG	24123	TCCCCACGTGAGCTGGTGTA	35107
1482	CCAACATGCAAGGCCATATGTGA	13140	TGCTCAATGTCTATGCCAGAACT	24124	ACTTCAGTGTATGCCAATCCAACA	35108
1483	CAGTGGTGCACTTGGGAGTGA	13141	GTCCCTGGGGACATAGGTGACA	24125	TGGGGAGGCTTCTGATGCTTGA	35109
1484	GCCAAGATCCACCATCTCAACA	13142	CTGGAGAGAGAGGCCCTTGGA	24126	GGGCTTGGCAGCCAAGAT	35110
1485	CCCTAGTTCAGCTTCTTATTCATC	13143	CACCTGAGATCATGGCACTT	24127	CAGTTTAAAGTTACCTAGTTCCAGCTT	35111
1486	CCTAGAAATGGGTGGTACAGCAA	13144	AGGTGAGAGGAGCCATCTTTTGT	24128	GGCTGAGCTTTTACAAGTTTACA	35112
1487	ACAGAGTGGTGGGAGGGTATCA	13145	CTTGACTGACAGCAATTCCTATG	24129	AGAAGAGTCAGGATCTTAAGGACAGA	35113
1488	GGCCTGGATTCTTGCCAGTGATT	13146	GTTGTCATGCCTCACATCAT	24130	GGTGATCAGAGAGGCTGGATTTC	35114
1489	CGCTTCTTAATGCCACTTTACT	13147	TGGAGAGGAGTTGCAAGGGTAA	24131	ACAGACACCCACGCTTCTCT	35115
1490	TGCTGGAGCTGGTGACATC	13148	CTGCTTCTCATCTAAGCGGGAAA	24132	AGCCTCAGACTGGTGATCTCT	35116
1491	GCAGTGCTACCTATCGTCTCCAA	13149	ACAAGGACGCTTCGCGGAAA	24133	TCTGGGAAGTCTGAGTGCTA	35117
1492	AGCTGGTGAGTTGGTCTGTTTG	13150	GCAGGAATGTGATGGAGTTACTCT	24134	GCTGGAAAAGCTGGTGAGTTG	35118

1493	GTCCAGAGCAACTGAGGGTTTC	13151	CAGCCTGATAACATTGGGGTGTAG	24135	GGCTGGAAGAAGTCCAGAGCAACT	35119
1494	GTACCCACATGGATGGGTTTCA	13152	GCTTGGGACCCAGGTGAGA	24136	GCCCAGTCAGCTCAGATTGT	35120
1495	CAGGGACAAGGCTGGCAAAGA	13153	CGGCAATTTAGGACCCAAAACA	24137	ACTGAGTTAAAGGCGAGGACAAG	35121
1496	GTGACGGACCATGAGCCAAA	13154	GCGTGAGATGTCTGGATGTGACCTA	24138	GCCCTGGCATCATCTTGATTGCA	35122
1497	CCCTCGATGGAGGTGGTCAGA	13155	GTGGGTTCTATAGGACTAAGCCAGATG	24139	CCCAATTTGAATGAAAGCCCTCGAT	35123
1498	CACCCAGATGGATGAGTCTCTA	13156	ACTAAAGACCTTGTGAAGGAGGTAATG	24140	CCAGAGAGGTTGCACCCAGAT	35124
1499	GAACACACTCCGTGGCAGAT	13157	TGCCTTCTGTGGCTGTAGTGA	24141	TCCTTCTCTCTCTCGTGAACA	35125
1500	CAGGCTGCCAATTAGGGAGGTA	13158	ACCCGTGGCTTCACATTTG	24142	TCCAAGGACAGGCTGCCAAT	35126
1501	CCCTAAATATCAGCCACTTTGGGCTTA	13159	TTATCACCGCCCCGCAAAAG	24143	ACTAAAGCTATAACCCCTGTACCCTAA	35127
1502	TCTGCCGGGTGAGCACTT	13160	ACCGCAAGCAGTCTACAAC	24144	AGCCTTCGACTCCTCACCTT	35128
1503	GGGAACTTCTCCCTCTGAATGTCT	13161	AGTGGCTAGCTTCTTGTGA	24145	GCCAGAGAGAACGTGGGAACTT	35129
1504	GAGAGGAAATGACTCCACAAGAT	13162	AACCCGGCCCTGCTTTGA	24146	GTGAAGCTCTACCCGAGAGGAA	35130
1505	TGACAGTGCCTTATGAAGCAAAGAT	13163	CTAAGGTGCACGGGATTAGGTT	24147	AGCAATGATGACAGTGCCTTATGA	35131
1506	CTTTGCTCGGTCAGTGAGGAT	13164	GGCAACAGCTACTATTTTCCCTCAAC	24148	GCACAGTGATGATACGCAATGTCAATCTTTG	35132
1507	AAAGTCCGCGCCAGTGATG	13165	CTGGAGGCACTTTCCAACA	24149	GGCCAGGTGAGCCTCAGAAAA	35133
1508	CGGGTCTCTGTGCTTAACGCAATTC	13166	CGTGCTTCTCTCTCTTCTTCT	24150	TCCTCGGGTCTCTGTGCTTA	35134
1509	CTTCGCGCGTTCCAAACTA	13167	CAGCAGTGCCTGGGAAAC	24151	CAGCCGATGCCAGGAATAACAAC	35135
1510	CTGAGCAAATATCAGTGAGCACCTA	13168	CACCTGGGTCCAGCTCTCAAG	24152	GGGAGGAGGCATTGGAGGTTTTCT	35136
1511	TGACATTTTCCACCAGGTGTT	13169	CCTCTGGCCTGGAAGACACT	24153	CCTCTGGCTGGCTGAAAACTCAAC	35137
1512	CCAGCAGATCCTGAAGGAGAGGAA	13170	CCCTCCAGCCTTCGCCTTT	24154	TGCCAGTGTTCCAGCAGAT	35138
1513	GCTCCTGAAGAGGCTGTGAGAT	13171	CCTCCCAGCCAGAGAATCACAT	24155	AGGGCTCGCTCTGAAGA	35139
1514	CCCATCTTGTGGCCCATAGT	13172	TGTGCATGCCATCTCTGTT	24156	CTAGGGTGTTTTTCTCCCATCTT	35140
1515	GCAAAGTCACGGTCAAGCTCAT	13173	AAACGATGGACGGCGCATT	24157	CCCAGCCACTGCAAAGTCA	35141
1516	TCCTCCAGTCCCAGAGCTA	13174	TCCCAGGGTGTGTCTT	24158	CGCAGACACACAGGGTTTGA	35142
1517	CCTGGGCTAGAGGCCAAATG	13175	CCTAGGCTCTCTTTCTCAAAGTT	24159	TACCTAGGACCTGGGGTAGA	35143
1518	GTGGACAGATTCTCACTGTTCT	13176	TCTTGTGTGAAGCCCTCCTT	24160	GAGAATTCACTTGCCGGGACTT	35144
1519	AGGGGAGGCAAGCAGAGGAAA	13177	TGGGGAGCTGAGGAGGCATTT	24161	GGCAGGATAACGGCACTCCAATC	35145
1520	TGCCATAGTTCTCGGCTTACTTTC	13178	TGAGGCCACTCTCCAAAGA	24162	CCTCCAGCAGGTATTGCCATAGTTC	35146
1521	CACAGACTCGTCTTGATAGGTGAT	13179	CCAGTCCACAGAACTGA	24163	CCCTCACCTACTACCCACAGACT	35147
1522	CGGTATCGCTGAAGGCTCTTGT	13180	ACTCTGTGCGTCTGTCAAC	24164	GACACACACGGTATTCGTGAA	35148
1523	CCTTAGTGCTGGTGCTCGTTTG	13181	GCAGATCTCTCCACCTAGAGTT	24165	CCACCCACTGGATTCTCCCTTAGT	35149
1524	GCAGGTTCTCGGGATGAGAAAG	13182	CTCATTTGCCCTGTGTCTGATTCT	24166	TCAAGGCCTAGGAGCAGGTT	35150
1525	GGGCTGACTCACAAAACCATCTA	13183	GCCCAGGTCAGGTAAGTAGAGAT	24167	TCTCACAGGGCTGACTCACA	35151
1526	CCACCTACTGTCCCCTCTAGTTT	13184	ACACCCAATTCTTGTCTCTCAA	24168	GAGACCTGCCACCTACTGT	35152
1527	TGATTGTGAGCCAAGAACTGGAT	13185	GAAGAAATGCTGTGCCATTGAACCT	24169	ACACTAACACCGTTACTGATTGTGA	35153
1528	GGCAGCTGTAAACTGCCTCTCTAA	13186	CGGTACCAGCTGGAATCAAT	24170	GTGATGGTCAGGCAGCTGTT	35154
1529	TCCCAGGCCGTGAAGGTAAG	13187	GTGAGGACCCCACTCGTTTATG	24171	CCTTGGGGCTGCCAGGAAT	35155
1530	GTGGTGGGGATGAATTGAGAAAACAT	13188	AGCCAGCTGCTAAGTTGCTAA	24172	GACTGAAGTATAGTGGTGGGGATGA	35156
1531	GCTGAGTCCAGGATCTTTGAGCAAT	13189	GATCTGGGCCTGATGAAGAAGCTA	24173	CCAGGGCTGAGTCCAGGAT	35157
1532	ACTCACCTGCCCTCTGTCTGT	13190	GCCAGTGTGGCTAGAGAGCAAT	24174	GCCACGATACCTCCAATTTGTTCTGACT	35158
1533	TGAGCTGCAGCCACCATGT	13191	CCTTGGCATTGACGACCTTCT	24175	TGGGGCAGAGGCCACGATGT	35159
1534	TGGATGAGAAAGTGAGCTTCATAG	13192	TTGTGTGACCTCAAGCTAATCACT	24176	CTGCTGTGTCAAGTTTATGGATGA	35160
1535	CTGGGTTTGCAATTCGCGCTTA	13193	TGCCTTGGTCCGTAACAATTACA	24177	TCTCTTCTCTGGGTTTGCAAT	35161
1536	GTGCAGACTCTAATACAAGTGAGGTTCT	13194	TGGATGGACAGAGGGTGTGT	24178	CTGGGTTCTTAGTGCAGACTCTAATACAA	35162
1537	TGTGCTGCTTTACACTCTGCTT	13195	TGTGCGGTGCCACACCAT	24179	ACCTGGCACTGTGCTGCTTT	35163
1538	TTCAGAGAGGTCGCTTTGTTTTG	13196	ATGTTGCTCCGCTAGCAGCTGT	24180	GCTGGAGGAAATGTGAGTTCAAG	35164
1539	CCCACCAACACACCTTTCACA	13197	GAGTAAGTGGGCTCATCAAACCTATGCTT	24181	CCTGGAGCTAATTTACCCAGTTC	35165
1540	GGCGGCAGAATTCATGTTG	13198	GGTATGAATCCCACCGTTGAACACA	24182	ATCCAGCAAGGCGGCAGAAAT	35166
1541	GGAGATCCAGCATGTGGTGACA	13199	CTAGTTCCTCAGCCAGTTG	24183	TGGTAACAAGATCCATGGGGAGAT	35167
1542	CAGTGTATTTGACGACAGGTGGTT	13200	GGAGTTTAGAGCCCTGCCAAA	24184	GTGTATTTGACGACAGGTCACTGT	35168
1543	GACAGTTCTCAGCATGGGGATTG	13201	TGGAGCTACAGCGTCCATCT	24185	GGGAGAAGGATCTGGGATTCTTGACA	35169
1544	CGGTGCGACTAAAGGGTAGTTTG	13202	CCTGGCTTCTTGATCTCTGATCT	24186	AGAAAACCAACGGTGCGACTA	35170
1545	CAGTGGGCCTAGAACTTCCACTT	13203	AGCAGCACATGGCTTTTCTATCT	24187	CCACCTTTTTCAGTGGGCTAGA	35171
1546	ACTCCACAGACAGGAGGACAT	13204	ACGCTGAGCACACAGTTTCATC	24188	TTTCTTCAATGAACCTCCACAGA	35172
1547	TCTCCCTCACACACTGTGACAT	13205	GCCAGCGTGCTACTGATGTT	24189	CCCAAGGACTCTATCTCCCTCACA	35173
1548	GGAGGGTACAGGCATGCCAAA	13206	GGGGTGTGGTGTGTGAGGAA	24190	TGATTGTGGGAGGAGGATACA	35174
1549	ACAGGGAGCCCACTGTCAATTTG	13207	GTGTCAGTACCAGACTCCTTTTTC	24191	CAAACCTGGTCTTGCGCTACA	35175
1550	GGCAGATGCTTCAGACAAAAGAAAA	13208	GCTGTACCCTGCAAGTCAGT	24192	CTCCATTGCTGGCAGATGCTT	35176
1551	GCTAAACCTGGAATATAACGTCTGTCT	13209	GGAAAGGGTGCTAGCTTTGACA	24193	CCCAGGTCTCAAACCTGTTCAGTTG	35177
1552	ACTTTTGTATCTGGGTCCCAAT	13210	CATCCAGCTTCACTGACTCAGAATCTT	24194	CTAAACCTGGACACAGGATAAACTTTTG	35178
1553	GGTCTTTGTTTCGCCACTGTCT	13211	GCAATTGTGCTTGAACCTTATGTTGGAT	24195	TGTGAGCACTTTGAGGACAAAATC	35179
1554	CGGCTTTCATGCTGAAGTCAGTT	13212	TGAGGAAGTGGGCGTCTCTTG	24196	GGCTGATTGTAAACGGCTTCCAT	35180
1555	GCATCAACGGAACCAATGCATTTT	13213	ACAATGGGGCTAGATGCACAA	24197	AGCTCCTTCCAGAGCATCAAC	35181
1556	CCCCTGTTGGGCATAAAGCAA	13214	AGACTTCCAGTGACAACCATAGA	24198	TAGGTGGGGATGTCCCTCTGTTG	35182
1557	AGTGGCAGGCTGCTCTCATA	13215	CCTGGAACCTGGGTTTCTTTGAAC	24199	GTCTAAGGCAATGGCTTCACTTC	35183

1558	GTGGTGCTTTAGGGAAATCCAATC	13216	AGCCTAGTAGCCACTGAAACTAGA	24200	GACAATTCTCAGGAGTGGTGCTTT	35184
1559	GTGCCTCCTATAATGATAATGGCTCACT	13217	TCTGGCACAATGTGAGTGCTT	24201	CGACACGGTGCTCCTATAATG	35185
1560	CAGGAGTGTGTGATCCAAGGCTAT	13218	CAGATCTTCTCCTGCCCCAACA	24202	GTGATTAATCCAGGAGTGTGTGT	35186
1561	GGCAAGGTCTACCCAGGATCAA	13219	GGGCTGGGGTGGAGAGAAG	24203	TTGGTGTCTGGGCAAGGTCTAC	35187
1562	TGCCTGAGAGGATCTGGTGACA	13220	CCTTGACGCTAGCATCTATGT	24204	AGGCTCACTGCCTGAGAGGAT	35188
1563	GCAGACAAAAGTAGCAACTGGAAA	13221	CCCCAACCCCTAGAGCCTTTT	24205	GGCAACAAAGTTTAGGCAGACAA	35189
1564	GGTTCAGGGACACAGGCTTT	13222	GCAGGTGGGGTAAGTCTCTGA	24206	GTCTTCCCTTCCCAAGTT	35190
1565	GCAAGCTCAAACCCAGAAGT	13223	TTGCCCTCTCGTGAGT	24207	GCCAACTAAAGCAAGCTCAAAC	35191
1566	GGTGCCAGGTCTCATGAATGT	13224	TTCTCTGAGGCTGACTGGAA	24208	TGCAAGGGCTGTCTCCCAT	35192
1567	GGAAATCAGCCACCTCAGCAA	13225	CCCCTCTGCTGGGAATACA	24209	GAGACCAGATGCTGGGAATCA	35193
1568	GGTACTGTAGGTGTTTTATGAGTCAA	13226	GCCAAGGATTGGGTCTGTGTGA	24210	GGGAGGTGGTACTGTAGGTGGTT	35194
1569	CCAGCATGGTGGGTTTCTGTTG	13227	AGCAGCCCTCAACCTGGAAGA	24211	CAAAGATCAGGGTGCCAGCAT	35195
1570	ACTCCAGGATGCACAATTTGTCT	13228	CTCTTTTCTCTTGGGCTGATCAGTTT	24212	GTCTTCCCAGAACTCCAGGAT	35196
1571	GCACCTCAGCTTCACTGACAAG	13229	AGAGTCTGACCTCCCTTTCACA	24213	AAATCGGGGCACTCCAGCTT	35197
1572	GAAGGAGATTTTCTCCCATTTGCTA	13230	CCCATGGGGCTTAACCTTGACTGA	24214	GGAGGAGGAAGGGAAGGAGATTTT	35198
1573	GCCAGACTATCGCTGATGTTTCCTT	13231	CACAAGCTGACTGAAGAGTCTCT	24215	CCATGGGAGTACTGCCAGACTAT	35199
1574	TGAACAGCCCCAGAGTCTCA	13232	CCCTGTCATGCGCAAGGTGTTA	24216	AGTCCAGCTGCTGTAAATGAACA	35200
1575	GCTGCTGAAGTGAGTATCTCTGTTG	13233	AGGAACCTGGGCCCTTGAAT	24217	CCAAGGAAAGCTGCTGAAGTGA	35201
1576	GCTGACCATACTTGGGTAGGAA	13234	GCTATGGGGTGGGAAGACAAGT	24218	AGAGCCACGCTGACCCATACT	35202
1577	GCCAATGCAAAGACCTGAAG	13235	GGCCAGGTCTGTAACGAA	24219	CTGAGGGAAGCCAATGCAAAG	35203
1578	CACCTGCGCTTATGCTTACACTT	13236	ACTGACAGGTTTTGCTGATGGAT	24220	GGAGTCATTTTTCACTGCGCTTA	35204
1579	GCCTGTACTGTATGTGACAAGGATAGT	13237	ACGTGGTTGCAAGTACTGA	24221	CCCTTCCACTGCCTGTACTGT	35205
1580	GTGCTGTGCAATTCGCGGTTTG	13238	AGCGCTGGGTGTAGGATGTT	24222	ACTCTGGGTGCTGTGCATT	35206
1581	CCCTGACAGGTTCTCCTTCATTC	13239	CTGCCTCACCAAGCATTCA	24223	CCCCAAGTCACAGTTACTTATCATC	35207
1582	AGTGTGGGAAGGGAAGTGGATA	13240	GCATGTTCCCTGAATGCTTAC	24224	AGAGGAATGGAAGCTGATGATTATG	35208
1583	GGGAGTCTAGGATTGTGGAGTTTCAGT	13241	TGAGGCTGAGGGTGCAACA	24225	TCATCTGTTGGGAGTCTAGGATTGT	35209
1584	AGGCTTTTCTCCCTGGGTTGA	13242	GAGCTACAAAATGGAAGGAGACTGA	24226	CTTGGGCAGTGAATAAGAGGCTTT	35210
1585	TGGTGGCACCCAAGGCATT	13243	ACCAAGGGGAGGACTTGTGTT	24227	TGTGGTTTACGCTCTGACCTAGT	35211
1586	GATGGCTTGGACATGAAGGATGGTA	13244	GCCCACAGTTATCCTTGACTCTCTT	24228	CCCCATTGATGGCTTGGACATGA	35212
1587	CCCAAAATGCAACACACCATGA	13245	GGCTGACCATTAGTTTTACTGTGA	24229	GTGCCTCATCTCACTGACCCAAA	35213
1588	GTGTTGGCCTAAGTTCAGGAGTTT	13246	AGCACGGGCAGCAGCAGAA	24230	GGGTGAGAGTGTGGCCTAAGT	35214
1589	GGGAAGCTGACTTACATCCAT	13247	CTGTGTGCACACTAGGAATAACA	24231	CTGCTGTGAAAGGGAAGCTGACT	35215
1590	TTTGGTCCAGGCTCTCTCTA	13248	CCCTCAGTACATGCCGAGAAA	24232	GTCCAGGATAGTAAGGCAGTTTG	35216
1591	CTCTCAGCCCACTCT	13249	AGCAGGCGGATGTCAAGGAA	24233	ACCCACCGCTCTATCTCACA	35217
1592	CGTGGCAACAATTCCTCTATCTCA	13250	TGGGTCTCTGCGCTCACT	24234	TGGAGGAGCGTGGCAACAAT	35218
1593	GGCAGTGGTACAATCATAGCTCCAT	13251	GGTCACTGTGCCTAGGAGTT	24235	CTGGAGGGCAGTGGTACAATCA	35219
1594	GATCCCTTAGGCTGTGCGAAAG	13252	GTCTAGGGGCGGTAGGATACACT	24236	GGCCTTGTGCAGAACTGAGA	35220
1595	CAGTGTCTTAGTCCAGTTCTGT	13253	GGAACGGGGTGAACCTTCTCT	24237	GTCACTGACTGCTTCTAATCACT	35221
1596	GCGCAGTACCTCGGGCATA	13254	AGCCAGGCAGCAGCATGAA	24238	TCAGTGCCTGGCGCAGTA	35222
1597	CCTGTGGATTCTGGCTGAGGATTTG	13255	GGCATAGCGTGGTGAATGACT	24239	GCCCTTCTAGTCTGTGGATT	35223
1598	GGGCTCCACATTTCCACCTTAG	13256	GAGCAACTCAGACTCATGGAGCAA	24240	CCAAATCAATATGGGCTCCACACA	35224
1599	GTCAAGAAACTGACTGTCACTCCTA	13257	CACCAGCGGGAGCATCATT	24241	CCCTGCTGTCTCAATGAGGTCAA	35225
1600	CTGAATCACCATCACACGAACCAT	13258	CCCGGCAAGCCTCCCTAAT	24242	GGGGAACAGGATATAGACCCATGA	35226
1601	CGCTGTGTATCAGGCATACCAT	13259	GAGTCTGAGCCAAATCCTTCACT	24243	CCTGATCAGAAGCTACGCTGTGT	35227
1602	AGAGGGAAAGACTCTGAAATCTGAAC	13260	ACTGAAAAGGCGGTGCTTATAGA	24244	TCTTACCCAGAGGGAAGACT	35228
1603	CCAGCGTGTTCAAAGGCAAATG	13261	TGTAGGCGGGTGGCTGTGATA	24245	TGGCATACCAAGCTGTTTCA	35229
1604	AGGGCCTAGAGGACGATGCTT	13262	GCACAATCGATAGGCACACCACAT	24246	CCCAGAGGAAGCATGGAAGTGAAG	35230
1605	CCTCTGCCATGTGGTTAGAGAGT	13263	GCGTCTGTGGGACTAACCTCTT	24247	GCCACACCCCTTCTGTCTT	35231
1606	GGATTAGTTACTGTGAGAGTGGGTTGT	13264	ACATGAGGGGAGCTTCACT	24248	GTGTTCTGTCTTTGAAGGACAGGAT	35232
1607	GCAAGACATTTGGTAGCCTTTTCAGA	13265	AGGGTATGCCTGAGCACACA	24249	CCCTGCCAAGCAAGACATTTG	35233
1608	TCCAATGTAAATTTGAGGCAGAAC	13266	GCCCTCAGCTCCCCATATC	24250	GCTCAGAGAAGCATGCCAATGT	35234
1609	GGGGTGAACAAACAACCACTAC	13267	GGCTTCCACACAGGAAATAGTGT	24251	TGGGGTCTGTGGGGTGAAA	35235
1610	GGAACCTCGGGAGGATGTAGGTA	13268	GGGTGAGGTTGTGGGAAGCATAAG	24252	TTATGGCAGTAGATGAAGGAACTT	35236
1611	CGCACAAAGACCTGGCACAGA	13269	GCTCGCAGGCACCCCTTATTGA	24253	AGCCAGCTGCGCACAAAA	35237
1612	CCAGTCTGCTCCTTTGGAATCTTG	13270	CCTGCTCCGGATACACAGAAAC	24254	TCCTCCCACTGCTCTCTTT	35238
1613	TTCCAAGTGAAGGCTGAAGAAAT	13271	GGGATTTCTCTGAAATTTGGCTTGT	24255	GCTAACGGTCCATCAAGACTTCAA	35239
1614	GGCTGGAGAAAGTAGTCCACAGA	13272	GGCAGAAGCCGAGTCAATCTCT	24256	ACACATTTGACTTTGGCTGGAGAA	35240
1615	GTGGACCACTGTCAGAAAGTCA	13273	ACATGCGGCTTCGGGTGTT	24257	TCTGCCTAAGCTGGGGATCA	35241
1616	GCATGGTAGGACAGTGGACGAA	13274	AGACAGCGGCCAGGTTGAAT	24258	AGTGAAGACGCTCCCTGCAT	35242
1617	GGGATGCAGAGGCTGTTTCA	13275	CCAGGAAGCTTCTCAAAGTCAAGA	24259	AACCTGGCAGCTGGTGTAG	35243
1618	CCCATGCCTACCAAGAGCTAGT	13276	TGCTTCTTCCGCACACA	24260	TCGCACTCCAGCTGAAT	35244
1619	AGGGCTCTGACCTTGAAGAATTTG	13277	CCTAAGACATGTCCCCAGGAAAAA	24261	CCTGTGTCAGTGGCCAAAAA	35245
1620	TTCTCATCAAACCTCGGGATGAAT	13278	ACAGCTGGAGACCTGAACA	24262	GGTGATGAAGTTTGTGCTCTTTCT	35246
1621	CCTTCTACCAGGTTGGACAAAGTCT	13279	CCTTCAAAACCCAGACGATCTCA	24263	CCACTTCAAACCTGCACTTTATCCTTCT	35247
1622	CAGGAATCCTCAGATAGGAGGTAGA	13280	GACTAGGACCTCTGCTAGGATTGTA	24264	CCTATGAATGGACTTTGTTCTCTGTT	35248

1623	ACCAGGACGAACCTTCCCATT	13281	TTCCCTCCGGGTCATGGT	24265	TCGGCTGCACCAGGACGAA	35249
1624	CTGACTCTGGGACTTCTTTTGAGT	13282	CTGCACCCAGCCCAATGAT	24266	TCTCTAACTGGACTCTGGGACTTC	35250
1625	ACCAACTTATACGAGCTTCTGGAT	13283	GCTGGGCAATTACGAGGTTTT	24267	GCTGAACTGGAAGATCCAACCACT	35251
1626	AGCTTCAGGTGCGCCCACTA	13284	GTGATTTTAAAGGCCAGCACAAT	24268	AAGAGGCTCCCTAGTCAGCTT	35252
1627	TGTACAGATACTTGGTGGAAGCAAT	13285	GGCAGATAGTGCCAAGAGAGGTT	24269	GCAGCCTCTGCACTCTGGATTT	35253
1628	AGTGATGCAATTGAAGGCACTGA	13286	ATGTTAGTGTGCTGTTCCAGAGA	24270	AGTGTGCCACAGTGATGCAA	35254
1629	AGACGTGTGCCCTGTTTCATC	13287	TCCAGGGCTTCTGGTCATGT	24271	ACCCAGTCTTTAGCTGAGATTG	35255
1630	ACTGGACCAGCACCTTCTCTTC	13288	TGCTGCTGGGCGATGAATAA	24272	GCTGGTGATCCCACTGAA	35256
1631	GAGATTGGCCAGTCCTGTTTG	13289	GTGTCTCGGTGTCAATACATAACAT	24273	TGACTCGAGGAGTGACTAAGAGAT	35257
1632	AGCAGCAGTACCAGCTCTGA	13290	AAGCGCCAGCCGACACTGAT	24274	TCCAGGTCGTAGCAGCAGTA	35258
1633	TGGTGCTGTTTCAGGACTAGGAT	13291	GGGGAGGAAAGAGTGAGCTGTAATAA	24275	GGCCTCTGTGTTTGGTGCTGT	35259
1634	TGCAGGCACGTGACGAAT	13292	CCTGCCATACAGCACTGACAGA	24276	CGTCATCAGCCAGAAGGAATGTCA	35260
1635	CCTGGGAAGGATCGGCATTATTTG	13293	TGCAGAGCCAGGACAAAG	24277	ACCTCTGCCTCTTGCTTTTC	35261
1636	GCTTTCAGCAGCGTCCAGAT	13294	CCCTCCAGCACTTGGAGGAA	24278	CCCTTTTGTTTCTGCTGCTTTC	35262
1637	AGGTCTGTCTTTAGTAGCAATGT	13295	AGGAGACAGTGGCCCTATTCA	24279	TGGCTTCTTAGTCTGTGCTT	35263
1638	GCTTCGCACTGAATCCTGACT	13296	CCTTCTCAAGGCCACTGAGCTA	24280	GACATGGTGGGAGAGCACAA	35264
1639	GGGACAGGCTTCTGTGAACT	13297	TCCCACATCTGGGGACAGCAT	24281	AGGCAGGTGTGCACTGTATG	35265
1640	GTCAATCCAAGCTCAAATCCAAGAGA	13298	CCCAAGCTCCTCTCTCTGAAA	24282	CCAGGCCTTCTCACTCTGTCA	35266
1641	CCCACCTCCCGTGTCTCA	13299	CCTCTGCTCTCTCCAGCTTCA	24283	GGCTCTCCAACCCCACTTC	35267
1642	CTCAGCTCTGTAGGGAGTGA	13300	GGGAGAAGGGGTGGATCAAGAA	24284	CCACCGAGCTGCTGTGCTA	35268
1643	CCTCTCTGTGGGGCTAGAATGCTT	13301	GTCTTTCAGCTCAGCCACAATG	24285	TCCACGTGACCTCTCTGTGT	35269
1644	GCACCTGGTGTTTACAGTTTGACAAT	13302	TGGAGGCGTACCCAAGTGT	24286	GGCCAGCACCTGGTGTTTTACA	35270
1645	GCACAGTGGGTGAGAGAGAAGCAT	13303	GGCTGCTACCAAGTCTGTCT	24287	TGGAGCACAGTGGGTGAGA	35271
1646	GTGTGCCATTGCCCTTTACTGA	13304	GTGACTTGTAGGCATTGGTGCTAA	24288	GGTCATTCCCTTTGTGCCAAGT	35272
1647	TGGTGGTGCCACTCTTGAA	13305	CCTTTGTATACCAAGTCTCTGTGAT	24289	GCTGTCATCCTTATTGGGTGAATG	35273
1648	CTGCATAGCTTTGCTTCACTTCTTC	13306	ACTCAGCCTCACAGGTGTTG	24290	CTGACCCGAGACTGCATAGCTT	35274
1649	GTGAGAGCTGCTAGAGGCTGAT	13307	CCAGCAGATCTGCCATCCTT	24291	ACTGCAGTGGTCTGGTGAGA	35275
1650	ATCTTAGGCCTAGGGAGCAAGT	13308	AGGAGCTAAAACAATCTTTACAGATG	24292	TGTGCAGTGATAGAATGGCATCTTAG	35276
1651	GCTAGAAGGTGATGCTACAGGACGAA	13309	ACTGCAACAAGGGCAAGGAA	24293	AGTACTGTGCTAGAAGGTGATGCTA	35277
1652	CTTTGAAGTCTCTGCACCTCAGTT	13310	GCATGAATCAGCTTGTGTACT	24294	GGGCCCTGACCAAGTCTTTGAA	35278
1653	TGATGCCTGCTCGAGACATTG	13311	AGCCAGCTGCAGTTCAAA	24295	TCTCCCCACCCCATCTTGA	35279
1654	TGTCGGCCGAGCCCATTTT	13312	CAGGCTACAGAAAGCATTTACAACA	24296	TGGAAGGGCCGGTTGTGT	35280
1655	TCCCTGCAAAAGGGTCAAGGTA	13313	GGCAAGTGGGCCTTATCCAGTAG	24297	ATTGGGCTCCCTGCAAAAG	35281
1656	CCCTAATCACAGCAATCTGCTCCTT	13314	CCCCTAAGGGTGAATGCAGAAT	24298	GAGTAGACCCTAATCACAGCAAA	35282
1657	GCTTCGCGGATGTATCTTCTT	13315	CCACTAAACCCACAGAACCAGAGA	24299	CCCAGTTATCTGCTGCGGGATGT	35283
1658	GGTGAGGCTCAGCGTCTATACT	13316	CAGCCAGACCATCTGTGGAACAA	24300	GCAGACTTGCCAAATCCCTCTCA	35284
1659	CTGCCACTTGCTCTGTCTCA	13317	CAGGTGTGCTGGAGATGTTTGAAG	24301	TCTCTAGGCCTCTGCCACTT	35285
1660	GCTTGGCTCAAAATCACCTCTCTA	13318	GAGGATGGGGCAGGTCAAAGAA	24302	CCTTGAGGGCTTGCTCAAA	35286
1661	ACAGGCTTACCAACCACAGA	13319	ATCAGTGGGCTGCTGCTT	24303	TCCCACTGGGGCCCTGTAA	35287
1662	TCAGGTGGACTGCGAGTCTT	13320	CCACCTCCAGGTGTTTGCTTT	24304	ACCCACCTGGCTGTGTTCA	35288
1663	GGTAAGGTATCCATCCTTATGGAGTTT	13321	ATCAGTGTGCGCTCTCCTT	24305	CATGGTGAGTAAAGCTGGTAAGGTA	35289
1664	CCTGCCCTAACCTCCGTTTACA	13322	GAGGCTCAGAAACTCGTGATG	24306	ACCCAGGTGCTCGCCCTAA	35290
1665	TGCCCTCTGGGCTCCCTTT	13323	GCCTCATGTGAGGGGCTTTTC	24307	TCCCTCTCACAGCCACTTG	35291
1666	GCATGCTTATTCAAGCGAGAGATGAT	13324	TCTACTGCTCCACCTTAGTCAA	24308	ACTAAGAGGCTGCATGCTATTCAA	35292
1667	GTAAGCCAGGGAAGAGTGGAAG	13325	GCAGCCACTGATGCGAAGAAC	24309	CACCCAGTGTGACTGAACAATGTAAAG	35293
1668	GACAGAGTTGATGTGGGATTACCTT	13326	CCCTTCAGGTGGTCTGTTTG	24310	GCCCTGTTGTATGCAGGACAGA	35294
1669	CAGGCTCCCTTAAATGTATC	13327	GGCTGGGGTTCAGGCCATA	24311	TGCTTTTCAGGCTCCCTTCA	35295
1670	AGGGCTGTGCTGATGGAACA	13328	AGGCCCGGAAAAAGCACAGT	24312	AAGCCAGGATGCACTGAAG	35296
1671	CTCAACTGTTGCTGAATATGTCTAC	13329	TGAGTGCCCAACGGCAAGAA	24313	TGGGCGGATGTCTCAACTGT	35297
1672	GACAACACAGTTCCTTTCCATTTTCA	13330	TGGGGACTGCCCTATAATGTCT	24314	CTGCAGACAACAGTTCCTTTT	35298
1673	GTGGACCTCTCAGGGCTACATC	13331	GGCTGGAACGAAGTCTGCTA	24315	CCCTACAAGTGTGGACCTCTCA	35299
1674	AGTCGATGGGTGGTGAAGA	13332	ACCACCAATCCTAGGCAACTTAC	24316	GGAGATGGCGTGAAGTCGAT	35300
1675	TCCAGGAAAGTCAATTATGGAGTAG	13333	CACAGGGGAGGTTTCTGGTTA	24317	GCTGTGTCCAGGAAAGTCAATTC	35301
1676	GGGCCAGGTAAGGAGCAGTAG	13334	CCCTCTACCAGCTCTCTCT	24318	GGGAAATGCTGTGCATCCTTCA	35302
1677	CTGTGAATGCAGGTCTTGTG	13335	CACCACAGAGCCCAAGAACA	24319	GGCAGCAGTGCAAGCTTCTGT	35303
1678	CTCAACATTGCATGTCAAACTGAA	13336	GTGGAAATTGCTGCGTGTCT	24320	GTCCACCCCTCAACATTGAT	35304
1679	CTCACAGAGCTATCAAGGTCATTCA	13337	TCATGTTGGCCGTTGGAAT	24321	GGCCCGAAATCAATACTCACAGAGCTA	35305
1680	GGCAGAGGAGTGACATAAGTTGA	13338	GTGCAGGCACAGTAATGCTTTT	24322	CCAGGAACCATGGCAGAGATGTT	35306
1681	ACCTGCGGTTCTGTTTAAACACA	13339	AACGGGTCTGAGCAACAAAC	24323	GGCTTGCTGGTGAAGAACA	35307
1682	CTGAGAGGCCAACATACCTAGA	13340	CCTGAGCAATTCCCACTCTCTT	24324	GTGATTCCTGGAGAGCCACAA	35308
1683	GGCCTGGAGATGGACAGCTT	13341	TTACTCTCCCTCTGTGTAGAA	24325	ACTGCAGAGGGCTGGAGAT	35309
1684	ACCCCGCTTGGTTCTTACCTT	13342	GGTCCCTGGCAGCTACTTCT	24326	CTCTCTGCTGTGGCACTT	35310
1685	CTGGATTTCATCCAGCGTTGA	13343	TAGCAGGAACAGTGGCGTGTCA	24327	GGCTCTGTAGCTCGGATTTCAT	35311
1686	GGCTCACAGCAGCTTCAGTCT	13344	GGCTTAGGTGGGAGGATCACTT	24328	TGGTGCAATCTGGCTACA	35312
1687	CCCGTCCCACCTTTGTTAGAAG	13345	ACGCAGAGACCCACAGCAATAC	24329	GCATTTGGGAATGCCAGTGA	35313

1688	CCCGCATGGCTACAGAGTTAATA	13346	TGCTTCTCCCATTTTCCATTTCTT	24330	ACCTCCCGCATGGCTACA	35314
1689	TGCCTTGTGAACCTTAGGCCATT	13347	GTTCCAGAACTGGTGTGGTT	24331	CTCCGGTGCCTTGTGAACT	35315
1690	GGGCTGGCAGACAGGAAAAACA	13348	TCTGAAGCTCACATGGATTCCTTAG	24332	GTACATCCCAAGTTGTGTTGAGA	35316
1691	CCAGTTCCAGAGTCCCTCGTTTTT	13349	AGTTTTGTACAGAGGTGTGAGTGA	24333	TGCAGCCCAAGTTCAGAGAT	35317
1692	GACTCGGTGCATTCACCTGTTTATC	13350	GCAGCAGGGACTAACGACAA	24334	GGGTAAAACTGTGACTCGGTGCAT	35318
1693	GTGTTTGCAAGTTATAGGGTCTCACAA	13351	TCGCACTGCAACGCGCTAA	24335	GCACTCGTCACCGAACAAAGT	35319
1694	CCATCCCCATCACCTTATTTTGACAAG	13352	CAGGTGGCACATAGGAGCTGAA	24336	ACTCCATCCCATCACCTT	35320
1695	GCGCAAGTCTATACTGGTCTGT	13353	CTGCCTGTTCCCAATCCAGGAA	24337	GGTTAAACAAGCGCAAGTCCTA	35321
1696	CTCCCTGCCAATATGCCAGTTC	13354	GGGTCTGAAACCCAGCTCCATA	24338	GGGCATTAAGTCTCCCTGCCAAT	35322
1697	TGGATGCTCAAGAGTTGGATCTTC	13355	AGCACCTCTACTTGGTCACAGA	24339	GGTGATGTGCTGTGGTGGAT	35323
1698	TGAGCTGAAGTCTTGCTGAGATT	13356	GGTTTCCCAATACCCAGTTCA	24340	GGAACCATGATGAGCTGAAGTTCT	35324
1699	CCCTGAGGCTATCCAGGGAAGAT	13357	CCTCTGACGTGCCATTGTGT	24341	GCCACTGCCCTGAGGCTATC	35325
1700	TGGCTCATAGGCAGCAAAATTATCA	13358	GGCTGCAATTCGGAACCT	24342	GCTAATCTGTGGATACTGGCTCATA	35326
1701	CCAGGTTGGTTAGGCTCTGCTCAA	13359	TAGCAAGGCTGCCCTCAA	24343	TCCCTTCTCCAGTTGGTTAG	35327
1702	CACCAAAGGCATACTCCCATCAGT	13360	GGCTCAGAAGGAACTCATGCAAA	24344	GCAGGGCACCAAGGCATACT	35328
1703	TCTTCCCTGCTGCCACCACAA	13361	GCAAGGAGGAACAAAAGTTCCAT	24345	AGCTGCTTTAGAGGCTGTCTTC	35329
1704	GCAAAGAGGCCCCATGATCCTA	13362	CACCTCTATTTCCCAAGCTCCAGTTT	24346	GAGACTCAGACGTGAGCAAAAG	35330
1705	TCTTCTGCTGGAGATGCGATT	13363	ACCACACCTGGGCAAGATAAG	24347	GGTGCTAGGTGCTGTCTCTCTTC	35331
1706	GATGGCCATTCCTTACTCTCAGTT	13364	GCCGCCATGAACCTACTCA	24348	CCTAGTGTGTGAGGCCATTCCTT	35332
1707	GGTGCTTTATCCAGGGAGATG	13365	CCCCAGTCAGGGGCTTATACA	24349	TCCCTTCCCTAGGTGCTTT	35333
1708	CACAAGGGTGGAGGTACCTTT	13366	TGCCTCTCTAATCTGTCTTCTACT	24350	CCAAGGCTGGCCTCACAG	35334
1709	TGCGATGGCATTCTGCACA	13367	CTGACCTAGGATCTGACTCTCTCTGA	24351	GCAGGTGTGAACGGTTGCAT	35335
1710	TGCATGAGGAGAGGTGTCCAA	13368	GCCACGAGACGTCTTCTCTT	24352	GTGGACCTGAGACTCCACCAT	35336
1711	CTGCACATCAGTTTCTTGCAAT	13369	GTCTCAGGATCTGCAGTTGACAAG	24353	TTTCCAGCCTTGGGCTCAGA	35337
1712	GGTCCCAAGTTACAGCAACCAT	13370	ACCATCACCTATCCACAGT	24354	CGGGAAGGAGGTCCCAAGTTACA	35338
1713	GGGGTATCCACAATGTCTTCT	13371	CGCCAGTATCCTTCAAGGTGGAGTT	24355	TCCAGAGGGGTATCCACAA	35339
1714	ACACCATCCCTGAGTGACA	13372	GGAGCTAGGGAAGTGGAGGAT	24356	AGGACCAGGGCCCAACCAT	35340
1715	GCAGGACTTTGGAGGCTGACTA	13373	GGAGGCAGCTGCGGTAACCT	24357	GACCGTGCTTCTCTGATTTACA	35341
1716	AGCTCAACCTGAGCCCTTCTT	13374	GGCACAGACAGGAACCTACA	24358	TTTCCCTCCTAGTGTAGCTAAC	35342
1717	AGTGCCGCCAGGTGAATACAGA	13375	GGGGCTCTCTGCTGTGAT	24359	ACCACAGGGTGATGCAGAGT	35343
1718	CAGGTCAAGGAACGGCAGGTA	13376	CAAACAGAGCAGGTCCGTGGTA	24360	ACAACCGAGCAGGTCCAGGAA	35344
1719	GGAACAGTATTCTGACTCCAGATCCTA	13377	AGGCAGGACAGAGTAGTGGTTTA	24361	CCCAAGCTTGTAAAGTGGAACAGTA	35345
1720	TCTTTGACCCACCTCACATC	13378	TAGGCCCATGCCACTGCAGAA	24362	ATGCCCGGCCAGTCTTTTAT	35346
1721	GCAATGACCTAGCAAGGTGTATGTCT	13379	GTCTTCTGAGTGGTGCAAGGAA	24363	GCAGCTAGCAATGACCTAGCAA	35347
1722	CAAAGCCCCAAGTCAGAAAAGTT	13380	GTCTAGCTGGCTGCAGACTT	24364	AACTCCAGGGGTGCCTCCAA	35348
1723	GCTTTAGGTAATGAGCCAGACTGA	13381	CCAATCCCTGCCATCTGT	24365	GGAAGACCCGGATGAACAAACAAAG	35349
1724	TTTACAGGACCCCTTTTCTGTCTT	13382	TGCCTTCCAGGACACAGAGTT	24366	CCCTGTCTTCTATTACAGGACCCCTTT	35350
1725	GTCTGGCTCTCGGAAAGAGAA	13383	GGCAACCTTCCCTTCAACCTT	24367	CAGCACCAGGATGTCTCAGATTAC	35351
1726	GCCTGCTAGACAGGAGATTGCTT	13384	TCAAGCCAGTGACCGAGGTTA	24368	TGGGAGCCAGCCTGCTAGA	35352
1727	CCTGGCCTTAGGATTGGGAGATGA	13385	CCAAACCTTTCACACTGTCTTCAA	24369	AGGGCCCTGGCCTTAGGATT	35353
1728	GAACTGACAGGTGCTGTACTCT	13386	CCTTGAGCAGATCCATCCCATGA	24370	TTCAATGCCAGCCCAAGAA	35354
1729	TGGGTGGAAGTGGATTCTGCTT	13387	GGATGCTCTTCCAACTGGTTCA	24371	GCCTCTTCCCATCTCTCACTTCT	35355
1730	GGAACCCAGTAAGATAGAGCAGAA	13388	GCCCAGTATCCCTAGCTCCATAC	24372	CCACTGGGCAATTGAAGAGAGGAA	35356
1731	GGTGGGAGTAGTGGGGAGAAA	13389	TCCTAGTGAATCTTCTGATGCATTG	24373	TCCCTTACTGGGTGGGAGTAGT	35357
1732	GCCGGAGTCAGGTATTGGCAAAG	13390	CAGGTCCAGGGCCCCCTTT	24374	AGTGGGCGGAGTCAGGTA	35358
1733	GGCAGGCCCAATCACTTACA	13391	GGCTTCCCATTGCCTTCAATTG	24375	AGAGTTAGGCAGGCCCAAA	35359
1734	AGAGCCAGCCAGTGGTCTTA	13392	GCAGGGTCTCTGCTCAACT	24376	CAGCCTTCCAGGCCAAGTATGT	35360
1735	TGGGTACGCGCAACCTATTC	13393	GGAGAGTAGTTGCAAAGCTCGAA	24377	TCTCCAGCACACCTCTCCAT	35361
1736	AAGCTGCAGCCCTCCTTTTG	13394	AGCCCTGCTGCTGCTTCT	24378	TGGGGTCAAAAGGGGTGTGAAG	35362
1737	ATTAACGCTGGGTACCTGAAAGT	13395	ATGGGCCTACCTGAGTGACCTT	24379	CCAAGGGACAGGACCATCTCT	35363
1738	CTGCAACAAACGCCACTTATCA	13396	CTGACCCGGTGACCGAATG	24380	TGCTCCTCCCTGCAACAAAC	35364
1739	GCTTCTGAGGGTTTCTACCACTAAT	13397	GCTCAGGCCTGCTTCTTCAA	24381	CAGCCTTGTCTTCTGAGGGTTTC	35365
1740	CAAAGAAAGGAAAGCCAGGTAGCAT	13398	TGCCCCGGCGGTACATTTT	24382	GCAAGCAATGCACAAAGAAAGGAAAG	35366
1741	CACCTGCTGTGTGGCAGAGCTA	13399	AAGGTAAGGGCTCGGGAACT	24383	GACCTAACTTTATGTCACTGTGTTG	35367
1742	CACCTGAAGGCAAGAATTGCTACAAA	13400	AGCCTCCCTATCATTGTGGATGA	24384	CCTGTTGAAAGGCATTTCTCACCTGAA	35368
1743	CAAACACGGAACGGTGTCTGATA	13401	GCAGGGCAACAGCTCTGAAGAA	24385	TCTCACAGCCAAGGCCCAACA	35369
1744	GCACGGGCCACTTTTCTAGATG	13402	ACTCAGAGGGACTCCCGGTAT	24386	AGACAGCACGGGCCACTT	35370
1745	GCAACACTTGAGAAATGCTGGTTCTCT	13403	TCTCTGCTGCCCCACCAAA	24387	TGAAAACCTTGTGTGCAACACTTG	35371
1746	TCTATTGCTGGCCCTCTATCT	13404	TGGGGTGAAAACGTGAAGTGA	24388	GCCTGCCCAAGCTTTTCTTCTA	35372
1747	AAGAATCCAGAAGGAAACCAAGTGT	13405	AGCCGTGGAGTCCATCTCTT	24389	TGAGGAGCTGCCTGCAA	35373
1748	TAGGAGGCGCCGTGCAT	13406	AGCTCTCATGTGAAGCCTGTATTG	24390	GCTCACTACTTAAGGGGATGTCAGT	35374
1749	TGAGGCTAGCTCGGTGAACCT	13407	GCAACCGACAGACAGAAGTGA	24391	CTGTGTTGAATGAGTAGGGTGGAA	35375
1750	CTCTACTGTGCTGGGTCTAGT	13408	AAGCCCCACTAGGTGTGTGATG	24392	CCCAGGCTGAAATGCTTTCTTA	35376
1751	GTGGCAGCCTCGTGACGTA	13409	GCCAGGAGGGTGCAAGGATTT	24393	GGCAGAGACTAGGGTTCCAGGTT	35377
1752	GCTGACTTGCTGTGGGTCTCT	13410	AGGGAGGGCTGCTCCTTTAGAT	24394	ACGGCTCGCTTGCTGACTT	35378

1753	GCCCATCAGCAAGTCTTATTGACTCT	13411	GGGCAGACTCAGGATGGGTTTT	24395	ATCCCCAGCCCATCAGCAAGT	35379
1754	CCTTCCTGTGTGTAAGACTGATCT	13412	AGTGGCAGGTCAAGGCATCT	24396	AGCTCTCCTTCCCTGTGTGT	35380
1755	CTCGGGTTGGCTGTTACAATCGAA	13413	TGGCGGCTGCTCAGTCTTG	24397	ACAGACTCGGGTTGGCTGTT	35381
1756	TGGCCGGTGGGGTCTAAGT	13414	GGGAATGAAGCGGGAGTGA	24398	TGTCCCTCAGGCCCTCTGTA	35382
1757	CCTGGCAGAGTAGCTTCCATTCT	13415	CCTCATCTGCAGAGGAGCAAAC	24399	TCCGGAGGTGCAGGTTTTG	35383
1758	AGCGGTGTTTGGAGGAGACATT	13416	GGGAGGGATGTTGAAGATAATTGGAT	24400	CTGGGTAGTAAAAGCGGTGTTGA	35384
1759	GCCTCTAGGAGAAGCTGGCAACA	13417	AACCGGGCCAGAGGTTAAG	24401	GCAGCTACACTTGCTCTAGGAGAA	35385
1760	GAGGGGAAATCAGAGCTTTGTCA	13418	GCATAGCTTGGCAGTGAACCTG	24402	TCCTGCCCTTTCCTTCTAGT	35386
1761	CGCCCCAACACTTCCAGTCT	13419	GCTGAATGGATCAGGAAATGATCT	24403	AACCAGCTGCGCCCCAACCA	35387
1762	CACTCAGATCTCTGGTTCCAATGT	13420	GACAGGGTCAGTATCCAGTCA	24404	GGTCTGTTACCATAATGTGAGTCTTCACT	35388
1763	CAGGAAGCCCCAAAGAGTTGAAGA	13421	AGTGGGAAGGTGGGAAGCAT	24405	TTTGGCAGGAAGCCCCAAAG	35389
1764	TCGGACTCTGTACCTCTCTCTT	13422	GGATCCCCAGACAGAGGATTCAA	24406	GCTGAGTTTCAGTCGGACTCTGT	35390
1765	GCAGGAACCTTAACTAGGGATCCAGAA	13423	CCTCTCACCTTGAGCTCTTGATA	24407	GAGGATGTGAGCAGGAACCTTAACTG	35391
1766	CGGTGGGAATCCCTGACTTTC	13424	GCTCGGGCAACCCACATTTTG	24408	TAAGAGGAGGGCGGTGGGAAT	35392
1767	CAGATGTATCTTTTACAGGCCATTAC	13425	ACACAGGTGGAGCAGACCAGTT	24409	GTGTGCTGCTGCAGATGTATCTTT	35393
1768	GGACGGTTTGCCAGGTTTCT	13426	CTCATGGGCACCTTTGACTTGA	24410	CTGTAGTGCCAAAAGGACGGTTT	35394
1769	AGGAGGGCTGCACCAATCCTAT	13427	CCTTGCAAAGCGATCCAGACCTT	24411	GCCTTCCTGAGATGGCAAA	35395
1770	CCCCTGTGAATTTCAACCTAGGAAGT	13428	GGAGTCAAAGCTCGGGCTTCAT	24412	GGCTCAGAAATGCAGGGCTAT	35396
1771	GCTTCTCCCAAGCTGATCTCTGT	13429	GTGCAGCCACCAAATTTACTGA	24413	GCGCAGGCCATTTTTCTGCTT	35397
1772	GGAAGTGACCAGGTGCCATGAT	13430	GGTGGCCTTTGTTCCCTTGCTA	24414	GGCAAAGCATCGCTGAGGAAGT	35398
1773	CACCAGACCTTCCCTTCAGTGT	13431	CTGTGACCAGAATGAGACATGAGT	24415	GCTGTACATTCCACCAGACCTT	35399
1774	AGGGAACAGAGAGGCAGTACA	13432	CACCACCTTCTTAGGTTTACCAGAT	24416	CCCCATACAGTCTTAGGGAACAGA	35400
1775	CCCAGTTGCACATGACTGT	13433	GGCATTGCAGATGGAGAATTGACT	24417	CTCATTCACCATTTCTCCCAAGTTG	35401
1776	AGGCTGGAGCGAGACACTT	13434	GCACCCCTAGGTGAACCATTTTC	24418	TGGTGGGACTGTGCTGTAC	35402
1777	GCCAGGGATAAGTTCCTTCTCTAAC	13435	GGCAGAAAGTACCACATCAGTT	24419	CACCATCATGCCAGGGATAAGTTC	35403
1778	CTACTTCTGCCATTCTGGTCCAA	13436	TGGCAATTGTCCAGGCAAGA	24420	TCCACCTACTTTCTCAAACCTACTTTC	35404
1779	GCTTCATCTGTACCTGTTACCTA	13437	TGTGGCCTTCGAGCATGTGA	24421	TGCACACTTTGCTTCCATCTGTA	35405
1780	CAGGAGGCCAATCCAAATCACA	13438	ACCTAACATGAGCAGAGGCTCTAA	24422	AGAAGCACAGGAGGCCAATC	35406
1781	CACCCTCCAGATCTGACGATCTAA	13439	CGATGAAGGCACCTAGAGCTATT	24423	CCTGCATGCACTGGAAGGATGA	35407
1782	CAGTCACAACAGGGGCATCTCA	13440	CAGGGCCAAGAAACACAGCAT	24424	GGGAGGGTCCACAGTCACA	35408
1783	GGAGCCCTTATCTGGAGACAGAAC	13441	AGCCCAACCCACAGCCTAA	24425	CTGGTTTTGAAGGGAGCCCTTATCT	35409
1784	TGCTCGTCTGATGGAACTTG	13442	GCAGGAATGGAAGATAGGCACAA	24426	AACCCACCTCACTGCATCT	35410
1785	TCATTGAGGTGAGTGTGTATCAA	13443	GCTAGGATGACCATATCCCTGTGA	24427	GGCAGAGAGGAATAAAGACCCATCATTG	35411
1786	GGGGTCAGCTGAGCTAATGTGT	13444	ATCCTCTAGGCCCACCTTCTTC	24428	CCTTCCTACCCTAGAGCCACAT	35412
1787	GTCGAAGTTGGCATCCGTTCA	13445	AAGGGGCATGTGCCCAGTAA	24429	GGTTCAGAGACCCAAAGTCGAAGTT	35413
1788	CTTCCTAAGAAGGCAAGACTGAGA	13446	CCCCTGGACTGTGTGCTTCA	24430	CTTTAGTTCACCTGTCTCTCTAAG	35414
1789	GGCCTGTCTGGATGGTGTT	13447	TCCTGAGACACTGGCCCTAACT	24431	TCCTGACCTTCTGGCCTGTCT	35415
1790	CCCCAAGCCCTGTATCCAATAC	13448	AAGTGATGGCTAAGTGCCTGTG	24432	GTGTTGGCGGAGATGCAGAA	35416
1791	CAGAACCGTCTCTGCGTCCAA	13449	CCACGCTACTGTCCCGCTTAG	24433	CTCGAGTTTGCCAGCAACAGA	35417
1792	GGATTGGCTAAATGTAGCTCCTCAT	13450	TTTCTGCCACCCAGTGACA	24434	CCCCTAATGCTCGCAGTTCTT	35418
1793	CAAAGCAGGCGGGAGAACTAGA	13451	GGTGGGCTGGATGTTCA	24435	AGGCTAGAGCGCGGCAAA	35419
1794	CAGCTATCTCGCTCTTGACACT	13452	GGAGCCACAGGGACATGAATAG	24436	AGTCCTGAGAGGGTCAGCTATC	35420
1795	CCTCCTACTCACCAAGCAGGAA	13453	TAGCAGCATGGAGTGGCTGAGT	24437	TAGCTGTGGCTCCCTCCTACT	35421
1796	CAGCCTCTTCAGCTTGCCTTGT	13454	GTGCTGCTACCGTTACTGAACA	24438	ATCCTCACCCAGCCTCTTC	35422
1797	AGCATGGCAACACTCAACCAA	13455	CTGTGGTAGAAGCAGGAGGACACT	24439	GTGAAGGAAACAGCATGGCAACA	35423
1798	CTCAGGACCTACGGTGTCAATTG	13456	AAGCAGCTGTTGGGGAGCTA	24440	AGCCTCTGGAGGCAGCT	35424
1799	CCCCGTGATCCTGGTCTACACA	13457	GGCACAGGGCTGCAACGTA	24441	AAGCCTCCCCGCTCTTCT	35425
1800	CACAAACCTGGCTGTCTTTGTGA	13458	ACTCAAGTCTAGTGCTTTACAATC	24442	CCGCCCTGAAGAGAAGAACAAAC	35426
1801	GTCGCTGGGATGCATAGGAACA	13459	GCTCAGCGCTCAGTAGTCTCT	24443	AGGCATGGCAGCAGTGTGTA	35427
1802	GTGACTGTTTGCTGCCTTTC	13460	AAGGCCCTCCAGGGACTCACA	24444	GCATGTAACCTACCGTACTGTGACTGTTT	35428
1803	GCTGACAGGTGAGACTCTGAAG	13461	CCAGCCTGTCAATAAAGCTGAGAT	24445	AAGCAGGGTCTGTGCTGACA	35429
1804	GTGCGGGGAAGCTAAAGATAACAT	13462	CCCCAAAACAACCTCAGGGACATA	24446	TCGAGTCGCGGGAAGCTAA	35430
1805	GGGGTGGAATCAGGACTGTGA	13463	GGCCACGTGACTCATAGATGCTT	24447	CAGTGATAGCAAGGGGTGGAATC	35431
1806	GGAGGCCTTAACATACGAGGTGAGA	13464	CACGAAGCTCCACACACTACA	24448	GAGGAGATGGAGGCCTTAACATAC	35432
1807	GGTTGTGGGCTACGCTTGTCA	13465	GCACAGGAGCTGCAGAGTGAAA	24449	TTCCCTTGCCAGGAGGTTGT	35433
1808	CATCAGGCCCTACTTCCAGAGATG	13466	GGGTGAGAGGGGAAAAGCTCCAT	24450	CTGCCTTCTCAGGCCCTACTT	35434
1809	CGGGTAAGCCGTGAACAGTAGT	13467	ACAGCGTTACAATGACACACTTG	24451	TCGCTGTGACGCGGGTAAG	35435
1810	GCCTTGAAGGGAGTCTGGGAAT	13468	AGAGACGGCTGCTCGTTGA	24452	AAGTGGCGTGGCCTTGAA	35436
1811	CAACACTAAGACATGCCCTGAAGAAG	13469	CCCGTGAAACCGCACTCAA	24453	GGGCACAAGCGATTTCCAATCAA	35437
1812	GCATACAATATGACCACTCAGCTT	13470	CCTGTGTGCTCAATCTTCCAA	24454	CAGTGGGATTTCCAGACGGCATA	35438
1813	GAGGTGCGGCAGCTACTTTTTTC	13471	CAGAAACAGGGCAACCATGA	24455	GGGCTGCTTTACCTCTAATGGCCAAGT	35439
1814	CGTAGCCCGTCTTTCAGAGA	13472	CAGGGCGATTCTTGCTCATCA	24456	CGAATCTAAGACAACACTCCGACGTA	35440
1815	GAGCTGTGTATGTACTGAGAGATCAA	13473	CAGGGCTTAGGACTGCCATT	24457	GAGGTGAGGGAATGAGCTGTGT	35441
1816	GAGAGACCGCTTACCACATCTTC	13474	GTTCAGGGATTTGACCTTTTCA	24458	CCTGAACACCACAGCCTTAGAGA	35442
1817	CTGTGCTTTCCACCGAAGA	13475	GCCATCCAGCACCCACAGCTT	24459	GGAAGGAAGGGCTATGCTCTGT	35443

1818	GGAATACGACTCAGGGAAAATACAGT	13476	TCGCTCCTGACTCTGCACCTT	24460	GCACCTGACAGGAAATACGACTCA	35444
1819	TGCTCCAACCCACAGTAAAG	13477	TCTACCTCACTGTCTATCTCTGT	24461	CACCTATCAGCAGGTACTATGCTCCAA	35445
1820	GCCATGGGCCATCCTGACAT	13478	TGGAGTGGGGACTGAGTTTAT	24462	TCACCATGGCTGTCTGGGATTG	35446
1821	CTGTGGATTGTCGGAGAGTAG	13479	GCAAGTCCCACTGTCTGT	24463	GCTCTCACTTATTGGAACCTGGTGGATT	35447
1822	TCCCAGGTGTGTTCAAAGATTGT	13480	TGAGCCAAGCACCGTCCTAA	24464	CCCAGAATGTTCCAGGTGTGTTT	35448
1823	CCTCTGCCCTTTTGCCATTTTT	13481	GCTGGAAGGGTTTGATTCAATGGATGT	24465	CTCATGCTAATCTCTGCCCTTTT	35449
1824	CTTCAGTTGGGGAGATGCCCTAG	13482	GATTGCAGGCTCCATGCAAAAG	24466	ACGGCCAGTGTCTTCAGGTT	35450
1825	GTGTTGGTCATTCTGGAGAGT	13483	ATTCCTGCTGCCCTCGCAT	24467	CCAAGTTGGGAAAGCTGGTGTG	35451
1826	GCTGAGAGCTTGGGTATTCCCATAC	13484	CAGCCTCAGGGGTGAGAAATGA	24468	CCATGTTGCTGAGAGCTTGGGTGA	35452
1827	TTTTGTGCCAGACCAATTCT	13485	TTGCTGAAGTCTCTGCTCTAAG	24469	TCTATGAGACTCTGGAAGTCTTTTG	35453
1828	GGACTGTGTACTTGTGAATGAGGTA	13486	CCAGCTAGGACATGGCAGTTC	24470	CAGAGAGGAAAGACTGTGTACTTG	35454
1829	CTCAAGGAGGAGAAGGCACCTA	13487	GCCAAATCTACCTTTGTTTAC	24471	CTGGAAGCATCAAGAAAGGCTTCA	35455
1830	GCTGAAAATTGCCCTGCACACT	13488	CCCCTTTGCCAGAGCACATCT	24472	CCCAAGTTGAGGACAGCTGAA	35456
1831	AGTGAAGGACGCCACGTTT	13489	GCAGCTGGGCACACAGAA	24473	AGCAGGGCAGGGCAGTGAA	35457
1832	AGTGAGAGACCCAGGGACCAA	13490	AGAGCGCTCCGCTGTACT	24474	TCATCTCGGCCAGTGAGAGA	35458
1833	GCAACACTGGATCCTGGAGAGT	13491	CACGTCTGCGTGAGTACTGT	24475	TGAACAACGTAGCAACACTGGAT	35459
1834	TGGTCGAGAAATGTGACCCAAA	13492	CCAGTCAAAGTGTCTCTTCACT	24476	GCAAAGGCTTGTGTCGAGAA	35460
1835	CCAGGACCAATGGGTAAAAGTAACA	13493	AGCTCTTCTCTCAAGCCAAAATCT	24477	GCTACAAGGGTAAAACCCAGACCAA	35461
1836	GCCTTTCAAAGGCGATGACA	13494	GCGGTAGTGTTTCCCTCTGTAG	24478	TGCCATTGGCCAGCCTTTC	35462
1837	CCTGTTTGGCCAGTAGACAAATG	13495	TTGCAAGGAAAGGAGAGTACAAG	24479	AGAGCTCTGGCACCTGTTTG	35463
1838	CGTCATTGGATCTGTCTCCTTTTC	13496	GAGGGAGAACACCTGCTTGAA	24480	GCTCCAGACGTCTTGGATCTGT	35464
1839	CTGACCGCATTTGAGGAGTCT	13497	GTCATTTCAAGGCCACGTGCAA	24481	CCCTGGAAGTCTTGACCGCATTT	35465
1840	GGCCTTCTTGGAGCGAGTTAAT	13498	GCAATCCCGAGCTTGGTTGACA	24482	GCTAAGCATCCAGAAACCCAAATG	35466
1841	TGCAACCATGGAGACCTGGAA	13499	ACTGCAACCCGAGGAAGCAT	24483	ACCCCGTGACGTGGTCACT	35467
1842	AAATGGGTGACCAGCAAGTGA	13500	AATACATGCTTGGATTGCTCTGT	24484	GGCCCTCCTGAGGAAGTAAATG	35468
1843	GCATCCAGTTGCCTGACACT	13501	TCTGCTGGGTGGGACCATTC	24485	TTCTGGGCAGCATCCAGTTG	35469
1844	GGCACTGACTTGAGTGGAAGT	13502	ACCATGGCCTTGGAGAGAGATG	24486	CCAGGTTGAGGCACTGACTT	35470
1845	CGAATCCATTCTACCCGCTAATTTT	13503	CCGGATGGGAGCGGAGAATC	24487	GTGCTTTGGCTTCTCGAATC	35471
1846	AGGTGGTGACCTTAGCCAATAAC	13504	GGATCGGGATGCTGAAGCAATAG	24488	TCCTTGCAAGTGGTGACCTT	35472
1847	AACACGAGGGATTTCCGAGAT	13505	GCATCCATCTTTTGCCACTCT	24489	GGTGTGCGTGCTATTAGCAAAAC	35473
1848	GGAATCTCCCTCTGCGGACTGT	13506	CACATCATGGAGCAGCTATGTCT	24490	GGACAATGACCTTTAGAGAGAAGGAATCT	35474
1849	TCCGGTCTCTGGCTTTTCA	13507	CCCAATCTCTTTGAATGGCAAAAC	24491	GACTCAGGTATCCCGTCTCT	35475
1850	TGGTTTTATCAGCTCACCCAACT	13508	GCATCACGAGGAGCCAGTGTT	24492	CCTCCTTGCTCTAAAGCTCTTGGTT	35476
1851	TGGGAGATTGCAAGGTCACAAT	13509	CCGGGGCCATTCACTGGTAA	24493	GGCCACAGAACTCTGGGAGATT	35477
1852	AGAGCTCCATGCAAAATCCAGAT	13510	CAGAGCCTCACACAAGCAATGAA	24494	TGAACAGAGAGCTCCATGCAA	35478
1853	TGGCACATTCTCCCTGATACA	13511	GGCAAGGAAGGAGTGCTTGGAT	24495	GGGCTGGCTTCCCAAAGTGATT	35479
1854	TGGGGCTTTGGGCTGACAA	13512	TGAGGGAGCTGCAAGGAAGA	24496	TCTCTAGCCTGGGGCTTTG	35480
1855	TGTGGGGAGAAATGGCAAACT	13513	GCCATGGCTGACAAGTCTATCA	24497	GGAGCATACTGTGTGGGGAGAA	35481
1856	GTTGCGACCTTGCGTCTCTGT	13514	TGCATCGAATTTAGAGAGCAATG	24498	AGTCGGGGCTGCGAGACTAA	35482
1857	CCGGTGATCTCTCATGCCCTTA	13515	AACAACCTCGTGCCCTAGA	24499	CCTCAAAGCCGGTGATCTCT	35483
1858	TCCGGTCACTTGGCCTTCTTG	13516	CCGCTTGGAGTCCCTGAAA	24500	TGCGACCTCCGGTCACTTG	35484
1859	GCCTGGAATACCTTTGCGTCT	13517	GAGTTCCGCCAGGATTTCACT	24501	TGCGTCTGCTACGCGATGTT	35485
1860	GATAAGGCTCAGGGCTAATGATGA	13518	CTGGGGCTGGCTGAGATGT	24502	AGTCAGATGCAGAATAGGCTGATG	35486
1861	CCTCCCAATCTCACTCCATTG	13519	GCCAGGTCTCGCTTTTGGTGT	24503	AGAAGGCGACCTCCCCAAAT	35487
1862	CCTCTCTGTAGGAGACCCAGCTA	13520	GGCAGGATAAAAGCCCTAAGAAAG	24504	CCTCCAGCCTCTCTACCTCTTT	35488
1863	GAGCTTAAAGCTGGTGAACCTCT	13521	GGAGGAAGCCAGCATCAAGAA	24505	CATGTTGTGACCCCTAACTTGACAAAC	35489
1864	GCCCATTTTGCCCTCTGTTG	13522	AAGGAGAACAGATCATGTTGCAT	24506	GCCTCCCTTTGGCCCATTTTG	35490
1865	GTCTCGCCCAACCTCATCTTC	13523	GCACATCCCTGCTTCCCTAT	24507	CAGGCTTGCTCAACTCAGATG	35491
1866	CATCCATTACAGCTAATGTTACGAT	13524	AAAAGCAGACACAGACCCAACT	24508	GGGTTGTTCACTCCATTACAGCTA	35492
1867	GCATAGCAGTTGGGGCAAT	13525	CGATGCGAGTTACCGAGTAGAAAAT	24509	CAGCAGTGACACAGCACTA	35493
1868	CCCCTACCCCAAGCCAAAA	13526	GCCACGGGAATGTTTACTCTGT	24510	GCCATTGGTGCTGCATGTCT	35494
1869	GCTGTCGCTCAGCCAGTTCTT	13527	AGCTTTCAGCCACCGCTTT	24511	TTCCGCTTCCCTGCCAAGAT	35495
1870	GCAAGCCCTGTGATGGATGAT	13528	GGTAGCACCATGTGCCACTGA	24512	CTCACTCTGGGACTATGCGAGAT	35496
1871	GCCAATATCCATGGCATAAATGAGGTT	13529	CACCTGGCAGTAGCCTTCGATT	24513	CCCTTTTCATGGACAGAGGACAT	35497
1872	GCCAGTTGCCGTGATCTAAGACT	13530	GCTGCTGGAACCCCAAGTGAT	24514	TCTTGCCAGTTGCCGTTGA	35498
1873	CAGCAGGATGACTTCTGCGTTA	13531	GGCTCTAGTGAAGTGTGGTGAAAC	24515	TGCCGGAACAGCAGGATGACT	35499
1874	CTTCTGAGTGGATGGTTGACTCT	13532	GGCCTCAGGAAGTGTGCTCTTT	24516	GAGAGTTCTGTACCTGTGTATCTTC	35500
1875	TGCGTGCAAGTGACAGACAGAT	13533	CCCAACGTGCGACCTTTT	24517	ATGGCCAGGGCAGTGAT	35501
1876	AGGACTCCTGGAAGCATGAGA	13534	GCTTGGCTGGGAATTGGGTTT	24518	TGGCTCTCCCTTGGGCAGTAAAG	35502
1877	ACACTGTCCCTTCCCTCAGCTA	13535	CAGGGCAGTGCACTGGAAG	24519	GGGGCATTAAAGCTAGTGGAAAAAC	35503
1878	TGACGGAGGTAGACGGTCAGT	13536	CAGACGACACGCACTGTA	24520	CCCTATGTGCTGACGGAGGTA	35504
1879	GTGGAAGGGTAGCAGTGATATGT	13537	GTCAGGCTGTGCTACTTCT	24521	GTCTGCTATCATTTGTAGTGGAA	35505
1880	ACAGGCTGGGAAGTGTGCTT	13538	CACTTTCCAAGTGCTGTAATGGTT	24522	GCAAGGTGGCCATTCTGACA	35506
1881	CTTCCCTGTCTTGGCATAAC	13539	AGGTGGGAGCTGACACGTATT	24523	TTGATCAGGGTCTTGGCTCTTC	35507
1882	TGAGTTGAGGCAGGACATCA	13540	GCCCTGAATCCCAAGGAAACATC	24524	GAAAGGCAAGGGTTGAGTTGA	35508

1883	CCTGGGAGACCAATTGGAAAACT	13541	GGCTTCTCATCAACTCAGTACAA	24525	GGGGACCTGGGAGACCATT	35509
1884	TCCCTCTGTGTCTGTTGGAA	13542	CCCAAGCTACGTGACACCAAA	24526	CCCTCTCAGCTCCCTCCTT	35510
1885	CATTTGCCAGCTGGCCTTT	13543	GCCAGTACTGAGACCAAGAAA	24527	CAGTCCAGAGAGTGGGCATTTG	35511
1886	AGGCCCTGTCTCTAGTCT	13544	GGCTTATCCAAGCTAGGTTCT	24528	TTCCAGGCATCACCTGAAGATAAG	35512
1887	CAGGGTAGGGAGGTGGAGAAG	13545	CACATGGTTTCCCTCCTCTTTT	24529	CCCTCTGTACCCTGAGGACAAACA	35513
1888	TGTAGACAACCTGGAAGAAACAGATG	13546	TCGTGGCACCATTCTCACAA	24530	GGGCCTTGTGTAGACAACCTGGAA	35514
1889	CAGAAAAGGCTGGTATCCAGAAA	13547	GCCAGGGAGCAGCACAAAG	24531	CGCATGCACAGTGCTTTCTCAAAC	35515
1890	AAACCAAGCAGGTGGAATCAGT	13548	CACCTCCTGTACCTTCATTCT	24532	TCGCACGTGGACCCAATAA	35516
1891	GGTTTAAAGACCGTGAATGATCCCAA	13549	CCCTGTCTCCCATGACACAAT	24533	GGTTCCTGAAAAGTTTAAAGACCGTGAA	35517
1892	GTGCCTAAGGCTAGTGTCTATTCT	13550	GCAGTGAGTGGCAGCTATTGT	24534	GTGATCCTGTGAACCTTTGTGCCTAA	35518
1893	GACAGAGCATTTAGGTGGAGAGT	13551	GTCTTACCTCTAGACCTGTGCAA	24535	GGTGCATGAAAAGGGACAGAGCAT	35519
1894	GAGTCTCCCCAGGCTATTAGGTT	13552	TTGGGCATGGAGGGAGGTAACA	24536	ACTGCCTGAATCTCTGGAGTCT	35520
1895	CCATTCTCCCGGTACAGTCT	13553	CTGGGAAGTGCAAGGGGTCAA	24537	TGGGCTGGAGTGACCATTT	35521
1896	TTCTGGGGCTGCTACTCACA	13554	TGCTAAGAAGGCTATGCTGCAA	24538	CCTGGCCTCATAACGCTCCATTCT	35522
1897	GCATTCTGCCATTAGTGTGTA	13555	ACCTGAAGGAGGGAGTGTGT	24539	CCCCTTTCCCTTCGCATTCT	35523
1898	GGGTGGTTCCAAAGAAAGGGATCA	13556	GCCCAGATTCTGAGGGGCTTAG	24540	GGAAGAAAAGATCTGGGAGGGTGGTT	35524
1899	TCCACCCGCTTCTCCACATGA	13557	GGCTCTTGGTGGTTAGCTGGACTA	24541	CAACACAGATCTGCCTCTGGAT	35525
1900	GATGACTGGTGCCTGAGGGAAA	13558	GGCCCTCTGCAAAATACCAA	24542	GGGCTATTTTAGAAGCAGAAGGATGA	35526
1901	CTGAGACTAGAGTGCCTCCTTCA	13559	CACCAGATGCTCCTAGGTGTAGA	24543	CACACTCGACATCAACTGAGACTAGA	35527
1902	GGGGTTTTGCCAGTCATCTAAGT	13560	GAACCGTCTCCTCTCCAAGTTC	24544	GCAGCTACAAGCCTTCACACT	35528
1903	GCATGGTGGTCTCTGGGTAGTTG	13561	GCCCTGTGAAGCCAGTCTCTAT	24545	GCTTGGGCTTCCTCAGAGCAT	35529
1904	GGGATGGGGACAAGGAAATCA	13562	ACACCTGAGAGACCTCGCTTT	24546	TAGGGAGTGGGATGGGGACAA	35530
1905	CTCTCTGGGTTTCTGTCTGCATTCT	13563	CGCTCACCCAGTCTCACCTAT	24547	GACCAGAGAACCCCTTGGCGATTCT	35531
1906	CACCTGTCTTCAGGTGAGTGCTA	13564	GGGAAGCTGTAGTTGCAGTGAT	24548	AGTAGGTGTACCCACCTTGCTCT	35532
1907	GGCAGCTGACACACTCCTT	13565	GCCCTCTGCTGACAGTGTGAAA	24549	TCCTTCTGTATGATCAACGGACTTG	35533
1908	GGGAATGGGCCAAGACTCAA	13566	GAAGTAAAGTGGACCTTGACATCTGA	24550	TCACAAGGCAGTGGGGAATG	35534
1909	GGGCAGCGTCTGACATAGT	13567	CCTGGTGGCTCAAACCGTTAGT	24551	GCGGCTTGGTGACCGTGAT	35535
1910	GGGAATGGAGACCGACAGAGACTA	13568	CACAGAGTGTGACTCAGGTCAAG	24552	GGATGTTGTTTCTAGGCTGTGATG	35536
1911	TTGTAAGTGGTTGCCGAGTCT	13569	GGCCGTGGGGAGTAGGGTTA	24553	GAGAGAGAATGCCAGACAGTTTTG	35537
1912	AGACCCAGGGCCACCATGA	13570	CAAGTCCAGAAGCCAAAGCTA	24554	GCCGAGTCCAGCCCAATCA	35538
1913	GCCAGTCTGTCGATGCTCTTGT	13571	CCCTGGCTGATTATGAGAAAGGTA	24555	ACCCAGGAGCCAGTCTGT	35539
1914	GTGTTACACCAAATGCCACTGAAG	13572	TGATGGGTGGCTTCCTAACT	24556	TGCCAGCTGTTATTAGGTCTTAC	35540
1915	TGGGCTGTACAAGCTGCTTTC	13573	TCTCGGTTAACTGCAAAGGACAA	24557	TGCCTCAGAGACTTGGGCTGTA	35541
1916	CTGTAAACACAAGATGCGTGCATCA	13574	TCTGGCCTTCGGTCTTTTG	24558	GACATGCCTATTTGACCAAATTTCTGT	35542
1917	GGCAGATGGGACACTTTTTCTTG	13575	GCCAGAAGTCACAAACCAAAGACA	24559	GCAGTGCTAACAGTTTGGCAGATG	35543
1918	GGGTGACACCAGGTGAGAGA	13576	GCAAGAGTGGTAGCCTCAAGAT	24560	CGGGCATGTGGGGTTGACA	35544
1919	CACCTAATCTCCACCACAGTGCTA	13577	CACAGGAGGGTGATGTTATCTGTCT	24561	TGTGCTCGTCTCATCTCACT	35545
1920	AGGCCAGCTTTGCCTCTGT	13578	GCTGACATTGGTGGTCTGTAGCTT	24562	CACTGATTAATATCCACAGGCCAGCTT	35546
1921	GATGCACCTGAGTGGGCATT	13579	CTGGCATGTGAATTGCTGTGGAT	24563	CCGAAGGATAATGTAGGAGGTGAGAGATG	35547
1922	CAGGCTCACTTTTGGATCAGGCAAT	13580	GTAGGCCAAGGTTGCCTTAAAC	24564	GCTGATCCAGGCTCACTTTTG	35548
1923	CAGCTGGTATCTGGTGAATACTT	13581	CCATCAGCAGCCTGAATGCTT	24565	AGGGAAGTGGCTCAGCTGGTAT	35549
1924	ACCCCTCTCACTCAGAGACACA	13582	TGATGAGCAGCTGAAGATTGAGA	24566	GTGGAGCAAAAACCCCTCTCACT	35550
1925	CCACAAAGGGGTGCTTGAGA	13583	GCGTGAAGCCAGGACTTCTAA	24567	AAACACCCCTCCCCACAAAG	35551
1926	CAGAACTGTGTGCTGCTGAA	13584	CGCAAAGCCCTTTAACTGCTGAT	24568	GGTGGCTCTCCAGAGATTTTAGACAGA	35552
1927	GACTCAGAGGAGACTCCCTTCATA	13585	CCTCCCTCACCAGTGGGTCTT	24569	CCACTTCCCGGCTGTGTTCTT	35553
1928	AGGTGCTGCCAGAGGAAAT	13586	CCCTGCAAGCTGGTTGTGTA	24570	AGACCACGGGACCTTGA	35554
1929	CCTCTGTGCTTGGTAGAGGAA	13587	GCCTTAGCCACAGAATCCATTACA	24571	GGGCTAGACACAGGATGAGTTTCT	35555
1930	AGTACCAGCCCTGCCACTGA	13588	ACCACTGGGATGAATCCAACA	24572	GGGCCCTGTGAAAAGAGACTGA	35556
1931	GTTGGCCCTGCTTGGTACTT	13589	TCAGGCAAGCTGGAATAGATT	24573	CCAGCAGCTGAGGCAGAGA	35557
1932	GCACTACGCTACCTGAACCTAC	13590	CTCAGTGGGATCTGGTTACTTGTTCT	24574	GGTGACCTACAGCAAGGCACTAC	35558
1933	CTGGCATTGTGTAGGAAAGGAGAGA	13591	GGCCTAATGATGGGCACAAGGTT	24575	GGGGTGCGTGTGTTGGATTCTA	35559
1934	CTCAGGCTTCGCACTTGATCT	13592	TGCCTTCTGAGACCGGCAAGA	24576	ACGAGATCCAGGACTACATTTCTCA	35560
1935	CCCAATTCTTAATGCGGCAATGT	13593	CCAGTGCTCACTGTCCAGTTCA	24577	GTGAGCTTCACTGCCAATTCCTA	35561
1936	GAAAGGAGCAGGAATCACTCAATC	13594	GCACATGGCCTGGAAGAGATGA	24578	CTTTTCCATGAAGGGAGCAGGAA	35562
1937	GGTGGCTATCCAGAGTGTGTCT	13595	CCTCCTGATTTGCGCTCTCTTC	24579	ACTCGCAAAATGGGTGGCTATC	35563
1938	GGGGCAGAGTGGTGTGATGATAACA	13596	TAATGCAGCCCACTGGCCCTTAC	24580	AAATGGGCATGGGGCAGAGT	35564
1939	CATCAGAAGACCTGCATAGCTACA	13597	AGGAGTGACCAATGCCATGAAT	24581	GTGGTACCCCTAGTCCCCAAGA	35565
1940	GTGCTGGCACTAAAGGATACAATG	13598	GCAGACGGCCCTGAGACAA	24582	GGTGCTGTGCTGGCACTAAAAG	35566
1941	GCAAGCGGTTTCCACTCTGA	13599	GCTTCCAGGCTCCATTGTGT	24583	TGTGGCCAGACCAAGGCATCT	35567
1942	CTTGCTCACTGCTAACTCTCAGAT	13600	CATCAACCATGTGAGGGACACTCT	24584	TCCCTGAAGCAGAGAGCTTGT	35568
1943	GGCATCCAAGGAGCAACAGA	13601	ACCCAGCTTCCAGAGACTGCTT	24585	CTGATGTAAATCAGGGCATCCAA	35569
1944	CCGTCCATGTGCTGTCATCTCT	13602	GCAATGAAGGCCATGGAGACA	24586	GGAATTGGGTCCGTCATGT	35570
1945	TCCGGTACCTGGCTCTGGAT	13603	ACCCGGAGACAATGTTCTATC	24587	GCTAGAGAGGCTGTCCCTAGTTGT	35571
1946	GTTAGGTGGCATAACAGCTGATG	13604	TTGGTAGGCTTGGGTCTAGTCA	24588	CACAACCTATGAGGTTAGGTGGCATA	35572
1947	CAGCCCTTTAGGGTATCTGCACTTG	13605	AGGCACCAAGGCAAGAGTTTG	24589	GGCCAGTGTGACAGCCCTTTA	35573

1948	AGGTGGTCTGACCTTCTCCTT	13606	CCCTCTGCTTCTCTGGTGAT	24590	ATGGGCAACAGGTGGTCTGA	35574
1949	GTCCTACTCCAGGGCATATTG	13607	TGAATGCCTTTGCTTATGGCTCA	24591	CTTCTCCCTCATTTGGCATTTTGT	35575
1950	GGGACTGTGCAGACAAACCAA	13608	GCCAGACGAGCTGCACACT	24592	TGAAGACAAACTGTGGGACTGT	35576
1951	CAGTGAGAAAGAGAGTGCAAAGTCATT	13609	TGCGGGACACCAAGCTGATT	24593	CAGGGTAGGAACAGTGAGAAAGAGA	35577
1952	CACAGTACAGACATGGATGGTA	13610	GGAATCCCGTCACTTACAAGTACAA	24594	TCCCACTGTCAACACAGTCA	35578
1953	GAGGATAACCTTTGCTTGGGTACA	13611	ACAAGGGGAGTGGCATTTTGT	24595	TTCTGCAGGTAGCAGTTTGTGA	35579
1954	AGTGTGATGTGCTGTTGTGTTG	13612	AACCATGCCCTAGTCCACAGT	24596	GGGTCTCAGGCGAGTAGATGT	35580
1955	GGGTTTCAGCAGCATATTCAGGTA	13613	ACAGGTGATCAGCTCTGGATCTT	24597	GGCTATTCAAGGGTTTCAGCAGCAT	35581
1956	AGGCCTGGTTGTCTCCCTCAA	13614	AGTGGGGAGGGTGTACAGAGA	24598	TGGTGAGCAGGCTGGTTGT	35582
1957	CGGTGGATTGTGGGCAGTCA	13615	ACCCAGCTCCAGCAAA	24599	ACACCATGGCGTGGATTGT	35583
1958	GTGCTGGCCTGTTCTCCATAAG	13616	CGCATGGTCATAGCATCGCATT	24600	GGTCTTGGTGCTGGCCTGTT	35584
1959	AGGCTGTGCGCACAGACCTAT	13617	AGGGTGGGTGCTGGAGTACA	24601	TCCCTGGAGGGGTGAGGTCAT	35585
1960	GACGGCCTCATTGGAGCATAGT	13618	GGGAAAGTCGGTACATCAAGATGAGA	24602	AGGAGGAAGACGGCCTCATTG	35586
1961	AGGAGCAGATCTGGCTGAGTTG	13619	AGAGCAGCCCCAGTTCT	24603	AGGAGTCCGGAGGAGCAGAT	35587
1962	GCCTACCCATTATTCCATCA	13620	GCACTGAAGATGACAAGTACCACAA	24604	ATCGGGGTGCTCACCCATT	35588
1963	ACTGGAGTCAGGAAGGGTAATCA	13621	GCATGGGGCTTTTCCACAA	24605	GTCTGTGAAAACCTGGAGTCAGGAA	35589
1964	ACTGCAAGTGGGTGATTTGCTA	13622	CAGGCTCAGGCCCTCTTTTAT	24606	ACTCCAGCTGGTGGGAGACT	35590
1965	ACAGTGTCTACCAATTGGAACA	13623	TCCCTCGCAGAACACAGA	24607	GACCTCTGCTACAGGCAAACT	35591
1966	GGGCAATGTGTTACATAGGTGGAA	13624	CTGGGTTCAAATCACTGGGAGAT	24608	CCTAGACCTGTTAGGCAATGTGT	35592
1967	TGGGCCTTTGAGGACACAGA	13625	TCCGCGCAGAGGAAAGTTGT	24609	ACCATTGGCTGGGCCTTTGA	35593
1968	CTGGCCTCGCAATAAACCTTTTC	13626	GCCAATACTATAGCACCAGCTTTTGA	24610	TTGCCAACTGGCCTCGCAAT	35594
1969	GGGAGCAGGAAGGCAAGAACATTA	13627	GCCACTCAGGGGTGGATCTTTT	24611	AAGGTGCTGGGAGCAGGAA	35595
1970	TCCCACCCCTGTCAAGACT	13628	AATGTCTTCAGGAGATGAGATGCCAA	24612	TGCAGTAAGACAGGAGCCATGA	35596
1971	TGCTAGACCCGGAGTCACTTG	13629	GTGTGTGGCTGGATGCTCAGAA	24613	GCTTCCCTCAGAACAGAAAAGCAA	35597
1972	CCACTGGCGGCAGGAATGAAT	13630	CGTAGAAGGGCTGCGGAAAAAT	24614	CCAAGCTGTGGGCAGTGTATG	35598
1973	GCCTGGAGATGTATCGGTGTAACCTG	13631	AGGCGCTAAAAAGCTGACAAAAG	24615	TGGTCAACAAGCCTGGAGATG	35599
1974	TTCTTGCTTTGCTGCTTTTC	13632	GCACCTGTGTTTACGCATTTTC	24616	CAGGATTGTGATTCTGGCTTTG	35600
1975	GGTGACTGTTTTAATCCGTGCAA	13633	GGGCTCATTCACTAGGAGTGTG	24617	CGAGATTAAAGAAATGATCCAGGTGACTGTT	35601
1976	GAACCGGGACTTCCAGCTAAT	13634	GTTAGGGCTTAGGGGTCTGAAC	24618	CCAGTAAGCTGAACCGGAGCTTC	35602
1977	CAGGTGCTATGGCTGTGAACCTG	13635	AGCAGCCAGGAAGGCTGATG	24619	GGCATTCTCTGCAAAACAGGTGCTA	35603
1978	CCACACCTCAGTTCACACAAA	13636	GCTTAGCTGCACCCGGACATCTT	24620	ACAGTGCCACCACTCAGTT	35604
1979	TCTCTTGTGTGCTGTCTTTTG	13637	CATAGGCACTTGATCATCTGTACT	24621	TGCCGGCTTCTCCTTGT	35605
1980	CTGTCTGGTCTTCTATTGACCAAA	13638	GGAGTTGTCCGTGTAAGTATTG	24622	TGTCTTGTCTGTCTGTGCTT	35606
1981	GCTACCTCATTGGGCGCATT	13639	ACACGTCCCTCCTGGAGTTTC	24623	AGAGCGCGCTACCTCATT	35607
1982	GAGGAAGGGCAGCGGTTTG	13640	CCACACGTTTGGCAACGTAGA	24624	GCCTAAAGGTCTGGGAGGAGGAA	35608
1983	CAGAAGGAAGCCTTCAAGACACT	13641	GCTTCCCACTGCTACTTCTATG	24625	CAAAATGCAGCCGTGTGAAAAACA	35609
1984	TGCACTGAGGTTTGGAACACA	13642	GAGGCGGTACATAAGTACAGCAA	24626	GACATTGTGTGGTAAATTTGCAGTGA	35610
1985	GTGCCTTGCCAAACAGGGAAGA	13643	TGCAGGCTGTGCGTACT	24627	GGGAAAGCCTCATGGGATGGAA	35611
1986	CTCAGAGGGCTCTCCTTCCAT	13644	CCAACCTGCCACTGACCAAAAAG	24628	CCCGCATGCCTGTGTCTCA	35612
1987	GTCCAAGCAGGGCCTTCTGATT	13645	GCTCACTTGCCAGAACAGTTAAG	24629	GAGTTGTGCTTCCACAGTCCAA	35613
1988	GCGAAGAGGAATACGCTCAAAG	13646	AGCAGCTGGACTGCTTGACT	24630	GGAAAAACAGCAGCGAAGAGGAA	35614
1989	GTCTTGGGCTCTATTGCGCAGGTT	13647	CAAAAGGAGCCACAATGGTAGGTA	24631	CTGAGAGCTGTCTTGGGCTCTA	35615
1990	CAGTGGAATCTGCCATTTTGT	13648	GCATTTGTGTACCTGTTTCTTTTC	24632	GGGGCTAAATGTGTGCTCTTCAGT	35616
1991	GAGCCTGTGGACAGAAACACTA	13649	TGTGTGATTTTACAGGGCTAAGAAGT	24633	AAACCAAGGCTCCCAAGCTTCA	35617
1992	GGATGAGTCTCTAGTTTGGTGTT	13650	TCTAGGCCCAATGACTGAAGTT	24634	AGCAACGGGAGAGGATGAGT	35618
1993	CCCTCAAAGCAACATTGGCTACACT	13651	GTGTCTTCCAAAGCAAG	24635	CGTTCTCTCCCTTCAAAGCAACAT	35619
1994	GAGCTGGACTTCTTTTCTCACT	13652	GCCCAAGTTTGTAGTCAGCAGGTCAA	24636	GTGGTTTGAAAGAGCTGGACTTC	35620
1995	GCCCTCCCAAGGGAAGGTCTTA	13653	GGCCTCAGCTTGGAAATGGAT	24637	AAGGCACAGCTCGTGAGTTC	35621
1996	AGTCCAAGGGTAGGGGAGTTAG	13654	GGACTGGCTCTCCTTCCAGTT	24638	CCCTGGGGTGCATGAGTCCAA	35622
1997	CCGTTGCGCTCTGTTCTCT	13655	AGCCAAAAGTTGTGCCACTGA	24639	CCCTGCGAGAGGGGTAGAAA	35623
1998	CCAAAAGCAGGAGAATGGGGTTCT	13656	CAGGCATATAGAACTCTGCCATT	24640	GGTAGCCATCCAGGTAGACCCAAA	35624
1999	CGGTTTCTCTGATGCCCTAAAC	13657	TGGGTGGAAGAGAGCCTTGAGT	24641	AAGGGGTCTCGGTTTCTCTGTA	35625
2000	AGGCAGCTCTTACCTCCCAT	13658	AAGGACTGCCCCTCTCAGAAA	24642	TTTGCAGCTTCAACAGGAA	35626
2001	CAGGTACAGAAACCTGTGTGAA	13659	TGGCATGCCGGCACATTGA	24643	CAGGCAGAACTTTTACAGTACAGAA	35627
2002	GGCAATGACACTGGAAGAATCAAA	13660	GCACCACTATGGGCACACA	24644	CCCAGGCAATGACACTGGAA	35628
2003	AGCTCCTCCATGGCCTGTCT	13661	GGAGAAAAACCTTCTCACGCATCA	24645	GTGGAATTACACACAGCTCCTCCAT	35629
2004	GAATGGTGAGAGAGGAGTCTGA	13662	GGGGATCAATGCAAACTCTGTAGT	24646	GGGGCAGAGTTAATGAATGGTGAGA	35630
2005	AGCATGGGCCTTGGTGACAT	13663	TGCCTACCTTGGGAGGGTTCA	24647	ACCTGCAGGGACCTGTAGCAT	35631
2006	GAGAAGGGTGGCATCTAAAACAGAGAA	13664	CACCACACCTCTCCCTTCTGA	24648	GAGACAGAGAAGGGTGGCATCT	35632
2007	CTCTGCTTTGTGACTGTGCTCCT	13665	CCACTTTTCGATGACCGCTTGT	24649	GGCGGTAGCAATCTCTGCTT	35633
2008	ATCCGAGAGCTTCTAGAAATCAAC	13666	TGTGGCACCTCACAGCTATTTT	24650	CCATTGACATCATCCGAGAGCTT	35634
2009	TTGAGTGCCTCGCCAGCTTT	13667	GCCCCAGCAAGTCATATCCAAAC	24651	CACAGAATTGTGCCAGTGTCTCT	35635
2010	CCGTGCTCTAGTCTCTTCCATCCTAATA	13668	TGCCCTGGCCTTCATGT	24652	CTAATATTCTCGGTGTCTAGTCTCTTC	35636
2011	TCCTCCCTCTCTGCTCTGAAG	13669	CTGCCTCACTCCAGATCTCACA	24653	CTTCCAAACGCTATAGGAAGAGACT	35637
2012	CACACCAGCTTCTCCTTCACTTCT	13670	GAGGAAGGACACCTTCTGTGT	24654	TCAGCTATAGACACACAGCTTCT	35638

2013	ATCGTCTCTGGATTGCTTCTGATT	13671	CCGGGGTTCAGAAAGGAGCAT	24655	CCTCCTGACTCTATCGTCTCTGGATTG	35639
2014	GCTCGGTTGGCTTCTGTCCAAT	13672	AGCCACCGTGGGAGGAAGAA	24656	CCTGCTGCTCTGGTGACAGT	35640
2015	GGTGGTTGCGTGGCATTGAA	13673	AAAATCAGCTGACTGTATGGAGACT	24657	AGGGGAACTTCAGGGGTGGTT	35641
2016	CGGGAGTCACGGATGCAA	13674	GTTGCCATTTATTCTGTGTAATGT	24658	AGCAGCACAGACGGGAGTCA	35642
2017	CTCCCATGCACAGTGTCTCACA	13675	GCAGGCAAGGGCTTCAGAAAGA	24659	TCCCGCTCTGTCTCTCTTTG	35643
2018	ACGGCTCAGCTTTTCCATTAGT	13676	TGCAGCCTGGGTGGGTTTT	24660	TCCATCCACGGCTCAGCTTT	35644
2019	GAGAACCTACAACGCCGTCTCT	13677	AGGCCCCAGCTGCACTAACT	24661	CAGGTGGGACAAGCCATTGAGA	35645
2020	GGGGCAGACTCTTGAAAGACA	13678	AGGAGCCCCTGGACTGTTT	24662	GGTGTGGGGCAGACTCTT	35646
2021	CACCCGATTGGACTGAGAGTTT	13679	GTTACTTGTTCCTGCTGCCTTGA	24663	TGTTTCCCCACCCGATTG	35647
2022	GACATGCAATGTTCATGCTGTCAA	13680	CTCCCTGTATCCAAACGAGGCATT	24664	CGGTTGGTATTTTCGACATGCAAT	35648
2023	CCCCACCAACCTTCTCTCTTCT	13681	GGGGCACTGTACACCTACCTTAGA	24665	GACATATTAACCTTATAGCCCAACCTT	35649
2024	CTGGAGCCTGAACCTTCTGCTT	13682	GTCTACTGTGTACGCTGTGCTT	24666	CCTTCTCACTGGAGCCTGAAC	35650
2025	ATGCCGGAGCTGTCTCTAA	13683	GGGTGTGCTGAGACAGATGCAAA	24667	TCTGAGCCTTGCTCTCATCTACA	35651
2026	GGGAGTCTCTTAAGGCTGCAGAA	13684	GCTCCTGGCCTGAGTTAGCAA	24668	GTTCTGTGTAGGTGGGAGTTCTCT	35652
2027	GACTGGTGTCCAGATGTCACT	13685	CCATGGATACTCGGTCCATTTCAAG	24669	CAGACTAAATGATGTGACTGGTGTTC	35653
2028	CGATCAGAACTATCCATGCTCTTG	13686	GGAGCGTGAGAATGAACCATGA	24670	CCAGGCCTATCCTTTATCTCCGATCA	35654
2029	GCATTGCTGTTTGTGATGCAATAGT	13687	GGTGTGACTTTTCCAGGCTAGT	24671	CCTCTTGCTGCTGTTTGTCA	35655
2030	CCCACTGCTCTTATTTTGGGTTATTG	13688	GGCCTTTCGTGCTGTGGAATTTG	24672	CCGCTCCCACCTGCTCTATTTT	35656
2031	CCTAACAGGTCTGGAAGGCTCAA	13689	GAATATCTGAGCCACCTGCTCTT	24673	GGTGAACATGAGATGGGCTCCTAAC	35657
2032	GCAAGCAGCTTTTTCACGTTGT	13690	GGACTGCGACAGTTGTGAGA	24674	TTAGCCTTGACCGGGGTCTGA	35658
2033	CAACTCCTTTTACCCCTGGAGATTC	13691	GAGATCTCCCTGTGCTGAGAT	24675	ATCAGGCAGATTTCAACTCTTTCA	35659
2034	GAACTGTACGGAAAGTGAGCTGAAC	13692	TGCCACCTCTCAACCTTGT	24676	TTCCCTGGCTGCAGAAT	35660
2035	AAAGAAAGACTGGAACGTGAGACT	13693	CACCACCTTTCTGTCCAGCTT	24677	AGGGCTGTTTGGGAGTAAATTTCA	35661
2036	GGCTACCTCCACAACACACATC	13694	AGTAAGTAAAGCAGGAACAGAGCAT	24678	CAGTGATTGGCTACCTCCACAA	35662
2037	AGGGACCCTCAGGTGATGT	13695	AGGCCGTGAGAGGATTGTT	24679	CACCTTGCCCTCCAGTTTATAG	35663
2038	GCGAGAGGTAGGAACGTGTGCTT	13696	CCAGCCTTGCCTGTGTGTTG	24680	TCTCTATTTGGCGAGAGGTAGGAA	35664
2039	TCCCCTACTGGGACTGTTTT	13697	CTCCGGAAATCTGAGCCATGTTT	24681	GGAGCCACATTAAGTCCCCTACT	35665
2040	GCCATGCAACTCTATCACTCACA	13698	GGGATTGCTAATGCCACGTGAGA	24682	GCCACCATGCCATGCAACTCTA	35666
2041	GCTATTGGCAGATGCAGACATTCA	13699	CAGAAGGAATCGGGCCATGTGT	24683	AGCCGCATCGCCATGTATGA	35667
2042	CACACAGGTGTAGACCTAACTGCTA	13700	CAGATAAGGCAGGTGAGGCATT	24684	CAGGACCGTATACGAAAAACACA	35668
2043	TGCTGGGTGCAGAAATTAACAAG	13701	ACCAGATGTCTGGCATTCATTGT	24685	CTGTATTGCTGGGTGCAGAA	35669
2044	CCAGACAGAGTGGGAGGTTATAGAGA	13702	GGCTCATTTCCAGCCCTTTCT	24686	GTGATGGTGGGTGTAGCATCTTC	35670
2045	GGAATGCAAAACCTTGAGCCAAA	13703	TAGGAGAGCCGAGGTCAGACT	24687	CGTGTGGAACCTGAATTGAAC	35671
2046	AGGGGAGTTTACACACAGAAAA	13704	CCAGGGGAAGATATTTAACTCCAGAA	24688	GCACAGACAGAGGGGAGTTTCA	35672
2047	CTCTAGACCTCACGAGCACAAGT	13705	CACTTTCTAGCCACGGGATTCT	24689	CCCGAGAGAAGACAAGGGTTT	35673
2048	AGGACCCAGCATCTTCTTTG	13706	CCAGCGAGAGAAGTTCAAGTTGTA	24690	CCTCGCTAAGGACCCAGCAT	35674
2049	TTCTCCCTAGAGGAATACAACCTCAT	13707	CTGGATGCTCAAGGGGTATT	24691	AAGGCTGGGCTTCTCCCTAGA	35675
2050	AGTGGCTGACACTTTTGACAGA	13708	GAACAGCACAAACCTTGACT	24692	ACAAAGAAATAGCAGTGGCTGACA	35676
2051	CTTGCTATGAACCTCCATCACTTTCT	13709	GGGCAGAGGGACGGAAGAT	24693	GAAAAACCTGCTTGCTATGAAC	35677
2052	ACAGTGCCAGAGCTCACAA	13710	CAGGATCCGGGGCACTACTT	24694	GCTGGGAAATGAACTTGAAAGGATTAG	35678
2053	GCTCAAGGGTGTGGTGCTTTCT	13711	GTCAAAGGAAGCTGCCCTAGGTA	24695	GCCACCAAGCCAGAGCTCAA	35679
2054	GGGGTGGTGGGTAAGTCTGCTGT	13712	GACTGGAGATGTGGGCTTCTT	24696	GCCACCTACCCGGATACA	35680
2055	GCCTGGGGCTACAACCTTTATGA	13713	CCACTGAAGCAAAAGGCTGTCAA	24697	ACACTGCTGGGGCTACAA	35681
2056	TGTTAGGGCTTCCTCTTGACT	13714	TGTTGGCACCACTATTGGTTT	24698	CAGTAGGCAAGGGATGGAGTGT	35682
2057	GGACTACTAAGGGGCATGGTTAGA	13715	TGTCTTCCCAGACCTCCTTT	24699	GGCTGGATGACCATGGACTACT	35683
2058	GACTGGATGCTGTTTCAAGTAAATTTGT	13716	TGAGTGTCTTCAAGTCTGCTT	24700	CAAGGGACTGGATGCTGTTCA	35684
2059	GGAGATGCACTGGTGAGAACCTT	13717	GATGCCACAGAGAGTCACTACTA	24701	GGAAGGCCATGGTCAAGGAGATG	35685
2060	GGCCCTCTCAGTTGAAGAAAG	13718	GCTAGGAGATTTCTGTGCAACA	24702	AGGACAATGGCCCTCTCAGT	35686
2061	GAGAAAGCCCACTTGAGAGACT	13719	GCCCAAGGACGTGTGTCAGAA	24703	ACCTAACCCACCAATTGTGAGAAAG	35687
2062	GGTGCAAGACTGATAAGCAGAT	13720	TGCAGGGCTGCCAGTGCTT	24704	AAGGCTGGGTGCAGGACTGA	35688
2063	CTTGCCACAGATCCACTCAGA	13721	CCTCCCTACCCAAGTGGCTACA	24705	GTGTAGTCAAGCTTGCACACAGAT	35689
2064	GCCTGTTCTCAAGCCCAAGTTT	13722	AGGAAGCGCCCATATGCTT	24706	GACAGAATCCTCGCGTTCTCAA	35690
2065	CAAGCCAAAGCCACCAATTAC	13723	GGTATGGTTGTGAGTGCTGGTT	24707	GTGGGAAACCTCAAGCCAAAG	35691
2066	GTACACGGGTAGGGTTGTTTTGT	13724	GTGCTGTGATCAGACTGCTTACATT	24708	CTGGTTCTGTCTGTGACGCTA	35692
2067	CTGGGGAAGGGACAGGTTGAA	13725	CTTGGCTGAGCCTCCTTTGA	24709	GGAAGCATATAGGGCTGGGGAAG	35693
2068	GAGATTGGCAGTCCAGTGTGT	13726	CACGGATCTGTGCTGCTTT	24710	GGCCACAGCTGCTGCTTCA	35694
2069	TGGAAGGGTTTGTAGTGGGTTTT	13727	GTGAGGCCCTCTCTCAAAAGAA	24711	TGGTGGATTGGAAGGGTTTGA	35695
2070	GCTGAACGTCTGCACTTCTTAC	13728	TGGGCAAGCAGTGTGATGA	24712	ACCCGTGACTCTGCTGAAC	35696
2071	GGAACACATAAGGCCTGAGGGAAT	13729	CTGCACGTCCATCACATCCTT	24713	CTTCTCTGGGAATGTAGGAACACA	35697
2072	GGCACTGTACTGGGAGATGAAGAA	13730	TGATAAATCTTGAGGCCTAGAAC	24714	CCATCTATTTATGTGAAAGGCACTGTACT	35698
2073	GCAGGACAAAAGCCAACCTGT	13731	CCTAGTGCAATGAAACCTGAA	24715	GCCATGGATCTAGCGCAGGACAA	35699
2074	CCCCAGTGATTTCCGGTTGA	13732	GAGATGTGGGTAGGTGAGAGAGAAG	24716	ATGCGCTGCACCCCACTGATT	35700
2075	GGACCAACCAATGACCAGCAA	13733	GGGTGCAGACACATGGGTAA	24717	GGAATCCAACAGGACCAACCAAT	35701
2076	GGTGGTCCCCTTGCCAGTTT	13734	AGGGGATCAAGATGTGGCTTTTAG	24718	GGAGCTGCAAGGAGAAGGAGAACA	35702
2077	GCTTCTCATCGTTGGGCTTGA	13735	CTGAATGCCACGACACCTCACT	24719	GCATTAAGTAAAGGGGAGCTTCT	35703

2078	CCCTGGAGTACCACTCTCTAT	13736	CAGAGCAGAGATGCTTCAGAAACAAA	24720	GCTCCACCTTCATCCCCACAT	35704
2079	GCAGCACTCGGCTCAGAGTAGATA	13737	GGACACGTCTCTCCGTTTGAA	24721	GCATCTTTCCACAGAGCACCTA	35705
2080	TGCTCGGATCACCAAGTGT	13738	GGACAACCTAACGCTGCCACTCT	24722	GGAAGATTGCCAGAACAGGAAA	35706
2081	CGAGGGGCTGAAGACTTAGAA	13739	CACGGAGTCTCTACCCTGTCATC	24723	AGGTTCCGAGGGGGCTGAA	35707
2082	GGTTTTACACAGGTGAGGTTGTGATG	13740	GTGCCAGGGGTGCCAGCAA	24724	CCTCACTTTCTCTGCCAAGGTT	35708
2083	AGGAATTGCCCTGCAGCCTATC	13741	CTGGGATTCCTCACCTCACCTT	24725	CTGCAGCTTCGTTTTGTAAGCAGTA	35709
2084	CACAAGTCCCAGAAAGAAAAGGTGTT	13742	ACTTCTGACCAACAAGCAGTCTAC	24726	CAGGCAACACAGTCCCAGAAG	35710
2085	CACAGACGCACAGTATACACCATAG	13743	CTCACAGCACAGAAGTGGGATGA	24727	TGGAGATGACACAGACATAAACACA	35711
2086	GGCACATGGTTCCAAAGGTGGTA	13744	ACGGGGAAGTGGGTGAAGAA	24728	TTCCCACCCGGCACATGGTT	35712
2087	TTCCCAGGTGGTCACGCTATG	13745	TGCTGCCTTCTCGGCATTGA	24729	TGGGTCCTGAGGGTGACAA	35713
2088	GGACTGTGCCACCATCTCTGTAG	13746	AGCTGCACCGGACGTTTGT	24730	GGAGGGAAAAGGGATTGGACTGT	35714
2089	CCAGTTGAGAAGGTCCCAGTCTCT	13747	GGAGCAAAGCCCTCGTGCAT	24731	GCTTCTCTCCCATGGCCAGTT	35715
2090	GGGAGGCCAAGAAAGCTGCAT	13748	CAGGGCTCACTGCTTCAGACAA	24732	GGAAAAATGGAGCCGATGGAGATG	35716
2091	CCTAGTTATTTCTTGCCACACTTTGA	13749	CTGGAGGGGCTCACACACTA	24733	GGAACTCTCCAGAACCTCCTAGTT	35717
2092	GTGACCTCGCAGCCTGAAG	13750	AGCAGCCGCTCCATGTTACT	24734	CTGACAGAAATTGGCCCCAAAC	35718
2093	ACCCACAGTACCCACAGCTT	13751	CCAGGACAGAGGCAGATGCAAT	24735	GCATCTTTCCCAAACTCCTACCTT	35719
2094	GCCAGTCTCTCTGCGAAGT	13752	CTGCAGCTCAAGTCTTCTCACT	24736	TGGCACGGTCTCCAAGAA	35720
2095	CCTTCAGAAAAATCGGCCTTGTGT	13753	GCAACCCATATGCAATGAGACCAAGT	24737	GTGACCTGCTGCTCTCCAGAAAA	35721
2096	CAGACCCAAAGGTCCCAGTTG	13754	ACAGTGCCTTGAGGAGGAAGT	24738	TGCTCCAGAGCCAGACCCAAA	35722
2097	GGCAGACAAGCAAGACAGCAA	13755	GCCAGCACTTCAAGCAGGTT	24739	CCCAGCTAAAGCATGGCAGACA	35723
2098	GTCTGAACCAAGAGAGCTCTATCCTA	13756	GTCTCTCAGGGCATTCTCTGT	24740	GCAGGCTGACGTATGTGTCTGA	35724
2099	GCCACTGAGGTTCTGGTCGTT	13757	CCCGCTTTTCCCATTCTCTACT	24741	GGGTTTCATGCCACTGAGGTT	35725
2100	CAAGTTTACTGCAATGGTGAGTCAAG	13758	TCGTGGAGGTCCGGGGAAA	24742	CGCTGCTTCTCCACACCAAGT	35726
2101	CTTGGGAAGCAATGAGGCAAGAAG	13759	TGCACCACTCAGTCGGAATCTA	24743	CCTCTCTGAGGTCTTGGGAAGCAA	35727
2102	GCTGCTTGTACACTGTCTCTCT	13760	AGAGGTGCTCTCTCCATCTT	24744	GGCGGATTGGATTAGCTGCTTGT	35728
2103	TGCTACCCCTTGTGACCAGGAA	13761	GGGCCCTCTGATGACCTTCTT	24745	CAGAGCATCAAAATGCTACCCCTGT	35729
2104	TGAGGCCCAGGTGTTGTTCTCA	13762	CTGGGGCTAGACAAGTGACCAT	24746	AAAAGGCACAGCCAGTCCAA	35730
2105	GCCAGTTGCTGGCTACAGTGAA	13763	CAAGAGGCGTAGAAGTGCACTA	24747	TCAGTACTTACTCCCTGCCAGTT	35731
2106	TTCCATCTAAACATGGCCTCATACA	13764	TGTCCCTGCCAAACACTGA	24748	CACCATTGCTCTATTCCATCTAAAC	35732
2107	GCCCTGCTTTCTGCATCTCTGT	13765	CTGGTAAGTCAACCTCTTGGTCTT	24749	GGTCTCAGTAAGAATGCCCTGCTTT	35733
2108	AGCAGCAGCATCCAGCACTT	13766	CTGACTGTGGCCAATCCACTTG	24750	CCTGCCTGGTGTTTCAGTGTCTAG	35734
2109	CCTTAAGTAGGGACAGGTTGGACTT	13767	AAAGCAGAAGTACAGGCTCATCA	24751	GCAAACTACAGTGAGGCTCTTTCAGT	35735
2110	CAAAGGCTCAACTTTTGACCAA	13768	CGAAACTTCCAATGGACACCAGAA	24752	CCTGCAGAAATCAAAGGCTCAACT	35736
2111	CAGAGACAATGATGGGGCTCTTC	13769	AAGATGGCCAGAGCCCCTGTAG	24753	CACCAGGGAAATCAGAGACAATGATG	35737
2112	GCCAGGCCACTGTGTGAT	13770	CCAGAGGAGCTCAGGGATGTAT	24754	CCCCTTGGGCATTGGCTGAT	35738
2113	GGTGTGAGTTTTGTCCCTGACTA	13771	CTGAGGCCATAAGCCTATCAGT	24755	CCCTGCTGAAACCAGGTGTGAGTT	35739
2114	GGGGCCTTTGGGAAGACACT	13772	ATGTCAGCCGATTCTCTTTTCT	24756	TCTGCTACATGGGGCCTTTG	35740
2115	CCATGAGTTGAGTGCCTTGTAAGTGT	13773	CCTGCCACTCCCCAAGAGAT	24757	GGTGAAGGAATCCATGAGTTGAGT	35741
2116	GTTGGATGCTGGTACTCTCAGCTA	13774	GAGTGGAGTTGGGTCTTCTCTGA	24758	GCTCCAGTTGGATTGCTGGTA	35742
2117	GACTTACCAATAGAAGGGTGAGTACA	13775	CCCAGTCCGGGAGGTTGTTAC	24759	GGGCTATAGTCATTGGGTGGATGA	35743
2118	CTGGCATTGTGGGGACAGTCAA	13776	GCGGAGGGAGACTCAGAATTGCAT	24760	CATCAACACAGCCCTGGCATT	35744
2119	CACCAGTGGGAAGAGACTGAGATG	13777	GCAGCTACCTCCCTGCAGTTTT	24761	ATGGCCACAGTGGGAAGA	35745
2120	GGTGTGAGATCTCTGGCCATT	13778	GCCAATGCCCACTAACACACT	24762	TGAGTGAGGGGTGTCGAGAT	35746
2121	GCTGGAGGCAGGTTCACATTTTG	13779	TGACAGACAGGCATGAATCACA	24763	TAATGGGAGGCTGGAGGCAGGTT	35747
2122	ACTCCACCCAGCGTGTCTATT	13780	GGCCGTTTTGCCAAAGTAG	24764	GTCTAAAATGAACCTGCCCAACT	35748
2123	GTATAGGAAGTCACTGGTCAGCAA	13781	TCCGGAGCCAGTTCGATCA	24765	GGCTAACAGTGCATTTGTGAAA	35749
2124	CAGACCCTAAGTGGCATTTTTGAGAA	13782	CCTGTTCACAGAGCATTCACT	24766	AGGAATGGGACAGACCCCTAAGT	35750
2125	CAACAGGTTCCATAGGCCAGAATTAG	13783	GCTTGCACTGAGGAGTGAGT	24767	AGCCCTCAACAGGTTCCAT	35751
2126	CATCCAGCTAGCAGACACTGAAG	13784	CCCCTGAGTTCATGGGCTTGAT	24768	GCAATTGTCTAGTGTATCCAGCTA	35752
2127	TCAGCTTCCATCTCTGCTTTG	13785	TGCAGAGAGGCCCGTGATG	24769	CCTTCAGCCCTCAGCTTCCAT	35753
2128	TCCTTTTGTACCTGAGCTTGTT	13786	GCAGTTAAGAGGGTACTCTGCTGTTG	24770	GTCTGCAAGAACTGGCTTAAACA	35754
2129	GGTTGAAGAAGGGATGCGATGAA	13787	GGCCACACACGAACATTACAA	24771	CAGTTGTAGCTGAAATCAGAGGTTGA	35755
2130	GTGAGCCATTACCTGGGTTTGA	13788	GGGAAACACACATGTACTTTGAGCAT	24772	TGTGACAGAAGTTGTGAGCCATTA	35756
2131	TGGATTCTGGCAAATGCATGTCT	13789	GCTCATGGCTCTCTGCACTTC	24773	CTCCTGCCTGGGACAATTGTAATG	35757
2132	CCAGAAATAGCTCCTGCTCCAA	13790	CCTTATCCTTGAAGTCCCGTAA	24774	CATCACAGCACATGACCCAAAG	35758
2133	AAGTGAGACGGGTGCCAACT	13791	ACCGCTGCATCTGTGACT	24775	GGTCAGGACGTACGCTTTGGATTA	35759
2134	TCCTCTCTGGCCAGTGGTTT	13792	ACAACAGACGAGTTTATGTGAAGA	24776	TGGTCAGCCCAGGGTGATTT	35760
2135	GCCACAGTTCGGGCTTGACT	13793	GTGAGAAACAACTGGGGCATCA	24777	TCAGGTAAGTCTGCTGACAGGAA	35761
2136	CCTTCTGGATCACCAGGTCACT	13794	GGTTGGCTCTTGAGGACATTGA	24778	GGCTTCTCTCTCCAGGTTTCCTT	35762
2137	AAGCATGCCAGCTGTGGTT	13795	TCCATGAGGCACAGCGAAGT	24779	GCGCTGCTGGAACTAAAAAG	35763
2138	CCTGGCAGTGAAACTATGGGGATT	13796	CTGGGAGGACTAGGCTGAAG	24780	GCTGGCCTGGCAGTGAAACT	35764
2139	CCCGACTAAGTGTAAGCACTCAA	13797	AGGCACCAGTACAGAAGCTA	24781	TCCATGGCCCCGACTAAGTGTA	35765
2140	CCCTGATTATGCCACAAGTCATCT	13798	CTCAGTGTCTGTCTCATGGTT	24782	CCTGCATCGGAATCCCTCTGATT	35766
2141	TGGAAGAAACTGCTGTGCAACT	13799	GATCCAAGCATTCTGCTGATAATAGA	24783	GGTCTGTGTTTTCAGTGGAAGAACT	35767
2142	CTACAGTTTGGATGTGAGGCATTG	13800	ACCTCATGCCATCTCCCCACTT	24784	GTCCCTGAAACTACAGTTTGGATGT	35768

2143	GGAAGCAAAGGTCTGGTTCTGA	13801	GCAGAGGCAGTTAAGCAGGAGGTA	24785	GCCTGGCTGTTTGAAGGAA	35769
2144	GCTTTGCATATCCCTACTACTGCAT	13802	CCACTGTTCCTTAGCTATGTGAGT	24786	GCACCTCCACAGAGTGCTTT	35770
2145	CAGCTTGTACCCTGGTAGGGAATG	13803	TGGCTCAGCCTCCCTTTCA	24787	GAGCACCAGGAAACAGCTTGTA	35771
2146	CTGTGACTGCCTTGTCTCCATCTTC	13804	AAGCCAGGGAGGTCGTGCAGCTA	24788	GGCTCTGGCTCTGTCTTCATTG	35772
2147	GGGCTGCAGGAATACACAACA	13805	GAAATCTGCCAGCACCAGACA	24789	GGCATTCTAGGGCTGCAGGAA	35773
2148	CAGGGCTTTACAACCCCTGAA	13806	CCCAGCACTGAACTGACACA	24790	ATGGCCAGGGCTTTACAAC	35774
2149	CCTGCAGCAAGAGCAGTCCTA	13807	CGCCCACTCTGAACCACGTAA	24791	TTCACTGCCCTGCAGCAAGA	35775
2150	CCATTGGGCGCTACGGCTTT	13808	ACTGGAGAAGCCGCCATGTAG	24792	CAGCTCTCAAACCTCACCATTG	35776
2151	CCTGCCTCCAAGTGAGAAATCAGA	13809	GCTGTCTCCTTTCTGCCAAGA	24793	GCTTCTCATTCTGCCTCCAAGT	35777
2152	GCCCGCCATGGAATTGATTCT	13810	GGGAAGCAGGTAGGGAGCTT	24794	CACAATTGCCCGCCATGGAA	35778
2153	GCTGCGCACTCTAAGCCATCTT	13811	GGCTGTGAGAAGCATTGGGAAA	24795	ACCCAGGCTGGCGACTCTAA	35779
2154	CCCTGACATCTGGGAGTGA	13812	GGGGCTGGGCAAGTCTTAGAA	24796	ATGGCCACACACCCCTGACAT	35780
2155	GCACCTGTCCCAACCTCAAT	13813	CCCCAGAACGTGGCCTTTG	24797	GAAGGGTGCCATTGTCTGA	35781
2156	GGAGCCATTGAATCACGTTCA	13814	TGTCCAAACCTGCCCTGAAAG	24798	CCAGGAGAGGGAGCCATTGAATC	35782
2157	GAGAGACAGGAAGGACCACTGT	13815	TGGGAGGCCAGTGTGAAGT	24799	GAGCTGGGAGAGAGACAGGAA	35783
2158	AGTAACTTGCAAGGGTTTCTGA	13816	CCTCACTCTTCAGGGACAATAGACT	24800	GAGAAATGAGTTATAGAGCCATCGAGTA	35784
2159	AGGCAAACTGGATCCCTTAC	13817	CTGTAGCGAAGCCTTTGGATTCT	24801	CGAGACTCAAACGGAGAGGCAAAAC	35785
2160	GAGTGTGAGCCCATGTCTGTA	13818	CTGACCAAGGAACCTCACTCACA	24802	AACCAAGTGAATGCCATGAGTGT	35786
2161	AAGCACCAGCATGCATGTGTAA	13819	TGCTGAGCCACTGGGATACA	24803	GTCTGCAACAAGCACCAGCAT	35787
2162	GACATCCCAAGAAGGTCTACAAGT	13820	GAAGAGTAAGCAGAGAGCAGGTTGA	24804	GGCGACATGGTCTGAGGATGAA	35788
2163	CCTGGGTGAGACCTTCCCTTCA	13821	GGGACCAGGAACGACACAAC	24805	TAGAGGCGTCCCTGGGTGAGA	35789
2164	CCCAGCATGGTCCAGAGTCA	13822	GCAGGATGGCCAACTCTGTGT	24806	AGAGCACCCAGCATGGTT	35790
2165	AACCGGAAAAAGGAAGCATACTCA	13823	CGCCCTGGTTCCTCACTTCTGA	24807	ACCTCAAAACCGGAAAGGAA	35791
2166	GTGACACTGCCGTCATCATTC	13824	GCAGGTGGCATGACTGGACTTT	24808	TTTGGCAAGCCCACCACTGA	35792
2167	GACCTTTCAGGAAGAGCTTGT	13825	CTTTGTTCAAACCTGAGCCATA	24809	CGGGACAGAAAAATCCGTAAAGAAAGA	35793
2168	AGGGCCAGGTAGAGGTAGGAGTTA	13826	TCTGCTATGCTGTTTCTCCAA	24810	AGGATCAGGAGGGCCAGGTAGA	35794
2169	CGTGCCCACTGCTGCTTTAT	13827	GCCCAATGAGGAGGAATGGATCA	24811	TACCACAACGTGCCAGACT	35795
2170	CCAGCTCTTCTCTCGATCTTTGT	13828	AATGCGGTCTGAGTGGAA	24812	CAGCTCTGAATGTATCCAGCTCTTTC	35796
2171	CTATCAGATTGCTTGTCTTTGCTT	13829	GTGTGTGCTTCTGGTCTCGAT	24813	GGTAGCCTGGGAAGCTGCTAT	35797
2172	GTCAGGGCCTTACATTCTCGACAT	13830	GGACCTGAGAGTACCTGCACTT	24814	AGAGTGGTCAGGGCCTTACAT	35798
2173	CACCTCTAGGCATCCCCACAAA	13831	CTCGGGTGCAATTTGGGTCTGAA	24815	TGACTCCCCAGGCACCTCTA	35799
2174	GAGCCACAAGCATTAACCTTGAAC	13832	GCACTAAAAATCCCTCTGCAT	24816	CCTCAGTGAGAGGCCACAAGCGATA	35800
2175	CAGCCACACTCCTCATGCTT	13833	TGGGAGGGTAGGAGCGTGTA	24817	CTGCTTTCCAACAGCCACACT	35801
2176	GTCAGGCTTGATTCTCAGTCT	13834	AGCTTCACCAGAGTCACGTTTC	24818	CCCAGGTGTCCAGGCTTGATT	35802
2177	CCCTGTTTCTGCTGCCTTGAT	13835	ACACCAGCCATGCGCCTAAT	24819	TGCTCAGGGTCTCCCTGTTT	35803
2178	AAGCCAACCTCAACTCGCTGTA	13836	CCTACATGTCTACAAGCCACCAT	24820	GACTGTGGGAGAAGCCAACCTCA	35804
2179	CCTGATGGAAGCATGGGAATGT	13837	GCTGTTTACGTGGCTCTGCAT	24821	GCGGAAGGATAAAGGGTCTGATG	35805
2180	TGTGGCTAAGACGTCTGTGTTG	13838	GGAGTCACAGCTGGTCTAATG	24822	CGGAACCAGATAGTTTGTGGCTAAG	35806
2181	ATGGTACCTGGACCGTGCTT	13839	TTCTGGCCAGTGCTGTGT	24823	ATCGGCTCCACCCACCAT	35807
2182	AACTGGGTTCTTTGCTGTCA	13840	CATAGGTGGGTGGGTGGAA	24824	GGAAGTGGTGTGTGGCTTCAT	35808
2183	CCACCATGCCAGCTAGAAA	13841	GGCCCTTTCCCTGCTCTTAT	24825	GGATTATAACTGCGTGCCACCAT	35809
2184	AGGCCAGGCCAATTTACCTA	13842	GGCCAGTGGGCTGTTTGA	24826	GCTTTGCTAAGGCCAGGCCAAT	35810
2185	GCACCATGGTAGGTGTTGAGGAT	13843	GCAAGAAACAGGTTGGTGTGT	24827	GCACATCTACAATATGTTTGGCACCAT	35811
2186	AAGTCAAGGCTGGGTAGGTAGA	13844	AGAGAAGCCATTCACAAGCTGAT	24828	GCACGGGCACTGAGAAAAGTCA	35812
2187	CAGTACTGGGAGGTGGTTTCT	13845	GGCCAGACAAAGGCAGGACATT	24829	TGGCCTTTGCCCTCAGCTACT	35813
2188	CACCATCAACCAAGCCTAGTTT	13846	CAGCCTTGCCCTGTGTCACT	24830	TAGAGGCACCCACTCACAA	35814
2189	TGTCTGCGGCCTCTAAGTT	13847	CCCAGAGTGGTTCAGAGAGCTA	24831	CGGGCAATTCCTCAAGGCTTAGT	35815
2190	AGCCCCAGTGTCTCAGAT	13848	GAAGCCAGGAAATGACGTAGGAT	24832	TAGGCTGGGTCTCTCAGT	35816
2191	CTGTTTACTCAGAGGCACTTGCTA	13849	CACACGGTGGATCAGCCTTT	24833	CTGCTTCCCTCTGAGCTGTT	35817
2192	GTTTCAGGGGTTAGGTGACAGTCT	13850	GCGCTCCAGGGATTTTGATTG	24834	CTCCAGTGTTCAGGGGTTAG	35818
2193	CCCCTGAACCCCAATTTGACAGAGA	13851	ATCTGGGCCCTTCTCTGA	24835	ACCTGTCCCCTGAACCCAAT	35819
2194	TGAGAAAGGGGCCACCCATCA	13852	TTCCTGTACCTCTTCTCTCAA	24836	GGTGACCTCATTTGGAGTTGACCTT	35820
2195	GTGGAGATTCCGCCAGGTGTT	13853	CCTCTGATGGACTGCCAGGTA	24837	GGCTAGAGGAGGTGGACAGGAT	35821
2196	ACCTCCAACGCCGAACACT	13854	GACGGGCGTTTGTCTCTTGA	24838	AAGTCCCGCTGGTGTTCAT	35822
2197	GTCAGCTCCACCTGGGTCTTTT	13855	TGCACTACTGGAGAGGTGCAT	24839	CTGAGCTGTGTCTCCAGATG	35823
2198	TGCTTAGGCCATTGCAATTC	13856	TGCTGGTGCGAGGAGAGA	24840	GCAGAGCGTTGCTTAGGCCATT	35824
2199	CTTGAGAGTGGCCTTGGAAGT	13857	GACAGCCCAACACTTCACTCT	24841	GCCCTTCTGGATGACAATAAGGTCTGTA	35825
2200	CCCTCGCACATGGCTGAAGAAT	13858	ATCCATCTCTGCTCCCGTTTC	24842	TGACTGTGTCCCTCGACAT	35826
2201	TCTGGGCGATTGGCAGTT	13859	GCTTGGTGTGTACTGAACCTCTA	24843	TTTTAGTGCCACAGGTGGATTG	35827
2202	GATGCCCCATGCTCCTGTGT	13860	CAAGTTCCTCAGTGAGGCCATT	24844	GAGTAAAGCAGGGAGCAGCAT	35828
2203	GGATACCATGGCTTTAGGCAAGT	13861	GCTGCAAGCAAGAGACCATTTTC	24845	CCTGAAAGCCTGCGGATACCAT	35829
2204	GCTGTCTGCTTAGGGTTGGTCTCT	13862	TGGCTTCCCAAGAGGACAA	24846	GCTCGCACATTGCTGTCTGCTT	35830
2205	GACACAGCTAAGCCCATTAAC	13863	GGAAATGTGTGTCTCCAACCAT	24847	CGGCCAACCTTAGACACAGCTA	35831
2206	GGTTTCCCGCTCAGAGTTGA	13864	CCTCTCCTGTTCCGGAGTGTTT	24848	GCAAAGCGAGAGTCTGCTA	35832
2207	TGTGACGATGGCCTCAGTTC	13865	GCAGTAGCGACTTACCCACAGT	24849	CTGGCATCTTCTCCTCCTT	35833

2208	GGGCTCCACTACTTACTGGGTTA	13866	CCTCCTTGCAATCAGCTTTGGTA	24850	AGCAAGCATGGGCTCCACTAC	35834
2209	GGGTCCCGGAGTTAGTAATGTTG	13867	GTAGACTTACTCTGAAGTCCACGTT	24851	TGCATAGGGTCCCGGAGTTA	35835
2210	TTGGACCTCACCTTCTGGTTTTT	13868	GATGAATGGGATGGTGACCTTTCT	24852	TCTGGCTTTGGACCTCACCTT	35836
2211	CCTCTGCTAAAAATGCACTCCCTTCA	13869	CGGAGGCCCTCTAAGTCAGT	24853	CAGTTCAGCTCCTTCTCTGCTA	35837
2212	GCCTGTGGGAGTCAGGTGAGA	13870	AGTGGTCACTCTGGGCGAGAT	24854	CTGGGAAGTAAGCAGGCTGAGA	35838
2213	TTCATCCCCACCTCCCCATCA	13871	TGGGACATAGAGTGACAGGACTT	24855	TCCAGGCTCACCCACTTCAT	35839
2214	GGCCTGTGTGTAGGCATGCAA	13872	ACAGGAGCCAAACCGTACT	24856	CAGATTGCCAGGGAAGTGACA	35840
2215	CCAGGGGCGCTGAACATCTTT	13873	GACCACCAATTTCACTAGGGTTTTATG	24857	GAACCAAAGCATCAAGAAGGAAACT	35841
2216	GGTGATAGCAAGGCCAGAGTTCTT	13874	CAGGAAGGAAGCGATGAACCTGA	24858	GGCCTGTTGGGTGATAGCAA	35842
2217	CCAAATGACTTGGAAACAGGAGTTTGA	13875	AGCAGGGATTGGCGAAGACA	24859	GGAGCAAAGGGAACCAAATGACT	35843
2218	CCAGCCCTGATTCTGGCATTGA	13876	GGCCAGTTGCTTTACCAATGT	24860	ACCTGGCTCCAGCCCTGATT	35844
2219	GGGCTCAAAGCTGCCTTTATC	13877	GTGCTCCCTTTGAAGAACTGGATT	24861	GCAGGCACTGGGCTCAAA	35845
2220	GCTTCTGGAAGCCTTCGTAAC	13878	TGTGGAGAAGGGGTCTCTATT	24862	CCTTACTTCTAGTTCCTACTCAGTTCT	35846
2221	GGTCTGGTGCAGTATCACCATA	13879	GCTGCCATCAGCTTTTCTGTGAT	24863	AGCTGAGTCTCTGGTGAGTA	35847
2222	TCAGCAGCCCTGGTGAT	13880	GGATCAGCATGGAGACAACCAA	24864	GTGACACCAGCAGCTTCCAAAC	35848
2223	TGCTGGTGGATTGGCTCTACT	13881	CAGTGGGCTCACCGTAGCTT	24865	GGGCAGACTATGCTGGTGGATT	35849
2224	AGCATTAGCACTGTGAGGCTTT	13882	CGGATTGTTTTCCAGGTACAAAGTGT	24866	CAGCTGGGCATCTAGGAAGCAT	35850
2225	CCTGGAATCTCAGGATAACAAAGGAA	13883	GTTCCTTTTGAGCAGGCTTGCTAT	24867	CACACAGTCTTCCCTGGAATCT	35851
2226	CACAAGTCTGCCCTTGCCAT	13884	CAGATGGGAGAACTGCTCACA	24868	TGGGCCCAAGTTCACAAGT	35852
2227	AACTTCTGGACTGC AAAAGTCA	13885	GCAAGGAGCAATGAACAGCTACTA	24869	GCAGAAATGCTTCCACCAACTTC	35853
2228	TGGTCCAAATTCAGGGCCACTCT	13886	TTACAGGGAGGACTGGAGTTA	24870	GGGCATGAAGGCTGGTCAACT	35854
2229	GCAAATACTGCCAGAACAGCAA	13887	AGACAGTAGCCAGCTTCAAAAACT	24871	TTTATCGGAAAGGGGAGCAAACT	35855
2230	AGCTGGCCCTTGGCACTTGT	13888	CACAACTCAGCTGCATCTGCTCTA	24872	CAGCTCTCTTTCCACTCTGAATC	35856
2231	GGTGCTTGAAGCAGGTGTT	13889	AAGCCACCTGGGAACCAT	24873	CTGGAAGGTAATGGGAACTGCAA	35857
2232	CCCAGCACCGGTGAGTGTTT	13890	TGGGGTAGGAGGAGGACACAGTA	24874	GGTGAAACGACGGGGATGTTTAC	35858
2233	GCTCTTGCTACTACAAGGTCATC	13891	GGAAGCCATCAGCATGTGGAA	24875	GCCTCTATGCTCTTGCTACTAC	35859
2234	ACGCAGCAGTAAGCGTGCAT	13892	CCCCAACCACTGACACA	24876	TCAGTGGCAGCAGCAGTA	35860
2235	CTCCCTACACCAAAACAGAGGATAC	13893	AGCCCCAGTTCACGTGTGATG	24877	CTCACCTCCCTACACCAAAAC	35861
2236	TGATGAGAGGTGTGAGTGCAATTA	13894	GAATCACCCATGCAGCTGGTA	24878	TCCCAAAATGATGATGAGAGGTGT	35862
2237	TGGGTGCAAAATCACTGAGTAGT	13895	CCCTATTGTGCCCCAGATTGA	24879	AGGAAGGAGAAAAATTATGGGTGCAA	35863
2238	TGCGCTGGTGTCACTGATGT	13896	CTCCTTGACAGAAAGGGCTCAT	24880	AATCAGGACCGGAGCCCCAGAT	35864
2239	TGTCTGACCTGAAATCACAGCAT	13897	GCCTGCTACATCTCACTGTGACA	24881	AAGCCAGAAATGCTGACCTGAAA	35865
2240	GCCATGGATTTAATGAAAGGTGTGT	13898	GAACATCTGGGGTGACAAAAAG	24882	CCTCTAGGAATGTCTGCCATGGATT	35866
2241	CGCACATAGTTGCTGCTGTTG	13899	CCTTCAGGGTCTCTGAGTTCA	24883	GTCTCTGTGACTCGACATAGTTG	35867
2242	GGCTCCTGGGTGATTAAATCTGA	13900	ACCATGCAAGGACACACAATG	24884	AGTGGGCTCCTGGGTGTA	35868
2243	CCGAGAAACAATCCCGTTGGTT	13901	CACAGAAGCGCATCAAGGTTAC	24885	CAACCTTGACCCCCAGAAACA	35869
2244	TCCAGCATGGCCGCTTGT	13902	CCTGCCAGGAAGCGTAAGAA	24886	GGTCTTCTGGCTTACGTGTG	35870
2245	TGCCACGCAACCTTCTTGT	13903	GAGTAAGCCCCATTTAGGCTTTCAA	24887	TGGTTCAGGAATGAGCCACTCT	35871
2246	GTGCGGGGTGCTTTCCCTATAA	13904	AGATGCAGCCAGGTAGAGACT	24888	GCTTACTAGTGCCGGGTGCTT	35872
2247	TGTGTCCGGGCAGAGACTTG	13905	CCCGGGTGTCTGTGAGTAAC	24889	GGGGCCAAGAGCTACTGTGT	35873
2248	GGTAGCAAGCCTCAAAGAATCCAAA	13906	GCAGTGGGGCATTGTGAATC	24890	GGTGGAGGTAGCAAAAGCCTCAAA	35874
2249	TGTGGACAGATTGGCCCAAAG	13907	GGGTTCTTGCGTGGGGTATTT	24891	GCTGGCTAAGCTTTTGTGGACAGAT	35875
2250	GGCTGGATCAACCACTCTTTTTTC	13908	TGCCAGAAGCCAGTGCCAAT	24892	TTCCCGTGGGCTGGATCA	35876
2251	GAGAAAGTCCACGCACTCTGTTCA	13909	GCAGCAAGCCAGGAAGACAA	24893	GCATCTAAATCTTCTAGCGATTGGAGAAG	35877
2252	AGGTGCTGCTGATTGAGTCTT	13910	AGCCACCTGCAAGTCAGGAA	24894	CCAAGACAAGGTGCTGCTGAT	35878
2253	TCCAAGACAAGGGAGCCAGAA	13911	TTAGTCTTCTCTCTGCAGGAAAC	24895	GACCTGAGAAAAAGAGTGTATCCAAGA	35879
2254	ACAGCCCTAAATGAGGACCTGTA	13912	GGTTTGACCCCTGGGAATGA	24896	CTGCATCCAACAGCCCTAAATG	35880
2255	GGGAACCTCTTCTCACTCACACT	13913	TGGGGAGAAAGTCAGTATCCAACT	24897	CCCAGCACAAATAGGGAACCTCTT	35881
2256	CTCTCTTGGAAAGTTCGGTGGATTG	13914	CAGGACTTCTCACAGCCTTAATGT	24898	GCACCTTGCAACCTCTCTT	35882
2257	GGTGCACTTCTTCCCCATTG	13915	GGTATCAGTGCTGTTAGCCATTG	24899	GGCAATCGGTGGTGCACTTCTT	35883
2258	TGTCAACAGCAGCACACACT	13916	CTGTGAGAACCAGCAAGCATGT	24900	GCAGGCCAGAACTTATAGATGTCAAC	35884
2259	GAGCGAGGCTGTCACTAACGAA	13917	TCCCCAGCTCCAGGCAGTA	24901	ACACCACGCGTGACAGA	35885
2260	CCAGGGCTTTTCACTGCAATAAC	13918	CATGGGCTGAGCTGAAGATACA	24902	GCTGGCCAGGGCTTTCAGT	35886
2261	GGCCCTGCCAAATTCCTCAGA	13919	GGGAAGTAGAAACCGCCAATCT	24903	TTCTCTCTGGCCCTGCCAAA	35887
2262	TGGGGCCAGCAGAACTTACTTG	13920	CGGATTGTGGCTCTCTGTGACT	24904	GGCAGAGGCTGCTATTATAGGTT	35888
2263	ATGACCCGGAGGGGCAAG	13921	CACCGACTCTCGCCATTATCT	24905	CCGAGGCATGTGCTGGATGA	35889
2264	GCAAAGCAGGACTAACACCAT	13922	TACCTGGTCCAGCCTGACTTC	24906	GGCTGTAGATTGCAAAAGCAGGACTA	35890
2265	TGGCGGATGGGAGGGCATT	13923	CCCGTGGACTCAGAAGTGAAG	24907	AGGGGACTGCAGAGAAGTCA	35891
2266	GTGACGCAAAATCAGCACTCTTC	13924	CCTGCCCACTCTCAGCAGAT	24908	ACTGGCAGCGCTGTGTGATT	35892
2267	CCTGTGGGATTGTGAGGGTTCT	13925	CAGCTACCTTTGCCTCTGCAT	24909	TGTCTGCTTGTGGGGATT	35893
2268	GGGATCTTTGGGTTAAATGCAAAACA	13926	GACTTCCCCTGAGCTTTTCAA	24910	GGAGACTCAAAAGGGATCTTGGGTTA	35894
2269	GCCTCCAGAAAACTTGCCATCA	13927	GCCTGGATACAGGGACACCTATTC	24911	GGGAAATTTAGACCTGCCTCCAGAA	35895
2270	GGCCACCTGGGAATAGTTTGTCT	13928	GAAGCTGATGAACAGTCTCTCA	24912	GATAAATCAGGCCACTTGGGAAT	35896
2271	GGGCCAGAGAGTTTTGAATAACAAAG	13929	ACTACCTGAGGCTGATCCAA	24913	CGTATGTTGAGGGCCAGAGAT	35897
2272	CCCAGATTCTCAGCTTCTCTCT	13930	GTGGAACCTGGTGACTCCTT	24914	GCTGCCTTGGTTTTCCCAGATT	35898

2273	GCTAAAGAAGCTGGGCCGCTAA	13931	GACATTGAGCGGGTCACTTAAAC	24915	GTGAGGCAGATGGCAGTGT	35899
2274	GCCAAGTGGCAGTGAAAAGAAGA	13932	TGGTTGCTCCAGAAACTACCTAAAT	24916	GGGAAGAAAACGGGCCAAGT	35900
2275	TTGGAGCTTGCTTCCCATTTTTC	13933	AAGACTGGGGACGGGATACTT	24917	GGGTTTGGAGTTAGCTTGACTTTG	35901
2276	CTCGGATCCATCCAGCAATGAGT	13934	GCCGAGACTGCCAGACCTT	24918	AGCAGTCAACCCTCGGATCCAT	35902
2277	TGAGAATCAGGGTCAAACCTGGAA	13935	GTGTCGAGGAAGTGTGACAAATG	24919	CGGCTTTTGGCCACCTTTGAGA	35903
2278	CTATTAAGATGGGCTGGCAGTCA	13936	GTGATTCTATGGGCTTCCCACTT	24920	CTCAGACTCAAGGGGCTCTATTAAG	35904
2279	CCCCTCTTATTATACAGGAGCCTTAC	13937	GCCCCACCTCCACATTAC	24921	GAAGTTCTTTAGCTGTAAACCCCTCTT	35905
2280	TCTCAAATGACCGGGTGACAAG	13938	GGAACACCTCTGGCACTCT	24922	CTGTGTCATTCTCTTCCAATGA	35906
2281	CTTGACTCCCTCTGGATCACATTG	13939	AGTGGAACAAGTTGCTGAGATG	24923	CAGTGACCTCCACTGCTTGACT	35907
2282	CGTGAGATGCGCCAATGCAA	13940	CACGTGTGTAAGTGCAGACTCTTTG	24924	TCTCAACAGGCACGTGAGATG	35908
2283	CCACAAACACATGCCACGAAAAG	13941	CCCAAGGCAATGACAAATGCTTA	24925	GAGTCACAGCTAACCACAAAACACA	35909
2284	GCTTCCTTTACCGGCATCAGA	13942	TGAAGGCTCAGGCACAGACA	24926	CCTTCGCGTTGCTTCTTTC	35910
2285	CGTCCCAGGACAAGTTGACA	13943	TGCCCCCTCAACTCTGCATTTC	24927	ATGAACCTGCCTGCACAGA	35911
2286	CCACGTTTGTGTAGGATGGAATG	13944	TGGCAGCTCTCTCAGCATCA	24928	TGTGATCAGATCCACGTTTGTGTAG	35912
2287	ACCGTTCAGCTTCCCTCCTT	13945	TCTCGCCAAATGCCGTGGAA	24929	AGAATGGCTGCACCACATC	35913
2288	ACTCTCCCTTCAGACTGGGAAT	13946	GCCATTGGCCAGCATTGACT	24930	TGTGCCATGACTCTCCCTTCA	35914
2289	CAGCCAACCTTGACCTGTGA	13947	GGCTGACTATATGCTTCTGCTGAAC	24931	GCCTGGATGAACCTAGCCAAGA	35915
2290	ACAGCGCACGTGCCATTCA	13948	GGCAGGAGCCCTCTCTTGTG	24932	TGCCTTCGTGCAGGTGACA	35916
2291	GCTACCCAACACCTAGGAGAAATTCA	13949	CAAGGTAACACCCCAAGATGTGA	24933	CCTGGTGTACCCAACACCTA	35917
2292	GACCACAAGGGTGACAGCAA	13950	CCTAAGCGTCTAAATGAGGTAAGAATG	24934	AGGAAAGAAATTGCAGACCACAAG	35918
2293	CAATGCCCTCCCGACAGACA	13951	GCCATCTGAAAACGTGATGGAGTTAG	24935	GCCCTTCCTTCTGCCTGCAAT	35919
2294	GGAGCACAAAATGTGTGACAAAGA	13952	CGGTCTCTGATGTTCTCGGACGTT	24936	GGGGTTTTTGGAGCACAAAATGT	35920
2295	GGGCAGCGATGGTAGTTACCTAAA	13953	ACCATGACACGCCCTTGACT	24937	TGGAGGGCAGCGATGGTA	35921
2296	CAGGGCAACGAAAGTTACCTTCTA	13954	CCTGGCTGGGCATAAGTTTTGT	24938	GTCTTTCAGGGCAACGAAAGT	35922
2297	TCTCTGGCTTCCAAGGTCTCAA	13955	CTGAAAGGAAGAGCCACAGTCAA	24939	GGTCAGGGCTTCAGGTATCCATTCT	35923
2298	GTGACTGAGCCACAAGTGATGAAG	13956	CCCAGTGCTTGTGGACTCTT	24940	ATCCGTGACGCCCTCTCTGAA	35924
2299	GCCTCACTTGCTTGTGACA	13957	GGTGCTTCTGGCATCAGCAT	24941	GCACAGGGCTGCCTCACTT	35925
2300	GACCTGCTCACTGCAGAACAA	13958	CATGGGCTCCAGGACCTACT	24942	TGGCCTTTGGGAGCAGGTTT	35926
2301	CGTGAAGCCCTCTACTGACT	13959	CACCTGCCCTCCCCATGAGT	24943	TCTGGTGGGCTGGCGTGAA	35927
2302	CGACCTTCACCTTCAACCACTT	13960	CAAGGAGGACCCTGGCTTTTCA	24944	GCCCTGAGAACTGTATACGACCTT	35928
2303	GTCATGAAACTGAATTCAGCCAA	13961	CCTCCCGCAACTCTTCTGCTTA	24945	GGCAGTTGAAGTCATGAAACTGAA	35929
2304	GGCTCTCTGTGAGGTAGGATTG	13962	GGATCTCAGGGCTCACTGTGAAA	24946	AGGCTCTCCGGCTCTCTGT	35930
2305	CTAGGGCCTGGAGAAGTCCAT	13963	GCACTTCCCTTCACAGTCAGA	24947	GCAGGTCACAAGTCCAGGAACT	35931
2306	GCTGATCTGTGAGTGTGCGTTAG	13964	GCCGCACAGGATGGGGAAA	24948	GGCCGTGAAAGCTGATCTGT	35932
2307	AGGCCGGGGCATAGCGAGAA	13965	ACCACAGGCTACCTTCCAATC	24949	GAGCTTGGGAACTACAAGGTATGA	35933
2308	AGCAGTAAAAGGAGCAGGTTTGA	13966	CACATGCAGCCAGACCATCA	24950	CCCTCCCAAAAGCAGACAGCAGTA	35934
2309	CAGGTGTGAGTGGAGCGTTAG	13967	GCCACAGGATGTTGCTTAATGT	24951	CCGTAGGAAGAACCAGGTGTGA	35935
2310	CGGCAGTTGCTAGGGCTAAGAT	13968	ATCACGTGACCACCCCTCGTA	24952	AACCCTGACGGCAGTTGCTA	35936
2311	GGCTTGGAAAGGCAGGAGGTTTT	13969	GCTGTGTTAATGGAGCTACAATGTT	24953	CGTGGAGTGGTGGCTTGAA	35937
2312	GAGTTGCTTGGTAGGGCTGGAA	13970	GCAGAAAACCTGGCACACAGA	24954	GGGAAAATTCCAGACTGAGAGAGTTG	35938
2313	CCAGATAGGCCATCTTCTCTCTGTT	13971	GTCTGGCTCGGGACCACTT	24955	CAAAGGCACCTGAGCTCATTA	35939
2314	CCGTGTGTTTTCCCAAATGCTTCT	13972	GCCCTCGAGTTGTTTGAGAGT	24956	CGGCTATTAGACCCCAAGCAAA	35940
2315	GCTCTGAAGGCTACAAGGATGAGTAG	13973	TCTAGGACGTGGTCTCCACCTT	24957	CCAGACGCTCTGAAGGCTACAA	35941
2316	GGTGAAGGGAAGATCCCATCTGA	13974	TGGCCATATGCCGAGCTAAAA	24958	GACACCAAGGGTGAAGGGGAAGA	35942
2317	CTGCTCAAGGCATTTCAACAAGTT	13975	CAGAGCCTGAATGATTCCACACT	24959	GGTATATGCTGAGTAGACAAGGACACT	35943
2318	GAAGGCGGTGTAAGCATGTTAAG	13976	GCGATCGGCTGAGCTCAGCTT	24960	AGTCCATGGAAGGCGGTGTAAG	35944
2319	TGAGGGATGTGTCTGATGAGCTA	13977	TGCTAACTGACTTACCAATCCATAG	24961	GGAGTTATCAGTGAGGGATGTGTCT	35945
2320	GGTGGTAGGATGTGCTGTATTGA	13978	TGGGCTCTTGTCTCAGTGATTCT	24962	GATCCTCACTGGTGGTAGGATGT	35946
2321	GCTCCTGCCAAACTTGTAACACAT	13979	GCCTCCATCCCTTTTCTCAGAGTT	24963	GCCTTGCTCTCGCAAACTT	35947
2322	CCCAGCATCTTTGTGAGGAGAA	13980	CTACACTTGTGGAGCTGTCTGAA	24964	ATCTCCTGTCCCAGCATCTTTT	35948
2323	GGCTTGCCGTTTGGAAAACAA	13981	CACACCCACAGATTTCGAGAAGGAT	24965	AATGTACGGCTTGCCGTTTG	35949
2324	ACCTGCGGGAGGTGAACA	13982	AGGCACTGAGACGAGGACAAGT	24966	GGGAGCAGTTGGGACTCAGA	35950
2325	GTCTGCATCCCTTACAATTCACA	13983	GTCCGTCACTTGGGAGTCA	24967	CACACTGCTGTGCTGTGAA	35951
2326	CTGCGGGCTGCAGTAAGAA	13984	AAGGCCGGTGGTCTCTTCAA	24968	GCATGGCTCCCATGGTTACA	35952
2327	TCACTACTCTGGGCCACTTTT	13985	CAACTGCAGAGAGCAGAGTTCACTA	24969	GCTCTTGGAAAGGCTGTGTTTTT	35953
2328	GGCTCCCTTGAGTTGTGGGTTAG	13986	ATCCAGGTCACGGCCACAGTT	24970	TGGTTACTGGGCTCCCTTGAGT	35954
2329	TGGCCAGTATGCGAGTGATT	13987	TCCAGCAACGTGACCAACA	24971	ACTCCGACGTGGCCAGTAT	35955
2330	CAGGATAGCAGAATGGCTGAGAT	13988	GCCTGGAGGTGAGGTGTGTTT	24972	AACACAGGAGGGGCAGGATA	35956
2331	GCCATTGGCGGCTTAATTATCAGT	13989	AGTTGCCCTGAAGCGTGGAT	24973	TGTAGGCCATTGGCGCGTTA	35957
2332	CACAGCAAGAAAGGTGAGTTCAAG	13990	TCAGGCTGCCAACCTATGCTA	24974	GGAGAAGCTTAAAGTCCACAGCAA	35958
2333	CAGCTACATCTCAACCGCAAG	13991	GGTTAGCCAGTCAGAACTTTGTTTAC	24975	CAGGTACTTTGTGTCTCAGCTACATCTCA	35959
2334	AACCCGACTGACACCTGGAT	13992	CACAGTACCAAGGCCAGACA	24976	CAAGAAGAAGCAACCCGACTGA	35960
2335	CCACAGGAAATAGGAGTGAGGAGAA	13993	CTGCCCTGGAAGACTGGAAGA	24977	TGGGCACTCCAGGGAAATA	35961
2336	GTGGCGTTGTTACCTCTCCTT	13994	TGCACCAATGAAGCCACACA	24978	CAGCTTCACAAAGTGGCGTTGTT	35962
2337	GGGTCTCTCTGTAGGGAGAGTT	13995	GAGGCTGGCCAGATGTTTTCTCA	24979	CCCCGAGGCTCCTTCTGTA	35963

2338	GCGCAGTTACACAGGCTTCCATT	13996	ATCCCTGCAGCCAGAGGTTCA	24980	GAAGCAGGCGCAGTTACACA	35964
2339	TTGACACAGGCCGTGCTT	13997	TGGTGAGAGGGGAATACACTAAC	24981	CCCTGTTCTCCCTGCATTTTGACA	35965
2340	GGGAGTATGGGTGGAGCACTTC	13998	TGGATCTGACTTGGAGAGCATTG	24982	CCACCCAGGCTCTGGGAGTATG	35966
2341	AGAGCCAGCAAAATATGGGAAAT	13999	ACTCATGGGTACAGAGGATTATAGGAA	24983	GGCAAGGGTAAGAGCCAGCAAA	35967
2342	GCCACAGCTGTTCTCTCTTCT	14000	CCCCTCTGCTTGCCACAGT	24984	GGAGCCCCTAGTCTGGACTTC	35968
2343	GGCTGGAACCTCCACTGCCATT	14001	CTCTGCGGTCCCATTTCTGAACA	24985	TGAGTGCAGGGCTGGAACCT	35969
2344	CAGGCCAAGTCCCAGGTCAAG	14002	CACCTCCCAACCCCACTCT	24986	GCCTCTATGCCAGGCCAAGT	35970
2345	GCGCACAGTGTCTTCACAATC	14003	GGGGCCAAGTGACTAAGTTGT	24987	AGGACATGGCCTGGAAGTTG	35971
2346	CGGACCCAACCTTGTGTCAAC	14004	TTGCTGGGCCCTCTGTTTG	24988	GGCGGGAATCAGCCTTCATCA	35972
2347	GGGAACACTCCAACCAGAGTCAA	14005	CCACACCTTCTCTCTCTCCAA	24989	CCAATGCTTGGAGCAGGGAACT	35973
2348	ACCAATGGCAAAACATCTGTGAGA	14006	CTCACAGGCTGCCTCTCTAATC	24990	CCTCCTCTGACCAATGGCAAACA	35974
2349	TGCGTGGAGCAAAAGGTTTGA	14007	GGAAGGAGGTGCTTCAAATCA	24991	TGGAGGATGCGTGGAGCAA	35975
2350	ACCTTCAGCCTTTTATGCACTACT	14008	CCCCTTGACAGAGAGGTGCAT	24992	GCATCTCTACACCTACCTTCAGCCTTT	35976
2351	GCCTTATCTCTACCTGTATCCTA	14009	GGACAGGGGCTCTGAGACACA	24993	CCTGCCACATTGCTTATCTCTAC	35977
2352	ACGGCATGGATTGTTACAAGTTTC	14010	GAGAAATGCAAGGACTCCACAAA	24994	GTCTCTACGGCATGGATTGT	35978
2353	TGCCGTGGATGACCGTGATGA	14011	GTGTATCTATAGTGCGAACCTGACA	24995	CCTCAATGAATGGTGGCGGTGAT	35979
2354	GACACGCTCAGAGGATGAGATAC	14012	CGCAATGACAGCTCCACTACTAAC	24996	GCTGCAAAGACACGCTCAGA	35980
2355	CCCTGCTGGTTCACCTTACAA	14013	CTTCTCTGCAAGTGTGGTGCA	24997	AGACATGGTCCCTGCCTGGTT	35981
2356	CAGGAGGCAATCGGTAAGAAA	14014	CCCAGTGGGATGATGCTAGATG	24998	GCAAATGTTTCAGGGAGGCAATC	35982
2357	GCATGTCAGTGGGTCTTTCTA	14015	GAGGCTTGCAATTTCTGCTT	24999	TTCCAGGTGGCTTAGGGAATTC	35983
2358	GGAACCTGCAACCCTAGCAA	14016	TCCAAAAGCTCTTGATGCTGACA	25000	GCATTGTTTTGCCTGCTAGGAATC	35984
2359	AGTGCTTGTATAGCTGCTAGAGT	14017	CTCTGTCTATCTGCCACAAGGTT	25001	GCTTATCTCAAGACCAGTGTGTT	35985
2360	GGTTTCCCTGAACTCTGCCTCAT	14018	GACACAGGTTCAACCCAGTTATC	25002	GGGGTCAGCTTGACTCTTGTGGTT	35986
2361	GGTGGCTCTGACACAGCAAA	14019	GGGCAATGCTGGAGCTAGT	25003	ACACAGGTGGTGGCCTCTGA	35987
2362	AGCCCGGGCAGAGTCTACTAAT	14020	GCAGCAGCTCCTGTCTGAT	25004	GGGCTGCCCTGGATGTGTTA	35988
2363	GGATGAAGGCAGATCCCTGA AAC	14021	GCCCTCGCTGTGGCTTATGA	25005	TGCCACAGACAGCTTGGATGAAG	35989
2364	CCTTGTGTGATAAAGGGTCTTG	14022	GGTGACAAGGTGGAAGGTCT	25006	CAGACAGCCCTTGTGTGCAT	35990
2365	CCATGGCCCTTCCCTTCTTG	14023	AACACAGGCACCGCCAAGT	25007	TGAGTGCCGGGCTCCAGAA	35991
2366	AGCCCAACTGGGTGGTGCATA	14024	GGGTTCTCCATCCCTTCACAT	25008	GGGAGCAGTTTCATTGAAGCCCACT	35992
2367	GTATGACTCCCTTAAGGATGAGAAG	14025	TCACCCATCCCACTATTACTTG	25009	CCACACTGTGTATGACTCCCTTGA	35993
2368	GGAGAGGCTGTCAAGTGGGATGT	14026	GTTACAGTCTCGGTACAGTCTTG	25010	CCCAAGGAGAGGCTGTCACT	35994
2369	GACCAACTGCCAAGACAGA	14027	CACAGTGCACATGAACCCCTTCT	25011	GCCATAGGTAACTCAGACACA	35995
2370	GTTTGGCCCTGTACTTCTGTCT	14028	ACCCACAGCTGGGCTTAG	25012	CGCCATTGAGTTTGGCCCTGTA	35996
2371	AACTGCCCAATGCCAGGATAG	14029	GGGGTGCCTTGAAGCTTATGT	25013	GGCCTAAGAACTGCCCAAT	35997
2372	CAGCACATCTGGGACCTGGTA	14030	GCCTTGGAGAATCCTTCTTAAT	25014	GTGAGTGGCCAGCACATCT	35998
2373	CTGTCTGACCAACTTGCTGTTTG	14031	CCAAGAGCCTGGTGAGTACGTT	25015	GCATTTGGCATCCCTGTCTGA	35999
2374	CTGGGAGGGTAAGGACTGATCT	14032	GAACTTCTACTCTGTGCTGGTGAA	25016	CTGGAGTATAAGAACTCGGAGGGTAAAG	36000
2375	CCCCGTCTGAATGAGAAAGCAT	14033	GAGAACTGCCGGATCAAACAGAAAG	25017	ACCCAGCCCCGTCTGAATG	36001
2376	CCTGAAGGGAGGTTCTGAGTCT	14034	CGGTAGTGCAGGGGATTGTCA	25018	AGGACCCAGCAGGTGTCTCAT	36002
2377	TCCAGTTCAAGGAGGCATTAC	14035	GGAGAACAACAGGGAGAACACATAG	25019	CTATGCTTATAAAACCTGACCCAGTTT	36003
2378	CCCCTCTCAAAGGGACAAAC	14036	GAGTAGATCAGTGGCTGTACCTGAA	25020	TCCAGAGCACCCCTCTCAAA	36004
2379	CACTCCAGGGTCCAGAGTCA	14037	AGGCACAGGAGAGAGTGATT	25021	AGCAGGGGCCACTACTGT	36005
2380	TCGCCTCTCTCTGGTCTAC	14038	AAGTCGAGTTGGCGTCTCT	25022	CGGGTTCTGGTGCTCATCTT	36006
2381	GCAGAGATGCGACTTCTTTGTCCTA	14039	ACACCTCCCTGACCTGCTAT	25023	CTAGGAGCAGAGATGCGACTTC	36007
2382	CTGCATTCCAGCCATTTCAAAC	14040	AGAGGGTAAGGGCTATTGAGGAA	25024	TCCCGGGAACATGCTGCATTC	36008
2383	TGGGTGGTACAGGCAAGAGAT	14041	CAACCACTCTAAGCTCTGACA	25025	GCTTTGAGGAGGATGGGTGGTA	36009
2384	CACTGGCAGAAACAAGGAGAGAAGA	14042	TCCTGTCCATCACTGATTCTGT	25026	GCAGAAGCCACTGGCAGAAAC	36010
2385	GGAAGCTCTCACTCCCAAAC	14043	GGGTGACAGCAAAGAGTTGA	25027	CCTAGGACATTAAGGGAACATGGAA	36011
2386	CCAGGCCTCTGTGCTGTTTGT	14044	TGGCAGACAGATGAGGTAGTGT	25028	GCTATGTTGTCCAGGCCTCTGT	36012
2387	CACGCAGTTGGCAGAGCAT	14045	GGGGTCTAGGCAGCACTGA	25029	TCCCTGTCCCCACGCAGTT	36013
2388	GGCCTGAAGGAGTTTCCATCA	14046	TCCCAACCCATGCAGGTA	25030	GGTCTTCGACTCTCCAAGGAACAGA	36014
2389	CCCATGAATTACTGTGTGGTGTGA	14047	GCAGGGTGGAGAGATACCACTCTT	25031	GCCCAGGCCATGAATTACTGT	36015
2390	GGTCACTGTGGGAGTTTCTTGT	14048	CTTCTCCCACTCTCTAAGAA	25032	GGCACCCATTTGGTCACTGT	36016
2391	CTGGAAGGGGAGGAGCCAAAA	14049	AATGAGGCTGGGACAATCAAGAA	25033	TTGGCCAGCGCAACTGGAAA	36017
2392	GAGCTTGCCAGGCAGATTTCTA	14050	GCTGCATAAAGGGCATTGCTTCA	25034	GTAGGTCTGGGGCAGGAAGA	36018
2393	CACCACTGTGCGCAGCATT	14051	CCCCAGGAGCGAATAATCACAAG	25035	ATGCCCAAGTACCCACTGT	36019
2394	GCCTTAGGAAAGGGCAGGTGAG	14052	TCCCTGATTTCCCAAGGCTTCT	25036	GCTTATGGAGCAAAGGATCGGTGAT	36020
2395	CAGGATGGCGAGGCAGACA	14053	GCCTGGGAGATGGCTGTAGTAG	25037	TCTGCCCTTACCCAGGAT	36021
2396	CTGTGCCAAGTGGAGTCATGT	14054	CATGGCCTCAGCACAGTGAA	25038	TGCTGTCTGTGCCAAGT	36022
2397	CCAGATGAACAGAGAAGGTGAGATT	14055	CCTCATGCGGATGCTCTTCT	25039	GGACAGGAAGCAGCAGGTTT	36023
2398	ACATCCCTGTTTCCCTCTTG	14056	GTGGGCCATGGGTAGTTATGGAA	25040	GGCCCAAAGTGAGCATTTACATC	36024
2399	CCTACCTGATGCATTCTGGGAACATC	14057	CTGCCCTTGCCCCATCTAAT	25041	GCAGAGGGAACAGAGGCTTT	36025
2400	GTGAGAGAGAGGCAGAGGGGATAA	14058	AGGGATTTGCGGGACTACCAT	25042	CGGTGGCTACAGAGAAGTGAGA	36026
2401	CTACAGCCACCTTACACCTTTGT	14059	CAAAGTGGAGGGCCTAGGCAAA	25043	CCTGCTCCCTGCAGTATCTTTC	36027
2402	CCCATAGCGAGGGCTGGATTGA	14060	CTGCGTAAGGGAGAGGATAATTTGT	25044	AGAGGCTGGTGTCCCATAG	36028

2403	ACGTGCAGAAAGCCTTTGAGA	14061	AGAGAGCCTGGCCTCAGACA	25045	TAGGGGCTCTACGTGCAGAA	36029
2404	GCACTTGCCCCACTCCTAGA	14062	CTCCTTACCAGCTTAGCAGCAA	25046	TCAGGGCACAGAGATATAAGAGGTT	36030
2405	GCTTCTGAGCTATCTCGGTCCTT	14063	GGATCAGGAGGTTCAATGCTACCAA	25047	TCCAGCCTCGCTTCTGAGCTAT	36031
2406	GCTGAAGCCTGAGGGTCTGGTTTA	14064	CTGTTGCCTTGGCCATCAGT	25048	ACACGACCACGTGGAACTCA	36032
2407	ACACCATTGCCTGGGCTCTTAG	14065	GGGAATGTCTGCGATTGGCTAT	25049	TCAGTCTGCCGGACACCATTG	36033
2408	CCACGCAGTGTGAGGATTAAGTCA	14066	GGTCCCCGAATGCTTCTGTCT	25050	TTGCCACGCAGTGTGA	36034
2409	GCTCTTCAAGCCTCAGTGCAA	14067	GGCCGGAAAAGGCTACAGTGA	25051	CCAGATCCTGCTGCTCTTCAA	36035
2410	TCAGAAAGGGGCTTTCTGTGAAG	14068	GCTCAGCAGAATCATGCCTAAAC	25052	GCCTTATGGACTGTGATGTCTCAGAA	36036
2411	CCCATTGCTCCGCTGATTTTC	14069	CTTGGAGCATGGAAGCATCTCA	25053	GAGATGGGATTTCTGTACCCATTG	36037
2412	CCACCTCAGGGCCTGGTATT	14070	GAAGTGTCACTGACCCGGTGT	25054	TCCTGCCATAGCCCCAGAAA	36038
2413	GCCCGTTCTTTCTGATTCTTT	14071	CACCAAGTGAGGGAAGTCACA	25055	TTGGTGGGAGCCCGTCTCTT	36039
2414	CCCCAGTAAGCGCAAAGTTAGA	14072	TTCCACAGGGCTGTATGCAA	25056	CCTGCCAGAAAACTTACCCAGTA	36040
2415	ACAACCTCCACTCCTGTCTCT	14073	TGGCGTGCTTGGCTTGT	25057	ATCCCTCCAGGCCACAAC	36041
2416	CGCCACAGTGGGAGATAAGCAA	14074	GAGGGGAAAGACACATGCCATCAA	25058	GCAAACCTTACCGCCACAGT	36042
2417	CTAGCCAGCAAATTTGGAGTTT	14075	CAGGTGACCCGCTAGGATCTATG	25059	CATGCCATTCTAGCCAGCAA	36043
2418	GCTTGTTTAAACCATGTTGTGTGA	14076	GTGGCATCTGGACACCCATT	25060	GGTGATAAATGAGGCTGCTTGT	36044
2419	GGACAAGCTTTGAGACTAGCCATA	14077	GGGGAGCCTTGACTGTAGGAAA	25061	GATTGGTATCTGGAGGAGGACAA	36045
2420	GATCTGCTCCGTGGGACAAA	14078	CACAGCGTCTAGGCTCATATT	25062	CCCTGTGGGGTACAGATTTTTCATGGAT	36046
2421	AAATCCTCTTGCTAGCTCCAGATG	14079	GCACAGGAGTCACTTGCATGT	25063	GACACTACCCTGAAATCCTCTTGCTA	36047
2422	GTGTGGTCTACACTGGGAAAGAA	14080	TGCTTGGTGTAAATCTGAGAGTGAA	25064	TCCACCTCCTAAAGCACAGT	36048
2423	CCTCTCCTCAGATGCTGTTTCT	14081	ACCATGGGTCCAGTGGGTAAAG	25065	CCAAGGATTTTCTCTCTCCTCAGAT	36049
2424	CTGTAGAGAGCCATGTCCCTGAAT	14082	GCAGCAGGACTCTACCTTGA	25066	AAGTGGTGGCTCCTGTAGAGA	36050
2425	CAAGACCTACTGTCCACTCTGATTC	14083	CCCTTACCCTTCAAGAGCTGTCA	25067	TGGTGATTCTTCAAGACCTACTGT	36051
2426	AGCGTTGAGGACCATCTGT	14084	GAACAACCCAGGCTCTGTTATAGT	25068	GGATGTGATTGTGCTGGAGCGTTGA	36052
2427	GGCCCTGTCAATCATACCAAGCTT	14085	GTTTTGCCCTAGCACCAAGT	25069	CACAGATCTGGCCCTGTCAATC	36053
2428	GTCTCTCTCCCACTTGCAACA	14086	ATGGTGGCACTGGACTGGAA	25070	CCTTGAACATGCACCTTGAGTCTCT	36054
2429	CCTCTTGAGCCTTTCCCGTGT	14087	CAGGCCTGCACGTACAGA	25071	AGGGGTGGGTGTGCCCTCTT	36055
2430	GGGGAACCTAACTTACTCTTGAAAG	14088	TTACCTCCAGTGGCCCTAATTTT	25072	GCACACAAGAGGGGAACTTAAC	36056
2431	GACATACAAGGGTAGGGAGACTGA	14089	CCCATCCCACTTCTGTGATA	25073	GGGCCCTGATGGTAATAGGAAACAGA	36057
2432	CCTGGAGCAACTGGGGATTAG	14090	GGATTTTGTCCAGGAGGAAGATGTCA	25074	AAGTCAAGCTGGAACATAGAGTTGA	36058
2433	CCAGCAGCTTTACTCTAGGGGATTG	14091	CTTCCCCGACCACTGCTATTC	25075	GGACCTTTCCAGCAGCTTT	36059
2434	GAGCAGGACAATGGGAGAAAGA	14092	AAATCAGCGTCTCTTGTCT	25076	CCTCCCTTTATGAGCAGGACAA	36060
2435	CACCCTGAGCCAATAGGGAGAAAGA	14093	GTCCCTGTTTCATGCTGACCTT	25077	GCAAAACACCCTGAGCCAATAG	36061
2436	GCACTTTCCCTCCCAACCTTT	14094	GGAGCCAGAAGATTGCTCCTT	25078	TTACTCTCCACCGCACTTTC	36062
2437	CCTTGGGACCAACGCTGTTT	14095	AAAGCCAGGCAGCCATT	25079	GGGCCCTTACACACATACCTT	36063
2438	CCCACCTCTTGCTCAGGTTT	14096	GGATAATGGACATCCTGGGAACAA	25080	GCCACTATACCCGACCTCTTG	36064
2439	AGCTGTAGACCGGAGTGGTTCT	14097	AATATTGCCCCGGCTTCCAA	25081	CGATCTCACTGGGAGCTGTAGA	36065
2440	GGGGAACAAATGCTAAAGTTCTCA	14098	CGATCCCACTGCCAATCTTCT	25082	GGCAGAATTTTATGAGGGGAAAC	36066
2441	GCCGGGGCGGTAAGATGT	14099	GGTATCAGCCCCACATTTCTCT	25083	GGCTGTCGATGATGGTTGTCT	36067
2442	GGGATTGCATCCATAGCACAGTTT	14100	GGAGGGTTTGGGGAATGACTTCT	25084	CCCTCCAGGGAAATTTGGGATTG	36068
2443	CCTGGCTAAGGCAACGAA	14101	ACCATCTGCCTTATGGTGACT	25085	AGCCACCATGCTGGCCTAA	36069
2444	CGTTTTCTTTTCCCTCTCCACAAA	14102	GGAGTAGCCCTGATGAGACTTG	25086	TCATCATGAGTCTGACGTTTTCT	36070
2445	GAGTCATCAGAGGCTGACTTTTCT	14103	GCAGGGTAGGCTGTGGAGATAC	25087	GCAAGTGACCTTAAAGTGAGTCATCAGA	36071
2446	CGTACTTTGGGGAGAATCTGGAA	14104	CTGCCACTTGGGTGGTATACCT	25088	TTCTTGCTTGGTTTATCGTACT	36072
2447	TGCTCACTGGACTCCTGGAA	14105	GGGCCATCCCATCAAAAAGGAT	25089	GTGGAGGGTCTCTATGCTCACT	36073
2448	GGGTGAGAAGTGTCTTTGCTT	14106	AACAGGGAAGCTCTTGTG	25090	CCGAGAAGGAGAACTGGGTGAGA	36074
2449	CCCTCTTCCACTGCTCTGTAT	14107	CCTGGCTTCCCTTCTCAAG	25091	AGCTTTAGCCCTGCCCTCTT	36075
2450	GGCAGGCCATCACAGTCATAGA	14108	CCCCTGCTACGCTACTCT	25092	GGCATATTTGAAATGCTGGCAGGTA	36076
2451	GCAACTGGGCTATCAGGGATTG	14109	CTCTGATCAGCGTCCCTAGTTTG	25093	GCAGAGCTGCAACTGGGCTAT	36077
2452	GCTGAGGGACACACTTGGATCA	14110	CCAGGTGCCATTGGCAGTAT	25094	AGGTGCTGAGGGACACA	36078
2453	AAGGGCCCTGCTGGTAGT	14111	GAGAGACTCAAACCGCTAGACCTT	25095	CAGACGCAGAATGAGCTCCAA	36079
2454	GCATGTGCTGACACAGAAAA	14112	CCCTCCCCATCTCTCTTCTTAC	25096	TGGAAGGAGCAAGTTTGCATGT	36080
2455	GATGCTGCTCCAAGGATACCAA	14113	AAGGCCGGATGTGTGAGATTG	25097	CACCATGGAACAATAAGACATGAT	36081
2456	CCAGGAAGGTCAAAATGTGGACTGA	14114	CACACGTGCATGGGTGTTT	25098	GCTTTCTCTGCCAGGAAGGTCAA	36082
2457	TGTGCTGTGGGTGGAGAAG	14115	GGGGTCAGAAAGCTGAGAGTCTA	25099	TCTTGGAAAGCTGTTGTAGCTTGT	36083
2458	GCTGTGTGAAGCAGGCAGAGAA	14116	GGTTCTACAGTTTCCACCATTAAC	25100	GAGAACATCAGAGGCTGTGTGAAG	36084
2459	CAGCAGAAGCTAACAGGGGAAGT	14117	CCAGCCAGGATTACTGCTGTTT	25101	CAGCCTCAATTACAGCAGAAGCTAAC	36085
2460	CACCTCCAAAAAGGTTCCATTGAT	14118	GAGCAACTGGCAGAGTATGACAAG	25102	CAAGTGAGGTATCACTTCCAAAAAG	36086
2461	ACTGCTCCTCAGCTTGGTGAT	14119	GGCAAGGGGCTTGCTCTGAT	25103	GGCAGCTGTGGAGCACTTC	36087
2462	GGGGTGGTCTCCCAAACTCA	14120	AGCAGCAGCCACGGGAAGA	25104	GTGGAGCCTTCCAAATTGTGTTG	36088
2463	GGCCATGGTGAGTGGTAGCAAA	14121	CTCTGCACTCTCCACATCAGGTTT	25105	TGAATGGGGCCATGGTGAGT	36089
2464	AGCTAGGATTAGCCAGAGTTTC	14122	CCCTATCTTGCACTCTCATTTCCATT	25106	GGACAGAAGTTATAAGGAGCTAGGATTTAG	36090
2465	GCTGTTTATCAGTTTGCTGAGTGA	14123	ACTTTGGCCCCATTTCTCCAA	25107	GTGGTAGGACTGCTGTTTATCAGTT	36091
2466	CTGGGCCTCAGCTCTTCCAT	14124	AGGGTGCTGCTTGGGTTGT	25108	GGGAATGGTTGCCAGTACCTT	36092
2467	GACTCTGGAGCCACTCTTCATTC	14125	CAGTATCATGCGGTCACTAGTCTT	25109	GGCCTCACTGCTGCTTCAATA	36093

2468	AGCCAGTTGCCATAGGCTTT	14126	TCAAGCTGTCTGGGGAGGTTTC	25110	TGTTCAAACAGAACCCCTACTTGGAA	36094
2469	GGGCCACACCACTCAGAGTAA	14127	AGACAGGGGAAGTTGTGGGTATATGA	25111	AAAGACTGCACCAAGCTGGAA	36095
2470	ACTGGGCTGACCCCTTTTGATTTC	14128	TGGCCGCTTACACCAAAAC	25112	TGCTGTCAGAGGGACTGAAAC	36096
2471	CGAGGGAGATGCGGTCTA	14129	CAGGCCCGGAACCCCTTCT	25113	CGCAGATCCGAGGGAGAT	36097
2472	ACCACAGTGTCCGTGCAT	14130	ACTGTACACGCTTCTGAAT	25114	CATCTTGCTGTAAACCACACAGT	36098
2473	CCAGGGAGGGAGGTACACA	14131	CCTGCGCTGTACAGACT	25115	AGGGCAGAGATGGGAAACA	36099
2474	GTCAGCATAGGGCAGTTGCAAAG	14132	CCTAGAGTGTCCAGCTCTGTTT	25116	GTGTGGGTGTGTGTGAGCATAG	36100
2475	GGAAACCTTAGCTGGGGTCTTTTC	14133	TGACTCGCTGTGTCTGTGA	25117	GCACTAGGGATCTCTGAAACCTT	36101
2476	AGAGGTTCCCACTAGAGAGTCATC	14134	AGGCCACAGTGTGTCTGTTC	25118	GCCCTAGATGAAGAGGTTCCCACTA	36102
2477	GTTGAGACCGAACACTGGCAAAC	14135	TTGCTCTGAGGCCCTACACT	25119	CAATGTGACTGGGGTGTGAGA	36103
2478	CCAAGGACATGACTTACCCAGTTT	14136	GTACCTGGCTGGGATATGTGTTTT	25120	GGCAGGAATGCAACCAAGGACATGA	36104
2479	GCTTAGGACCTATCTGGAGTCACAGT	14137	AGGAGAACCCATCTGTCATCT	25121	CACAGACTGGCTTAGGACCTATC	36105
2480	CCAGGAAGTGAGCAGGTTGTAG	14138	GGCTACTGGGGAATTAATACAGTCT	25122	TCTGGGCCACAGGAAGTGA	36106
2481	TGTCGTGCTGGCAAGGTTTC	14139	CCTTCAGCAGTGCCTGACAAAC	25123	GAGGTAAGCCAGAGGAAACGAA	36107
2482	GGCCCCAAAGAGGTTGCATTTC	14140	CCAAAGCATAGGCTGTGTGAGT	25124	AACGTGGAGGGTCAGAGGTTTG	36108
2483	TGGCACAGCATTGCAGTTAGA	14141	GTCCAGGACGTGCTCCTAGTATCT	25125	CAGATGGCTAATGGCACAGCATT	36109
2484	CAGAGCGAGACATCATCTTTCA	14142	CAGGGCCAGTGTCTTCCAAAC	25126	AGCAGATTGAGCGAGACATC	36110
2485	GCTGCTTCTGAGGCTTTACTT	14143	GGTTACTGTTGGGGCTCAGGAAA	25127	CTTGGCCTCTTAAGGCTGCTT	36111
2486	GCAACTGCCAGCAAAGGCATGA	14144	GTGCCTTCCGAGAGCTGTGA	25128	CGCTCCACACCAAGGAATG	36112
2487	CCTGCCAGTTACCTGCAT	14145	TTGAACACCTCTGCTAACACA	25129	GCAACTCACTCTCTCCTAAGAAAT	36113
2488	CCATCCTATAGTCTGGGGCTTGTTG	14146	ACCAGGCCACCCCAAGTAAA	25130	GGCTTCGAGATTGAGTCCACAA	36114
2489	CAACAGCAAGACATTCCAGCATAG	14147	CAGCCCATACCTCCCTGCTA	25131	GGACCCAGCAACAACAGCAAGA	36115
2490	CCTCCACCTCATTTGAGTTGTTTCT	14148	GGCTGTGGTACCCTGGGAAAGA	25132	AGCCCTTCTCCACCTCATTTTG	36116
2491	AGGTGCCTCTCTCAGCAGGATT	14149	GGGTGCCAGGTACAGAACAAGT	25133	TCAGGTGTGAAGGTGCCTCTCT	36117
2492	CCCTGTCTTGAGCGTTAACT	14150	CTGTGGAATTTCTCCCTGGGGTATG	25134	AGCGGCATCCCTGTCCTT	36118
2493	GTCAGTTCCCATGGACCCAGAA	14151	ACCTCAGGCTAATGTCCACTTG	25135	ACCTCTGTGCCAGGTGAGTT	36119
2494	CTGAGATTATGCCAATGCCCTGCTA	14152	GTGGATCAGGATAGGGGCTCAA	25136	GGGACCGCTGAGATTATGCCAAT	36120
2495	CTACTGGACGACGCCCTCTA	14153	GGTCTATCCGGGCTATCCAGCAT	25137	CGTAGACCTTCTCAGATGCCACTACT	36121
2496	TGGCCGTGTTTTATCCCAATTGT	14154	TCTGCCCTCTGTGCTTCAGT	25138	CCCATGAGTTGGCCGTGTTT	36122
2497	GGTCATGCAGAGAGGACTGGAATTA	14155	GGTTTGCCTCTGCTGTTTCT	25139	AGGTCTGCCGAGGTGCAT	36123
2498	CCCAGTGTGGCGACCATGT	14156	TTCCGCCCATGCCCTACA	25140	GGTGTGACTTAGGCCACTGT	36124
2499	TCTGCTTGTCCCGAGCTAGT	14157	GAGCTCACCATGTTTTCTGTAGTTG	25141	GCTCTACCTCTGTCCCTCAA	36125
2500	ACAAAGGGCAGGCTTGCTTA	14158	CTCCAATGAATCCTCCTCTCA	25142	CAGAGCCAGGCCTTCTCTTAAA	36126
2501	TTGGCACAGGTGTGTCTT	14159	AGGTAGGGTTCTTCCCAAGTTC	25143	AGGAATGCGGGGCACTCA	36127
2502	ACAGACCTATCAGCCACGAT	14160	GGCTTCTCCTACTGTGGTGTTT	25144	CTATCTGAGGCAAACAGACCCATC	36128
2503	CCTCACAGCCTCTGTATCTCCTT	14161	CCTCAACCCCTTCTATCAGCTT	25145	TGCTCTCTCACAGCCTCCTT	36129
2504	CCATAAGCAAAACATAGTCCCTGTTT	14162	TGCTGTCTGCTGTAGACTGT	25146	GGGTGCTCGAGATTCCACCATA	36130
2505	CAGGCAGACACAGAGCAACT	14163	GGCCGGTGGAGGTTTTTGAT	25147	TTTCTGAAACACAGGCAGACA	36131
2506	GGGTGGTGAAATGGCAGAGA	14164	CAGGCCTAGCAGTGTGTAATCA	25148	GCCCAAAAGGGTGTGTGAAA	36132
2507	GCTTGCTTGCTTGCTTGCTTG	14165	CCATGCCTGGCCCTTTGAAACA	25149	GCTTGCTTGCTTGCTTGCTT	36133
2508	AGCTTGCAAGGAGTCCAGGAA	14166	CCCAGGGCCATCTGTGATACAA	25150	GCTAGGCAAGGCTGTAGCTT	36134
2509	GTGGCTCCTTACATTACTACAGTGA	14167	TCGCTGCTCTCTCTCACACA	25151	GGATGACTTGGTCAACCCTGTTCT	36135
2510	CCCTGTCTGTCTCAGGAGGAGAAAA	14168	TGGGAGGATGGCGCTTTGGAT	25152	GAGAGTTTCAACCCTGTCTGTCTCA	36136
2511	GGACATGGTGCCTGCAGTATC	14169	TGGGCCCAACCACTCACTTCT	25153	CCCAAAAGGCCATGGGACAT	36137
2512	CAGGGAAATCCGGCATCCAT	14170	TGGTTAGTGACAAGCAGTGT	25154	TCGGCCAAGAACAGGGAAATC	36138
2513	ACCGTGAGTCCCAGAGGTTCA	14171	GCAAACTTGGGCACTCTGA	25155	AGGACAGGTGACCGTGAGT	36139
2514	GGCAGGGAGATTATTCTCTGTAA	14172	GCCTCCAGCTCCAGACTCA	25156	CCTGCAGGCAGGGAGATTATT	36140
2515	GCAAGTCTATAGAAGTAGTGGAGTGA	14173	TCTAAGGCCACGGGATAGGAA	25157	TGTGCTTCGGGGAGGTGATA	36141
2516	TGCTCCCTGCAGCATTGGAA	14174	TGAAACAAGGTGACAAGGTGACT	25158	CAGGGATGTGCATGGCAACT	36142
2517	TTACACCTGGGGTCTCTTCA	14175	CCAGGACATGATCAAACTGGATTG	25159	GAGCAGCTTCCATCGTTTTCTGT	36143
2518	TTGTGGGGCCCTACCTTCCAA	14176	GGAGCTTGGCAGGAGGTGTA	25160	CAGAGATCCAATGTCCCAATTG	36144
2519	CTCATTAACACTCAGCCGTGAA	14177	GAGCCTGAGGAGCCATTTTGA	25161	CCTGGAGAGCTTGGTGTGTTGGAT	36145
2520	TCCAGTGTGAGGTGCGTTTATG	14178	TCCGTGCGAGGGTGTCTTTT	25162	GAGCAACATTGCATTCCAGTGTGA	36146
2521	GCCCAATCCAGACCACTGCTA	14179	GGGAGCTGTCCATAGAGGCAAT	25163	AGCTCCCTGGCCCAAT	36147
2522	CATGGTGCTAGCCTCACTCTCA	14180	TGGATGCCTCTTGCCAGAAAA	25164	GGCTTATATCCCTTCAATGGTGCTA	36148
2523	CCCTGGGGACCTTGTAAAC	14181	GAGATGTGAGCCTTGCCATGT	25165	GAGGGGCAGATAAGGCACAGT	36149
2524	CTACCAAGCTGTATGGTCTGTAAAC	14182	GCAAAGGGCCAGAGAGTCAA	25166	CAGGCAGGGGTGTGTTGTTACT	36150
2525	GATTGGTGCTCACCCACTGACT	14183	GGCAGGATGGATTGGGCCATT	25167	TCCCATCCTAGATTTTCTACTCTTG	36151
2526	CGAGCAAGAACACGCTGGAA	14184	GGTCTCATGAGCTTCAGGTTATT	25168	AATGTAGTGTGAGCGAGCAAGA	36152
2527	GGATGGTGCAAGCAACGAATGA	14185	GTGCGCCAGCCCTTCAGAT	25169	GGAGAACGTGATGCCCTATTTCT	36153
2528	AGGGGCCAAGAAACAGGAAGA	14186	GGGCTACGAAGGACCTTTAGCAT	25170	TGTGAAAGAGGGGCAAGA	36154
2529	AGGCTTTGGGGTGGTTTGTT	14187	CTGTTTGGGTCTGCGTCACT	25171	TGTCTGAAGCCAGTAGGCTTTG	36155
2530	TCATTCTCGGCTCACCTTCT	14188	GGGCCATTATAACAGGAACGGGAAAC	25172	CAACATGAATCAGATGCGGTCACTC	36156
2531	GGTAACTGATCAGACTGGGAGTTC	14189	AGAATCTGGCAGCCCTACA	25173	GGAAACATCTCCCTTCTCCTTTGA	36157
2532	CCTGGGCTCCTCATGTGTCT	14190	TCCAGCCAGCTGTCACTAACT	25174	TTGTTTCCCTGGGCTCCTT	36158

2533	TCATGGGGCTGACCCAAAGTCT	14191	CTGAAGTCTGCACCTGAGTGAGT	25175	TCAGCACCCGGGGTATTCTCA	36159
2534	AGCAAGAGTTTGCTTCACACTCATCA	14192	AGAGGGACCACACCCCTGGAAT	25176	GCACAGGCAAGAGCAAGAGT	36160
2535	GGCTCCTTTACGGTCAGCAACT	14193	ACCCTGCCAGGACACATGAGAT	25177	CTTCACATTAATTTGTGGGCTCCTT	36161
2536	GGATTCTTCTCTGTTTGACCGTGTG	14194	GCCACAGAGCTGAAGGCTTAGGATA	25178	GTGGGAGTTGGATTCTTCTGT	36162
2537	GTGTCCACAGCTCTCTGTTTCGAT	14195	GCTGCCCCATGCTGAAGAGAT	25179	GGGCAGTATGTACAAGGATGTGT	36163
2538	ACTGCCTCCCGAGAAGTGA	14196	GGTTTGGACCTGCTCATATCTTGA	25180	ACACAATCTCTTCGATCCACTTT	36164
2539	GTGGTTGTTACGGGGGAAGGTT	14197	AAACGGCCCAAGGGTGGATTTC	25181	GGCAGCACAGAGTGGTTGTTAC	36165
2540	GCAAGTTGGCAAGTTTTGTTTCACA	14198	GCCAGTCCATCTGTTTCAGGCTTT	25182	CTGGCAACATATCACTGAGCAAGT	36166
2541	GGGAAACAGGCTTATGCAAGACA	14199	CAGGCTTAGCCCCAATTGACT	25183	CGGGTGGGGAAACAGGCTTA	36167
2542	GGTCTTGAATCGTTGGCTCTGT	14200	GTGTCTGCGCCAAGGTTATACA	25184	TCGGGCTTTGGAGTCTGTCTGA	36168
2543	ACCAGGTAGCCAGGAAGGTAA	14201	CCCTAAGTGGAATCCTGAGTGAAAT	25185	TGCAGATCACACGACCAGGTA	36169
2544	GCCTTGGTGCTGGTGGAT	14202	GAGCCGGAAGAACTCAGGATGT	25186	CCGTCCCAAACTGCTTGTG	36170
2545	AGGTACAGGGAGCTGAGAGAAG	14203	GGGATTTGCCAGGAGTGTCTT	25187	ATCCGGCCTGCAGGTACA	36171
2546	GAAGTCAAGGTGCTTCCAGTGA	14204	CAGCCCTTGGGGTGTAGCTTT	25188	AGGATGGAGCTATCAGTATCATAGA	36172
2547	CTCTCCACACTTCCCACTACT	14205	GCTGGGTGTGGCTATGTGTT	25189	GGACAAAGGTAGGTGAGAACCCTCT	36173
2548	TGGTGCTGAAGGCTGGTGT	14206	GCCTGCACCCCTAAGGACACTTT	25190	GGGTGAATTTCTGAATGTGTCTGAA	36174
2549	ACCAGCCAAGGGACCCAGTTTA	14207	GGGTGTCACTCCATCTACACA	25191	TCGAGTCCGGCTCCCACTCA	36175
2550	CTGTCTCTTGAAAAGGGGAATGGTTTG	14208	CCAAGGCGCTCCTTCAATCTTIG	25192	GGCAGGACTGGTCTTGAAAG	36176
2551	GGCCAAGCTCCACTCACTCTTC	14209	GGGGAAAGAAAAGCTGGAAAAACAAC	25193	CCTCACTCTCACTCCCAACCTA	36177
2552	AAGGAAACAAACGCTCTGCAGAATAC	14210	ACTAGGCCCTGCTGCTAGAT	25194	ATGCCCATGTTTGAAGTACAGAGA	36178
2553	TATGGACTGCCGCTCCTTCA	14211	GGCAGGCAGGAAATAGGAGGTT	25195	TCCTCTCTGCCAGGCTTTTATG	36179
2554	AGGACTTTTGTCTGGTTTACACA	14212	AATCTTCTGGGGTTCATTCTGTT	25196	CCCCCTGCAGATTCACAGGACTTT	36180
2555	CAACCGATTTCAGGTCCTTTGT	14213	GTGTCAAGGGTATGGAAGTCACAAC	25197	AGCCCTGCCTTCTCTTACAAC	36181
2556	CCACTGCGGGGTAGGTAGTACA	14214	TGACCCTGGAGGGAGCCTTT	25198	TTGTCCCACTGCGGGGTTA	36182
2557	CAAAGGCATGCTGGAACATTCTAA	14215	GAGGACAGCAGATCCTCCGTAA	25199	ACCACTCAAGACTATAGACCTACACA	36183
2558	CAAACCTGTCCCTCCATGCCTTCT	14216	CATTTCCAAGGGCAGTAGAAAGTCT	25200	GCAGTGAACAAAGTGCCAACT	36184
2559	CCATCTCCATCTGCTTTGGTGTT	14217	AGTGGGAGTCCAGATGATAGAGATT	25201	CCAGTTCCTGTTGCCACTCTTC	36185
2560	AGCTCCCTTAACCTCCCTGACA	14218	CAACAGCGAGGGACCATGTCT	25202	CTGGCTGGAGCTCCCTTAA	36186
2561	AGGGGTCTGCTGGCAGGTAT	14219	CCACCTCCCACTTCCCGATA	25203	TAGTGTGCTGGCTGGGAGGAT	36187
2562	GCCTCCCTCTCATTTCTGATCT	14220	GCAACTTGGGGTAGGTGGTGAA	25204	AAGCTGCCTCCCTCTCATT	36188
2563	TGCTTCCAAATGGCTCACGTT	14221	CGCAGCCCATGCCAATCTTTC	25205	CTGTGCTCATGAATTTGCTTCCAA	36189
2564	CCAGTCTGCGCTGGAGTAGT	14222	CGAGACTGAGGCCCACTGTTT	25206	GGGAGAACACTAGGCTATGGAGTCA	36190
2565	CTGGCTCAAAGACATTGGAACAAGT	14223	TGGCAAAGCCTGACCTGGAATC	25207	CACTCCATACTGGCTCAAAGACATT	36191
2566	CTGAGGTCTTGACGCAAGAAG	14224	GACCGGGATTGAAACCTCCACAA	25208	GGCTGGTGAAGTCTGAGGTCTTG	36192
2567	GGAAAAAGGTAGGCAATGTTTACA	14225	CATTTCTCCAGGAAAGAGGAAGAAC	25209	GATCACAGAAACAGGAAAAGGAAAAC	36193
2568	GGGTGGCCATAAAATCCAGACA	14226	TGGCTGCGCCATCGAAAACA	25210	GCCCTGTGGGTGGCCATAAA	36194
2569	TCCTGCCCCTTGAGGAGCTT	14227	TGTCCCGCTTGCTTCTTAGA	25211	CCACAAACAAAGCGGGCTAAATCCTT	36195
2570	AAGCTGAATTGGTGACGAAGA	14228	TCCCGCTTCTGGAGTT	25212	CAGGGTCTGCTCATGCACAAAG	36196
2571	GTGTGTGAGCGCTGGAGATT	14229	GCTGTTCCCTGCACTTGGAAATC	25213	GCGAGACCTGATTACAGGGAGTGT	36197
2572	CCAGACTGGACTAGCCAGGATTC	14230	AAGGCAAGGGGTGAGGAAGTTG	25214	GTCTAGTTGATCTCCAAGACCTTTTC	36198
2573	CTGGGCAGTAGTGACTGTGAGT	14231	ACAGCAGACGGCGAGAAG	25215	AATTGCGCTGGGCAGTAGT	36199
2574	TCTGAACCTAGCCTTGAGTTG	14232	CGGAACACTAAGGGAGGAAGTGAT	25216	GGCAGTGCATGCTCTGCTGT	36200
2575	TCCAGCCTGGTCTCTAGCTT	14233	TGGATCTTGAAAGCTCTGACT	25217	TGAGGGGCTGAGCCTCTT	36201
2576	AGCAGTCTGACATCCCACTTCA	14234	GAGGTGATCTGAGCTTGGGCATA	25218	GCCTACATAAGATAAGCAGTCTGACATC	36202
2577	TGCGGATGCGTTCATGTCA	14235	CAGCGGGCCTGTTACAGAGT	25219	GGACTTCCCTCACCACAGCTT	36203
2578	TGGAGGAAGAAGCAAGCAAGAT	14236	GGGGACAATCTGAGGGGTTCT	25220	ACACAAAGAAAGCTGGAGGAAGAAG	36204
2579	GCGGGCAGCCTCTTAACATTT	14237	TCTGGGGTGTGGACCTTAGGAA	25221	GCTGCCGAAAGGATTCTGA	36205
2580	TCATGGCTATCCGCCAGTCATC	14238	TCCACCAGCTCTTCGTGAT	25222	GCGCTCGTAGGTCATGGCTATC	36206
2581	GCCTTGAAGGATGTGCAGGAGTT	14239	TGTCCTTTCCTGCTCTTTAC	25223	GGACATCAGATCTGGGCCCTGAA	36207
2582	CCTCAGCTCAAAAGTTGTCTACA	14240	CCAGGCTCCTATTGCTCCTATTG	25224	TGGGACACCTCAGCTCACAA	36208
2583	CCAGGTGGTTGTGGGAAGAGAAG	14241	GAAGCTCTGACCTCCATTTCACT	25225	CCCTTTTGTCTTCCAGGTGGTT	36209
2584	CGCTGCTCATATTAGGCTCATT	14242	ACTGTACAGCCCTGATGAACA	25226	TGGTGAACGCTGCATCAT	36210
2585	CCTGGGTTTATGTTAATGACAAGTTTG	14243	ACCACCCCTCCATGCTTGTCT	25227	GGTCTGTCTGATAGCAAGTTTGTGT	36211
2586	AGGGAGAGATAGCCAGAATACAAAATC	14244	GCAGCCAGATTTCAAGTCCAA	25228	CTGTGCTACTGATGAAAGGGAGAGA	36212
2587	TGGCCAGCACAGTTCCAAA	14245	GGCCCCAGCCTCAAAGAATGTA	25229	GCGTGGCTGTGTTACTGTAT	36213
2588	CTGGCAGAAAAGCCTGAGAAGCATA	14246	TGAGCTCGGGCAGCTAA	25230	GGATTCTGGGACTGGCAGAAAAG	36214
2589	GGAAAAGTGCTTGATGAGGCTTGA	14247	GTGCGCTGACAAGGAAATGACT	25231	CCTGTATTCTGCAGCGTTCTCAA	36215
2590	TTCAGCAAGGCGGATCACCA	14248	CCCGTGTGAGCCAAAGTGTA	25232	GGCTTCCCAGCTGCTTAATCCAGCAA	36216
2591	GATGGGTATTACCAGGGGAGAAAC	14249	CAGGCTCAGAGGACCTATGTTTG	25233	CATCTGCCCTGAGAGATGGGTAT	36217
2592	GTGGGCAGAATGTACCATCA	14250	GCCTGCAGCCCTCATACAGT	25234	TGCGACCCCTGTGGGCAGAAAT	36218
2593	CACAGCGGGTTTGACCATGT	14251	CCAAGTGGCAGGGGAAAACCTA	25235	CACCTGATCAGACGGGTTT	36219
2594	GGAGAGAGAGGCTAGCTTTGTCTAAAAAC	14252	TGAGCCACTGAGCCTAGTGAA	25236	CGACACAGTGGGAAGAACTGAA	36220
2595	GTCTCGTTGCCGAGAGAGA	14253	GGCCTCAGCCTCTAACTGAGGATA	25237	ACCCAACCCCATCGTCTCGTT	36221
2596	ATCTGGCACTTGCTACTTATTACA	14254	CCCCGATAGGCTGAAAAACACA	25238	TGACAAACTGATCCTGGCACTTG	36222
2597	CTGGTGCTTGTGTTCCAGAAATGT	14255	GCTGACATGTGGAGTCAACCATT	25239	CCTACCTGCTGGTGTCTTGGTT	36223

2598	GGGATTCTGCACTAAAGACCTTAC	14256	GGCACACGACCCACCTATCT	25240	CCCCTTAGGGATTCTGCACTA	36224
2599	CTCATTCATCTCTCCCTGTCCAA	14257	GGAAGGGCATAGAGAGCATCT	25241	GCCCAGACAAGACTCATTCCATCCTT	36225
2600	CAGAAGCCATGGTGGAGATTGA	14258	ACTAATGGTGACATTGGTGGAACA	25242	TGGGCTTCTGGGGCAAAAA	36226
2601	AGATGGTGGCACCCCGTCAT	14259	GTGCCACACCATCTCACCTA	25243	GCAACTAACCACCTCCAGATG	36227
2602	CCAGAACAGCTTCCGAAACACT	14260	GGCCAGTCCCTTCAATGTCA	25244	GGTGGGTATCTCCAGAACAGCTT	36228
2603	GCTCAGTGGTTGTCTGAGATGT	14261	TTCCCTGCCCTTCCACCTTTC	25245	GCTGGCTGAAGCTCAGTGGTT	36229
2604	GCTCAAGCCCATGAATAAGGTT	14262	AGAATTCAACCACCATTTGGCAGAT	25246	GGGGTTTCAGCGGACTGTGA	36230
2605	GAGAGACAACTGCATGCTCAGA	14263	GCTGGTCCCTGGAAGGGGATA	25247	AGCCTCTGCCTTGAGAGACAAC	36231
2606	GATGGACTGGTAGTCTGTAACCCAAT	14264	CCATCCCTGCAGGAGAGGAGAT	25248	GCTGGCTGATGGACTGGTAGTCT	36232
2607	ACTGCTCAACCAACATCTGTTCA	14265	TTCCCTCCCCAAAGCCACAA	25249	GGGACACACTAAGTCTCAACCAA	36233
2608	GGGCCATGGCACTAGGGTAA	14266	CTCCTCAGCAGGAGGAGTTGT	25250	GCAACACACAGCTGGACATTTC	36234
2609	CAAGGGAGGCTGAAGAACGTCAT	14267	AGCACAGGGCTCACAGCTA	25251	GCCATATCTTGTTCAAGGGAGGCTGAA	36235
2610	TCACCCACTCCACAGCATGTTT	14268	GCTGCCTGAGAACGCTTTGA	25252	GCTGACTTGGAAATGTTCACTGT	36236
2611	CTTCCCCAGTTGACAAGGACAAAG	14269	CGAAAGAGCACAGCCAAACACA	25253	CGTCTCTTCCCCAGTTGACA	36237
2612	TGGTGATGGGGAGCCACTCTT	14270	ACAGAGCTCTGGAGGCAAGAT	25254	CAGATGGCCCAACTTGGTGATG	36238
2613	GGTGCTGCTTGTCCCTGAATA	14271	GGCTGCTCAGTTCGCTGTA	25255	AAGCTGGTGGTGCCTGCTTGT	36239
2614	GATCCTCCCCAAGGGTTAAGAATG	14272	CCCCGGTGGAGACAAGGAA	25256	CGTTTACCAACGGGCGAAGA	36240
2615	GCCACAGCTGTCTGAGGGTTA	14273	CACTGCCAGGGTGGTCAATC	25257	GGAGGCAGGAAGAAGTCCACAT	36241
2616	CTTTCATGGACTGTGCAACT	14274	TGGAGACCGTTCTCGGCTAT	25258	CGGTGAGTTTGTCTGCGTTCCTTTC	36242
2617	GGTGAATCAGATCAGGGGTCCAA	14275	GGGCTAGGGAGTGTCTCAAAG	25259	ACCAGTCCCTGGTGACTCAGAT	36243
2618	GGTGTGTGTGGAAGGACTGTGA	14276	GATGTACTCCCTGAGGCTTGAAA	25260	GGTGAGGGGTGTGTGTGGAA	36244
2619	GAGGAAGGAGATATTGGAGGTGTCT	14277	CCAGCCAGCAAGCATCTGAA	25261	ACCCACCCAGAGGAAGGAGATA	36245
2620	GCCAGCCTTGAGTCCAGTGA	14278	GGGGTGACTTGTAAACCATCTTGT	25262	AGCCATCTGCCAGCCTTGA	36246
2621	AACCTGTGCTTCCAGCCAAA	14279	AAAAGTGGCTACGCACTTTGTAAG	25263	GGCAGATATTTAATCCACCTAACCTGTCA	36247
2622	TGCGCTGATTATTAGTGTCAAGTT	14280	CCCTGCCATGAGCCCTTCA	25264	TGTATAAGGGGTGCGTGATTAT	36248
2623	GAGTTCACCTTTCAGCAAATGAACA	14281	GCCCTCTGCTCTTCTCACA	25265	GGTGCTTTGAAGACCGATGAGTTC	36249
2624	ACACTGATCTCCACTCCCAGAT	14282	CAATCTAGCATAGGGTGCTTCA	25266	CTCCTATGTCAGCCACTGATCT	36250
2625	AGCCTCGAACTCCGCCAAA	14283	CGTGTGCTGCGCAGACAGAT	25267	TGACAGTGGGAGCCTCGAA	36251
2626	GGAGAAACCAAGGCCACAGT	14284	GCTTAAACCTCAGTCCACCCTTA	25268	CCAGTTGAAGGAGGAGAAACCAA	36252
2627	GAGGAAGAGAGGCAATGTGACCAT	14285	TGTGCCCTCTCTCTCCAAT	25269	GACAGACGAGGAGAGAAGTCAACAT	36253
2628	ACCCACCCGCTTTCTCCAT	14286	TGAAGTGTGTCAGGGTTCGAT	25270	GCAGGTCAACCTTGGCTCTTAC	36254
2629	CCAGAGAAACACGGGCTGTTT	14287	GCATCGCTGCGAGAGGAA	25271	CAGCAGGGTCACTTTCCAGAGA	36255
2630	CCAGTTCCTCCTGAGTTTGA	14288	TCTGCCACCATCTGACTGT	25272	GGGACTCAAAAAGTGACATCCAGTTC	36256
2631	CACCTGAATCCCTGCGTAAT	14289	ATGCTAATGTGGGCCCTATT	25273	GCATATTCTCACATTCACCCCTGAAC	36257
2632	CTTTTACAGCCCGGTGCATA	14290	CCTGGAAACAAAAACGAGAAGTCAGA	25274	CCCTCATCGATGCCCTTCTTT	36258
2633	GTGACAATCAGGGTCTTGTCTCT	14291	TCCCAGGCTCCCACTT	25275	CCCCAGGCTAAGCAGTGACAAAT	36259
2634	TGAATGACTGATGAGATCCGTTGT	14292	CTTCCACACTTTGCCAGAAATG	25276	GTGACAGGGAGCTATTGATGACTGA	36260
2635	TGGCAGGAAGATGGCTTGAGA	14293	TGAGCCTCGCTGCACCTTT	25277	GGGTAGAGCATGGCAGGAAGAT	36261
2636	AGCCAGTAAGGGATGGGCTGAT	14294	TGGGCTCTCCCTCGAAATAC	25278	AGGTCTGGGCTTCAGTGGAT	36262
2637	TCTTCTCCCTCACAGCAAACTTTT	14295	GCAACATGGCTGGTACACATTTT	25279	GCCATTGCTCTCCATTGTTT	36263
2638	CCAGGCATCTGATTCAAGTGCAA	14296	GCAGGGTTTGCTTCTGCTCTA	25280	GTCTGAATGACCAAGCATCTGATT	36264
2639	CCTGGAATGGGCTTAGGCATCA	14297	GGAAACAGGCCCAAGGTGCAT	25281	CTCATACTCTGATTGCTCTGGAATG	36265
2640	ACAGGCCCTTTTGGCTTTGT	14298	TGCTAGACAACCTGGGTAGTAACA	25282	GCGGTAGGATTGGTCTGGGAAT	36266
2641	GGAGGCCATCCAACAGAAGATTG	14299	TGCTCCTCTCGAGGTAAAGA	25283	CCTGAGGCATAACCAAGTTGATCTTG	36267
2642	AGCAGGCAAGGCCAGAGTAG	14300	CACAGGCAACCTCTGCTCAT	25284	TCTGTGCTTTGGGCTCTTC	36268
2643	GTGAAACCCCTGTTCTTGTTGA	14301	CACGACGGCGCATGAAGAA	25285	CAGACTGTAAAGTGAACCCCTGTT	36269
2644	AGGAGGGGCACCAACTTACAGA	14302	TGTGTCTCGGCGGTGTGT	25286	TGGGCCATAAGAGCTGTGCTA	36270
2645	GGGGCTAAAGTCATCTACCCTAAAG	14303	GGGAGATCTGGGCTCACGTT	25287	CTCTGCTCAATTTGGGCTAAAGTCAT	36271
2646	CTGCCCCATTGACAGAGGTTCT	14304	GACCTCCAACCTTGTGGCAGACA	25288	TGGCTCTCTGCCCATTTGA	36272
2647	CACCTCTCACCCGCTATTGTA	14305	GGGCACAAAACCTCTGGATGCAA	25289	TGTGGCAGGGGACACCTTCT	36273
2648	GATGTAGGAGTCATGGGGATCTTG	14306	AGCCGTGGCTGTCCACAT	25290	GTGGTGGCGGAGACACAAAA	36274
2649	GAGCTAGCAGTATAGCACTGGTT	14307	TCCTGGTCTCTCCACTGCAT	25291	TCTCTCTCTTTGAGCTAGCAGTAT	36275
2650	CAAGCGGGTGCAACAGATGA	14308	CAGTTTGTGGGGCTCTGTCT	25292	TGTGTACCTGGAGGGCACAAG	36276
2651	CACGTGTCCTCGCAGTCAT	14309	GCCATCCATCTCCTTTTCTTACA	25293	GCTGGATGGCCACATTGAAC	36277
2652	GCCTGAGGAGAGAATGAAGGGTTCT	14310	TGGGCACCTCAAACTTAACACA	25294	CACCTGGCCTGAGGAGAGAAT	36278
2653	GCAGTGGTGATTGCTTGGAGTT	14311	TTGGGCCAACTTCCACTCTT	25295	CCACAGTATAGGGGAGACTTTG	36279
2654	CGGGAACAAGCTTCTTTGGTAAATG	14312	TCCTGTATCCCTGACTTGACTAGAA	25296	CTGGAAAAATGCCCGGAACAAG	36280
2655	ATACCTCTGGGACGAGAGGGACAT	14313	GAGATATGGACGGGAAGCAGAAAC	25297	CAACTCTGGCTGCTCGGTAA	36281
2656	GAAACCTTGCAAGTGTATTGACTCT	14314	TCGACTCATAAATGGCTGTGAAACA	25298	CCCAATAAAATGGCCTCTGAAACCTT	36282
2657	CCAATAGCCTGTAGGGTAAAGTTT	14315	GGGCTTCATTTGCCATCACTAGA	25299	CCTACCAGGCACAAATCTCTCT	36283
2658	CCTTGCCCTCCAAATCTATGTGACT	14316	AGGCCACAAAAATGCTTCAAGTTC	25300	GCTAAATGATTCTTGGCTCCCAA	36284
2659	GAGCAAAACCAACAGGGAACAA	14317	GGACATGGAGCAGGTAGTTAGCAA	25301	GCCTCCCTGCTACTTGAGCAAA	36285
2660	GTGTAGACAGAAACCTTGACCCAGAT	14318	GCAGGCAGACCACTCTGA	25302	GGGGTAGTTGGTGTAGACAGAAACCTT	36286
2661	GCCTGAGGTGGAACCTTGTGCTT	14319	CCCAATGTTTTAGTCTGAACCTGAAG	25303	TCTGACTGCCTGAGGTGGAA	36287
2662	GCCTGGATTGGCCTTCTCT	14320	GTGGAAGCCATGCCTGTTTG	25304	CCTATCCTGGGCTGGATTG	36288

2663	TCAGGGCCTGCTCTTGACTA	14321	AGGCCACGCTGTCTTCTA	25305	TCCACCCTGGGCTCCTCTGT	36289
2664	GGAGAGAACGTGGATTATAGACCGTTT	14322	CCCGGCCCTAAGAGTCACAT	25306	AGGGAGGAGAGAACGTGGATT	36290
2665	CCCATCTAGTCTTCTGCTGGCGATA	14323	GTGATTTTGGCAATGGCATCCTT	25307	CAAACCTGGATTGACTAGCCCCATCT	36291
2666	TCTTGGCTAGGGCGTTAGTAGA	14324	GAGCCCTTCGTGTTGATGAGA	25308	ATGGGACTACTCTGGCTATAGTCTT	36292
2667	GTCTGACCCAAGGAAAACGTTCTGA	14325	GCAGCACCGGCAAACTAATAACAAT	25309	GGACACAGTCTGACCCAAGGAA	36293
2668	GAGCTCAGGCTCTGACTACTTGAA	14326	CCCCTTGCTAGAGTCATCAGA	25310	GTCTGGACAGGAGGGCTTCA	36294
2669	GGGTCTCCAAAGATTCTCCAGAT	14327	GCTGCTGCCATGACCTTGAT	25311	TGGGAAGGGTCTCCCAAAGA	36295
2670	GGGTGGATGATGCTTGGGTAAC	14328	ACCTGGGTTTAGGCTGATGAGAT	25312	TCTGGAGGTAGGGTGGATGATG	36296
2671	GTGAGGCAACCCAGAGAATCATA	14329	CTGGCTAGGGTCTTAGTGTT	25313	AGCCAAGCATGGGGTAGTGA	36297
2672	CCCACAATCAGGAAAATTGCTTCA	14330	GGACTTCCCCACCAGCGTTTTT	25314	CCACTTCCCTTCAGTATAAATCCCAACATC	36298
2673	CAGGGAACCTGGGCATAAGCCTTT	14331	TCTCCATGGAGCTCTTCCAAATC	25315	CCTGAAACAGGCTTAAACAGGGAATC	36299
2674	AGCCCTGGCTAATTCTCTCTCA	14332	GAAACAGGTTCCAGTGGGTAAGA	25316	TGGAGCCCTGACCTGCTTAG	36300
2675	CTTCCGGCCGAGAATATGGAA	14333	CAAGCAAGGCTTGGATCAATAAAG	25317	GGTCTGGGAGCCAGTGTAACCTC	36301
2676	CCAGAGCCCCATTTTCTACCAA	14334	ACTGAAAAGCACCCACAT	25318	TGTGCATCCAGAGCCCCATT	36302
2677	GGTGACACACAAGTAGTCAGA	14335	GCTCACCATCCATGAGGAAACA	25319	TCCAGGAGGTGCAGACACAA	36303
2678	GGCATAAGGCAGAGCGTCAT	14336	CTCCATGGGGATAAAACAGTGGTAAC	25320	TGCAAAGCTTAGTACCTGGCATA	36304
2679	TGTTGTGACTGCTGCCTTGTGA	14337	CGAGGCCAGTTCCAAGAAAGA	25321	GGAGCGCATTTAAGGGGTTTTTG	36305
2680	CCGTGCTGAAGTTGCATCA	14338	GCAGCTGGGGAGGAAAAAGTGATG	25322	ATGCTTTCCCGCTCGCTGAA	36306
2681	GAGCCTCCCTCACCTTTCAGAT	14339	CCATGGCTCAACTCTTCCACGAA	25323	TTCACTTCCCAGGGGCTCTT	36307
2682	CTCAGGGGTGGATCTTTAAGCCTTT	14340	GGCATCACCTGATTGCTGATAGT	25324	TGCTGACTCAGGGGTGGATCTT	36308
2683	GCCAGCACACAGTCATAGTGAAC	14341	CTTCAGCTTCTGTTCTCCTT	25325	TGACGAGATGCCAGCACACA	36309
2684	AACCGCAGGTTTCTGAGTCAA	14342	AAGAGGGCAGGTCAGGGATTG	25326	GGCCCTGTTTGCCACAGAAAAAG	36310
2685	GGTTTGTGACAGCTGGTTGACAT	14343	GCTGGATGAGGGAACACCTGATTTT	25327	GAACAGCTTTCATTGAGTGGTTGT	36311
2686	CCCTCTGCAAAACAGCAACT	14344	GAGGGAGAGTTAGGGAGGCCATA	25328	ATGTTACCAATCCCTCCTGCAAA	36312
2687	GTGAGGCAGTATCCAGCTTCTCA	14345	TGCTGTCCAGTCTCCTGTT	25329	CATACCCGAGTGAGGCAGTATC	36313
2688	CCAAACCTCCAGCTCTGTCATTC	14346	ATGGACCCACGGGGACCTAAT	25330	GACCTCGTAGTCTAACCCAAAC	36314
2689	ACTCAGCCCCGCAAAGAAG	14347	TTGTGCCCTAGAGGATGTCTACT	25331	GCTGAAAAAGATGGAGAGTTCACCTCA	36315
2690	CGCCACGCCCTGTGATGTAAA	14348	TGTTTTTGCTCCCACTGACATCT	25332	GCCTCCCAAAGTGCCTGAAC	36316
2691	TTGTGCCAGGCCCTTTTC	14349	CCACAGGGACCCCTATCACTTATG	25333	TCTACTAATGCCCTCACTGT	36317
2692	TGTTTGTGAGGTGTTACCACTGT	14350	AGGTTGCAGGCGGGATTGA	25334	CAGAGAAGGGAAAGCCAGTAAATAGTGT	36318
2693	TCTGCCCTTGGCACTGTGAGA	14351	GGCAGAGGGAGTGCCATAAACA	25335	AGTGATGCGGGTGTCCACTCT	36319
2694	GCATGTGGGGCAGCACGTA	14352	GCCTGCCATCCCTGTACACT	25336	AGAGGCGTCTCCAGGACTCTT	36320
2695	GGCTATTCCGTAGTACTGCACAT	14353	GTGGGAGCAGGTAGAGTGAGA	25337	GTCAAGGGGCTATTCCGTCAGT	36321
2696	GCCAAGCCAGAGGGAGCATT	14354	GTCTATATGGTCTTGGCAGCTGAA	25338	TCAAAGCTCCGGGCTGTTTAG	36322
2697	CCACCCAGAGGCCAATGTCTAAG	14355	GTGAGCAGTGCGCGTGACT	25339	GGACCGTGAAGGCACACAGA	36323
2698	TCCAAGCTTCGCTGCTCTTG	14356	CTGTGGATAAAGCCAATGGATACTGTT	25340	TCCCATTCGCGCAGACATCA	36324
2699	AGACATGGCCAGACAAGACATAG	14357	GGCTGTGTCAGTGTTCAGTTGTG	25341	AACCTGCTCTCAGGACATCAT	36325
2700	CAGTCTTGCTCTTCCCAAGAT	14358	TTTGGGCTGGAGACCTCGTT	25342	ACCCTGGCAGTCTTGCTCTT	36326
2701	AGCCAGGTGCGTAGCATAAG	14359	AACCTACCTCTGCTGCTATATCT	25343	CCAGGCATGGGAAGGAGACA	36327
2702	TGGGCCCTTGTGACCCAAT	14360	CGAGGCTCGAGCTGTTGTGA	25344	CAAGTCAAGTTTGGGCCCTTGT	36328
2703	GTAGGGTCGATTTTCATCTTCCCACTA	14361	CCCCGTGACTCAATTGGCTCAT	25345	CCTCATATCAAAGTAGGGTCGATTCATC	36329
2704	GCATCTACACGGCACATCCATA	14362	GACATGTGGGTGTAGACACGAGGTA	25346	CCACCCATCTATCCCATGTCATCT	36330
2705	GAGGGTAAGCCAGAGAACCAATG	14363	AGGAGAGCAGGCACACCCATA	25347	TTCCGCCGCCAGATTGTT	36331
2706	AGGAGCTCCGAGAACAAGACT	14364	CTGCCTCAGTGAATCCAGACTGATG	25348	GGAGAATAGTCCCTGCCCTCAA	36332
2707	CAGGTGGCGGGAACCTAATGA	14365	ACTGTGTGCCACAGCAAAC	25349	GACTTCATGTGATGGGTGCATTCT	36333
2708	GAGCTGCAGGAGGAAGAAGATG	14366	AGTCCCTTCTGGGAGTCAAA	25350	GTCCAGCTCATTTCCAGTAGA	36334
2709	GTGCCTATTGGAAGCCTGAATTGT	14367	CTCAAGTCCCTTCAACCTTCCTT	25351	AAAGCAGTAGTTCAGAGTGCCTATT	36335
2710	AGCCCTGTAGACCTGGGATTC	14368	GGACCTAGAACCTGTGTCCCTTGT	25352	GTGGCAAGTCAGCCCTGTAGA	36336
2711	TTCAGGGGCCCTTTGCTCTTC	14369	GGGAATGGCTCGCTCACGTT	25353	TACGGAGGCCAAGGGTTCA	36337
2712	CCTGGACCTAAGCCGGAAGTCATA	14370	GGGACATGGCAGAGCTGAACATA	25354	TCGTAAAGGGGCTGGACCTAA	36338
2713	GGGCATGATGAAGAGGCACATAA	14371	TTGGAGACCACCAAGAATCAAGA	25355	CCACCTAGACTTGGGGCATATGA	36339
2714	GCTCTCCCCAGCCTGTTCTCT	14372	CATGAAGAAGACGGGTATCTGGAA	25356	AGCCTGCAGACCCCAACAA	36340
2715	GCACAGCCATCTCTGACTGGTT	14373	GCTTGAATCTTGCAATCATCTGCTT	25357	AGAACAATTTACCGACAGCCATCT	36341
2716	GATGGCCAGGTAACGGTCATAG	14374	CGCCACCGAGTGCTTTCT	25358	GGCTGCAGATGGCCAGGTAA	36342
2717	TCGGGTTTGGAGGGGTAGAGA	14375	GGCTAGCAAAGCTCCACACA	25359	TCAGGGTGGCTCGGGTTTG	36343
2718	TGGAAACACCTGAGGCTAGGTA	14376	GCTGGAGATACTACAGCAAGCAA	25360	CAGTCAGTTTCAACCCCTGGAAAC	36344
2719	GGAGTGGGGTTACAGAGGATGTAG	14377	CTGCTGCTCCCCAATCCTAACT	25361	TCTGCCTGCTCTGTGGAGGAT	36345
2720	GTATGCCAGGTGCTATGCTAAAG	14378	GGAACCTGGGCCTCATTACCACTT	25362	TCCTACTGTATGCCAGGTGCTA	36346
2721	GTTTGCCACTTCTCTCACCTCTT	14379	TGACAACCACACGCTATTACA	25363	GCAGATGTACAGTGTGTCACCTT	36347
2722	GACTTAATCCAGGACCCTCTGTTTT	14380	ATGCGCCACAGTGGGTACA	25364	CAGTTGTAAAGAGGCCAAGCCTAGA	36348
2723	GGCCCTTGTCAAGTTTCAGACA	14381	CCCTTTGCGACATCTTGTT	25365	AGAGGACAGGAGACCCGAGAA	36349
2724	CCCCTCACAAAAGCTTCTGCAT	14382	CCCTGTCATCCATGGGAGCTTA	25366	CGGGCTGCCCTCACAAAA	36350
2725	TCCCTTAGAGACCGACCTTTGT	14383	CAAGAGCATGAAGCAAAGTGACAT	25367	GGTGATGCTTTAATCCCTCCCTTAG	36351
2726	GGCAGCTGGGATACACCACTA	14384	CCCCAGAACTCAGAGTCAGCTT	25368	GGGCTATACCAATCCAGCCTAT	36352
2727	AAACGGGGCCTTGCTGCTT	14385	GCTTCTTGGGAACCAGAGCAGTT	25369	GGGGCTCCCTGGCCTTAAAAA	36353

2728	GGACATCTCCTCAAGGCTTGTT	14386	AACAGCAGCTGCGCTCCAT	25370	GGAATACAATCTGGGACAAGGACATC	36354
2729	CACCTTCTTGAAAGCCTTCCTTGAT	14387	GGGGCACAAAGGAGGAGACAATTA	25371	CCCAGCTAAAGTGATACACCTTCTTG	36355
2730	TGCCACCATGCCCATCTAAG	14388	AGGAAGACCTGTCTCTACAAAATC	25372	AGTAGCTGCAATTGCCACCAT	36356
2731	TGGCAGGAAGCCACTGGAAA	14389	CGTTTCCACCTGTCGAGTCT	25373	GGATGCTGGGTGTTATTCCAGTGT	36357
2732	AGCCTCCACTCTTTCTCATAGGAT	14390	TGGGAAGGAATGGCATCTAACTCT	25374	GCTCCCCACTATTATTTCCAGTTA	36358
2733	AGCACCTTTGCAACCTCCTT	14391	CCCAATCAGACGTGAAGTTTCTTG	25375	GACACACTACTTCAGAAGCACCTT	36359
2734	GTCCATGGGAAATTCACAGAGAAGGAA	14392	CCTTCTCAGGTGCAGGAAAAGT	25376	GGGAGTCCCTTAGTCCATGGGAAA	36360
2735	CAAGGCTGGAGCTTACCAGGTT	14393	AGCAGGCCACTGCTCAAGT	25377	CCCACCAATAGAAGAGCCTGAAC	36361
2736	CGCCAGCTAAAAACCCAAATCA	14394	CTGAGACAGCCACATTCTGTAA	25378	TGCCTCCGCGAGCTAAAACA	36362
2737	CCAGCAGACACAGCAGTCTAGT	14395	CTGCTTCCAAATCCCACCTTCT	25379	ACCTAACACCCCAGCAGACA	36363
2738	TGTAGGCCAGTTGAGCTCTTG	14396	GAAGACCTGTGTGAGAAGCAATGA	25380	GGGCTAAATGTAGGCCCAGTT	36364
2739	ACCATGGCCAGGGCTTCTAT	14397	TAGAGGCACACCCACCATGT	25381	CCCAGCCATCACCCACCAT	36365
2740	TGGCAGGGCTCATTTCTGATG	14398	AGCATCTCCGTGCGTGGAA	25382	CCAAAGCCCCAACCTGGCAAT	36366
2741	GCCAAACTGGAAATTTGTTTCGGTACT	14399	CTGCCACAGAAGTTCACCAGAT	25383	GGGCTTTTGTGAGCCCAACT	36367
2742	TGGATGGAATGCTCTCCCTTCT	14400	GTGGCTTTAGCTGAAGTGTGAA	25384	ATGCCCTCTCCCCATCCAGCTT	36368
2743	TGAGCTGTGTAATAATGGACTCTT	14401	TGAGCATGTACGCCATTACCAT	25385	GTTCGTAGATTTGAGCTGTGCTAA	36369
2744	CTCCCCGACTCACCATTTGGAT	14402	GGCTACAGGAACTGAATGTGGAT	25386	CCAAGCACTCCCCGACTCA	36370
2745	GCTTGCTGGAAATGGCAAGT	14403	TGAGGGCTGCCCACTGTAG	25387	ACTGGGAGGCTTGCTGGAAA	36371
2746	TGTTGACAGGCCCAACCTT	14404	GCCATCTCAACCTCTCTGCTTC	25388	AAGCAGCTCTAATGGCTGTTGA	36372
2747	GCTTGGCCTATGTTGGTTACT	14405	GCCCAAGGTCACTCGTTTACT	25389	GGCCTGACTTTCTGTGGCACTA	36373
2748	GATGGAAGCAGGTGACAGTGTTC	14406	AGGACTTTTTCTCTCAGCACAAT	25390	AAATGCATTCCCCAGAGATGGAA	36374
2749	AGCACCCAGTTGTAACAAACAGT	14407	GACTACATAGTACGTCTCCAGTGACA	25391	TCTTTCAAAGCACCCAGTTGT	36375
2750	ATGTGGTCTCTGGGGCTCTGT	14408	TGGGTGGTGACTTGTCTGCTA	25392	GGGCAGAAATAAGCAACAAAGCCAAT	36376
2751	CTTGCTTGTCAGAACTGGAA	14409	CCTGACTCCTTGTCTAGGCACTT	25393	GGCGTGGTGACACAAACTT	36377
2752	ACCCGCCTTCACTGCAAAATG	14410	GCTGTCCAGAGGAGAAATGATGA	25394	TGGCCAAACCCGCTTCA	36378
2753	AGGTCTACACCTGGCACTATGTA	14411	CCCCAGCACAGGCAGATGT	25395	GCAACTCCCATCCAGGTCTACA	36379
2754	GGCTGAAAGGGGCTTGTATGA	14412	GACTCCCCAAGGGATAGGAGTATG	25396	GCATAAACTCGGGTATGGCTGAAAG	36380
2755	CTTGGCACTGCAGATTCAAAGTT	14413	GTGACTTGAGGGCAGAAACTGA	25397	ACCATGAACCTGTCTCTCCTT	36381
2756	ACGCAGAAAACCTGGTGGATGT	14414	CGAGAAGACTCTCCACATGTGTTT	25398	CCTGGAGCTAAATGACGCAGAAA	36382
2757	TCCTGCCTCACGCCCTTTC	14415	CGCCAGAGTAGTGTGCTGCTATT	25399	GCTCTTCCCTCACCACTCTCT	36383
2758	GCGGGGCCACTTCTTACAGTT	14416	CATTACTGGAAGCCGCAGAGA	25400	CATGTGCGGGGCCACTTT	36384
2759	GACCTGGGGAGCAATAGCAA	14417	CATGATGTGCTGTGACGCTGTT	25401	GTTTTACCTAGGCTGAACGGTACT	36385
2760	GTTTTGCAAAGTTGTGGGTAGA	14418	GCCAACCCACCGACACCAT	25402	CAGTGTCAGCTGTTTTGCAAAGTT	36386
2761	TGGAGGCACCACTCAGGTTTGA	14419	AGGACCTGTGAGGCCACATAGA	25403	GGTACAAAACTCCTCAGTCTTAACCAT	36387
2762	GAGTGCAGTGTCTGATGGTGGAA	14420	CTGGGGTTCAAACCTGGTCTTT	25404	CACCTAGATGGGAGTGCACTGT	36388
2763	CCCTGCCTGCTGTGTTTTTC	14421	GGCTCCACACATGTGGCATT	25405	GCTGGGAGTCACTGCTGTTTCA	36389
2764	TGCACCTCCAGCTGTGTGACT	14422	GACCAAGGCCCAAGTTGAAAT	25406	GACTGTCAGGTCCAAGTGCAT	36390
2765	TCCCTTCACTACCATCCAGAA	14423	AAAAGACCCAGGATGGACTATTATG	25407	ACTGCCTGGCTTCCCTTCA	36391
2766	GGAGGCCACTTGGGGATCTT	14424	ACGTACATCCTTGCTCTTCTGA	25408	TCTGGATACAGGAGCCACCTT	36392
2767	GGGCCAGTCTTATGAGCCTT	14425	GCTCACTGTTTTAGTCTCTTCTCA	25409	CAGTCTTCATGGGCCAGTCTTC	36393
2768	CCAGATTGGCTCCCACTGAAA	14426	GTTTTGCTCCAGGACTGTTTTGT	25410	ACCAGTGTCACCCCAGATTG	36394
2769	GCCTCTGTTCCATCCCTTCTTC	14427	AGCCCAAGCACTCACCTTTC	25411	GATCTGTTGGCTCTGTTCCAT	36395
2770	CAGTAACGCTCACCACAAGTTACA	14428	CTGCAGGGGCTGAGAAATGTAG	25412	CTGATGACATGCAGCAGAGACAGT	36396
2771	GCTGCTGGACACCAAGTGCAT	14429	AGCAGGCACGGTCAGCTT	25413	TTGCCTGCAAGGCCAACT	36397
2772	TCCCTCACGTGGCTGAA	14430	GCGCCAAAGAGCTGGAATG	25414	CCAAGGAGGAACAAAAGGAGACA	36398
2773	TGGTCAGCAATCAAAATCCTTCTA	14431	ACCTGGGACCCTTGTTGAA	25415	GGAGGACAGTGTATGGTCACGAATC	36399
2774	GAAGGTACAGAGAAGGAGTTTGAGA	14432	CCCATCCGTATTTCAGACTTCA	25416	GAGGCAAGGCTGTTCTGTGA	36400
2775	AACGGGAAGCCTCCAACCAA	14433	GGTGTGGACACGTCTGAGTTC	25417	GGGTATGGAGAGGCCACATTG	36401
2776	CCCAACTCCATTGCCCCAGATT	14434	GGGCTACTTCCCCGACTCT	25418	CATCTCTGCCCAACTCCATTG	36402
2777	TTTACCACAATCCAGCAGTCT	14435	AGCACAGGGTTCCTAGAGTTG	25419	CATGGGTGGTTTTTACCACAATC	36403
2778	TCTTTTGTATCCCAACAGTGCTT	14436	ACAGGCTCTGGCCAAGGGTAAA	25420	CCTGCCCTGGGGTTTCTTTGT	36404
2779	GCACCAGTATGTAATGTAAGGGTTT	14437	TGCCAGCCGAGGCAAAAT	25421	CATTGAACCTCAGCACACGTATG	36405
2780	TGTCAAGCTGGTGTGTCTT	14438	GAGGGGATTGAGTCAGACAGATTAG	25422	GGGCACTGTGTTTTATTTCTGTCAA	36406
2781	TGGCAGAAATCCCGTGTCT	14439	GCATCATTCATGCCACGCCATTG	25423	CCTGCCGGATGGCAGAACAT	36407
2782	GGGGAGGCTTAAAGGAACAGCTTAG	14440	GTCCAGGCTTGGTGGATGTCA	25424	GGGAGATGATTAGGGGAGGCTTA	36408
2783	GCATCCGCTGAGAAATGGTGTG	14441	GACCAAAAGAGGCGGAACACATC	25425	AGTGCTGCATCCGCTGAGAA	36409
2784	AGAGTCTAAGGGGCTCTTTATCCTTA	14442	GGGGCTGGGCAAAATCCAA	25426	AGCGGCTCTCTCTACAGA	36410
2785	TGTGGTCTCAAGCAGATGATACAA	14443	CCTGTCTGAATCAGTGGGAATT	25427	TGCCATGGTGTGGTCTCAAG	36411
2786	TGTTCTAGGGAGTTCTCGGCTT	14444	TCCTTGAACGTTCCCTGAAT	25428	CCGCTGCTGGTCAATTGTCTA	36412
2787	GGGCTGTATTACACAGGGAACA	14445	GTTCAGCACTCTCTGCTAGGAT	25429	GCCAATGGCTGGGCTGATT	36413
2788	GGGGCAGTAAGCAAGACTCA	14446	TCGTCACACGCGCTTCACT	25430	TGCCTCTCTGGGGTTT	36414
2789	CCAATCTGGGCATCTGAGTAACTT	14447	GCAAGGGACCAAGTCCACAGT	25431	CACAGCCAATCTGGGCATCT	36415
2790	CCAGGTGCCACATTTCTCT	14448	TTCCGGGGAGCTGTCTATCT	25432	GGCAGAGAGTATACCACCACCTT	36416
2791	AAGACCTGCCAGGGTCATCA	14449	CCAGGACTGCCTTTGGCCTTT	25433	GCTCAATACGGAGGTCGGAAAGA	36417
2792	GGTGGGGTAAAAATCAGGTAGATG	14450	TCCCTGCAAGACCCCTTGT	25434	CCCTGGGTGGGGCTAAAAATC	36418

2793	CCTCTGATCTCTGTATCAGTGGGAATC	14451	TGGGCTCTGGTAAGCCTCAGTT	25435	CACATTGAAAAAGAACCTCTGATCTCTTG	36419
2794	CGAACAACACTGGGGTACAGCTA	14452	CTCCGACATCTACTGTCTCTTTC	25436	GCTGAGTATACAGCCATCTCGAACAAC	36420
2795	GGGTCTACGTTTTTATGCAGTCAAG	14453	CAGCAAACAGTGCAACTCAAC	25437	GGGAATAGCCTAATAGGGTCTACGTT	36421
2796	GCCTCTGTGTCACTCTTGGCTTT	14454	ACTGACCACGGAGTGTCTGA	25438	AGCGTGGCCTCTGTGTCAC	36422
2797	GGCTCTTGGAATTGTTGCCATGT	14455	GGAAATTGGGGCCCTGCATTCT	25439	GATGAGCTTGGCTCTTGGTAATTG	36423
2798	CAGAGTGTCTCAGCTGTCTAAGT	14456	GGTATTGCAGTGGCCAGGAA	25440	GCTAGGCTTGTATGCCAGAGTGT	36424
2799	GCACAGGTTTGGTGCCTGACA	14457	GAGACCCAGAGCTAGAGTCTCT	25441	GGTGAAGTAGTGAAGGGCACAGGTT	36425
2800	CTCACTGCTTGTCTGTGTTGTTG	14458	GGAAACCAGATTCTCTGAGGGAAAA	25442	GCATTTCTGCTTCCAGGTTTCT	36426
2801	GGTGTGCCTAAGAATGTAGTCTTAA	14459	AGCAGTGCAGGACAGTGAA	25443	GGACGGGAAAAAGGTGTGCCTAA	36427
2802	GTCACATAACTGCACCTTGTCTA	14460	CTGGGGCAAACACAGAGGATAG	25444	ACCCAGCTTCAGTCACTACAAC	36428
2803	TGTGCTCTACCCCACTGTGT	14461	GAGACCTGTCTTGACAGCTTAG	25445	ACCCCAAGAGCCCACTTTGT	36429
2804	GCAGAAGCTTCTCTAGCAA	14462	GTGGACACAGGGGAAGTAGGTGAA	25446	GAGCGCACATTATGTGTCAGAA	36430
2805	TCCCATCGCTTGTGTTGA	14463	TGGCCCCAGCAGTAGGTCTT	25447	AGCCTGAGACCTGACCTTTC	36431
2806	AGGATGGCCTTAGCTGCTTTG	14464	GGAGGCAGCCAGTGATCTTT	25448	GGAAGGGATCAAGGATGGCCCTTA	36432
2807	GGGAGAGGAAACAGTAGCCATT	14465	GCACAGTGTCTTCTCTCAGT	25449	GGAAAGGAAATGTGGCACTCTTG	36433
2808	CTGGAAGGCTGTCTTCTACTGGTT	14466	ATGAGGCTAGCAGCACTCT	25450	CACAATCGGTGAGATCTTATCTGGAA	36434
2809	AAGAGGCTCCGATGGTGTTC	14467	GACTGTTGGCCTGTCTTAAGAGT	25451	CCATGAACATTGGAGTGTGCTTTTG	36435
2810	CCGATGGTACCTGAGGACATC	14468	TCTTGGCCCTCTGCACCTC	25452	AGCAGGGACATCCGCATGGTA	36436
2811	GCTGACCACATCGGCTTTCA	14469	CCTAGACCGGGCCGTAGAAG	25453	GCTCAATCCGACTGTGACGAGTT	36437
2812	ACAGGGCTATTTCAAGGCTCCTT	14470	ACTTCTCTTTTGGCCTGTTGTCA	25454	GGCTGAAGTCTACAGGGCTAT	36438
2813	TTCAGGCGCCGGTAGTT	14471	GCTCCGGTCAAAAGGGAAGT	25455	GGCAACAGGCATGGGAAAG	36439
2814	CGGGGAAATGGCAAACAGGAT	14472	TGTCTAGCGAGGAGCGTGTGA	25456	CTCGGAAATCCACGGGGAAATG	36440
2815	TGGGCCGAATTCACACAGT	14473	ACAGTCTGGCCACAGTCTCTT	25457	GCTAAAGGGTCTGGGAGGTTTG	36441
2816	CCAAGCCGATGCCCACTCTA	14474	GGTGCCACAGACTTGAGAGTGT	25458	GGCTTCAGGGCCTTAGACACTTG	36442
2817	CGTCTTTTCCAGGGTTCGTACT	14475	GGGAGTTAGCCTGGGACCAAT	25459	CGGAACCTTCTCATCTGACACGCTCTTTTC	36443
2818	CTCAGACAGATCACTGCTTTGAAGA	14476	GGCAGGGATTCCCAAGGAGCTAT	25460	GCATCTTCAGGTCTCAGACAGATCACT	36444
2819	CTCATCCCTTCTCCCAAGCAT	14477	GCTGCCCTCCATGGTCTGT	25461	TGAAGCACATCTCTCATCCCTTTC	36445
2820	CCCGAGGCTTGTCTTTTAGTT	14478	GCTTGAGAAACCCTGCCCTAGTA	25462	AGAGGTTTCCCGAGGCTTGT	36446
2821	CAAAGCTCTTTGATTACTGGCTTAC	14479	AGGGGAGCGCTTGAGCTATAC	25463	ACCATTGCATGCCTGACTTCAA	36447
2822	ATGGCAGTAGTGCTTCTCTTC	14480	CCCGCTGGTAGCTCTCAGAA	25464	CACGTGCAGAGCCGTCTCTTGT	36448
2823	GTGGAAATGAAGAGAGGGTTGACAT	14481	ACCTGCAAGTTACTGGAGCTTT	25465	GGGCAAGCGTGGTAAGTGGAAA	36449
2824	GGGGAGTGACAGAAGGGAATAGGATT	14482	AAGCTGCGGCTCCTTGTGT	25466	GCCACATCTGGGAGGCTTGACA	36450
2825	CGTGACCTCGGCCTTCACT	14483	CAGAACCCTCTTCTTGCAATGAT	25467	TGAGCTGGGCGCTACTAC	36451
2826	GACAAAGACAGCTTGGCAGTGA	14484	CAGCGGCCTCACTACAGTATT	25468	CTGGGTTTGTCTTACTAAAGCCAATG	36452
2827	CAGTGCTGGGTCTACAAAACACTTTC	14485	CCCTAGAAGTGCACCGAGTCAT	25469	GCACACAGTGTCTGGGTCTACAA	36453
2828	TGAGGAATTCAAGGCTGAAGATGT	14486	GGGGTACGTCGGTGTCTATC	25470	CACAATGTTACAGAGGGTAGAGTCAT	36454
2829	GGCTTGTACACCCCAACCAATGAA	14487	CAGTTTTTCCCAACAGAACAGTAT	25471	TCCCAATCGGGGCTGTGTA	36455
2830	GGCAATGGTGAAGCAGGTAAGAAAC	14488	GGGAAGCCACAGAGAGCAAT	25472	CCCCAGGGGCAATGGTGAA	36456
2831	CCTATCTGAGAGCGCAGGTGTGTA	14489	CTGCCTTCTAGGGCTGACA	25473	CTGTGCAAGAGGTCTCATCTATC	36457
2832	CACCCACACTGTCCATTCA	14490	TGCAGATGCAACTGTGTCCAA	25474	CCCGAAATCATAGTCAACCCCACT	36458
2833	AACCTTCTGCAAGGAGACAAA	14491	GGGGTTGCAGCTAGCTTAACCT	25475	GCCAATGAGCAGCAAGGACAA	36459
2834	GGGTGGGAAGTCTCTCTTAGA	14492	AGGAGGACCGCAGAATCTTCA	25476	ACAGAGTGGGTGGGAAGTCT	36460
2835	ACGTTGAGAGCCAACCCAT	14493	CTCACACTGGCGGTTTCA	25477	ACTGCGGTCACGTTGAGA	36461
2836	AATTGTACCAAGTGCCTGAAGTGA	14494	GCCGCCAGTATGCCCTATT	25478	GGCAGACTATTCTTCCGCAAT	36462
2837	TGGCACAGCCAGGGAACAGAT	14495	CTCTCTCTCCATTGTGCAAGT	25479	AGCTCCAATCGCCCATCTTG	36463
2838	TGGCTGCTGCTGCTCTCTTCT	14496	GGTGGTTGTGCATGTTCAGGAGACT	25480	AGGGCCGTGTGATCTATTITGT	36464
2839	GGCAGACCATCTTTACAATGA	14497	GGTTTCTCCAGTAAGTAACAAAGTCT	25481	GGAGAGTGGCAGACCCATCT	36465
2840	CTGGGGACAAGCGCTCCTT	14498	GGGACACAATTCACCCATAACATCT	25482	CCGAAATGCTTGCCGTCTAT	36466
2841	CTGGGCTCTTGTACTCTGCTATT	14499	GGAATCTGCTTCTTCTTGTCTCT	25483	CTGTGAACTGGGGTCTTTGT	36467
2842	GCCTGCTGTGTGAGGACAT	14500	ACATCTGTCTGCACCCCAAA	25484	TGTGGACTTGCTGCTGTGT	36468
2843	CACCAGGTACTCGATCCATCTCT	14501	GCAGCTCCAAGAGCAGAGGAGATA	25485	CCTTGTGTCACTTTTCAACAGGTA	36469
2844	AGTTCGAGATGACCCCATGA	14502	TGATTAAGCTGCATCGTGCAATTG	25486	TGGTGGCCAAGTCCGAGAT	36470
2845	TCTTGGGGACCAAGTGATCA	14503	GCCCAAGAACTCCATTGCTAAGTTC	25487	GTCCACGCCACCATATCTCTTG	36471
2846	AGGGGACAGGGAGAGTGATCT	14504	ACCCAATTCAGGAGCATTAGCAT	25488	GGGGTGGGCTCCAGATACAGA	36472
2847	CAGAACAGGTGGTAGGGAGAGA	14505	GGGTCCCAATACTGCAACTGA	25489	GGGTGAGAGGAATGCAGAAAC	36473
2848	GCTTCCCTCATCTTGGGAAC	14506	GATGCACCTCCACTGGGAAAA	25490	CGCAAACTGTGATGCTTCCCTATT	36474
2849	CTTCCGTGGTCTATGGGTTTATGA	14507	TGTGTTTCTGCATTGTGAGGAGTT	25491	CGATCTCTAAGGATCTTCCGTGGTCTA	36475
2850	CCTGGACTCTTTCAGGTCTGAAGT	14508	CAGGTGGCAGGAGCAGACAA	25492	CCGTGACACCTGGACTCTTTC	36476
2851	GCAGGCCTTAGGCTTTGTCTA	14509	GGAGGAAGGGTCTGAGCATTC	25493	TGCTCTCAAAACATCAAGCAT	36477
2852	GAGAGATGCTGCACTGGACTCA	14510	ACTAGTCTGGGAGCCTCTCCTT	25494	AGAAGCCATGGTGGGGAAGA	36478
2853	CAGCCTCGTGGAGCAGGAAGTA	14511	TACCTGTGGCAGCCCTTCTCA	25495	GGTCAGCAGCCTCGTGGA	36479
2854	GGCAATGTTTAGGAGGACTTTCTCA	14512	TCTCCAGCACTGGTCTGTCT	25496	GCGACATGATTGTCAGGCAATG	36480
2855	AAGGACATCTGCGAGGAAAGTT	14513	AGAGACGTGGCACTTTGTTGA	25497	GCGGTGCAGAGCACAGAGA	36481
2856	CCTCAATCAACGGGGCAACCAA	14514	CAGGCCAGCCTGGTAACCTAAC	25498	GAGCTCTAAACCAACCTCAATCAAA	36482
2857	TCTCCGCTGACCCGGTGTA	14515	GCCACTGTGTCAGGGCATCAA	25499	ACTCACGGGCTCTCTTCTCT	36483

2858	TGACCAGTTCCCACTCTGT	14516	AGGGGCTGTTGGGACAATG	25500	GCCTGGACAGACAACAGCTACT	36484
2859	GGCCACGTGAAGATGACAGA	14517	GACAGCCAGGTGAATGTTCTACACA	25501	ATGTCTGGCTGTGGCTGTG	36485
2860	GGTTTGTGGGATCAAGACCTTCT	14518	TTGCCACTCCTGACCTAGT	25502	CCCTGAGCTAGGCTTGGTTT	36486
2861	TGTCTGTCCCAAGCCAGACT	14519	GCAGGGACCATACAGACTCCAA	25503	GCCACAGCCAGAGAAACACA	36487
2862	GCCCATCTAGCCTGTGTTAGGAAGA	14520	CCTCCACTCCTATGGTGCTTAG	25504	GGCAACAGACACAGCCCATCTA	36488
2863	GCCTGGATTGGATCGTAACTCTAC	14521	GCTTGGGATTGCACGGATCA	25505	GAAAAGAACTGGAAGCAGGCAACT	36489
2864	AAGGCTGTTGGACAGACACAA	14522	AGCAGGAGGGTGAAAGACTGT	25506	GGATAGGCTGGTACCATGAGAAG	36490
2865	TGGCGCCATGACAGAGGGATA	14523	AGGCCACGATGGCCACTA	25507	TGGACAAGCCCTTAACACTTGATG	36491
2866	GCCTGCCACCCACAGAACTT	14524	CCATCCATCCTCCAGGTGTTT	25508	GGCTCCAAGGATTAAGTCCACAGAA	36492
2867	GGAGCCTGTACTCTGCACTGA	14525	CGTGAACCTGACTCCTTTCTGGAT	25509	GGTCAATACTTAGGGAGCCTGTACT	36493
2868	GTGGCGGGAACGCAATATGA	14526	TCTACCAGCTTGTCCTCAAATTC	25510	GTTTCTTAAGTGGCGGGAACA	36494
2869	GGCCCTAGACTGGAGCCAAAAAG	14527	AGGGGAAGACGTTTGGGGTAA	25511	TTGCCCTTTGGCCCTAGACT	36495
2870	AGGACTCCATCTGCTTGTGTTT	14528	CCAGGGAGCCTGCACACAT	25512	TGTTCCCAACGAGCTCCATCT	36496
2871	CACCAGCTCACCCTTTGGATT	14529	GTGGCATAGGCTGTCTGCAT	25513	ACCAGGGCTGGGAAGTCA	36497
2872	CTCTGCTGTCCTTTCTGCAA	14530	CTCTAGCATGCGGTGGGTAA	25514	GAGCCTAGTGATCGGGGTTTCT	36498
2873	GTTGCCAGACTCCCGTTAC	14531	GGAAGGCAGTGGAACGTAATTG	25515	GCCTGATGTGTGCCAGTGTTG	36499
2874	GGAAGTGGTGGGAGGGAGAA	14532	GCCTTCCCTACTTTACTGTGCGAA	25516	CTGGGGAACTGCATGGGAAGT	36500
2875	ACCAGGAAGTTGGATGGGACTTA	14533	GGAAGGAGCCAGCTTACCAA	25517	GACACAGACTGAAAACCAAGAACT	36501
2876	CGCAGGCAATTATCTCCTATACTTGA	14534	AGGAGGAATACTACCCCTGTTT	25518	GTGCGTCTCGCAGGCAATTATC	36502
2877	TCACCTCCTATTCACTCCTCAACA	14535	TGGAATGGAGGACAAATCCTGAAA	25519	CTGTCTCACACCTTCACTCCTA	36503
2878	CAGAGCTCCATTTCCTTGAT	14536	TGCCTCTCCGCCAGTGATG	25520	GCAGGCCACTCTGCTCTCA	36504
2879	TCACCATGTCACATCCTGTCT	14537	GAGGGCTGGACAAGGTGGAA	25521	TGGGCACCTCACCATGTCA	36505
2880	CATCAACAAGGTGGTGACCTGAGA	14538	CTGTGGATGTGCTGTGAATGTTGA	25522	GAGAAAAAGGGCCGTTTACCCT	36506
2881	CGTGCGGAAGGCAGTTCAAT	14539	GAGTTGTGGGTACGAGAGTTT	25523	TCACTGGCTGACGACTCCAA	36507
2882	TGTCTCGGCACAGGTTTG	14540	CCCGAGAAAACTTTTCAACACA	25524	CCTACTGGAGTTTGGCCTGTCT	36508
2883	AGGTCCAGCCTTGGTTTATC	14541	AGCATCGCCATCCCAACACA	25525	CACGGAGACCCCACTCA	36509
2884	TGAGTGGTGTTCAGATCATACA	14542	ACAGGCTTTGCCCTCCTATCT	25526	CCCTGATGCTCTGAGTGGTGT	36510
2885	CACCTTCCCCACTCCAAGTTTTG	14543	TAGCCACCTTCTCCTCACTGCTA	25527	GATAGAGCACATAACCTGAGCAATTC	36511
2886	GGAGCCCTGAATGAACCATGA	14544	TTGGGCTGTGAACCTGTGT	25528	CACAGAACTGGAGCCCTGAAT	36512
2887	GAAAGCCCTGCAGAGTCAAGAGA	14545	GGGTTCTCCACGCACTGT	25529	TCACGCTAGTGGTGGTGAA	36513
2888	GGAAGGGCTCAACCATCCAAA	14546	GGTGCTCTGGGCTCAGTTT	25530	AGGACATGGAAGGGCTCAA	36514
2889	TGGCCACCATCTCTGCTGTCA	14547	CGTGTCCCAAGGCCAAT	25531	CCCATGGCCAGATGAACAGT	36515
2890	TCCTGGCACCATGACGTATCT	14548	TGGCCATTGCGCCTACTGT	25532	TGGCAGTCTGGCACCAT	36516
2891	ACAGAGCCAGCAAGCCCATATA	14549	GTGTTAGTCAAAGGCAGGGTTCT	25533	GAAGCCTTGGCAGACACAGA	36517
2892	CCAGTGCCACTGGGTATGT	14550	GTGATAGTGGGTGGCTTAGGCATT	25534	CAGTGTACAGGTGGGACTCA	36518
2893	GCTTACCAAGGAACGCGTAGA	14551	ACCATCCAGTCCGAGTGCTT	25535	GGAGGGAAGAACCTGCTTGCTTA	36519
2894	CGTGTCTCTGGCTTTGTGACT	14552	GGACGGGCAATGTCCATGT	25536	ATGTCCCTGTGGCGTGTTCT	36520
2895	CAGCCAGTCACTTCGTTTGTC	14553	CAGGCCACACACCCCTTTATCT	25537	CCCTTGGACTTCAGCCAGTCA	36521
2896	TCCTTTGCACTTAACGCTCTAGT	14554	CGGAATCCCTCAGCAAAGTCT	25538	GCCCTGTCTCTTTGCACTTA	36522
2897	CCACCAAGGGGCTTGACA	14555	GGCATAGCAGACACTGCCGATT	25539	CCTAGGGTAGCTGCCACCAA	36523
2898	GTTGGGCGGGAAGCAAATTC	14556	CCCCTGCATCTATCCATTCTATTC	25540	GCAAATGAGTGTGGGCGGGAAA	36524
2899	CAAAAGAACCCCTGACCACTCAAG	14557	ATCTCCTCTGCTGCGTGACAAG	25541	GCTCACACCCTCTTCAACACAA	36525
2900	GTGGTGCTTGTGCGTGTGT	14558	CTGTACATGTGGCTGGAACAGA	25542	ACAGCCCATCTGTGGTGCTT	36526
2901	CAGAGGCCAGATGTAGGGAACGT	14559	TCCAGGACGTGGCACAAGT	25543	GGAGGCAGAGGCCAGATGTA	36527
2902	TGCCAGCTGGTTGGAGACT	14560	CTCTCCGTCTCCTCTGCAAAAC	25544	TGTGAGTGTAGGGGATGAGT	36528
2903	GTGCCCTGTGCAGACATCACT	14561	TCCAATGCCCTGTCTGTGTC	25545	CATGCACATTGCTTAAACCTCTTG	36529
2904	CCAGAGAGTGGGTCCACAAGGTA	14562	CCTCACATTGCCATCCAAGCAT	25546	AGGCTACGTGCCAGAGAGT	36530
2905	AAACCCCAAGAGGACCTTGAAC	14563	GTCCACGTGGGTTTAAATTCAGCTA	25547	GGCCAGGGAAGAAGCAACA	36531
2906	CAAAGAACCAGGACCTTCACT	14564	CACAGACACAGCCCAACACA	25548	CAGACCAGATTACGCCCAAG	36532
2907	TGCGCCAGGAAGAAGTATGTT	14565	TTGGCCAAGGGGACCAAGAA	25549	GGGCTTTTTCGCCAGGAAA	36533
2908	CCTCAGTGGGGAGAATATGCCTT	14566	AGTGTGGCGTGGAGTCTCT	25550	CCGACCTCAGTGGGAGAA	36534
2909	AGCGGAACGCTCACGGAGATA	14567	CAGGCAGGCTGCACACAAA	25551	TCGCTGCCACAGAGGGTGAA	36535
2910	GCCAGCTGTCTCGTTTGGAA	14568	CAGCGCCACATGCACAGT	25552	CACCTCTGATGCCAGCTGTCT	36536
2911	TGCGGCGTTGGGTGGTT	14569	TGTGCGTGCATCCGTGAT	25553	CGCTTAGGCACAGGGATTGA	36537
2912	CAGTCACTGAGAATCAGGCAGTGTA	14570	ACCCTGCCCTGTGGACTA	25554	GAGGCAAGAGACAAGTCAGTCA	36538
2913	AGTGTGCAGTGCCTGAGAGT	14571	GGGTCTCTTGTGCATTCTTCA	25555	GAACACATGAGCCACAGACAGT	36539
2914	GGAGACAACGGCCCTCAAACA	14572	TCCACTCCCTGCGCCTACA	25556	ACGCCAGGAGGAGACAAC	36540
2915	CCAGGCAGGCTGGAGTTTCA	14573	CTGCGTCCGGGAGTCATGT	25557	AGGAGAGCTGAGGACCAGACA	36541
2916	TGAAGCCCAAGCCATCCAA	14574	TGCGCGATGTGCAAGATGT	25558	ATCTCCTGGTGGCGCTGAA	36542
2917	CAGGTGATGGCGCTGAGATTCT	14575	ACATGGAGGCGAGAGTCAGA	25559	TCCCAGCCAGCCAGGTGAT	36543
2918	CTGGCCTCTGGGGACAGAA	14576	AGGCCTTCTGAGGCTTCGAT	25560	CCCATGCCAACAGGACATCT	36544
2919	TCTTGCTCATCTGCCCTCTGT	14577	GCCAGTCCGGAAGGGTTCT	25561	GGACCGACTCTTGCTCATCT	36545
2920	CCGCAAGTACTCATGGCTCTTC	14578	GGTGCACTTGGAGTCAACAGACA	25562	TGGACCCCGCAAGTACTCA	36546
2921	CACACACTGAGGACGCTTTC	14579	GCCACCAGCCAAAGAAAGGAA	25563	CCCCTGACCACACACTGA	36547
2922	TGTCTTGGCCGATGACACAA	14580	GGCAACCCAGTGCTGAGGAAT	25564	GGCCTGCCCTTGTATCTAGTTG	36548

2923	CCCTGACCGCTGATACAAGCAA	14581	TGCTCGGCGTGTCTGCAA	25565	CGTGCAAGTGAACCTGGAGTGA	36549
2924	TCGGGATGGACAATTCCAAGAA	14582	GTGCTTCCTGCCGACTAC	25566	AGGAGGCTTCGGGATGGACAAT	36550
2925	CCCTCACACAAGCCACCTGTTT	14583	AGGGGTCTGGCTGAGCATATC	25567	GCATAACCTCAGTGCCCTCACA	36551
2926	AACCCAGGACTGTGAGAGTGA	14584	GGAGGTCTTCTCTGCTCAAT	25568	TGGGGCTTTATTTGGGAAGTGATA	36552
2927	TCCACCCCTCTCGTAACCTTG	14585	GTGGGCCCTTTATTGACCAGGTT	25569	CTCTTCCCAGGTCCTCTTTTC	36553
2928	ACGCACCACTCCCTTTTCA	14586	GCGGCCTCAGGAAACCTT	25570	GCTTTTGCTCTGCGCATGTAAG	36554
2929	GGGGCATAGCCAGGAATGA	14587	ATGCTCCCTCCCTGTCAT	25571	TTTGGGAACCCGGGGCATA	36555
2930	GGAGACGGGATGGTGGAGAAT	14588	GCGAGTCCCATCTGCTCTTC	25572	GGCCAGCTAATTCAGCAGACT	36556
2931	TCGCTGCCAAGCAGTGGAT	14589	AGGCTCTGGGCTCCTTGT	25573	AGACAGAGCAAGGGGCTGAT	36557
2932	TGGCTCCCAAGTGTGCTACT	14590	GACTTCAGGGCCTCAACCAT	25574	GCTCCACAAATGGCTCCAGAA	36558
2933	CTGTACGCTTTGTACGCTTTG	14591	TCCCTGCACCACTTCTCAGAT	25575	CGCTGTCTGTACGCTTTGT	36559
2934	TGCCCGCCCATTCATCAT	14592	TGGGTGCTGGGTGCACAGT	25576	AGGGAGTCAGCGGACGTT	36560
2935	CGAAAGCCACAGGACGTGCTTA	14593	GGAACGGCCCTGCCAAAT	25577	GTGGGTCTGTGTGAGATGGATAC	36561
2936	GCAAGATCAGCACTTCTAGGACGTT	14594	AGTGAGCGTCCCGTGCTT	25578	TTGGGAGCAGGGCTGGAA	36562
2937	CCCCGAGGGGAATCAGCAT	14595	GTGGCAAGGACAAGCTGTATCT	25579	CCCCTCCAAGGGGTGATTGT	36563
2938	CGTCCAGCTTCTATGCTCAGAGA	14596	AGCCACCCGTCTCTCAAC	25580	GCCACAGCGTCCAGCTTCAT	36564
2939	ATCTCCCTCCAGCCCATGA	14597	CCTGTGGCTCTCTGGACTTTATC	25581	ACACGACTCCAGGCCACAT	36565
2940	TACCTCCACCGCAGACAGAA	14598	GGCTTGAGCTTGCACTCTTG	25582	TGAGCAGCTCAGCGTCTCTAC	36566
2941	GGTTTGCATGGCCTGGAAAGT	14599	GCTCCCTGAAGGGCAGTGAAG	25583	CCCAAGGTGGGGAAGAAGTTTG	36567
2942	GCCCATTTCCACCCTAATGTGT	14600	GCTCTGTGGAGAAGGAGACAGA	25584	GGGTATAAACTCCAGAGCCCATTT	36568
2943	TTGTCTGGGGAGGGGAAGTT	14601	TGCTGGGGCAACCTCGAT	25585	GGAGGGAAGACTCCTCACTTTGCT	36569
2944	GCCTGGTTCCCTGACATTCT	14602	TGCACTGCCCTAGAGCTGCAT	25586	TTGAAGCGGGGAGGCTGGTT	36570
2945	CCACTAGCGTGGGGTACTGAA	14603	ACCCGCTCACTCGGATGT	25587	GGTGATTACATCCCCGCCACTA	36571
2946	CCATGACCAGAGTCCACCTTTC	14604	TCCTCTCTCTGTGGAGTTTTA	25588	CTGCCCCAATCTTCATTTCTTTC	36572
2947	CCTGACATCCGTGTTCCCAAAT	14605	TCGACAGTCCCTGCTACAAG	25589	CCAGGGTCTGTTCCTCACTGACA	36573
2948	TGCCGTGCATGAGTGCAGAT	14606	CACAGTGGCAGTTCGGGATGA	25590	ATTTGGCGTGCCTGTCAT	36574
2949	AAAGGGTGGGACGTCTCGAA	14607	TGACGAATCAGAGAATATGACGTAG	25591	TGCCATTGGCTTCCCTTAA	36575
2950	AAAGGGCCGTGTGGGACACAT	14608	GCCAGGCTCAGACTCATCTCTTG	25592	TGAGGAAGGCCCAAGGAAA	36576
2951	CATCAGTGCTCCGTGCTTGTTT	14609	TGGATGAGGCCCTGTTCTGT	25593	TGGGCTTCGTGGCATCTTCA	36577
2952	CCAGCCATTCTATCTCTCCAA	14610	TCCAGCTTCTCAAGGCAGTCA	25594	GTGACTTTGATCACCAGCCATTC	36578
2953	TTTGGACGGTGGAGGTGAGT	14611	CCAGCCAAGAAGCAGCAACA	25595	ATGCCCTTGCCTAGGGTTTG	36579
2954	CACACTCAGTTTCGGGCACAGT	14612	CACGGCCTTGCTTTCTCTGAGA	25596	TTAGCAGGAGCCCCACACTCA	36580
2955	GCTTCCAGCACCTCTCTAAG	14613	AGGCCCGGAGGGAAGAA	25597	CCACCTATTGCAGGGAGCTGTT	36581
2956	ACCATGGTGGAACTCCATTATT	14614	GAGGACTGTGCCAGGGAAGTA	25598	GCTGTGTACCATGGTGGAACT	36582
2957	TGGATCTGCCACACCTTAGA	14615	TGCTGGACAGACGCCAGTT	25599	GCTGCAGATGAATGTCTCTGGATCT	36583
2958	GCCGAAGGACAGGCACACTT	14616	GTCTCAGGTCCCAGTGGTAGTA	25600	GCCAGCGTACACATCCCTGAA	36584
2959	GAGACAACCAACCTTCCAAAT	14617	GTGCTTCCCTTTTGGCCTCTA	25601	CCCATCTCTCCCTGAGACAAC	36585
2960	TACCTCCGGCCTGACCAATCA	14618	GGAGAGGGGCTTGGGAAGTGA	25602	CAGAGGACATTAAGAAAACCTCTGA	36586
2961	GCAGCTCAAGGGTGTTCGAAAT	14619	CTGCCAGCACACTATGTGATA	25603	GTAACATATCACAGGGCAGCTCAA	36587
2962	TGCCCTGCCCTGTGAGTCT	14620	GAAGTTCCCAAGTGTCTACCAA	25604	CTGCTGCCTTCTCTGCTTTTC	36588
2963	TCCATGTCCCGATCCGACTTC	14621	CCTCACCAGTCCCAACGTTTT	25605	CTTGTCAGAACTGCTCCCATGT	36589
2964	CTGTACCATCCACTGGACCAA	14622	TCCACACCGGCCATCAT	25606	GGGCCTGAGCACTGTATACAT	36590
2965	GCCTGTGAGGAGGACTTTCCAT	14623	TGAAGCACAGGTGGGAAGAAG	25607	ATGTGCTCTTGGGCTGTGA	36591
2966	GACTCTGTGTGAGAACAGCACTAT	14624	AGAGAATGGAAGAGAAGGACTGT	25608	GTGCCAGACTCTGTGTGAGA	36592
2967	GTCATGGTGAGTCAAAGACTACGTTA	14625	AGAGGCTCCACCCCTCTTCTT	25609	GAGGCTTTGTATGGTGAGTCAA	36593
2968	CGCTGTGAGCCTCCACTGATT	14626	TGAACAGATGGCTACGAATGTATGA	25610	TGCCTGCCATAGGGGAGCATA	36594
2969	CACACCAGTTGTCTCTATTACACTT	14627	ACCCTGGTCAAGAGGGAAGTCA	25611	CCAAACACACCAGGTTGTCTCTA	36595
2970	AGCCTGGTGGTAGAGGGAGAAG	14628	CAGCTGGCTTGCCCAAAG	25612	AGCTTCTCAGCCTGGTGGTA	36596
2971	GGCAGTATCAAGGCAGGTGTAG	14629	TGGCAGGTTCTGGGCTTCATC	25613	GAAGGCTGGAGAATGTGTGATA	36597
2972	CAGCCAATACCCTGCAACCAT	14630	AGGGGATGGCCTCTTGAACACA	25614	TGGGGTCTTCTGCAGCCACTA	36598
2973	CCTCATGTACTCCTGTCTACA	14631	TGGAGCTTTTCTCTAGTGTCT	25615	ACTGCCTCACTCTCATGTACT	36599
2974	CAGCCCCAACCCTATTAGTCAGTTA	14632	GCCTGTCAAGCAGGCACTT	25616	AGGGCAGCCCCAACCTCATT	36600
2975	CACAGGCAGGTAGAGACGCTTTC	14633	CCTTTGGCTGTGTAGGCTTCGAT	25617	CCAAAAACCCACAGGCAGGTTAG	36601
2976	TCAGGCCTCTCTCAGTCGAA	14634	GGTGGGTCTCCAGGTCACTGAA	25618	AGGGTGGGGACGTGTAGTCA	36602
2977	GATCCTCAAAGCCTGTAGGAGAAG	14635	TGAAGACAGCCTCCACTCTCT	25619	GCGAAACGTGGTGATCTCAAAG	36603
2978	GTATCTCGGTTTCAGACACTGAACCT	14636	GCCGGGGCCAACTATTTGCTA	25620	GGGCTCCAAAACGTATCTGGTT	36604
2979	GCCCTCAGAGAGCCACAAGA	14637	GCAGGGAGCAGGGAAGGAAGT	25621	GGAGGTGGGGCAGAATGGAATC	36605
2980	TCGGGACCTATCCGCTGCATT	14638	CTGGGGCAGCTGAGGAATACTT	25622	CCAAGCTGTCTCGGGACCTAT	36606
2981	GCCTGGACTTTTGATTACCCCTTA	14639	CATGAACCTGCAATTTGGCTGAT	25623	CCAGTTCCTATGCTGGACTTTT	36607
2982	GTTCCCTCTCTCGGCTGACAATG	14640	CCAGCCAGGTTTGCTGAATGT	25624	CAAGGCCCTGTTCCCTCTCT	36608
2983	GAGCTTCACATTCATGTGGCTTT	14641	TCAGTCTGAGCTGGAAATACCTA	25625	GGGGAGTGCAGAGATATGAGCTT	36609
2984	TTGAGTCTCCCATCTCCCTTT	14642	CCCACACCATCTTGGGTCTTT	25626	AGTGAAGTTGGAACCAAGGTTGA	36610
2985	GAGCAAGGCTGATGTCTTACA	14643	AAGGCCAGCAGGAGGAA	25627	TGGGCCAGAGCAAGGCTGAT	36611
2986	CGCAATGCTGACACATCCTTT	14644	GGCATGTTTGTCTGGGGATGT	25628	TAGAGGCCGCAATGCTGACA	36612
2987	GGAAATCTGCAAGGAGGGAGACA	14645	TCTCAAAGTGAAGCTTAGCTCCTT	25629	GTGCTGAAGGCCAAGAGGAAA	36613

2988	CTCGAAGATAACACACAGAGTAACA	14646	ACCACAGGACTGGATGGGAAAA	25630	CCAGCAGCCCTCGCAAGAT	36614
2989	CTGGAACCAAGGGCAAGAAAG	14647	GGAGGAATGATGGGGAAGTCTGT	25631	TCAAGGTGACCTCTGGAACCAA	36615
2990	GCTGTCCACGAAGAGCCACAT	14648	CCCTGTGGCGAGATCCACAT	25632	AGCCAGGGCTGTCCACGAA	36616
2991	CACCGCTAGCCACAGAGGTTT	14649	GGATCCTTGGGGTGTCTGTTCA	25633	GGGCACAAGCAATCTTAGGCAGAA	36617
2992	CCCACCTGTCACATGGGTTT	14650	GCTCCTGTTGTTACTGGGTAGGTT	25634	TTGCGGAGAGGGGCCCTTCA	36618
2993	AAGGAGCCCAGTGACCTGAT	14651	CCTCTCCTCTTTGTGGTCTTCAAC	25635	GCTGGGAGGGCTGAGTATGATGTA	36619
2994	ACTGGACTGTGATGGTTGCTAAG	14652	CAGTGTGATAGGTTTCCGTGAAC	25636	GGGGTGGATGGGAAATTGGGAAAC	36620
2995	TGCTTGGGTATAAAGGGAGAGAGA	14653	TCAGCCCCCTTCAACCACTAA	25637	GGTGGAGTGGTAGATGTTCTTGCTT	36621
2996	GATAATGTCAAAGCCGGTAGTGATTG	14654	GGTGACCACCCCTGAATAACCAT	25638	GCTGTGCTCAGCCAGATGTGAT	36622
2997	TGAGGGAGCCAGGGACTAAGA	14655	AGCTCTTTCAGGTACAAGAGTGAAA	25639	GGACTCCCTCAAGCAGGAAGTTG	36623
2998	TCACAGCAGGCCTTGGACCAT	14656	AGCAGCAGCCTCTTGCTAGT	25640	GCACAAGTGCTGTTCTCAAATCACA	36624
2999	GCCACCTACTTGCAAGTTGAA	14657	GCCCCATCAGCGATGTGGAATA	25641	GCTCTGCTTCTTGCCACCTACT	36625
3000	TGGTCACATACGACTGTGTT	14658	CTCTGAAACCTGGGGAATGCAA	25642	GAGCGCAATGTCTCCCTGTATG	36626
3001	ACCCACCAAGCCATGTTCTCTT	14659	CTGCCAGTTTTGTGCGCCTTTT	25643	CTGGGATTTCACACCCACCAA	36627
3002	GGATTGAGGCCAGGCAGACTA	14660	CAGGTCAATGGACGGTTAGGTACA	25644	CTGGTGGCAATGGGGATAACT	36628
3003	CCCAGGGCTACCTCGGATTTC	14661	CAAAGGCAGAGACTTCCCTGATG	25645	GTCCCTCACTTTTCTAAGCCTCTGT	36629
3004	GCGTGTAGAAAGTAACGCATACT	14662	ACCTCCTCCTTCCCATTAACT	25646	GCGTGGCGTGTAGAAAGTA	36630
3005	GAGCGGGGAAAGTTTTGTCCAAT	14663	GGAGACCGCAGCTCCAGTTA	25647	TTGCTGGAGCCGGGAAAGTT	36631
3006	GTGATGTTCTGGCTCCCTCTTTG	14664	GGTCTCGGGAAGCCAAACAT	25648	GCTTCTCTCTTTCATGTGATGTTCT	36632
3007	GGCGTAGAATGCAGCAGACACT	14665	AGGCCAGCAGCCAGAAGTTT	25649	GAGTTTTGTGTGATAGAGGCGTAGA	36633
3008	CTCAGTGCCCTTCCACATCAGT	14666	CCCCTAGAAAACAGACCCACTAATC	25650	GGCTAGTGCCAGGCTCATATCTCA	36634
3009	GTGGATGGCTTCTAATTTCAAAGT	14667	TGACTTCCACGGTACACATCTGA	25651	GATGTTACAAGTGGATGGCTTCTCA	36635
3010	GAGTTCAGAGGGCATGGGTTT	14668	ACCGCTGCAAAATAGGCATAC	25652	TAGCTGTGGCTGTGAGTTT	36636
3011	TCTGGCTCCAGCACTCACTA	14669	CCTAGGAGAATGGCACTGGCTTA	25653	GGTCTAGGTAGTGTGAGGTTCACT	36637
3012	CCAGATTGTACCTCTCAATTCCTCTCA	14670	GTATGGTAGTACGCAACACAAAA	25654	TCAGTTCCTTCTCCAGATTGT	36638
3013	TCACCTCTCTCTCTCCACCATTC	14671	ACACGGAGGGCATCGTGTG	25655	CTGAAAGGGGCACATCCCATCA	36639
3014	CAGGCCACGTCGTCACACT	14672	CCCTGCTCTCCCTGTCCATA	25656	GCACAAACACCCACAGGAT	36640
3015	CTCACACATCGCCGGGAAAAAG	14673	GTGCAGGTGACATACCAAGCTGT	25657	AGGCATTCCGAGGCTCACA	36641
3016	GCCAGCCATAACACCTCACA	14674	GTGTGGCCCCAAGGGTGTT	25658	GCCCAATGGCTGGGATATTAAAAAG	36642
3017	AAAGGCCCTGGGGTGAGGAA	14675	CTGCTCTGCCACACAAAA	25659	CGGGAGCAGCAAGTGCAAA	36643
3018	TGTCCTCATGGGACCTTGA	14676	CAGGAACCTGAGGCATGGAATC	25660	TGTCCAGCTCAGCCACTTGT	36644
3019	GTCTACCCCAATGACTGACTGATAC	14677	GTGCATGGAAGCTGGGCTTT	25661	GCAGGTGTCTTACCCAATGACT	36645
3020	GAGGCTCAAGCGTAGAGAGAGA	14678	CCCAACTGCTCCCTTGCTT	25662	TCTGGAAGGATCAGAGGCTCAA	36646
3021	AGAGAGGAGCACTGGACACA	14679	ACCTCTGGTGGGAAGTGGACAT	25663	GCTTGCGGCAGCAGAACAA	36647
3022	GCTGCTGGCAGTGCTCTCT	14680	AGGTGAGAGCCAGCTGGAAA	25664	TTGAGGCCTGTGTGGGTGCTT	36648
3023	AGCCGCTCACTGGTTGTGTCA	14681	GACTTTGAGATCGCTGACTGATTCT	25665	GAAGTTGCAAAAGCCGCTCACT	36649
3024	CCGCCCCACCATCTTGCTAAA	14682	GGCAAAACCTTGGCTCTACT	25666	TAGGTGCCCGCACCATAT	36650
3025	GACAGAGTGAGTACGACATGGAAAC	14683	AGCCCCGCTCCCAAGGTA	25667	AGGCACTGAGACAGAGTGAGT	36651
3026	GTGCAGCAAGGCTGTGATGAGT	14684	TGAAGCCACTGAAGGTAGCTTTT	25668	TGTTAACCCCGTGCGAGCAA	36652
3027	GGCCAGATGCTGTGTAACTT	14685	TCAGGTGCCAGCTCCAGAAA	25669	CTGCAGAGGTTCCGCGATGAA	36653
3028	GTGTCTCTGTAATCAGCCCTTCA	14686	TCTTGGGATCCTGAACTGTCTTAATC	25670	CCGGGGTCACATGTGCTTAAGTGT	36654
3029	CTGCTCCCGAGCTTACCTTTT	14687	CAGTATCCTCACTTGGCTAGACTTT	25671	ACGCGCCCGAGGTGATGTTG	36655
3030	TGGCCCCCTCTACAACCAAAAC	14688	CCAAATTGACCCACTAGGTGTTGT	25672	CTGCATCTGGCCCCCTCTA	36656
3031	GCTTTGGGCTGGTGACTTCT	14689	TCCACTGGAAGTGCGAGAAAAT	25673	GCCTGGATGGACTTCAAACCTTGCTT	36657
3032	GAACTTGAAGGCACCTCTAGCTTA	14690	AGGGCCAGGTAGGCCCTCAT	25674	GGGAAAATGAGCCCTGTGAACCTG	36658
3033	TGGGAAAGCCCTTCAACAGTCA	14691	GGCAGTACCTGGCTGCCCAA	25675	CAGACTGGCTTGTCTGGGAAA	36659
3034	GCCACTTTCCAGCAACGTATC	14692	CATTTTACTGGGAAGAAATGGAGACT	25676	CTTGGGAGTTGGAGCCACTTTC	36660
3035	CACTTGCTTTTGTCATCAACGATTAC	14693	CCCAATGCTGCTCCTAATTC	25677	GGAGGATTTCACTTGCTTTTGCTAT	36661
3036	GGATTCCAAGACTCAGCTTCAGGAAA	14694	TACAGCGACTGCTGCCAGGTAT	25678	GGCATAGAAGGATTCGAAGACTCA	36662
3037	GCAGGCACCAACCTCACAT	14695	GCTGGACAGTGTGAAAGCCATAG	25679	TGACGCATGCTGGGAAAAG	36663
3038	GCTGACATTTAGTGAGCCCTGTTT	14696	ACCTCCTCTGCCACAGGATT	25680	AGGGCTGTTCTTGACACACA	36664
3039	CACAAGACAGATAGTTGGGCTGGAT	14697	CAGGGAAGTGACACACTCCAGAA	25681	CTGCTTCTCCCAAGACAGA	36665
3040	CTCCCCAATGAAGCTGACTGTAG	14698	GCTGGGATTGCCCTTCTGTTTTCA	25682	AGCCATCCAGGCTCCCCAAT	36666
3041	ACATCTCCAAGGCGTTTCTGT	14699	CGATAGACAGATCCCCACTTTACATC	25683	CCTCATGGGCTGTTTCACATC	36667
3042	GGAAGGGGCAATGGCACTTAG	14700	GCAGAACTGTGAGACTCCTAATC	25684	TGCAGGGGAAGGGGCAAT	36668
3043	AGGGGTATACGGGTGTGGTTCA	14701	GTGTTGCAAAACCAACCCACAGA	25685	CCACCTTGTTCATAGTTTACAGGGGTTA	36669
3044	ACCTCCTGCTCACCTGTCACT	14702	GCCTGGGCTAGACACACAT	25686	CCCATCTTAGCCTCATCGATAC	36670
3045	GTCTAGAAGGGCAAAAGTACTTGAGA	14703	GCTGGCTGCTGTTACTGAGA	25687	GGAATGCCATTGGGAGGTGTCT	36671
3046	AGACCTGCTGGGCTGTAGT	14704	TCATAGGGCTTTGCATTCAGTGAT	25688	GTTCCTGAGTCGCACCTTGA	36672
3047	GCTTGTCAGGTGGAGCTATGT	14705	CACAGGGGTACACTTCGATCT	25689	GAGGGTTGGGAGGAAACAGCTT	36673
3048	GCGGGAGAGATGCAAGACT	14706	CCCTCTGCTCACGCTTCTCTA	25690	GGAAGATCCGCCCCCTTGA	36674
3049	GAAGACTCACATTGACTCAGGAACT	14707	GGTTGGGTTCTTGCTCTCTCT	25691	ACAGAGTGGATGAAGACTCACATTG	36675
3050	AGCACCCCTCCATCCACCTT	14708	GATGTTAGGTTGGGTTGTCAGACA	25692	AGAAAGAGAGGGCCCCGAAAG	36676
3051	TCCACCTTTCTGGGTTCACT	14709	AGTGCCCTTTGAGGCAGGAT	25693	AGCACCGCTCCCACTTTT	36677
3052	CGTGCCCTGCCATCTGTTCT	14710	AGCCCCACATCTCGCTAAG	25694	GCTTCACTCCCCAGGAGAAATGAAATG	36678

3053	AGCCTGATCTGGTGGACAAAG	14711	TTCCGCACCACGTCCACAAC	25695	GCAGGAATCTTGACGAAGCCTGATCT	36679
3054	CACAAACCCAGTGTTTTAGGAGCATGA	14712	TCCGACAGGACGCACACA	25696	GTCCCTTACAAACCCAGTGTTTTA	36680
3055	CCCTCCATTCCAGCCATGA	14713	CGGAGAGCAGGGTGTGATG	25697	TCCCTACCCACCCCTCCATTC	36681
3056	GTATCCCTTATCAGCCACCAGAT	14714	TGGAGGGCCTCTGGTCACTTC	25698	ACCCAGCTTGATCCCTATC	36682
3057	GGGAATCACCACACTGTGTCT	14715	GCAGAGATTAGTGCCACCATCAAG	25699	GAATGGGGATGTGGTGGGAATC	36683
3058	CCAGTCACTCCAAAAGGCTGATTC	14716	AGTGACTGTGCATTGTGGGAAA	25700	TGCCAGTTTAGACGCAGTGT	36684
3059	GCACACATCCACATTGTTCTTG	14717	CAAAATCCAGACCAATTGAGCAAAAG	25701	AGCAAAGCTTTAAGAGCACACATC	36685
3060	GTGATGTGCGTTTTGGTTCCTT	14718	GGGAGGAAGGAGGGAAAGAGATTTTG	25702	GGCAGGTGAGAACGTTTCACT	36686
3061	GGGGCATGATTCCACCTGTAAC	14719	GCATAGCTGGGCTATTCTCT	25703	GTGTCCTGCCCTGAGTTTG	36687
3062	TGACTCACAGGTCAACAGTCT	14720	GCGGGATGGAGTGAGAGTGT	25704	TCAGATCCGGCTGACTCACA	36688
3063	AGACCCCTGTGCTCAGAT	14721	GGCACAGCAGCTCCAGAAT	25705	GCCCTCATCCCCACCTTCA	36689
3064	CTCTCCGCCCTCATGTGAA	14722	TTCCACCCGCCGACTTCCAA	25706	CTGAAACCCGTGCAACGAGACT	36690
3065	AGGTCTGCTCCAGCCTCATC	14723	CCAAGTAGCAGGGCTGGCTAAA	25707	CACCTATCAGCTGGGCTCACA	36691
3066	CCAGCTAAGCACAATGCACAAT	14724	AGCCAGGCTGACTGGTTTG	25708	CTCAGCTTAAGCCAGCTAAG	36692
3067	TGAAAGCGGATCCCGGCTAGA	14725	AAGCTGGGGTGGACTCCGTTA	25709	GCTGCTAGTTGGCTCTGAAA	36693
3068	CGGCAGGGAGAAAGACAGGATA	14726	AGGCAGGCTGGCTGCAAA	25710	CCGACAGGGAACATGAAGGTT	36694
3069	GAGTCTCTGTTTGACCTCTGT	14727	GGACAGCAACCGTTCAGAGACT	25711	TGTGGGTGGAGTCTTCGTTTG	36695
3070	CAGCCATAAGCCAAAGGACACA	14728	TGGTGGTGGCTGGCACAGTA	25712	AGACTGGAGTAACACAGCCATAAG	36696
3071	CCCTCCCTTTTACCCTGGAT	14729	AGCCATCGTGGGTCTCTTAC	25713	AGTCAGAGGCTCCCTCCCTTTT	36697
3072	GTGGTTTGTGTAATCTCGCTCAA	14730	GTCTTTCATTGTGCTGGCATT	25714	AGACACAGTGACACCACTTC	36698
3073	CAACTTGCCAGGGGCAACAAC	14731	AGCTCCGCTCTTAACCTTAA	25715	GCTTAGAGACGCTGAGCAACTT	36699
3074	GCAGCTAGGAGTAGTGACCAAGAAG	14732	CAGTGGCATTGCAGGGCTTT	25716	AGCCGTGCAGCTAGGAGTAGT	36700
3075	CAACCCCTCTAGCCATGTAGTCT	14733	AGGAAAAGGCCATCCACAGGA	25717	TGCGCTTTGCCAACCCCTCTA	36701
3076	CTGAGGTCAATTCGATTCCACATC	14734	TGGAGGGAAGAGGTGTGTGT	25718	GTGCTGCATCTGAGGTCAA	36702
3077	AATTGATAGCAGGGGTGAATCAAGA	14735	GGGGCCACAGCAAAGCAT	25719	CTGTGGCAGCTGCAGGTTTT	36703
3078	GGGTTTGGTGACAATGGCTCTTTC	14736	ACCTTCTGTGCACCCACAA	25720	CTGGCTGGGTTTGGTGACAA	36704
3079	GACTTTGATCTGGGTGCTTCTTC	14737	CAGAGATGACCTCAGAGCCTTTTG	25721	GCCGGCCCTGACTTTGATCTT	36705
3080	GCGATGGAGTAAATTAAGGCACAA	14738	GCACAGGCACTGGGCTAAAC	25722	CCACCTCTATGGCGATGGAGTAA	36706
3081	ATCCACCCAGGGGTCAAGAGTAG	14739	TTGGTGGCGCCTCAGATG	25723	CTCCTAGTTGGACCTGGGTAA	36707
3082	AGCCCATCTCAGGCATCTAGT	14740	ACTGCTGGCTCAGTGACA	25724	GGACATGTTGCAGCCATCTCA	36708
3083	GACAGTGACGGCATAACCTGAA	14741	GGGAGGGCAGCAATAAACCTCTGA	25725	GGTGCTGTGCATGAAGACAGTGA	36709
3084	CAGGCACCTTCTCTCTGTGTTTT	14742	CAGATCCACAAACCTAGGGAGTGT	25726	TCCAGCCATCAGGCACCTTC	36710
3085	TCACACCAGACCCCTAAGGAA	14743	AGGGTGTATGTGTCTGTGACAAAG	25727	GCTCCCTTGGAGTCTGCATCTT	36711
3086	ACACAGGTGTAGCCAGTGTG	14744	CACTGGGTAGGGGAGCGATACT	25728	TGGCATAAGCCTGGCACACA	36712
3087	GTGGAATTCAGAGCACAGCAT	14745	GACTATGAAAAATCTGCCGCTGGAT	25729	GCTTGACAGCTTGTGCTGCA	36713
3088	CCCTTCCCTCTGGTTTCTTCA	14746	TGGACTGACCACGTGCAGGAT	25730	GGTGGTGTGGCTTGCTCTTC	36714
3089	GACTGCTGATCTGGCCTCCTCAA	14747	TCCTCTGCGCCCATCTGAA	25731	TGGAGCCCTGACTGCTGATCT	36715
3090	GCCTAGCAGTTGCTCAGTGT	14748	CTCGGGGAACCATGGGCTAA	25732	TGAGCAGGGCCTAGCAGTT	36716
3091	CACACCTTGGTGCTCGGTATG	14749	TTGCGCTGAGAACTGAGAGTTT	25733	GATGTGCCAGCCACACCTT	36717
3092	GCCCATCAGGTGCTTGAAAC	14750	CCCGGAAGCAGCACATGAGATAA	25734	CCCAGGTTGGCTCCACATTCT	36718
3093	TCCTCCCTTGAATATCCTCAACTGT	14751	CTGCCTGAGGGTAGCTTTGGTA	25735	GCTGTCAACTTCTCCCTTGAA	36719
3094	AAGGGGACCTGGTGCTTTA	14752	CATGTCTAGCACAGGTCTCTCT	25736	TGGGATGATGGATTATGGGTTATTG	36720
3095	CCTGCGACAGTCCGTCACCT	14753	AGTGCCGAGACCTGGAAGTT	25737	ATCTCCGCCCTGCGACAGTT	36721
3096	GCTCACACGGGCATGACCTAAT	14754	CGGACGGCTCGGGTACTTT	25738	AGCCCTTTCTGCTGCTCACA	36722
3097	TTCAGGGCATGAGCGCCTTA	14755	GGGGCTCCAGGAGACATCA	25739	GTGCCATGAGCAGACTTGGTTTC	36723
3098	GAGACAATCCCTTGAGTGTCTGAT	14756	TGCTCTCAAGTTTCTACCTAGTTG	25740	TGTCCTCAGAGACAATCCCTTGA	36724
3099	GGTCCGAGAGAGAGGAAAC	14757	AGTGAGTACACCCGACTTCTGA	25741	ATAGGCACAGGTCCGACAGAGA	36725
3100	TGTTCAAGAACTTGCCCTGGTA	14758	GCACGGCCGAGCTATTCA	25742	GTCACCTCCATGGACTTACATTTTG	36726
3101	CCTCAGTGTCTCAGGGCATCT	14759	ACTCCGGCTGGTGCTCACA	25743	CCCTTGTGTCTCCTCAGTGT	36727
3102	ACCCACAGCCATAGGACAGA	14760	TCACCCAGCTAGGAAGGATTTTG	25744	TCTGGGTGGAGAGTGGAGATG	36728
3103	TGGTCCCAAGAGGCTTTTGT	14761	GGGTTTCTCCAGGCGGTAAG	25745	TGAGGCATGTGGTCCCAAGA	36729
3104	GCGGAACGGCTGTGAAGT	14762	GGCGAGTTCACCTCATAGCAA	25746	ACCCACTGCTGAGCCTGTTTC	36730
3105	GCCATTTACACACCGTTGTCTT	14763	CGCTGGCCTGTGCTTTAGA	25747	GCCTTTTCAGTTTGTGCCATTTT	36731
3106	GAGTTTGGGGGCTGTTTCTAC	14764	TTGGGCTGTGCGCATTCACCT	25748	ATCGGTGGCCGCTTGAGTTT	36732
3107	AGGAGCGCATGCCTGTATTC	14765	GGTGCCCATGGCATGACTGT	25749	AGGGTCCATCTGCAGGAGTT	36733
3108	TGCAGAGGGATGGAGGACTATG	14766	GGTGGGTGTGTCGCTGTA	25750	ATGCCCTTCCGACTGTG	36734
3109	CTGTATGTCTCGGGCCTCAGT	14767	GGCAGATTCTATCCCCATGTCACT	25751	CAATGGCACATGTGGCTGTA	36735
3110	CTCCGGAACGCTGCAGAT	14768	CAGCCACTGTATGTGACGAGGAA	25752	TTCTTCCAGCTCCGGAAAC	36736
3111	CCTCTGGTTGGGATGAGGGTTTG	14769	AAGGCTGTGCGCTGGTTTG	25753	GGAACACTGTGACCTCTGGTT	36737
3112	TGGTCTGGAAACCTGGTGATTC	14770	TGCACCGGACACAATGA	25754	GCCTGGATGGCAACCAACCTT	36738
3113	TGCGGCTGACGCTTAG	14771	GTCACTGTCTTCAAGGGTTTC	25755	AGCCAAACCAAGCGCTCTTT	36739
3114	GCTGGCATCACCTCAACAGT	14772	AGATGACATCAAGGTGGCTAGTTC	25756	TGGGTCTCAGGCTGGCATCA	36740
3115	GGCTTTGGCTGAGACTGTTG	14773	CGACAGCATAGACCTGTTGAGT	25757	AGAGCGAGCCAGGCTTTTG	36741
3116	GCTAAGAATTCAGCAAGTAGGACAACA	14774	AATGGGACCAAGGGTCTAAGAA	25758	GCACCACTGTGTGACAGAAGCTA	36742
3117	CACCCAGACAGCAGCTGAA	14775	CGGGTAAGAACTGGGTGAAGATAAG	25759	AAGCTCTAGCCACCCAGACA	36743

3118	CCCAAGCAATCTCCCATCTCA	14776	CCAGTGCCTACAGTCCCAGCTA	25760	TCCTCCCAGGCCCAAGCAAT	36744
3119	GAGGGAGAGAGGAACATGAATCTA	14777	TCGGGAAGTAGCAGGAACCTGA	25761	CGATCAGTGAGGGAGAAAGGAACA	36745
3120	GGTTGCCCTCCACTGTCTGTT	14778	CACTGTGAGGGGAGCGTACA	25762	GCTCTTGGCCTTCCGCTTCAAT	36746
3121	CAGCCTTACCTGCCCTGTACT	14779	TCTCTGAGGTGGGTGCTGGAAA	25763	TGTACGCTCCCTCAGAGT	36747
3122	CAGTGGATAAAGTGCCCCATGT	14780	GGAGGACTCTATGCATCTGGGGTTA	25764	AGGCGTCACAGTCAGTGGAT	36748
3123	TGGCCACACCTCCATCA	14781	TGAAAGCCCTGGCCCAATGA	25765	CTGCCAGGCAAGCTTTTCAGA	36749
3124	GGGGAAGTTGCTGTGTTTCTGT	14782	AACCCATCTCAGCTTCTTGTTAAT	25766	GGCAGCAGCTGGGGAAGTT	36750
3125	GCTACCGACAACGGCAACAAC	14783	GGCACATCCGCAATCAGTGCAT	25767	CACCCGGCTACAGTTACTAATGCTAT	36751
3126	CGATTTTGAGCCCCGCTTCT	14784	AGTGCTTGCCTGGCGAAT	25768	CCTAGGAAGTGCTGCTTCGAT	36752
3127	CCTCGGCACGTAGGTGGTTT	14785	GAAGGGTGTAGGTAAAGCCTAGTTG	25769	TCGTGCCCTCGGTCTCTTG	36753
3128	GCAAAGGTTGAACAGACCTGGAT	14786	TGCAGCAGGAAGTGGCAAA	25770	CCCCTCCTTACCTGCAAAAGGTT	36754
3129	TTCGATCCGACCCGGGACAAG	14787	AGTGCTTACATCGAGGAAGATG	25771	GGCAGGTTTGGATTTCAGGTTTCGAT	36755
3130	AGGGCACTCGTGCTTTTGA	14788	AGGGGAAGCTGCCGAGTTC	25772	CCTTCGGGGCTGGGCTTTA	36756
3131	TCATCTGGAGGGGTGTAGAGATG	14789	CCAGGGAACCCAGAAATCATCA	25773	CCCCTCTCCCGATGTTCA	36757
3132	TGCACTCGGCACCTGTCT	14790	TGCAAAGACAAGGTAAGTGTGTTG	25774	AGCACCGAGAGGCAGGTTTG	36758
3133	GCAACTTGTGATGCCTTCTTTGA	14791	GGGTGTGTGCACTCTACGTTTCT	25775	ACTGTGTGAGCAACTGTGTGAT	36759
3134	GCACCACGGGAACCTGGTGAAT	14792	TGGGCGGTGACCTGGCTTT	25776	GGCCATGCTGGGAGTGTTTG	36760
3135	ATAAGGCGGTAGGCAGGACTCA	14793	TGCCTGGAGAGCTGCTGTCAAT	25777	TGTGCAGAGGTGCTGTGGAA	36761
3136	TGTCGGCTAGGCCCTCTGT	14794	CAGGCCCTGTGGGTCTGTTG	25778	AAGGCCACCCTGGGTGTAG	36762
3137	TCAACCACGACGAACCCAGAGA	14795	TGCCGTGTGTGGGGATCT	25779	CCGTAGACGTCAGGTAATCATC	36763
3138	CATTTCACCGTGGTCCCTGTT	14796	TTTCCCATCACACTTTCGTTCT	25780	CACCGTCTCGCTGGCATT	36764
3139	GTGCTGTGACTATCGTGTGAGT	14797	GGCTGTGGGACTTGTACAGTGA	25781	TGTCAGCTGTAATGTGCTGTGA	36765
3140	CAGATTGTAACCCCAACCCAGAA	14798	GCTGGCAGCTCCACATCCAA	25782	CTGGGCATATGCTTTGAACAGATTG	36766
3141	AAACTCCAGAGTGACCCCTAAACTT	14799	TCCGCCCAACAGGCTCTTT	25783	GGCTGACTTTCTGAGCCCCAAG	36767
3142	CCACAGGGCGAATGCAAAGT	14800	GCCGGGCAGAGAGTAGAGGAT	25784	CACAAGAGAAGAGCCCATGCAAATC	36768
3143	GCTCAAGAATCTGCCAGGTGTGA	14801	GGGAGCTGCAGAGACGAGTTTT	25785	GGGGAGAGGAAAGCCATCTTCA	36769
3144	GAGTGGAGCCAACTTCTTACCAT	14802	GGCATCGTAAAGGTGCCAGTAG	25786	CACCAGAGTGGAGCCAATT	36770
3145	GCACCAATCCACGCTGAACA	14803	ACTGGCACAGCTGTAGACT	25787	GCCTGTGGCTAGGCTTAAATAACT	36771
3146	AACCGCTTCTTGCTGTGTCTA	14804	CCCTCAACCCGTTTCTTAAAGTG	25788	CTGCCGGAACCGCTTCTT	36772
3147	CAAAGGTCCTAAACTGACCTGAGACT	14805	TAGGAGCATGGACGAGGAA	25789	CTGCTGTGACAGGTTCTCACCAA	36773
3148	CACACTGCCACGCTCTTGA	14806	GGCTGAAGGGTCCCCACAAA	25790	GGGCTTGCTTTCAGTTCCTCACACT	36774
3149	ACCCAGGTCTTTCAGCAGATTCT	14807	TGCCACCATCTTGCCTTGT	25791	CGCTCAGAAACCCAGGCTTCA	36775
3150	AGGAGAGAACCATCGAGAGGTAA	14808	GTTGGGCGAACTGTACTCCAT	25792	TGAGCCCAGGAGAGAACCAT	36776
3151	GCCAAGACTCAGCTCTCCTT	14809	CTGCCACAACAGGGACAAGA	25793	CAAACCAAGCCCAAGACTCA	36777
3152	TCCTATCAGCGTCCCTTCA	14810	AGTAAAAACAGGCAGGCAACAGA	25794	CTGCTTACGGACGTGGTTGT	36778
3153	CTTGTGGCCTGGTTTGGTTAATG	14811	GTTGAGCCCTGTATGTGTGTAGA	25795	GTCTCTACCTTGTGGCCTGGTT	36779
3154	CCTGGGAGTCTGGCGTCTCT	14812	AGGGTAGGCAGAGGTGCTTCA	25796	ACCAGGAGCCTGGGAGTCT	36780
3155	GCACGTTACTAAGGGCATGTGTTT	14813	CGTGTGACCAGGCTGCAA	25797	GGAGGAGCTGCACGTTACTAAG	36781
3156	GCTGCTCTCTGTCAGAGTTGA	14814	GGGATGACGTCGGTCACCAT	25798	GCTGTGACACTGCTGCTCTTCT	36782
3157	CCTTGGCAGCTTAGTGATGTCACT	14815	GCACCACATGGCAGTGGAACAT	25799	GCTGGGTGGCTCTCTGGAA	36783
3158	TGAACCCACGTAAGGGACATTAG	14816	CCGTGGCACCTTGAAGAGA	25800	TCACGGCAGTCACGGAACAT	36784
3159	ATGGGCACTGCTCCACTCT	14817	TGGCACTGGCAGGCATCA	25801	TCTGTTTGAACGCACTGTTGATTG	36785
3160	ATGGGCCCTGGGACTGATGT	14818	AGGGGACGTGGGCTCAGACA	25802	GGCCTTGGCTTCAAGGTGTTG	36786
3161	AGATTGGGCATGATACCGCTTT	14819	CACCAAGTCTGCTGTGTTTTAG	25803	GCCTAGGTGTAGATTGGGCATGA	36787
3162	CAGAGCTTGTCTCGGGCAAA	14820	CGCCATCCCTGCTCAGCTT	25804	AACGCCGTGGCCAGAAACA	36788
3163	GCCAGAGGAACTCCGCTTCTA	14821	TCCGGGCTGACCTCATCA	25805	TGCACCCGCCAGAGGAAAC	36789
3164	CCATCCCCTGGTGAAGGAAATC	14822	GGAGTCTGGCCCCAGCTTT	25806	TCTGGGGCCCTGCCTCTT	36790
3165	GGTTCCTATGAGCAGGAGGTAGT	14823	GGCTCTGCCTTACATTTCTGT	25807	GAACAGGCTGGTTCCTATGA	36791
3166	CGCTTTCAGCTGCCAGGAAAT	14824	GTGGAGCAACATCCAGCCATA	25808	CCATGTTCCCTTGACCTGAA	36792
3167	GCACAAACCATCAGCACATCT	14825	TCCACCCGGCCAGAGACAA	25809	GCACCTTCCCCAGCACTAA	36793
3168	CAGACTCCAAAGACGTGTTGTGTA	14826	TGGGCCCTGTGGTCTTAGTGA	25810	TGTGTGGCCAGACTCCAAAG	36794
3169	GGAGCCCGTGGGTGATGTT	14827	GGCCCTTTGCTCTTAGGAT	25811	GGAACCGGAGTGGTGTGTTGA	36795
3170	TGTCCCGCAGCACACCTT	14828	TGGATGGCCCACTGCAGGAT	25812	GAGGTTCTCACCGTCACTCTGT	36796
3171	CCTTCCAGGAGCTTCGAGAACAAAC	14829	TGGTGGGCGAGGAGCTTGA	25813	TGCATGGTGTGACCCGATC	36797
3172	GGGCTCCGACACTGCTGTAAAT	14830	AGGAGCCCGTACCTCCAT	25814	TTACGCTGGGCTCCGACACT	36798
3173	TGCGTGATCGGCCTGAAGAA	14831	AGCTCAGTGACGGGGCTGAA	25815	AGACTCGGCTGCGTGAT	36799
3174	GTTCAAGTAATGTAGGGCAACAGAA	14832	GCCAGAGAACGCTCAGCTT	25816	ACTTTGGGTCTTGCTAAAGTTCACT	36800
3175	TGAGCAGGTAGCGGTGCATT	14833	CGTCTGCGGGGAAAACTA	25817	ACTGCGCTGAGCAGCTA	36801
3176	GCAAAGCATGTCAAGTGTGGTTCA	14834	TGTGGTGAGGTGGGAGTCAA	25818	GGGTGGGAATGAGCAAAAGCATGT	36802
3177	GACTAGAAAAATTGCCGTGGGTCTCA	14835	TGGACACACAACCCCAACA	25819	CCCCTGGGCTACGAGTATATGTA	36803
3178	CAGATCAGCTGGAGGGAGCATT	14836	GGGTAGGCATTGTTCCACACTCT	25820	TGTGGAGCAGCCAGATCA	36804
3179	ATCTCCAGCACCTGCACTCA	14837	GGTCAAGTCATCAGGTGGAGTCA	25821	GGGCTATGATTAGGAGAGCCTATCT	36805
3180	GTGCTGTTGCAAAGAGTCGAGAA	14838	GGAAAAAGTATCACCTTCCAGAT	25822	TCCGCAAGCAAGTGCTGTT	36806
3181	GGTTGAAAGATGGAGCCCTCTGA	14839	AGTAGGCTTTGCAGAAAGTGAAGT	25823	AGGCCAGGGAGTGGTTGAAAGA	36807
3182	GCTACTGGGGAAGATTGCTTGA	14840	CACGGCTCACTTGTGACTTTG	25824	GCACCTGTGCCAGCTACT	36808

3183	GCCAGACGAGTCACTATACCCTTGT	14841	TGCCTTGGATGATGAGTTGAGAAG	25825	CTCTTTCAAGCCAGACGAGTCA	36809
3184	CAGTCACTATTACTGTACCAGGAGTGAT	14842	GCCTGTTTGCAGGCTCTGA	25826	GCTGATGTGTGCACAGTCACTATT	36810
3185	CACCCAAACATTGGCTTTTCTTCAA	14843	GACGTCCCTGCATTCCCAATCT	25827	CCACGGATCCTCACCCAAACAT	36811
3186	GAGGCACTGGTTTTGGAAAAACAACA	14844	ACCCACCCAGCGACAGGTT	25828	ACAAAAGGATGAGGCACTGGTT	36812
3187	CATGGTCCCCACCCACAAG	14845	GACTGATGAGTCTGGGTTACATC	25829	AGGTGCAGGGCTCACAGTAA	36813
3188	GAGGAGAATAACAGTCCATGTTTGT	14846	GGCTGCCAACCACTAGTA	25830	GCGGCTCTGAGGGAGAATACA	36814
3189	AGGGAGGGAACTGGTGAGGTA	14847	CACCTCTCAACACTGGTCTTTCT	25831	TTGTTGGAGGAGGGAGGGAAC	36815
3190	GGCAAAGTGGAGAGATCCAGAACA	14848	AGAGATCTGGGCCAGCCAAAG	25832	GCAGGTTTCAGGCAAAGTGGAGAGA	36816
3191	CTGAGAGGAGAACTGATGCTTCTT	14849	TAGGCACTGCAGCCCTTCA	25833	GAGAAGCCCACTGTCTCTCTGA	36817
3192	GGTAACCACCACTGGCCATTCT	14850	TTGCCACGCAAGGCTACTT	25834	GAAGGAAGACTTAACTGGTTGGTAAC	36818
3193	TCTGAGGGGCTGGGAACCTGA	14851	ATGGCTGGCTGCCAGGTAA	25835	TGTGCTCTCAGCTTGTCTGA	36819
3194	CAAAGTGGTCCCATTTCCTTCA	14852	CTCTGCTGGTAGGGGTGATTGAT	25836	ACATACTCTTCTCCCTCCAAGT	36820
3195	GGTGTGCTGGAAAGGTAGGAT	14853	GGTTGTCAAATCCCAAGTCCAGTCT	25837	AGATGAAGTTAGGTGTGCTGGAA	36821
3196	AGGAGGGTCAACCTTTGTGTCT	14854	GCCTTTCAAATCCAGTGGTGACAAAC	25838	CCCACCAATCACCATAGCCAGTA	36822
3197	CCAGAAACCGTGAGTCTGTCA	14855	GGACCCAGCCTACATCATATTC	25839	GGACATGGAAGTGTACCCAGAAAC	36823
3198	GAACCGCATAGACAGCTACCTA	14856	TTGGGGCACTGTGGAGCAA	25840	CCCCACAAGAACCGCATAGA	36824
3199	TGGCATCAACTCCCTTTCTTCAA	14857	CCTACACAAGGAGGGAAGAGTGA	25841	GCAAACACATGTTGGCATCAACT	36825
3200	TTGTCCCTGCCTGAAGGACTCA	14858	GAATTCACAGGTTGAGGAAACCTA	25842	CTCACCCCGAGACCCTTGT	36826
3201	GGAGCAATGTCTACAAGGATGAGATG	14859	AAGCCCCAGCCCACTGGAT	25843	GAGGGAATCAAGGAGCAATGTCT	36827
3202	GGCACACAGTCATGGTAGAATAAACTT	14860	GTCTACAGCACCTTTCCACACA	25844	GTGGATGGCACACAGTCATGGTA	36828
3203	CAGTGACCAAGTGGGAGAGAAG	14861	TCCACCCAAAGTGCCCTTTTA	25845	CATGGCACACAGTGACCAAGT	36829
3204	CACAATTCGGGAGATGAAGTGA	14862	GCCTTCACAGCCAACACTGA	25846	GCCCCGGAGCTATGACACAAAT	36830
3205	CTGCAGCAGAGGTTTGCAGT	14863	TCCTGTAACTCTGGCTTTCGTT	25847	GGCAAAACTTTTCTCAACCCTTTAG	36831
3206	GACAGGACTTGCACAGAGCATGA	14864	CCACAGGAAGTGTCCATCCAATC	25848	ACACCAACAGGGACAGGACTTG	36832
3207	GATGACAGACACGAGGAAGA	14865	CCTGTCCCAGGACATTGAAGT	25849	ATGGTCAACGTGATGACAGACA	36833
3208	ATATCGCCCCATCTCCTCAGT	14866	CCCAAAGAAAGCCGTGTGGTT	25850	TGTTTGAACCCCTCCCTCTCT	36834
3209	CAAAACCAATGCTACATCCACTT	14867	CCACCACAGATGGGAAAGTACT	25851	CCTGTTTGAACAAACCAATGCTA	36835
3210	GGGCTCGCTCCAAAGAGTTA	14868	ATGTCCCTCAGGCAGGCAGAT	25852	CAGGCCCTGGGGAATACAGA	36836
3211	GTCCGGCAGTTCTGGGCATGA	14869	CTCTGCCCTGGACACTGAA	25853	TGGGAATACGGTCGGCAGTTC	36837
3212	CTCACAAACCAGAAAGCCCTTGA	14870	TTTCCACGGCTGCTCACT	25854	CACCTATGCTTCCCTTCAAC	36838
3213	GCGCCTCTCTCTCCGTTT	14871	CAGTACAGAAAGTCTGTGGGAATA	25855	TGTCCTCGCGCTTCTCT	36839
3214	TGCTGGCCAGACCCCTGCAT	14872	CAGGGCTCGTAGCCTTGTCTA	25856	GCCACAGTTGACTCTGCATCCTT	36840
3215	GCTTTGCAGACCAGCAAGGAA	14873	AGGGCAGATTGCTGACTTTTGA	25857	CCAGCCCATTTTGTAGATAGCTTTG	36841
3216	GGCCCATCTTGGGGTTCAGTT	14874	GCTCCACACTGCCGCAACA	25858	AACCCCTTGACGGCCCATCTT	36842
3217	CAAAGGGCAGGCAGTGTTTTG	14875	ACAGCCACCTTGGCAAAAC	25859	CCAAAGGGTCGTACACCAA	36843
3218	CCATCGTGGAATTTTGTCCAATCT	14876	ACAACATTGACGGCTTTGGTATG	25860	CCAGATGGAAAAGCCATCGTGGAA	36844
3219	GGAGAACTGGACGGTTGTGAAG	14877	GCCATGGTCCCTCCCAAGTTAC	25861	ACGAGGCCAGCTGAACAA	36845
3220	CCTGTTGAAGCCACTAGACCAA	14878	AGACTGACCAGCCCGAAAA	25862	CCTCAGCTTCCCAGATACCTGTT	36846
3221	GTGTGATCTGGTGCTTCACA	14879	CACTGCACTTGGCCTGTTTTT	25863	CCAGGACAGGCATTGAGTGTGA	36847
3222	AGTTCCTGGGTGGAGGAACAA	14880	GCCTCTGTTCCCTTTCTGT	25864	TCCCTCAGATGCCTGTGTTAC	36848
3223	GTCCCAAAGCAGCCATAGACA	14881	GGAACACAGCCATGCCATT	25865	CCTGCTCAGCTCTGCTATTGT	36849
3224	GGTGCACTTGAATGGTGGCCTTA	14882	GCTGCCAGCGTTCAATATC	25866	AGAAATCAATGGGGTGACGTGA	36850
3225	CCTCCTGCCACCACTGAA	14883	CGGAAGGCATAGGGTAAGCACTGA	25867	GGCACTTCCCCTACTCTTTCT	36851
3226	GTGAGCAAGAGACCTGACTGA	14884	CAGGGATCAAGCTGTGGCTTAG	25868	GGGTGGCCTGAGCTAAGAGT	36852
3227	CAGTGACCACTGCTTTCATGT	14885	AGGGAGGCAGTAGTAGGTTGA	25869	AGTCACCCCACTGCACCAT	36853
3228	GATGGCCGGAAGCAGAAGT	14886	AAGGGCTTTCCTCCCTTTTG	25870	GGCAGAAGGGGAAGCAACA	36854
3229	TCAACCTCCCGGCTAACATGA	14887	TCCCGCTACCCAGGAGTCTAA	25871	TGGGTTGCTGCAGACTCAAC	36855
3230	CATGGAATCACTCAGTGCATAGTCA	14888	GGTAATTTCTGGGCTGACAAGTT	25872	TTGACTGCTACTCCATGGAATC	36856
3231	TGGACACACAGGTGGAAGATG	14889	CCACAGGGCATTGCAGGTTTAC	25873	CTGAGAGCTTAACTGGACACACA	36857
3232	ACTCAGTGGGTCTCGATGTGA	14890	CCCCTGCCAGTTTCCAAT	25874	AGGAACTTCCCTCTCTTTACTCA	36858
3233	CCACCTAGAAACCCACGACAAA	14891	GCAACTTTGACTACCTCACTGACAA	25875	TGGGACACCTAGACCACCTAGA	36859
3234	CTCACAAAGGGCTACAGGGCATT	14892	CGATGAGGACACTTCTCTTTCTGA	25876	ACCAGGTCCCAGACCTCACA	36860
3235	GGATAGGCAACTCTCAGGGCAAT	14893	GGGTCTGCAGACAAACCTT	25877	GCACACAAAATGAGGATAGGCAACT	36861
3236	CTGGCCGATGGGGTTCATC	14894	CTCCCACTGAGATTTGCGATATAATCTT	25878	CACCTCCAGTTACCCCTCAGTTC	36862
3237	CTGGGCTCAAACAATACTTCTACCTTAG	14895	CACCTGTGGTCCCAGCAACT	25879	CCTCAACCTTCTGGGCTCAAAAC	36863
3238	GAGGACTAGCACAGCAATACAAAG	14896	CACCTCCAGGCCTTAAGAAATC	25880	AGAGGTAGGACACAGAGGGACTA	36864
3239	ACACCCAAACAGCCCTGATAGA	14897	ACTTCTCCCTGGTCTGATGT	25881	GGCCTTAGGGACACCCAAACA	36865
3240	CCCTGATCTTGCTAACCTTCAGA	14898	CACCATGCTCCTTCCATCAGA	25882	CACATAGCCCTGATCTGCCTAA	36866
3241	GCCAAGATCCACTGTTAGACCAAGA	14899	GCTGAAAGCTGTGGTTGGTTTTG	25883	CACATTAGGCCAAGATCCACTGT	36867
3242	GGAAAGCTCTCTGAGCTGAAAAATG	14900	AGCCCCAGTTCCCACTAA	25884	GTGATCATCATGCAAGTGGGAAA	36868
3243	ATGTGATGGCTTTGGACCATG	14901	TGCTGTTGGAAGTGAAGAGTT	25885	GCCCTTTTCACTGTGTAATGTATG	36869
3244	GGAGACAGCTAGGGTGTGGACAT	14902	CCATCCCCGCTCCAACCTCA	25886	GGACGTGAAGAGAAGCGGTTT	36870
3245	GTCCACCTGACTTGCATTTCTCTCT	14903	CCCTCGGAAGCTGTGTCTAGTT	25887	CCCATATGCTCCACTGACTTGCAT	36871
3246	CCCTCCCAACTCTGAAGTTTGT	14904	TGTATCTCGGCTGAATTGAGAA	25888	AACCAGACCCCTCCAACCTCT	36872
3247	GCTGTGTCAACCTCAAAGTTCAGA	14905	GGTTTGGTCTGTGGCTGCATAG	25889	AGGCGAAGAGCTGTGTCAAC	36873

3248	TGACTACAGCTCACTGCTCTTG	14906	CAGTTAAAGTCCGAGGAGGTGATG	25890	TGGGCTGACCACTGACTACA	36874
3249	GTCATCGGAAGTTAAGCCGCATCT	14907	GCAACTGAGCATCGGAGACT	25891	CCGAAGTCGTGTCAATCGGAAGT	36875
3250	GCAATGTAGGAGTGGATGGCTTT	14908	CCTTCAGCACTGTAGCTCCTCTAC	25892	GCTGGATTAGAGTAGGGGCAATG	36876
3251	GGGTTTCAACAACTCAAGTGCAA	14909	CGGTGACCTCTCTTTACTGAT	25893	TCCGTCTCAGGAGGGGTTTCA	36877
3252	CTGGAAATCACCTAATTCAAGCCCAAATC	14910	GGTGCAGGAGGGGTTTGT	25894	CTGCCTCCTTCGATCTTCTGGAAA	36878
3253	CAAAGCATATCATTTACTCCCCATTTC	14911	GAAGTTCCCCGTGACAGAGA	25895	GTCCCCAGCCAAACTTTCCAA	36879
3254	CTGGCAAGGGTTGGAGACACAT	14912	GCTTGCCAGCCAACCTGTTA	25896	CAGGTAGTTTGTGAGAGCAAGTCA	36880
3255	TGGGGACTTGTGGTGCCTTTTTC	14913	CCAGTTGGTCCATGGGCGAGTTA	25897	ACAGACCAGAGTGGGGCACTTGT	36881
3256	CGGGAGATTAAAGCGCCAGTTAC	14914	GGGTGGGCCATTAAAGACAGTTC	25898	TCCTCCAGTTTCCACGGGAGAT	36882
3257	GCATAGCTGGTCACACACTCT	14915	GGAGGAGAGAAGCCTTGGGATTG	25899	GAGTCTCTTGAGGCACTTAGCAT	36883
3258	GGCTCCATCCTCAGGCTTCA	14916	CCAGGAAGCTGCAATATGGAAGTGA	25900	GGACGTTCAAACCTGTATGAAAG	36884
3259	CGAGGTGAGACGCTATCTATGCAA	14917	GCCGTGGCTGTCCAAATGTT	25901	ACAATGCTCCCGAGGTGAGA	36885
3260	CGCTCTGCGAGGTCTCTGT	14918	TGAGTTCTGTGAGTCCGTGAAG	25902	ACTGATGGAGGTGGCCTGAA	36886
3261	CAGGCTATGACATCAAGGCTTTCT	14919	AACACCATTCTCGTCATGATT	25903	CAGCTAAATCCAACAGGCTATGACA	36887
3262	GCCTCAATGGGAGCTTCTCAAC	14920	CCCACATCCAGGATACTTGGCTTTT	25904	GCCAAGAAAGGTGCGCTCAATG	36888
3263	GAGGACCAGGGAGTGAATGAAGT	14921	TCCGACCTTCTCCACATT	25905	GCCATCACTGTATCCTCTCCATCACT	36889
3264	CTGCCTGGAATGCTTTTCTAGATT	14922	GTCTGCGTGGAGGGAGAGA	25906	GGGTCCCTCTGCCTGGAATG	36890
3265	CAGTGTGAGGAAATGTGCTTGT	14923	TCCGCTCTCCCATCACACAT	25907	GCCCTGCAAGTGTGAGGAAAT	36891
3266	GGATGGCTGATGCTTCCGATT	14924	GGTTACATTGCGGTGATCAAG	25908	GGAACAAAACCATGGATGGCTGAT	36892
3267	CGCGTGCCTTACATTGGTGCA	14925	CGCTTGGCTCTCATTCTCT	25909	GCGAAACGCGTGCTTACA	36893
3268	TGGGCTTGACCAACTACAAATTTCT	14926	GAGCCTGGGGAGAGGATCA	25910	CCACACTTCGGCTTGACCAACT	36894
3269	TGCGAGTGCCTGGTTCTCTGA	14927	GTATGTGAAGATGGTGTGTTGAATC	25911	GCCCTGCCTAACACATGTTT	36895
3270	AGTTGCTCTCCAGCCAAAGA	14928	CCCAAAGCACTAGAGACTGGGTCAT	25912	CTCCCTTAAGGAAACCCACAGTTG	36896
3271	GAGGACTGACAGGTTCTGCTT	14929	AGGCTGGGTTGCCTTGTAAAC	25913	CTTGACTTGCTGAGGACTGACA	36897
3272	CCGAGAGACAAATGTAAGATGTTT	14930	GGCCAAGCAAGGTGGAATCT	25914	GGGAAGGTCCGAGAGACAAT	36898
3273	AGCCACACTGCCTCAGCAAA	14931	TGTGGACAGCAGCGTCTCTAAG	25915	GACATGGAAAAGGCTGGAATGTAG	36899
3274	CCTCAAACCTCCCTGTGGCTAA	14932	GGTCATGAACATGGAAGAACAGATT	25916	TGCTGATCCACATACCTCTCAA	36900
3275	CATGACCTGCTCACACCTT	14933	CTGAAGTCCAACAGGCATCTCA	25917	CTTCATTGAATCTCCAGTGGGAACA	36901
3276	TCCAGTGTTCCCTCACTCA	14934	GACTTCTTTCTACCTTGTGCTGAT	25918	TCCTGGTCTCTCCAGTGTT	36902
3277	CCCCAAACCTTTTCTGGTGTT	14935	CACCATGAAGTTCAAGTCCATAGTCA	25919	CCAAAATAGCTCCCAACCCCTT	36903
3278	GCCCAATCCAGGGACAACA	14936	CCCACCGTCTGCATACTCA	25920	AGCCCAGGACCTGCCAAA	36904
3279	GCCGGCTGGTTCCATCACT	14937	ACGTAAGTGAATGAGGGGAGAACT	25921	TTGCCCTTGCTGCTGTCTGAA	36905
3280	GAGCTGGGTTCAAACCAAAAAGT	14938	TCACTGCACCATTTTCCCAAT	25922	CACTGACTGGAGCTGGGTTCAA	36906
3281	GTGCATTCTCCATCATGGCATTGAAA	14939	TCCTCAGGGCCTTGGGAAACAT	25923	ACGAGCCAGAGACATCCTTAAAAA	36907
3282	GCTTGGCCTCTTTCTGAACCTACTA	14940	AGCCTGCCTCACATTATCCTTTC	25924	CTCCAATGCTTGGCCTCTT	36908
3283	GCTTCCACAGCATGAACCTTT	14941	GGCAGGGAGGTCTGACTGAA	25925	ACTTCTTGAGCTTCCCAGCAT	36909
3284	CCTTCCCTGAGAATAGCACCTGT	14942	CTGGGACAGGACCAAAATCCAATAC	25926	AGAAGAGATGTCTTCCCTGAGAAT	36910
3285	ACACTCGTAACAGCATCTTTCAGA	14943	GCTAACTCTGACAGGCTAAGTGCTA	25927	GTGGCATTGAAGACACTCGTAAC	36911
3286	TCTCTGGCCCTCAGTCCTTTGT	14944	ACTGGAACCCATGAAGACTCCTA	25928	GGAATCTACACCACTGCCTCTCT	36912
3287	CAGCCACATGAGTCTTTCCAGAT	14945	GCCAGATGGTGCTTGGTTCA	25929	CACCACACTACAGCCACATGAGT	36913
3288	TCTTGCCAGGTAATAGCCTCAAC	14946	GGGCAATGCCTGAGAAAATGGTA	25930	GTCTCGAGGAGAATAGCATGTCTTG	36914
3289	ACCAGGGAGACTAAGAAACACTTTTG	14947	TCCAAGTGGCCTTTTGGAAACA	25931	CTGTGTAACCTATTACAGGGAGACTAAG	36915
3290	CATCCCTTCCCTACTTCTCCATTC	14948	TCAGAGGCATGTTACCTCTCT	25932	CAGCTACTTCTATCCCTTCCCTACT	36916
3291	CCCGTCCAGTTGGTGCTCAT	14949	GATGGCACAGAGAGATGCTGAGA	25933	CAGCAAGCCCGTCCAGTT	36917
3292	GCCTCAAAACAGGGGAGGATGACA	14950	GGGCTTTTGGCCACAGACTAA	25934	GCTCAGCCCAAAGCCTCAAAAC	36918
3293	GGCAAAATAAAGTCACTTGCAAGTAT	14951	AGGTTCTGTGCCATGAGGTTTTG	25935	GCTGCCATTCAAGAACAGCAAT	36919
3294	GCAACGGGAACCTTCCACTCACT	14952	CGCTCAGCAGCAGCTGTAACCTA	25936	GAGATGGAGGTTATGCATGGATTCT	36920
3295	AGGAACCACTAGGGCTATCACA	14953	AGTGCAGGTTGCAGTTCA	25937	GCCATCACCATGGATGAGGAAAG	36921
3296	GGCATGCAAGGAGAGAGGAAA	14954	ACGCATCCTTAGTACCTTATGCAA	25938	CAGACAGGAATGGGCATGCAA	36922
3297	ACCCACCTGCCTGTTATGT	14955	GTAAGGTACGGTCAGTAGTGTAGAAG	25939	TTAGCGATCCAGTTCACCTAAC	36923
3298	CCTTAACTTCTGTCAGAGCTTCAAT	14956	TCAGAGGGCCTTGGCTGATCT	25940	GCAGCTGAAATCTGCCACCTTAACT	36924
3299	GTGGGCTCCAAAGTTCCTTTTAC	14957	TCCTTCTGCTGAGAAAAGCAA	25941	TGCAGGACAGTGGGCTCCAAA	36925
3300	CTGACATGCGCCCTAGGTAATGA	14958	AGAGCCCTAGGGAGCTCATGGTA	25942	GCACAGGAATGCATGAAGCGAAAC	36926
3301	GATTTCTTTCTGAGTGAGGTCCAA	14959	TCACTGATCCAGACCCCAAGA	25943	GGACTTGCCTGATTTCTTCTGAGT	36927
3302	GGGGATCTTTCCGCCAACAGGAA	14960	TGCCAGTCCAACCAAGCATAG	25944	GTCTCTATCTCAGTCTAAGGGGATCT	36928
3303	CCTTCAACGCAAAAGTGACAAC	14961	CCCAAGTGGGCAAGCACTTTGA	25945	CACACATCTGGTCATTTCTCTTCAAC	36929
3304	GCCGATAGTCCCAGCTGTTT	14962	GGGCTCAAGTGATCCTCCCATCT	25946	TCGTGGTGATGCCGATAGT	36930
3305	TGTTTTAGCAAGCAGACAGCAT	14963	TGCCCTAGAGCAAAGGGTATATTTT	25947	CAGCTGCAAGGTGTCATGGTT	36931
3306	AGCGTTGGTAAGAGCCATTGATT	14964	GTTCCAGGCAACAGGAGTGA	25948	GGAACCTGCAGCGTTGGTAAGA	36932
3307	AGGTGGGCTGGGTCATGT	14965	TCTGCTGCTCCCTGCTCAAT	25949	GGTGTGTGTGGTGCTGAT	36933
3308	TCAGCAGGCACTGGCGCAATC	14966	GGGCACTTTGCCGTGTAATTCT	25950	GGATCCTGTGAAGAGGCCAAAT	36934
3309	GGTCTGAGGTTCTATCCAAATGTCTTC	14967	GCCACTAGCCTCCATGTCAAG	25951	CCTCTCTGGGCATTATGGTTCTGA	36935
3310	CTACAGGGGATGTCGAATG	14968	CTGTGGGCACAGGAATCATCT	25952	GGCTGTGTGCTCCGTGTGTA	36936
3311	TCAGGTGTAGCGGGCAGTTAGT	14969	AGGACAGGAGGCAGGTTCAAGT	25953	CCGTGGCTGTCTGAGATACACT	36937
3312	CACCTTTCCCAAGTGGCCTTT	14970	CCTCTGTGTGTTGTGCTTGGAA	25954	CGTCAAGTTCAAGTCTCACCTTTC	36938

3313	TTCCACGGAGAGGAGAACACA	14971	GCCAAGCTCCGTGCTGGTAA	25955	TGCTGTCTGCCACAGACTT	36939
3314	ATGGCTGCTGCTGCCCTAGA	14972	CAAACCGAAGCAGACATAGTGAAG	25956	GCGCTGCTGTCTCTGGAAAT	36940
3315	CTGTCCGAAAAACAAGAGCATCTGA	14973	GCAAGATTGTGTCTGGAGGTTCA	25957	GACAGAGTTCCTGTCCGAAAAACAAG	36941
3316	TCTCAAAGACGACCAAGTGATTCTT	14974	CGGTGAGGCTTTGGAGAGTTTTG	25958	CATCGCAGCGAGCTCTCAA	36942
3317	CCTCCTGAATTCTGAGGCCTTT	14975	TCCTGCTTTGGGACATGGAA	25959	CCAAGTTCGCACACCTCCTGAA	36943
3318	GGAACAATGCCAGCCACACT	14976	ACAGCGGGGCATTACAGA	25960	CACTCTCCAGCATCTTAAGGAACAA	36944
3319	AGGCTTGTTCTAGTGGCTCTA	14977	GATGGAGAGCATCTGGGTCCTT	25961	GGGAAGCTTCAGGCTTGGTTCA	36945
3320	ACTCCGCTGCTGAGGACTA	14978	TGGGTCCACACTGGTGGAAATGA	25962	GCCATCCAGAACCATTCTGTCA	36946
3321	GAACTGAAGATGCCCCACACTA	14979	TCTTGGGGTGGATTGGGGACTT	25963	TTGGAGAGCAGTTTGAGCATCT	36947
3322	GGACCACATGCCTGGTTAGTCA	14980	ACAGTCAAGCAAGGGGTGTTATG	25964	CGTGTAGGCTGGGACCACAT	36948
3323	GCCACCAGAGCTTGACACTGTT	14981	CTGCCCACTGTCACTACTGCAT	25965	GGAAATGGCCACCAGAGCTT	36949
3324	GAGAAGTAGGGGCATGTGTGTGA	14982	CAGGATGGAGTCACACCATAACTT	25966	AGAGGAAGAGGGTGGAGAAGTAG	36950
3325	GACCAGAGCAGATTTGGATGAGA	14983	CCAGCCACCACAGTCCATCA	25967	GCGGGAAAAATACCAGAGCAGAT	36951
3326	GGAAAAGCTACAGCCTACCCCAAA	14984	CTTCCGGAGGCAAGGAAACA	25968	CTGGCAACCGTCAGGATTATG	36952
3327	TGAACACCAACAGTAAGAGGACAA	14985	GTCTTGACAAGTGGCTCGCAGTT	25969	CAAAACCAAGTGAACACCAACAGT	36953
3328	ACGATTACCTGTGTGCCATT	14986	GCAATGCCCGTAATACCTATCTTG	25970	TCACAGTGTGCCACGGATTAC	36954
3329	AGGGTGGGGCAGCAGTTTG	14987	GGCTTGCATGTGGTGGGATACT	25971	CCTTGACAGAGCGGAAAGGAT	36955
3330	GGACTTCAGGAGCTTCTACTCA	14988	CATGTAATGCCGTCTCCCTTG	25972	TCTGCTCCAGTGGGGACTT	36956
3331	CTTCCAACACAGGAATCAAAGTTCA	14989	GATTTGCTTGGCCCTGGTAAGT	25973	CCTCACTTCCAACACAGGGAAT	36957
3332	CACCACGCTAGTTGGTGATAGAAC	14990	GGAGCTGAATGCTGCCTGGAT	25974	CCTGAGGTCAACACGCTAGTTG	36958
3333	GCCTTGCTGTCTCCAAACT	14991	GGTGTACTGATGCTTTGGTCTGA	25975	CCGTCAACCAACCTCAAAGT	36959
3334	GATGCCACTGTCACTCCAGACA	14992	CCCTGTAGCTTTGGGCTCCTT	25976	ACCAGCACCTAGATGCCACTGT	36960
3335	AACGTCTCGCCACTCCCTGTCT	14993	CCCATGGTCTCAGGCTCAAG	25977	TGCATGATCCAGGCGTCAAC	36961
3336	GTGGTGTGGATGGGAAGGAA	14994	CGCGGACACCTTGGAAACA	25978	GACTTAGGGAAGTGGTGTGGAT	36962
3337	CAAGACACCCATGCCCTCACTT	14995	GAGCCAGTCCAATGGTCTCCTT	25979	CCCCAGGTCTGTAGCAAGACA	36963
3338	GCTTCAGCAAGTCATCCTGATCT	14996	CAGCACCCAGCAGCAACGAA	25980	GCCTCCACTGAGCTTCAGCAA	36964
3339	CCTCGAGGAACCTCGCCTTT	14997	CGGTTCTGAACAGGGAGTCTT	25981	AGCCGCTCCCTTCCTTTTC	36965
3340	TCAACCTCTCAGGCTCTAGTGAT	14998	TGCTGTGGTCCGACTACTT	25982	ACTGCAGCTCAACCTCTCA	36966
3341	TCCGTGCACTCAAAACGAA	14999	TGTCAGCAGAAAATGTACAGTGCTA	25983	CCAGAGTCAGCAGTAGGAAGGAGTTC	36967
3342	CCACTCACAGAAGTGCCACTGTTTC	15000	TGGCCACCTGTCCATCTCCAA	25984	GCCTTTAGCTCTCCACTCACAGA	36968
3343	GCACCCAAAATGGACATCCAACA	15001	GCCTCTGGCCAGCCTTCAAAT	25985	GACTCGGTTGCACCCAAAATG	36969
3344	GGCCAGCTCTTCACTGCAT	15002	GGGCACAGAAACTCACTGTTCAA	25986	GCAAGACACAGGCACTCTGATG	36970
3345	GCATAACACGTAGCCTGAGTAATG	15003	TGAGCCTGGTCTCAGACAAGT	25987	TCCTAGGATCTGCACTAACACGTA	36971
3346	TGGTGTGGTTGCGGGAGAAG	15004	CAATGAGCTTCCGTCCTCACTT	25988	GGGGAAGGAATTCAGGGAGAGACA	36972
3347	CCATCGTGCTAGGCAGGTAGT	15005	CCAGGCCAGGGCTGTAGGATA	25989	GGCTTGAGGCCATCGTGCTA	36973
3348	CCTCTTACCTCCAGCTCCTTGAT	15006	GAGCCAGTAAGAAGTGGAGACA	25990	CCCTGTGGATCTACCCCTCTTT	36974
3349	GGTGGCGAAGACCCAGTAAAG	15007	CAGAGCGGAAGAAGAGTGAAGTT	25991	AAGGGGCATGTGGCGGAAGA	36975
3350	GGAACCTCGCACTGGAGCAA	15008	GGTGGCAAAGCAGATTCATTTTCTCCTAA	25992	CTCCCCACTAAGGATGAGGAACT	36976
3351	TCCCTGCAGGTGAATCTTGTT	15009	ACCATGAGGAAGAATTGGCCTTT	25993	GGCTGGCTAACAAATGGGTATCTCT	36977
3352	GGGACATTTGACCAGAGACAGAA	15010	GCATAGCATCTGCTCCAGTT	25994	AGAGAGGCAGAGGGACATTTGA	36978
3353	TCTCCACCTACCCCTTTCTGTAG	15011	GGACTAGGGAGCCATGTGGAAGT	25995	CCATTGCGAGTAATTCACCACTA	36979
3354	TCTGGCAGGGCTGGAGTAGA	15012	TCCAGTCTCATTTTGCACTGTTCT	25996	GCATTGAGAACTGAAGCACACTCT	36980
3355	CCCAGCAGCAATGTGGAACA	15013	GCTTCCCTGGTTGGTAATACTCTGT	25997	CAGCTTAATTCCTCCAGCAGCAA	36981
3356	TCTTCCGCTCTCCCTTCTCT	15014	GTAGCGGTGTGCTGTGATG	25998	CCAGGCAAGTGACCTGTGTTA	36982
3357	CAAAGACACGGAAACTCCTCAT	15015	CCAACGTAGGTCTGGACTGATG	25999	GTGCAATCGTGCTTCCAAGACA	36983
3358	GGATCACTTGACCAAGGAGGTT	15016	TGATGCGAAGTGGCTCACT	26000	GGTGTGGTGGGAGGATCACTTG	36984
3359	GATCTAGCTCCTGCCTACTTCATGT	15017	CTGGGCGAGAGCAAGTGGAAAA	26001	TCCTCTAAGGAGTGGCATGATCTA	36985
3360	CTGTGCTCACTGAACGTTGTACTGA	15018	GGCTCCTAACCACTAAGAACACA	26002	TGCAAGTCTGTGCTCACTGAAC	36986
3361	GCATCACTGCCTTCCAACCTCA	15019	GGGAGGGGACAAGAACTGTGAGA	26003	CCCTTTGCTCAGCCATGCATCA	36987
3362	GGAAAAACAACCCGGGGAACA	15020	GTTTGAGATGGTGTACTGACTTAAC	26004	GGCATTGATCACAAGTGAGACTGGAA	36988
3363	TTCCTGGTATGACCTGAACCTTG	15021	TGCTCCAGAGTGCTCACA	26005	CCTGACATGGAAGGGTTTCTGGTA	36989
3364	CCTGGGACATAGGGAGCACAT	15022	CCCAAGGAACACAGACCCTAGT	26006	CGCTAATGAATTGCCTGGGACATA	36990
3365	CGGTTGAGAGGTTATATCTTAGGCCTGTTA	15023	GCCCCGGTGAAAGCAACCAT	26007	CCCTACAGAACGGTTGAGAGGTT	36991
3366	TGTGGCTGGGATGGAGATCA	15024	CTTTTCTGCATGTGGCTTCCAA	26008	GTCTCCTTATTCTTTCTGCTCTTG	36992
3367	TCAGCCACACATTAACCCAACCT	15025	AGAGACCGACTGGGAGGATAGA	26009	TGGCAGTTTTAGCCACACA	36993
3368	TAAGGCGGTACAGGGGTGACT	15026	GAGCTGTGTGAGATGCTCCTCTTTT	26010	TGGGTGCATAAGGGCGGTACA	36994
3369	GCAGTTTAGCCTCTGGGTTGAAG	15027	CACGCTCCAGCAACAAGAAG	26011	GTCACTGGGAACGAGTGGTTCAA	36995
3370	GAATACGCCAGGTCTTGTCACT	15028	GACTGGTTTCACTCTACCTGTGT	26012	GCTCTCAGCATTTTCCAGGCATT	36996
3371	CCCATGAAGGTTCTTGGCTTTG	15029	CACCACTGACTCACCTTGAAT	26013	GTGGAGCTTAACCCATGAAGGTT	36997
3372	CACCCTTGGATGCTGGTAGTGT	15030	CCCCTGGGTCTCAAGGATTTT	26014	CCACAAGTTGGACACCCCTGGAT	36998
3373	GGTTGGGATTGTTTGTGGCTATT	15031	TCGAGCCAGGAAGCAAGT	26015	CTCTGCTGGTTGGGATTG	36999
3374	GCAGACCTGTGTTTGAGACCTA	15032	CTCAAAGCCATATCGGGAGCAT	26016	ACTGTTTTAGCAGACCTGTGT	37000
3375	TCTTGTGAGGTCCTGCAATTT	15033	AGCTCTGGGTGACCGTGGAA	26017	GCCTGGATGTCTGCCATGATCT	37001
3376	GGAAGCATCTGCATCCTAGTAGTT	15034	CACTGCCAACCAAGATCCTATGT	26018	CCTCCCATGTTGGAGGAAGCAT	37002
3377	CGATACAGCTGTTGTCTCCAGAA	15035	CTGATCCATAGGCCGAAGTGACAA	26019	GGGGATCAATAAGCCATCGATACA	37003

3378	GCCTCCACTTTGTGCAGTGT	15036	GCTGTGGTCACGCTGTGAAA	26020	CCTTGGTTGTGCCTCCACTT	37004
3379	TGGAGGTGAGGGCAAGTTCA	15037	TCACAGGCTTGGGAATGTCAAT	26021	CCCTTGTCTAACCAGTGATACTGAA	37005
3380	TGGAAGAGCTGGCTGTCTATG	15038	CCCACTTTTGACCTTGGCCTTA	26022	TTCTTCTGCAGACACAATGGAAAG	37006
3381	CAGTCCATCTTCTGTGCTGCTA	15039	GGCCTTGAGCAGGTGTTTTAGTA	26023	TCCTCGCCAGTCCATCTTCT	37007
3382	CCCCCCCCATAAACCTTAGGAA	15040	CTTGCCAAGCTGGCATCTAAGT	26024	AGTCCCAACCCCTCCCCTATAAA	37008
3383	CTGCTCCAGGAAGCTGCTGAAT	15041	CAGTGAAGTCCCAATGTGGTA	26025	TGCCAAGTCTGCTCCAGGAA	37009
3384	CCTTGCCTGCTGGCTGTAGA	15042	GCACTGGTCAACCTAGGAGTGCTAA	26026	GTGCTCTGAAAGGTGGGTCTTCT	37010
3385	CTCAGGGACTAGAAGCACCAGGTA	15043	TCAGCAGCCTCCACACT	26027	CCTTGAAACACTCAGGGACTAGAAG	37011
3386	GCAGGGTCTTCTTTTCCCTCACA	15044	GCACCTGCATCCAGCGATAAG	26028	CCCCATGTAGCAGGGTCTTCT	37012
3387	GAGGTGCAGATCCACACTGTT	15045	CAAGATGTTCCAAGGTAGAAGAGAGA	26029	TTTTCCATTGAGAGAGGTGCAGAT	37013
3388	GCCATCCTTTGTCTGTCACTGT	15046	GGTAAGTTTGTCTCCCTACTCACT	26030	GATTTTCAGCCAGCCATCCTTTG	37014
3389	GCCATTTACCACCCAACTGGAT	15047	GAGGCTCTGGAAGACCATTCTCT	26031	GGATGCAGCAAAAGTATGCCATT	37015
3390	CAGGAACACAGAGCCCAAT	15048	GGTCCCTGAGCCAGGGCTAT	26032	TGGAGACAGCAGGAACCACAGA	37016
3391	CTGTTGTGACCTGATTCTCATGTATTC	15049	GGGCTTTGGACCTTCAGCAT	26033	GAGCCTGTGTGTGACCTGATTCT	37017
3392	GCAAGGAGTACCAGCTCAAGGTA	15050	AGGATGGGGCTCGGAAAAAC	26034	ACGATTCTGGAGGCAAGGAGTA	37018
3393	GTCTCCATCAACCTCACTGTGTTTAC	15051	CGTGCCCGGCATATTATTTAGT	26035	CGGTATCTCTGTCTCCATCAAC	37019
3394	GGTAGCCTCTTCACTCATTGTGGTA	15052	CCTCTCTGTGGAGGGGATTCT	26036	CCCACATGGTAGCCTCTTCACT	37020
3395	GTGTTTTGTCTGTTTCCAGCAT	15053	GGTTCCTTCTGCACTTGGAT	26037	GGAGCAGGGTGTGTTGCTGTT	37021
3396	GTGGGAGAAAAGTAGCAGTGGAT	15054	GCCTTTAGTTTGGGCCAGAAGAACT	26038	GGGCTTGGGTGTGGGAGAAAAGTA	37022
3397	CAGAGCAGGTTTGATGATCCCGTTT	15055	CGGCCTTGGCTCTGTAGTTT	26039	AGAAGAGCAGAGCAGGTTTGATG	37023
3398	TGGAAGACGCTCTCACT	15056	CCATGATCCCTGTAAACAGCTCAGA	26040	CCTCATCAAGCCCATAGCCTCAT	37024
3399	TGGCTGCCTTCTCCCTTCAT	15057	CACACACTGAGACTGAGGAAAGA	26041	CTGAGGCTTTAACTCTTTGACTCGAATATG	37025
3400	TGTAAGTACCGAGGCTGTGA	15058	GCACCAAGGGCTTCAAGGAA	26042	GAGGATGGAACTGTGAAAACCTA	37026
3401	TGCTTGCAATGCCAGAATACT	15059	TGACACAACTGAGAACAACCAATC	26043	ACTCTTGGCTTGTCTGCATTG	37027
3402	TGGCCAAGTGGTCTGCTTCT	15060	TGTGCTGCCAGCCAAGTT	26044	CTGCTAGAGCTTCTGGCCAAGT	37028
3403	ACCTGCCTAAGGCCCACT	15061	GACCTTCGCTCTATTCCTCTCAA	26045	ACAAAGATGATGTACCTGCCTAA	37029
3404	GCAGCCTTTGGCCTCTTCTA	15062	GTCAATTTGCTCTGGGAGATGGAA	26046	GTTTATGTCAATGAGAGCAGCCTTTG	37030
3405	CGGCAAGCCTTTAGCCCAAT	15063	AACCAAGGAGGCCACCTT	26047	CACCTAGCCGTGCAGGAACAAC	37031
3406	GGCTCTCGTGCCCAATTTCTC	15064	TGCCTCTTGGCCAGTTG	26048	GGGCAGGACTTGCATCAGGAA	37032
3407	GCAGACTCAAGGTCACTATTCTCTT	15065	GGCAGAGGAGGCGAGGGAGTTA	26049	AATATGCAGACTCAAGGTCACT	37033
3408	ATCCGGGACCCAGGTGAAAAAG	15066	GCAGCTCTACAGAGAGGCGACAGA	26050	GGAGATCCCAACCCAGTGAGGAAA	37034
3409	TCACATGCCCATTTGTGGTTAG	15067	TTCCAAAGCCATAACAACGAGTAAC	26051	TGCTCACATCACATGCCCAT	37035
3410	CCTCCAGCCACCAATTTGTTGT	15068	GTCTTCCAGAGCATTATCGTTCA	26052	GCCTCTCTCCAGCCACCA	37036
3411	GGACAGACAGGCGAGGAGAAAA	15069	GTCTCTGTGTGTTCCAGACTTC	26053	GCCAAAGTCCACGGACAGACA	37037
3412	CACACATCCCTTCTCAAGGACAT	15070	GATGTGCTGGGAGTCAGCTT	26054	CTTGACGCCCCCTACACACA	37038
3413	CACAGACAGTGTGGAAGGCATCTA	15071	AGCTGGACAGGCCATCA	26055	GGACTGATTGGCAAGACCTCACA	37039
3414	CGAGCTCGGGATGGGTTT	15072	TGGCCCTTCTTGCCCTTA	26056	CGAGCCACAGTCATTACAGAGCAT	37040
3415	GCTGATGCTTAGTGTTGGACAAC	15073	AGTTGGTCATCTGCTCAATCTGCAT	26057	GGCTCTCAGCTGATGCTTAGT	37041
3416	GCCCTCTGCAAAACCAAGTGA	15074	CCATTCTTGGCCTATGCTGCTCTTAG	26058	TGGATTACATTGCGCTCTGCAA	37042
3417	AGGTTCTCTGTATCAGAATTGCTT	15075	GATAGGGCCCAAGAGGGGTATC	26059	GGCCCAAGGTTCTGTGTATCA	37043
3418	AAGCCCAACCTTTCCCACT	15076	GTGCACAGGTGGGCATTATTAAG	26060	CCAGACTGATGATCCTGGATGAAG	37044
3419	GGTTGTCTGGAGTCAGTATGAGACA	15077	GGGCATGTGAAACATCACTGTT	26061	CAGGTTTCCACAGGAAGGTTGCT	37045
3420	GGGATAGTCATTGTGCCCTGTT	15078	CCAAGCCAAGCTTTCAAGACACA	26062	CCTTTTGCTCACAGGGATAGTCA	37046
3421	CACCAAATGGCTCATCCACAGA	15079	GCTAGGCCACAGGAGTCACAGAT	26063	GGGGAACCAATGACCCACCAA	37047
3422	CAGTAGGAGGGCAAAGTCACAGAA	15080	GCCCCTCGCTCTTGAGATT	26064	GGGGATACAGTAGGAGGGCAAA	37048
3423	GGAGAGGCCAAGAGTCAAAGCTCAAA	15081	CTTTCCACCAAGCACCGTA	26065	CACACCAAGTCAGAGGCAAGA	37049
3424	CCTTCACGTTGCATCGGGTATT	15082	CGGCTCGGAACCGTTTTATTAC	26066	GGGGAACCTCTCTTATTCTCTCA	37050
3425	TCAGAAGGTCTCTGTGCCATGA	15083	TGCTGGATGAGGGTGCCTTTTG	26067	CCAGCCTTTCTAGCAAAAGCAAAT	37051
3426	ACCAGCCAGTCCAGGTTTTTC	15084	CAAGCGTCTGGGATAAGTGAACAA	26068	GGAGCAGGTGATAGCTCTTAAACA	37052
3427	CCTGGGTAGTGCCTTTGCCATTA	15085	TGCATCTCCCTACCTGGCATGA	26069	CTGTACTGCACCTGTCAAAAC	37053
3428	AAGGCCCCACCATCCTTCAGT	15086	AGCAGCCAAGGGCTCTGAT	26070	TCCTATCCTCTTGTCTGCTAAAG	37054
3429	GGCTCATCTCAGCCCATGTTT	15087	GGTCCCCAAGCACTAGACA	26071	ATGAGGCTTCACTGGCTCATC	37055
3430	TTACAGACACAGCCTCCAGGAA	15088	AGTGGGGCTGATTCCAACAAG	26072	TGCCCTGCATCCTCTTACACA	37056
3431	GCACTTCCAGGGCATTTGACTTAG	15089	TCAGCAGCAGGCCATGAAC	26073	AACGCCAGAGCACTGCATTTC	37057
3432	CCACCTTGCTACACAGAGTTT	15090	AGTTAGGAGTAGGCCGGTGTCT	26074	GAGCAGAAATCTTCCACCTTGCTAC	37058
3433	CACAGTCTTACTAGGGTTCAACAGGAT	15091	GCCTTGGGCCGAACATT	26075	CCCCTGCCTCAGACTCTTACT	37059
3434	CGCACTTCTCCCTTTTAGGTT	15092	GGGAAGCTGTTCTGCCATTCTGAT	26076	ACATGGAGCGTTGCACTTC	37060
3435	GCCTCATATCCAGAGACCAAGAGA	15093	AAGACAGAAAGTCCGTTGGAAC	26077	CCAAGCCCTCTGCTCATATC	37061
3436	AGGCAAAGGAGCCTCAACA	15094	GCCTTCAGCCCCAGGAATGAATG	26078	GCATTAGCTCGGTTTCTAGGCAAA	37062
3437	GGGTGACAACTGTGCTGGAAT	15095	GGGCTCTGCCCTTTCAGCTA	26079	GTGTTCTGAGTTTGGGTGACAA	37063
3438	GACATAGCCCTCAAGGTACACA	15096	TGCACGAAGACTGCCACAT	26080	CCCCACAGCAACTCTGCACATA	37064
3439	GAACTTTTTGGCTCTGACTGTCT	15097	CCTGGGAACAGTGATACTTGAT	26081	CCCTAGATTTTGTGACCCAGTGAAC	37065
3440	TGCTGGTTACCGGTGTCCAA	15098	AAGGGAACATGGGCGTGATT	26082	ACAGCCGGGTGCTGGTTCA	37066
3441	CCAGCCGGTCTGTACATAGGATCT	15099	AGAATCGGAGACTACTGGTTGA	26083	AGAAGCCAGCCGGTCTGTA	37067
3442	AGCAGGGAGAGAGACTGATTCT	15100	TTATGACACACCTCCGTGTGATT	26084	CCACTGCAGGCAGTTGTAGA	37068

3443	CCCCAAGTGGTCTACTGAAATC	15101	GGCCTGCCTTTCCACTCAAT	26085	TTCAAACCTTCAGCTCCCCAAGT	37069
3444	GTGGTGAAGGGGACCATGGAA	15102	GCAAGCCATCCACCTCACTAA	26086	CCTCTGGGGCCAGAAAGAAC	37070
3445	GCTCATCTCTTCAGCTGGTGTGT	15103	ACCTGACCCCTCATGGGACTTT	26087	GGTGAATCCAGCTCATCTCTTCA	37071
3446	GGCAAGGAATCTGAAAACAGGACTA	15104	ACGTTGTGCCCTACACTGACATT	26088	GGAAGAGCTTAGGGCCAAAGAAC	37072
3447	AGGTCGTCGGCTTTGACTGT	15105	CCACACACGCTGTGCAGAAAG	26089	CAAGTCCCTTCCACCTGGAGTA	37073
3448	GCCTGCCGTGGGTCAATTGT	15106	GGAGATTGCGGTGTCTGATGCCTAA	26090	AGGTTACGCACATGAAGAGCAT	37074
3449	TGGGGTTTCCGGGATGGTCAAAC	15107	ACCTCAGGTGTCCCGTGT	26091	AGGGATTCCACACTGGGGTTT	37075
3450	CAGGGTTTGCTCTTGCTTCA	15108	GGCCCCAGGTCTCTCAGCTT	26092	GCAGCCCCAAGTCTCAGGGTTT	37076
3451	TGGATGTGCAGATAAGTCCATGTT	15109	TGAGTAAGTGGGTCTTTCCTTAGGTT	26093	TGACATCAATGTGGATGTGCGATA	37077
3452	CGGTCCAAATGACCTTGAATTTGT	15110	CAGCAGCTCCCACTGACTTC	26094	GCACAAGGCTAGCGTCCAAATG	37078
3453	GCCAATGTGGCAGCATACCATCT	15111	CCCCTGCATGACCTCTCCATT	26095	TGCTGTAAACTTCAGGCCAATGT	37079
3454	GGTGCAAACCTGCGGCAAAATC	15112	CACGTCCCCACCTTCTTGATG	26096	ACAGGCCTGGGTGCAAACT	37080
3455	GGAAATGGTCCCTGTCTGTCAT	15113	TTTGGGTGCTGGACCCCTTTG	26097	AAGGGTGGGGACGTGTGTTT	37081
3456	ACACAGTCCAGTGGCTCCATGT	15114	CCAGATGGACTGGTGAGGATTTC	26098	TCAGCCCTTGCAACACACA	37082
3457	AGGCCCAAGGGCTGCTAAAC	15115	CCTGTATCAGAGCCTCTCAGTATCT	26099	GATCCAGGCTGGGACTGAAATC	37083
3458	GGATGGAGACTTGCTGGTCTCTCA	15116	CACCACAAAATACACCGCTTGA	26100	GTGATCATCTGGGATGAGAGCTTG	37084
3459	CCCACATCCAGGACCTACCATCT	15117	TGGGCCAAGGGGCAAAACT	26101	GCTCCATATCCTTCCACCTCAGA	37085
3460	GGAGTTTCGCGTGGACTCACAA	15118	AGCAGCCCCAACCTCACT	26102	AGTCTACACTCAAGAGGGGAGTTC	37086
3461	CTGTGGTAGCAATGGGAAGACTGA	15119	GACTTAGAGGCCCTTGGGTGTAAC	26103	CGAAGCATGTCTCTGTGGTAGCAA	37087
3462	CTTGCATTCTGGGCCTCAGTT	15120	CACCACACCTGGCAGACATT	26104	AGGTGGGTGCACTTGCATT	37088
3463	ACACTCAGGCACCCAACAGT	15121	AAAGGGCAGGCAGCTGAGGTA	26105	ACCAGGCTTCCAGACACTCA	37089
3464	GTACTCCCGTGGCCTTCAGAAC	15122	AGTGGCTGGCTGTCATGT	26106	ACTCCGACAGCCAGTGGTACT	37090
3465	ACTGGCCCCAGCAGGCACATC	15123	GGGAAAAAGTCCCAAACCTGTTT	26107	TCTGTCACTGGGAACCTTGACT	37091
3466	GTGCGCTTTGCAGGGATTG	15124	CAGGTGTGGCTGTGTGAGT	26108	GCAGCTGAGAGTGCCTTTG	37092
3467	TGAGCTGGTGCCAGAGGTTTG	15125	GACAACCTCCCTGTGGAGTAAC	26109	GCAGCTGAGGGTGATGTGTGA	37093
3468	TGGGGCCCCACAGCCTTGAA	15126	CCTGGGTGGTCTGGAGAGGAA	26110	CATGAAGGTGCTCTGTGTGT	37094
3469	GGGAAGTGACTGGCCCAATGT	15127	ATGACCCACCTCTGGCACCTA	26111	ACACTCAGGCTCAGGGAAGTGA	37095
3470	TCAAGGGAGGCTGGGAGACAAA	15128	ACACACCCAGGTCACCTCAGA	26112	CCCCAACAGGGCTGACTGT	37096
3471	TACCTGCACAGCTCCGGACAA	15129	TCCCACATAGAGCGGGCATCA	26113	TGGCCCTGGGTACCACCATTT	37097
3472	GCAGGGACTGTGGGAAGTTTG	15130	CTGCCTGACAGCCATTCTCTCT	26114	TAAGGCCACAGCGGAAAGT	37098
3473	GTCAGGTGAAAGGCGGGATT	15131	AGCTTGCCTGGGGCTTTG	26115	GAGATGGGGTCCCATAGCTTGA	37099
3474	CCACACAGACCCTGAAGACACA	15132	TGTGGGCATTGTGGGCACCTT	26116	TCCACAGGGCCCCACACAGA	37100
3475	GGGTGCTCTTTCTGGACTGAGTTT	15133	CAGGGTGTGGGGCATTGTGA	26117	ATGCAGGCTGGGTGCTCTTT	37101
3476	GCTGGATGGAGAGAGATGAGAGTAA	15134	CGGGGAGTGTGGGATGGAA	26118	AGCCTGCTGGATGGAGAGAGA	37102
3477	AACATAATCGCTTGCTAGAACT	15135	AGCACGCAGGAGGCCAAGA	26119	GTCTGGTAATAGGAGGAAGTGTAACAT	37103
3478	CTGGTCACTGGGCACACTTCT	15136	AGCACTAACCCGCCAGTGATG	26120	CCCTTCCAGCCTGGTCACT	37104
3479	CACTGTACAGAGAGTTGGGTCATAC	15137	ATTGATCCCTCTTCCACCAT	26121	GAGAAGACTAAAATACCCTTCCACTGTCA	37105
3480	GGCTTTCCAGGTTCCCAAGACA	15138	CTTCTTGACGGGTCCCTTTTC	26122	CTGTGATCTCCCTGTGGCTTTT	37106
3481	GCTGAGGTGCTTCTTCTCCAT	15139	CCCCTGCCAGGTGTTGAATT	26123	CCTCTGAAAACCTGCTGAGGTGCTT	37107
3482	GAGGGAAGCAAAGAGCCCTTGA	15140	CACTGAGGCTGTCAAGGATGTT	26124	TGGCCAGAGGGAAGCAAAG	37108
3483	AAGCCCTGCCCTTTCAGA	15141	GGGGAAGAGTGAGGAGACTGA	26125	GACAGCCCTTCTGCATAAGAA	37109
3484	GTTCCAGGAGACCATACCTTCTT	15142	AGAGGGGCACCTGTTGGAAGA	26126	CAGGAAAAAGTTCCAGGAGACCAT	37110
3485	GGCCTGCTGAGTAGCTGCAAT	15143	CAACAATGGCAAGGCCTGATG	26127	GTGCGCTTATGTCTCTTCAAAC	37111
3486	TGGCTCACACTGGACCTGAT	15144	GGGGTGGGAATGCACACAAGGTT	26128	GTCACTATCTCTGTGGCTCACACT	37112
3487	CAGGCTGCAAGTTGGCTTCA	15145	CTGGATCTAGAAGGCAGAGATACATGA	26129	CTTGGCTCCAGGCTGCAA	37113
3488	TCGAGTTGGGAGGGTGAGTT	15146	CTCAGCTGCTCTGTGGTCTAA	26130	CCACAGGTGTTTCCAAGTAGGATCTCA	37114
3489	CTGCAAGCTCACCGCATTTTC	15147	GCACACAAGGCCCAAGA	26131	TCTCTGCCTGTGCTCTGCAA	37115
3490	ATGGCCACACCTGGCATT	15148	AGGACAGCTCCAGCCAATA	26132	CCCATTGGCCAGAATTATGTCTCA	37116
3491	GTGAGGAAGCAGGCACTCACT	15149	GCAGCACCTGAGAGAAAGACACT	26133	ACAGGGGTGGAAAGTGAGGAAAG	37117
3492	GCTTAGTGGCCTCATTGCTGTAT	15150	CAACCAGGACCACAGACCTTCA	26134	TCACATTGGCCAGTGCTTAGT	37118
3493	GTCTGTGATCCCTCGCTTTTCA	15151	CGAATTGGCTGCAGCATGGTT	26135	TGTGCTGCCTCAGTCTGTGA	37119
3494	CCACCTCGAAAGAGGGTACAGA	15152	TCACTGTGCCACCTGCATA	26136	TGCACTTGAGCCACCTCGAA	37120
3495	AGAGCAAAGGCTCTGGCATT	15153	ACTGGGACTGGAGCCAGATT	26137	GGGGCAGCTGGGATGAAATAGA	37121
3496	GATTGGAGGGACTGAGACCAGAGA	15154	TGAAAGAACCTCCCAACAGGTTT	26138	GTGTAATGAATGGATTGGAGGGACTGA	37122
3497	TGGATGGGACACGACCTTGA	15155	CAACCCACCTCTCCCATCT	26139	GGCACCTTCCATCTACGGTTGGAT	37123
3498	AGTCTGACATTAGACAGGGGATACA	15156	TGTTAGGCTGGCTCTGTCT	26140	CCTTCAGCTTACCTTGCACTCT	37124
3499	CCAGGGACCAAGTAGGAAGCAAT	15157	GCCAGAATACTACCCAGACTGA	26141	GCTCTCTTCTATTACCAGGGACCAGTA	37125
3500	GAAAGCAACACGTTGTGTTCA	15158	CCTAGTATGTGTTGGCACTGACACT	26142	CCCCATGGCTGTAAGCATCA	37126
3501	CAAATGGCTCTGCCAGCTCTA	15159	GGCTAAGCCAGATGCTGTTAAGTAG	26143	CACCTACCCTCTTCCCATGCAA	37127
3502	CACGTGACATAGCGCTTTAACT	15160	AGTGCCACTGTGTCAGGTA	26144	CACAACCTCACGTGACATAG	37128
3503	GGCAATGTGGCCATCAGGTTTG	15161	ACCAGGCCAAGGACTCATCA	26145	TTGGCAGGAAACTTCTAGGCAAT	37129
3504	GTTAGAAGGGGAAGGGGTCCAA	15162	CCACCTACATTGCTAATTTGAGGAT	26146	GAGACTAAGGAGGAAGACAGTTAGAAG	37130
3505	CACATGGAGGCATAGTTACCAGGAA	15163	TGCAGCCAGCACTGCAAA	26147	CACCTCATTACATGAGGAGCATAGT	37131
3506	CGCCCTAGCTTACAGAGCTT	15164	CGGAGCATGTTTAGGTGATGTGCTT	26148	TCTTAGGTACCGCCCTAGCTT	37132
3507	TGGACTGTCCAGACCTTGAAT	15165	CATCTTGGCCTTGTCTCTGA	26149	CCCACATACTCCCAATGGACTGT	37133

3508	CAAGTCTGTGAACTACTGGTTCGTT	15166	CCCCTAGGGCTGGAGAGACA	26150	TCCCAGGGGCTTCAAGTCTGT	37134
3509	CAATAGCACCGATAAGGCAACCTA	15167	GCCTCTGGGTGGAAGCAAT	26151	GTGACTGGTTCATAGCACCGATA	37135
3510	CCCAATTTGGTCTCTCCAACAGT	15168	AAGGCCGGTGTCTGGCTACT	26152	CAGATCCAGGGAGCATCCCAAT	37136
3511	CCTCGTCTCTCTGTGACAGGTA	15169	GCTCCCTGCCCTCTCTAGT	26153	GGAATTGGCTCCCTCGTCTCT	37137
3512	AGAGACTGAGGCAGGGCCATAA	15170	CCACCCAGCTCTCGGTGAATG	26154	CAGTAGCCCATGGGGAAACAAG	37138
3513	GGTCCGGATAGTAATAGAGATGAGTAACA	15171	TGAGCTCCTTGAGGGCAAAG	26155	TGCAGGTCCGGATAGTAATAGAGA	37139
3514	GCACAACCTGTTTGCACTATCCTT	15172	GAGGCAACAGCGACTGGAAT	26156	GAGCAGAATGCAACGCACAACCT	37140
3515	GCTTACTAAAGAGCCCTTGGGAAT	15173	TGCCTGGCTACCGCTGAT	26157	CCTGCCAGCATTACCCAAA	37141
3516	TGAGGCCAGCACCTCTCGTAAT	15174	ACCGAGCTGCTTTTCTTCCAA	26158	AGCAGCCAGCAGCCACTGA	37142
3517	GGGTGATCCGGGAGTGCTAATAAC	15175	AACCCGGAGGGGAGGAGAA	26159	AACAGGCCAGTGAGGGTGAT	37143
3518	GGGTGAGGGACAAAGGACAGAAGA	15176	TCCCCTTAGGCTCTGCGTTT	26160	TGGTGCAAGGGTGAGGGACAA	37144
3519	GTCCCTAAAGCTTTCCGCCAACA	15177	AGAAAGGAGAGGCCCTGAA	26161	CTCCAATCCCTCTAGTCCCTAA	37145
3520	GGGGTGGGGAGAGGCAAGTA	15178	GGTGAGGTGTGAGAGGGACAGA	26162	GTGGTAACTTGACATAAGCCACTTG	37146
3521	GCAGAGCCCAGTAATCATTGCTCTA	15179	GGCCTCTTGCCCAAGCAAT	26163	TGCCTTGACAGAGCCCAGAAT	37147
3522	CAGGTGACGTTTTAGTTTGGAGACA	15180	GGCCAGTGCTGCTTTACTGA	26164	GCAGAGCCAGGTGACGTTTTCA	37148
3523	CCATGCCACCTCTAAGAGACA	15181	CCATCTGCTGCTGCACAGAA	26165	GCAGTTGAGGTCAAGGACACCAT	37149
3524	GTACACAGGGCACCAGGTCAT	15182	CAGGGCGCCCTTCTCTATG	26166	GGAGCCGAAGCAACTGGTACA	37150
3525	GTGTGCAAAAGGAGGGTGAAAGTGA	15183	CCCTCAGCTCTGGCATCTTG	26167	GTGTGGAGGGAGAAAGTGCAAA	37151
3526	GCTGATCTCAGTGGCTCAAACT	15184	TCACAGTGGCGAGGCTTGAA	26168	ACCAGCCTTAGCCAGATAGGAA	37152
3527	GGTGGGCAAGTAATTTACAGGGGAAA	15185	CCCAGGGGCCAGGATTAACAT	26169	TGACACTTGGTGGGCAAGTAATTT	37153
3528	CAGAGCTCAGTGTAGACATGGAT	15186	TGGGCAGCAGAGCACTCAAA	26170	GAATGAAGCAGAGCTCAGTGCTA	37154
3529	TTGGGACATGGGACAGCTCCTA	15187	GGACAGCTCCAGGGAACAAGAAA	26171	ATCAGCTCTCCCCACTGTTG	37155
3530	CTGCACAGTTCAAGGCAAGTCT	15188	TTCTCCGGGCAGCAATTACAT	26172	TGCAATTTTCACTGCAACAGTTC	37156
3531	CCCCATAGATCCAAAGCATAGTGTA	15189	TGGGCTATGGCCTTCAGTTTG	26173	GGGTCTGCCCCATAGATCCAAAG	37157
3532	GGTTGGGTTGAGAAGTGCTCAGA	15190	TGCCCAGTTCCACGACACT	26174	CTGCTTTAAGAGTTGGGTTGAGA	37158
3533	CCCCGAAGGATCTCGTTAAACA	15191	GCTGGACCCAGACCCTCTGA	26175	CTCTCACTGTAAATGCCTGTGAATC	37159
3534	CAAAGTGGCATTCTGCTCTA	15192	CGAAGGTGTCTGGGCTGCAA	26176	CTTCATTACCTCCCACTGGCATT	37160
3535	GGCGATCATCTTTAACTACTCCTTCT	15193	TGACGATGAGTGGTGATAGTT	26177	GACAGGCACCTTGCCGATCAT	37161
3536	CAGAATGGGTGGGGCAAGACA	15194	CAAGCACTCTCACTCGGAT	26178	GGACTTCCCCATACCAGGATCT	37162
3537	AGGGAGCCTCAAGTGATCA	15195	TGGGCCAAAGGCCCAAGA	26179	CCAATGATGGCGCTCAGCTTTTT	37163
3538	AAGCTCTTTCACTTCAGGATCTTT	15196	AACATTTCAAGCAGAGGGAACA	26180	CAGGCCAAGCTCTTCCACTTC	37164
3539	TCCCAGAAAGTGTAACAGGTA	15197	CGAGCTGGGAGGCTACAGA	26181	GGGTCTGTAAGATTTTCCCAGAAAT	37165
3540	AGCTAGCAGGGCTGATGCAA	15198	CGCGAGGAGTACAAATAGGGGAGTT	26182	CTGAGCTAGGATTCAAGCGAGCTA	37166
3541	GTCTCACCTTTTCCACCTTGAATG	15199	GGCAAATGGAAGGGGTACA	26183	ACCTGGACTGAGTCTCACCTT	37167
3542	CAGACCACAGAGCCCCAAGT	15200	CCAAGGTGTAGCTAATTTTCTGTAG	26184	AAGACCAACCCAGACCACAGA	37168
3543	TGCAGTAGTTGAGGTGAATGGTTT	15201	TGACATCTCTGAGTTGCTGCTA	26185	GTGGCAGGTTGAATGCAGTAGTTG	37169
3544	GAGGAAAGCAGCCAGACATACA	15202	ACGGAGGTGGGAGCAGGTT	26186	CACAGCTGCTGCTTTGAGGAA	37170
3545	GTGGAAGATGGAGTGGCCTTGT	15203	CACATCCAACGAGCTGCAGTAGA	26187	GGGGTGTGTAGAACCTGTGGAA	37171
3546	GAACCAATCTGTCTACCTTGTC	15204	TCACTCCGCCACTAGGAGTTG	26188	GGCCTCTAAGAACCAATCTGTCT	37172
3547	ACAAGGCGCCCAAGTGATCT	15205	CCGTGGGAAGGGATTGTCATC	26189	CCATCAGAGAGTGGAGGTCAAA	37173
3548	CGTTCAAGTTGCCATCTGCTGTTT	15206	CCTGGCAATGGCAAGGAAGA	26190	ACCCAGGAACCGTTCAAGTTG	37174
3549	CACCGAGCCATCCCTGAGTTC	15207	GCATCCACAGAAATCCGTTCACT	26191	GAGGATAATGCTCATCCCTATTTC	37175
3550	GGGTGCCACTCAGGGTTATTC	15208	ACAGAGCAGGAGCTGGAGCAT	26192	GGTAGAAGGGTGCCCACTCA	37176
3551	ATGTGGCCAGAACCCACAA	15209	CCAGCTCAGCCATTCACGCATA	26193	CTGTGGAGGCTTTGGAGCAA	37177
3552	CGATCCCACTTTGAGGTGAACCTGA	15210	CCTTCCCTCTCCCCTTCTCA	26194	CCTGGCCGATCCCACTTTGA	37178
3553	CCTGGTTGTCTGTCCCAAGTCA	15211	CTGCACAGACCTCCCATACCTT	26195	TGGGCTATCTCTGGTTGTCTCT	37179
3554	CCCTTGAGGGATCCAGATG	15212	GTGCCACCACTCATCTAAAC	26196	GAAGTGGCAAGGACAGTTAGAAT	37180
3555	GGCTACCTCAACCATCATCTTG	15213	GGTATCAGCTAGGAGGCTGTGA	26197	GTGACAGCTTTGGCTACCTCCAA	37181
3556	ACATAGGTGTAGCCAGGAAGT	15214	GGCACTGGGACTCGTCAAAAC	26198	GACCTAGTGCCCTCAGTGAACA	37182
3557	AAAGAAGTCTGACCATGCCTTGA	15215	GCGGTTCTGCAGCATGACAA	26199	GGGAAGTGGATCAGGTTCCAT	37183
3558	CCCAGGCCAGCTTGTTCTCT	15216	TGGCCCCAGCCGAGTCTAA	26200	GGAACAGCAGATCAGAGAAGGTT	37184
3559	GTGTAAGGGTGAGTCTTTCAGCAA	15217	TCCAGTGAACGACTCTGTGGTA	26201	AGTGCTTGGCCCTACAGTTG	37185
3560	CCAAACAGGCAGCCACAAGA	15218	CAGCTAATGTGGGAGGAATTTCTAGACT	26202	CCTGCATCTTGAGGGTAGCCAAA	37186
3561	CCCTTTCATCTCCCAAGCAATT	15219	AGACTGAGCTGTGGGACCTTCT	26203	TCCTTGTCTGTTCCCTTTCATCT	37187
3562	ATTCTTCCCTCTGGGGTCTA	15220	TGGGATGGGGCCGTAGCAA	26204	GAGCAGGATCTCAGGCTCTTT	37188
3563	GAGCCCAAGTTTCTCACTTGGAAA	15221	ACCCTGAGAGGGTGCTACAATG	26205	GCCTCACTGAGCCCAAGTTCT	37189
3564	GGGCCATCAGTGAGCTTTCTTC	15222	GCCTCTCTGGGCTCTTGACT	26206	AGTGCCAGGGCCATCAGT	37190
3565	GGATCTCCACTGTTGCTAGAAATG	15223	AGAGCACATCCACCTGAAGA	26207	AGCCCTGGATCTCCACTGTTG	37191
3566	GGTGGTCTGTGGGGTTCTGT	15224	AGAGCCTGCTCTGTTCTCTGT	26208	ATTGCTATCACATAGGTGGTTCTGT	37192
3567	GGGGTACTTTCAAGCTCTCTAGT	15225	TAGGGCCCTTGGACCTGCAT	26209	CTCTCAGTTAGTGATTAGGGGTACTTTC	37193
3568	AGCAGCAGCGGAAGCACAT	15226	AATGCGAGCTGGACTGGTT	26210	AGTACCTGGGACTGACTGAA	37194
3569	AGGAACACAGAGGAGGAGCAA	15227	ACCTGGATGTCCTGAACTCAAC	26211	AGGTGCGCAGGCCCTGAGT	37195
3570	GTAACCACTCCCTGGCTACTTCT	15228	AGTGCCAGCTCAGCCCTAAGA	26212	CTACCCAAGGCTTGCTGTAAAC	37196
3571	GGACTGCAGAAAATGTTACAGGTCTT	15229	GTTCGTTTGGCGAAATGCAAAA	26213	GAAGGAATTTAGAGGGATGCAGAA	37197
3572	CTTCTCATTGGAATCTTGGCTCCTT	15230	CAGGGCTGGAGAGACAAACTT	26214	CACAGTCTTCCATCTCTCACTTCTCA	37198

3573	AGGCATCCTGGAAGCAATCAAG	15231	CTGTTAACCGTCTCTCCTCTT	26215	CAGAAAAGCAAGGCATCCTGGAA	37199
3574	GGCCAGTGTGTCAAAAAGAGACTA	15232	CCCTACCCAGTCTCACTGCTCAA	26216	GTCAAAAAGCAAGGCCAGTGTGTCA	37200
3575	GCCTACGAGGTACAGCTCAGGATA	15233	TGCACAGGCGTGTACATAC	26217	GCTTCCCATTGCTACGAGGTACA	37201
3576	CTCTCAAGTTGGAAGGGATGAGA	15234	ACCTCACCTGGAGGGACAAG	26218	CTCGCCAGGAATTTAGCCTCTTC	37202
3577	GCTACAGTGGCAGAGTCGAGTAG	15235	GCTATGCAGGCCAAACAGGCTAT	26219	GTGGCTGCTCTTGGGCTACAGT	37203
3578	GAGGAAAGCAGAGCGAAGAGTGA	15236	GGTACCTAGGGTGCAAGGCAAAG	26220	GCGGAATTTCTCATTCCATTGAGGAAAAG	37204
3579	GGTGGAAGAGGCAGACACCAT	15237	GCAAGGGAAGCGGCTGACT	26221	GACCAAGTTCTTGGGGTGGAAGA	37205
3580	ACGGTCCATCGCTTGCATCT	15238	GGGAGAGGCGTGAAGGAATTGA	26222	CTTTGTGTCTACCACGGTCCAT	37206
3581	AGAAGCATCTGAAGTGCTTGT	15239	AGATGGATCACAGAGGCGTAA	26223	TCATGTGTACCAGAAGCATCTGAAG	37207
3582	CGGGCCAGGGAAAGAAAAGATG	15240	CCCAGGAGTGGGAGGGAATTTT	26224	TTACTCAGCGGGCCAGGGAAA	37208
3583	TCCACAGGGCCTGGTACAT	15241	TCCACCCATTCAACAAGGGTTT	26225	GAGGGTGGCACCATTGTTGT	37209
3584	CCTCACCCAGATCCAGCACCTA	15242	CGTGAGGAACATTGGCCATTGAGA	26226	TGCGACACCTCACCCAGAT	37210
3585	CCACAGTGGTTCAGATAGACTCTACA	15243	GTGATCTGGGGCCTTCACTTC	26227	GGGATCCACAGGTGGTTGAGAT	37211
3586	TGGAGGAATTCACCTGCTTCATT	15244	CTGACCTGTGCGAAGAGATTAATTG	26228	TCCTATAAATCTCTGGGATGGAGGAA	37212
3587	TGGGAAGGCAGAGGCAGTTCT	15245	CCACTTTGTAGGCTGGGATCCTT	26229	GCCACACAAGGTCAGCATT	37213
3588	CACTTCAGGGATCAGCAATTCA	15246	CTGTGTCTGAGAGACCTGGTT	26230	CCACTCACCATTTCAGGGATCA	37214
3589	CCTGGATAGGTAGCAGACAAGTACTAA	15247	GTCCCTGTCTGGCGTGTCTT	26231	GGAGCTCTCATCTGGATAGGTA	37215
3590	AGGGAGGCAGAGGAAGCAAAG	15248	ACCCACCGCTGACTCCAGAAG	26232	CCTCTCTTACCGTTGGCTTGAAC	37216
3591	CCCCCTCCCTGTGCTTACA	15249	AGCGGAGGTCTGCTGTCT	26233	ATCTGGGCAGAGCCAGAAGT	37217
3592	CAAAGCTGTTCCGGTTCTTG	15250	GGAGTAAGATGGACAGCAAGAAGAT	26234	AGGCAGTGTCCAAAGCTGTTT	37218
3593	ATGCTTCTTGCTACCTTGTCTT	15251	GAAACATCGTGGGACTCTGTCA	26235	GGACCTAGACACTGAATGCTCTTG	37219
3594	TGAGGTGGGCCAAGTTGAGA	15252	GGTGGAAAGGACGCTTGAGA	26236	TGGTCTTGTGCTCTCTTC	37220
3595	GACTGGGGATTAGCTATGGTGCTA	15253	CCCTCTAAGCTAACACGGCAAT	26237	GGGTTTTTTCGCGACTGGGGATT	37221
3596	TGGTGGGAGGGATCCGCATA	15254	AGCACCTGGCACTTCTAAATACA	26238	ACTGTGTGATCCCTCCCTTA	37222
3597	GTTCCTCAAAGCCACACTTG	15255	CCTAGGACAGAACCTCTCCATA	26239	CAATTGGACTGTGTGCTCTCAA	37223
3598	CCCTGAGGTTTATTGAGCACTT	15256	TCTGGCCCGGCATACTCAA	26240	CCGCTTTCCCTGAGGTTCAAT	37224
3599	GGTGACAAACCCAGCCCAACA	15257	GGCCAAGCAGTTTAGGGAATGA	26241	TGAAAGAGGTCTGGTGACAAAC	37225
3600	ACGTACATCTAAGCCAGTGTGTAAG	15258	GCCCTCAGCAATACCTCTTGT	26242	CAGTGTTCATTCGAAGCAGGTACATC	37226
3601	GCAGCCACACAAGGAGTCTT	15259	TGACAGTTTGGGGCCAATAAGTT	26243	CCATGCAAATGCTAATCTCTCAA	37227
3602	CCACGCGTCTAAACACTACCTTGT	15260	ATCCCCAGCCCTTCAACCAT	26244	CCAGGACAAACACGCGTCTAAA	37228
3603	GGGTGGAACAGGAATACCAAGAA	15261	TCAGTAGCTGAGCTCAAAATGCTT	26245	GCCAAAAGCTGAGGGTGGA	37229
3604	AGAACTGGAGTTGGGGCACTA	15262	TGGCAGGGTCTCCCTGTAT	26246	GGATCCAACCTTTCCCATGCTAGA	37230
3605	CACAATAAGCACAGCGGGGAAT	15263	CAGAAAGGCAGCAATTTGGACAT	26247	GATCAACCTGCATTGTCTGTCA	37231
3606	ACGCGCTCCAGTACATTT	15264	TTGTGTCCGGCGCTTGTA	26248	TCTTCCCGGGCAGACAAC	37232
3607	CAAAAACAGCTGGCTACCTATTCT	15265	CCAGCCTCCCTGAGCCCTAAT	26249	GGGAATTGTCTCTTGACTCCAAAAC	37233
3608	ACCCCAAGTAGCCACCATTTG	15266	GGCCTTGGGTCCAAGCAAAGA	26250	TGGCTGCCACCCCAAGTA	37234
3609	AGAGCAGGAGTCTCTGATGCAA	15267	GGGTTCTTCTGTCAACGGATTG	26251	TGAAGCACTAGAGCAGGAGTCT	37235
3610	CAGGCGAAAGGCTCACAGGTTA	15268	GGACTCTTGCCTGCTTCCAAAT	26252	GCAAAGGGGACAGGCGAAA	37236
3611	GGGCTTAGCAGCTCTTGGTTTTG	15269	CTCGGGTGATGCTATTGTCT	26253	GCATTTTCTATTGGTTGGTGCTTAG	37237
3612	CCCTTAGCCTTGGCACTGT	15270	TGAAGTGAGGGAGCTGATAGT	26254	CGCCGGGCTACACATCTTAA	37238
3613	GGGAAGATGATGGTGCAAGAA	15271	GCAATTGTGTAGGTGGAGACAGA	26255	GGAGGGTGATTTGGGAAGATG	37239
3614	TCCTCACAGAGCCTATCTGCAT	15272	AAGGGCCACCTCTCCTTGGA	26256	CAAAACCCAGATCTTCTCTACAGA	37240
3615	TGAAGGTCCCTTCCAGCCATT	15273	CACCATGCTCCACAGATCCTT	26257	GGGAAGGTTAGACCAATGATGATGA	37241
3616	TCTCACAGCTGGCCTGGTA	15274	GCCATTCTGTGTGGCTCCA	26258	CGATCCTCAGGCTTGAGTTCTCT	37242
3617	GGAGGCGGTGAAGCATTTCTA	15275	GTCAAGGTAAAAGGCTGAGACTTAATTG	26259	CCCCGTGGTATGATGAGAACTGT	37243
3618	CCTTACAACCTGCATGACACA	15276	GTCCTGTGCAAGAACACGACTT	26260	GGTGACGGGCTTCTGTAATGT	37244
3619	CCATGCACGATTTCTATGGTCAAG	15277	CGTGGTTAGCCTTGATTCTGTTTTT	26261	GCATTTCTATGTCCATGCACGATTTT	37245
3620	GGGTGGCAATAGCCCTTGGAT	15278	GTCACCCACCTACACTGGCAAA	26262	GCCTTTGTCAATGGGTGGCAATAG	37246
3621	CGCAATGATAGCATGGGAAGA	15279	TCTCTCCTTCTCAAGCTGAATG	26263	TGTGGGGCCGCAATGATAG	37247
3622	AAAGTCCCCGAAGGCAGGTA	15280	CCCTGGAAGGTCTAGGTTGCTTT	26264	CCGGACAAGGCACTGATGAAGA	37248
3623	GGTCTTGTGGTACTATCACCAT	15281	CCATGCAGTTCGGCCATGAT	26265	GTATGCTCCAGTCGAGGTCTTG	37249
3624	CCGCACTGAAGTATGAGGCTGAA	15282	TTGAAAGCATGGACCTCGTAAGT	26266	CCCTGGACCGCACTTGAAGTAT	37250
3625	ACAGGGCATTGCTTCAGCTTAG	15283	GGTCTCCAAAAGTGGTCACTCA	26267	ATTTCCCTAGGATACAGGGCATTG	37251
3626	TGTTCCAGCCCTTTTCACT	15284	GGCCCTATATGGCCATTGAA	26268	CCTGAAATGTGGGCTGACACAGT	37252
3627	GTCAGCTAACTGACGGTGTCT	15285	ACCGCCGCTAGACTAAAAG	26269	AAGGGCTCTCAGGTTCCAGTTG	37253
3628	GAAGAAGGCCTCATCACAGTCA	15286	CCCACTGGATCTGCACCAT	26270	CCCCACAGAGCCATTGTGAAGAAAG	37254
3629	CCCCAGGAAACGGAGAAACA	15287	CTGGGTGCCCCTACATTCTTTG	26271	TGAATAAATCCCTTCCCAGGAAAC	37255
3630	TGGAGTGTGACTGGAAACAATTCA	15288	CACACCACTGTCTGTGTCATC	26272	GGTGGAGAAGTGGAGTGTGACT	37256
3631	GCAGGAGCGGGGAAGAGTTA	15289	GGCAGAAGCCAGAACGTCA	26273	GCTCTAGGCTACAGGTTCCATATC	37257
3632	ACAAGGAAGGGAAGACAGCCTAT	15290	CCAGTGGGAGTTCAGCTGATG	26274	GGGGTGGAAACGTGAGACAAGGAA	37258
3633	CAAGCTGGTAGCAAGCCCTGAT	15291	TGGAGTGGCGCTTGACCTTTGA	26275	GAGCCATAAAGATAGCTCAAGCTGGTA	37259
3634	GTTAGCAAGCAGCCAGGTTCT	15292	AGAAGCCACGCCATGGATAAA	26276	GGCATCTGTCAGAGGGAAGTT	37260
3635	TCCCCATTGGGTTACATGGGTTA	15293	GGGCATACAGAAGCACCAATCA	26277	GCCATGACTCCCCATTGGGTTA	37261
3636	CTTGAAGTGGTCCCATTTGTAGT	15294	CTTGAGGACGCGCAATGCTGTAT	26278	AGGGCCCTGTCTCTTGAAT	37262
3637	ACATGGGCACCTTTACCTCACA	15295	CCTGGGCTAGTACAGAACACATC	26279	ATGTGGGAGCGGTCCAGTTCT	37263

3638	GGCCACAAGCATGTCTGTCTT	15296	GAATCTCGGGGCTCTTCTGTCT	26280	CAGGATCACTACTGGGCCACAA	37264
3639	TGCGGCTAATGTGGCTCAGA	15297	CCCCTGGAAGAAGTTTGGGGCTAT	26281	ATTTGACTTACAGTGC GGCTAATG	37265
3640	TCTGGGTTTCAACTACAGCCAAA	15298	ATCTTCTCGTGGTGTTCCTCTT	26282	CTTCTGGATGTCTGGGTTTCACT	37266
3641	GTGTCTGATGGAACTTGCCCAATC	15299	CAATCAACTAGTTACAGGAGTACAGT	26283	CAGGAGTGGGTGTCTGATGGAA	37267
3642	CACATCCGTGAAGTTAGCTGCTTT	15300	TTCTGGCCTCACAAGCAAAGT	26284	GGAATATAGGGCAGATCCGTGAAG	37268
3643	GTGGTGCTCCAGAGCTTGAAC	15301	CCTGATCGCTGGCTGTCAGAT	26285	CTGGGTTGAGCTTGGGGTTAGA	37269
3644	CACCATGCATAACACAGGGCAATA	15302	TGGGGCCAGCATTTGGTGTT	26286	GATAGCGTGCACCATGCATAAC	37270
3645	CCACACAGGCCCCATTACTTCTA	15303	GTACCTTTATCCCCAGTGGTCTTCA	26287	CACTATTGCCCTCCACTGT	37271
3646	GGTCAAGGCTATTACCCATGCTT	15304	AGCCCTGTGAGCCTCAGATT	26288	CAGCCCTATTGGTCAAGGCTATT	37272
3647	TCTCATGTAAGAGAGGCTGGATCT	15305	GTGTGCCCATATTAGTCTTGA	26289	CCTGCCATCTACCTGAATCATTCTCA	37273
3648	GTGGCCTCCTTTCTGCTTGT	15306	GACTATGCCACCTGCTTGCTGTA	26290	TGGTGACTCAGTGGCCTCCTT	37274
3649	TTAGGAATGGCTGTGTGGTT	15307	CAGGGCATCATGATCAGTTTGAA	26291	CGCGCAACTAAGCTCAATTAGGAA	37275
3650	CGGGTGAACCCGTGTTCTCTT	15308	CAGGACACAGCTTAAAGCCACAGA	26292	TCATGGTGTGTCGGTGAAAC	37276
3651	TCCCACTACCTGCTGTTCTTG	15309	CATGCCAGAACCATTTCTGCTT	26293	GCCTGAGTGCACATCCACCTA	37277
3652	GGTTTGACCCCTCTGCTTGTG	15310	GGCCAGCAACTGGGCTCTA	26294	CCAGAGCCCTCAGCAAGAA	37278
3653	AAAGAGTTGCATCCTCAGGGTTT	15311	TCAGGATATCTGCTCCCTTCCAT	26295	CGCAGCATCAAAGAGTTGCAT	37279
3654	TGGCACGGCAGCTCAGTT	15312	CCATCTGCTGTAGCGAATATGTGAAG	26296	CACACAGGCTTGTGAAATAG	37280
3655	CAAGCTGGCCCTGTGACTGA	15313	CATACCTAAGCAATTTGGCTGCAA	26297	TGTGCACTTCTGGCTCATT	37281
3656	TGGCCCTGAAGAAGAGAAATGAT	15314	CCAGCTCAGAGGACCAGCTA	26298	AGCTGTCTGGCCCTGAAGAAAG	37282
3657	GCAGGACTACAGGGATGATGAATAA	15315	TTGGCTGGGGCGAGGGTAT	26299	ACTGGGGAAGCAGGACTACA	37283
3658	GGCTGACGGCAAGACATGAAG	15316	TCATGGTTCCTTCTGGGAAATG	26300	GCTTGAAGAAGCTCTGGTGATGATG	37284
3659	CTTGATGCTCTGGCATTTGTTCT	15317	CTTCCATGTCCAACAGATCTGACA	26301	CATCCCACTGGTACAGTCAAGTTC	37285
3660	CACGTGCTAGATGTGAAGGCAAGT	15318	CAGCAAGGCCATGTGTCAAC	26302	GGGTAGAACTCCAGCTGCTAGATG	37286
3661	TTAGCCCCGGCTGGCTAGTT	15319	GCAGTGACAGGACCGCATGA	26303	ACAGGGGTGGGCTTGCTTA	37287
3662	AGCCAGCCCCCTTTGTTCTCT	15320	CAGTAGTACCACCTAACCACTTTG	26304	TGCTGGAGGTGCAGCATATA	37288
3663	AAACCTGTACAGAGACTGCAAA	15321	CTCAATGGGGTGATTGGCCTCAT	26305	CTGACCATAGGACAGAAACCTGTGA	37289
3664	GGGAGTGGGACTTGCAACCAA	15322	CTTTGTCCAGCCCCAACCT	26306	GCATGGCATAGTGGGGACATTG	37290
3665	GCTTAACGCCAGGTGAGAAGATG	15323	GTTGACCCAAACCAATCAGATACTTCA	26307	GGACTGGCTCAAAGCAGCTTAAC	37291
3666	TGCTGGTAATCCTGGGAGGTT	15324	GGGTTGGTGTCTATTCTGTCAAG	26308	TCAAGTGAGACTGATGCTGGTAATC	37292
3667	TCCTCTGCGCAAGCTCTTTAG	15325	CACCTCTCTGAGTTGCACCTTCT	26309	AGCTGGCAAGCCTCGTAGA	37293
3668	TCCAGGGAGGGAAGTGTTCA	15326	AGTTCCGCAACCTCCAACA	26310	ATAAGCGGAGGCCCTGACTTC	37294
3669	GACCCAGGGTGCTGGTAA	15327	GCCTCAGCTTCTTAGCTCTGT	26311	GCTGGGACGTACCTAAGTGATGA	37295
3670	ATTCGCCCGCCAGACCAAA	15328	CCGCATCCAGCGACCAAGT	26312	ACCCACCTATACACCGCATTC	37296
3671	CTCCAATTCATTTCCCACTGTTTT	15329	GTGTGGCAGCAGCAGAGTAAGT	26313	TCTGGTCCCGGTAAACATCT	37297
3672	GCCTGCATTTTTCTCTCTCTCTA	15330	TCACTGCCTCTCCCTCACT	26314	AAACAGGCTGTCACCTTTTC	37298
3673	CAGGGTGAGGATGTCCAGCTA	15331	CCACAAAGCGGGCTGGAAAA	26315	ACCTGTAGCCAGGGTGAGGAT	37299
3674	CACTGTGCTTTTCTGATCGCATCT	15332	AAACGGCAGGAGGCTCTGTCA	26316	GGAGGATAACTGCCACTGTGCTT	37300
3675	CCCCCTTGCACCACTATAAGAGGAT	15333	TGAGACTGGGAGGCGACAA	26317	CTTGCCCCCTTGCACTACTA	37301
3676	GTTCTTCCCTGGACCCAAAGT	15334	GTTTCGGTTGAGTAGAGTTACCTGAT	26318	AGCCCCAAACTCCCCAGAAA	37302
3677	GTGCAAGGCTGGCTTCAGTTC	15335	GGCATGGGTGTGAGCTGTTTG	26319	AAGGCAAGGGAAGGTGCAA	37303
3678	GGGCTTTGTCTCAGCTTCTCT	15336	CGTTATCAACCAAGCGGAGTCT	26320	GCCTGACCTTGGGCTTTGTCT	37304
3679	AGACGGCCCCAGAGTTCTGATAG	15337	CCAACACTTGGCACTGCAACTGA	26321	TGGAGCAGCTGCCAGTTAGA	37305
3680	TCCCACTGAAGCTGAAACGTATG	15338	TTCTGCTGCCTGGGAACCTTG	26322	GGGAACAGAGGATCCCACTGAAG	37306
3681	AATCATCTCCCAATTCGGCATT	15339	CAACCTCCTTGGCTTTGACAGA	26323	CCAGTTCAGGGGTAGAATCATCT	37307
3682	CTGAATGGCTGAAGTCAGAAAAC	15340	TGCACACTGATTGTCAACATTCT	26324	AGTAGCCCTGAATGGCCTGAAG	37308
3683	AGGCAAGACCTCACCTGTTG	15341	TTACAGTCCCCTGGTACCATAC	26325	CCAGGAGCTGAAGACACTAAGATG	37309
3684	CCAGCATCACGGGTGTGTGA	15342	AGCCAGGGTCTGTGTCA	26326	GGTGAGACACTGGGGATAGCACAA	37310
3685	GATAGTGGTGCTATTCACTGCCTAT	15343	CTTCTCCATGCTCACTCTGCATT	26327	GGTGCTGTAGATAGTGGTGCTA	37311
3686	GACCACATGCTGCTGCTT	15344	AGGCAATTTAAAGTTGGAGCCAGTA	26328	CCTTGGCTGTGATTACAAGACCACAT	37312
3687	AAGATCCAGGCCCACTCA	15345	GGACCTGAACGGGGACTCTTTTG	26329	GGCAGGGCTTGGCCTTAAGAT	37313
3688	GTCATAAAGCGTGAAACGTGGTAAC	15346	CAGTACCCACAGCGAACTA	26330	AGCTGTCTTAGTCAATAAGCGTGAA	37314
3689	GTTCCCAAGACCACTTCTACCTA	15347	CAAGTAGCTGGACTAGGCTGCAT	26331	TGGAAGGCCCTGTGTTT	37315
3690	ACCTCTAGACACACTGCCTATCT	15348	AAGCAGAGTGGTCATGGTTGA	26332	GCTGAAATGAAGTGACTCTACCTCTA	37316
3691	CCTGCTTCTCAAAAGCAAGCTA	15349	CCTGCCTATGTTACCTTTCCAT	26333	AGCTTTTCCCTGCTTCTCACAA	37317
3692	CGGCTGCTGCTCTGCTTTG	15350	GCACCAGAGAATTAATCAGATCGTTTG	26334	TCCAATCAATAGGTTGCCAGTGT	37318
3693	TGGCCATTCCAGGCAAGTAA	15351	GGACAAGCACTGCCACATAGT	26335	GGAAAGACAACTCTTGGCCATT	37319
3694	TGAAAGGTTGAAGCTGCACAGA	15352	GTGGCGGTCACTGCTTAACT	26336	GTGGGAGTACAGTGAAGGTTGAAG	37320
3695	TCCACCGACTCCGCGCTAT	15353	GGCCTGGCCAAGGGTAGGAT	26337	GGAGACCAGATGGCGGGAATA	37321
3696	CCTTCTGCTCTTTGCTT	15354	GGCCAGTCCAGTCCAAGGGAATA	26338	CCTTACTCTGAGAAGTGCTTCTTTC	37322
3697	ACTACTGTGCCCTTACCCCAAT	15355	TCTTGGGCTATGCAGCAACTT	26339	AGTGTGCGAGCTGACAATTTAC	37323
3698	CTATCCTTCATCGCCACGTT	15356	CACATGCCCACTTACAGGAT	26340	GCAGGCTTCACTAAATTTCACTA	37324
3699	GTGGGTTACCTCTCAAAGCTAAGT	15357	CAGTGTCCAGAGGCAACTTC	26341	TCCAACAGTGGGTTACCTCTCA	37325
3700	TGGCTGGAGTGGCAGCCTTA	15358	GGACAAGAGAAGTATGCCAAAGATG	26342	CCAGGTTCAACACTCTGGATCTGT	37326
3701	CGCCCTGGAAACTCACAGCTT	15359	CCTAGAGATTACGGGCAGTCCAAA	26343	CATTAACATTAGCGCCTGGAAAC	37327
3702	GCATGGCAGGACTGGATTGAT	15360	AGCGCTGTACACATCAGATAG	26344	CGGCTGTACACACATCAGATAG	37328

3703	GATGCCTCCCTCTCTCTAGAT	15361	ATTGGCCATTGCCAGGCACAGA	26345	ACACAAGGTTGGGGCAGGAT	37329
3704	AGAAAGGGCAAGGTGGTTTGT	15362	AGGCCCTCAGCGAACTT	26346	GGTCTGGGAGAATTAGGAGTAGAGA	37330
3705	CTGTGATACCTTGAGGTGCTGAA	15363	TGCTCAACCCCTGATCAAC	26347	GCTGTTTCGACGCCACTGTT	37331
3706	GGTCTGGGACAGGACCAAT	15364	ACCCTGACTACAACTGCCTGA	26348	AAGGAGGGTGCGGGCTCT	37332
3707	CAGCGGCAAAACACCTCTT	15365	GGCCTGGGAAAAGGAGCAAGAT	26349	CAGCGTCAGCGGCAAAA	37333
3708	GGCCTCGAAGGCATCACCTA	15366	GTCTGCTCTATGTGGAGAATGAGA	26350	TGCTTGTCTGGGCTCGAA	37334
3709	GGGAGAAGCTATGAGCTGAGTGT	15367	ACCCAGGATGAGTGCAGAGA	26351	ACCCCTTCTAGGGAGAAGCTATG	37335
3710	TGTTCCACACGCTGCATATC	15368	CCCCTCAAACAGACCACACATA	26352	TCCATTCTTTCCCACTGATTGA	37336
3711	TCTGGCAACTACAGTGATGTGAAA	15369	AGGGAGCCCTTTGGCTTCTACA	26353	CACAGACAGGATCTGGCAACTAC	37337
3712	CAGTGAAACCTTCTAAGCCCTTTG	15370	GGCCAGTTTCTGGTCTTCTT	26354	GTCATTGCCTTACAGTGAAACCTTCT	37338
3713	TCCACCTTCTGTCCGGAAGT	15371	CTTCTGGGGCAGCTAGTGT	26355	GCCCTTACACCACCTTCCACCTT	37339
3714	TAGCCTGGGTGAGGATGAAG	15372	GTTCAGTAGCCATCTTGTCTATG	26356	GGTGATTGGTGGTTGCACTCTA	37340
3715	TGCTGGGCAACCAAGCTCAT	15373	TAGCTTCCCGAGCTGAAGA	26357	GGGATACGTAGGCGGAGCTT	37341
3716	ACGCCTCACCTTACAGCCATA	15374	GGGACGGAAGTGGCCTGAGA	26358	TGGGGTGCTTCTCTCTGGAT	37342
3717	CAGCCTGTTTCAGGGTGACA	15375	CTCCGTGAGGCTGGCCTTTC	26359	GAGAGGAACTGGTGACAATACAGAT	37343
3718	GGTACGGAAGTCGCCTAAATCT	15376	GGAGCACCCAGCTTCACTGTT	26360	GGGTGGATCCCTCAGGATGTAA	37344
3719	CGCCAGTCAAACAGCCGTTAG	15377	AACGAGGAAGGCCGTTGATT	26361	TCCGGCTACGCCAGTCAAAA	37345
3720	TGCTCTCTCCCGCTCTGT	15378	TGATGACGGTGATGGCAGACA	26362	ACCCGTGGCAACCCCTTTC	37346
3721	CTGTAGTCCAGGCTGTGGATGA	15379	TCCGAGGTACTTCATAGAGGAT	26363	TTGCCCTGGTCGCTGTAGT	37347
3722	ATGGGTCCATGGGAGGGGACTT	15380	CCACCTGATGCATTCCTCACTCA	26364	AAGGGGACTTGGCCACAGAT	37348
3723	GCTTCTCGCAAGGTCATCT	15381	TGAGGGATCTTGACAGTAACCTC	26365	CCTGTGACCACCTGCTTCT	37349
3724	CTTCTGAGGGTGTTGAAGCAAA	15382	AGGTGCTAGGCCTCCTCACA	26366	TGTGCCGGCTCTCTCTTCT	37350
3725	CCACTGACCCCAATAAGCCCAAT	15383	GCACAGGCTCTTCAGGGTTT	26367	CCTTCTCACTGACCCCAAT	37351
3726	GAGCGTCTGCAAAACACATCTTG	15384	GCAGGCCAAATTGAGGACTATGGTT	26368	CTCCTGGAGCGTCTGCAAAA	37352
3727	GGTGAAGGTAGTTGGGGTGAAG	15385	CTTCTCTCCCTATTTCGTCTCGTT	26369	TGAACCTTTTGGGTGAAGGTAGT	37353
3728	GGAGAACTGGGGATGCTGCTTT	15386	GGTGGGAGTAATGGCAGTCTGA	26370	GTGCAGAATAGGCAAGGAGAACT	37354
3729	TGGAGACTGGTCAGCACCAT	15387	GCAGAGAGGAACTACCCATCT	26371	GGAGAACTTACCCATGTCCACATT	37355
3730	AGGAATTGAACATTGCTGGGTTTC	15388	TGGGTCCTTGCTAGTTGAGA	26372	GGGCTCCAATCAAGGAATTGAACA	37356
3731	TCAGAGGGAAGGCTCCATGTT	15389	TTCCGCGGACAGTGCAGAT	26373	GACAGGTGGCCTGAGTTTCAGA	37357
3732	TCTCTGAGGACTGGCGTTTAG	15390	CACAGCTCTGCTCCACCATAG	26374	GTCCCTGTCTATTACAGTGTTCTCT	37358
3733	ACTGGCTGTGACTGGTGGA	15391	AAACGAGTCGAGGCCAGTCA	26375	CCTGTGTTGGCCGACTTTGA	37359
3734	CACAGGACTCATACCTGGGAAAC	15392	CGTGAGTCACTGTTTGAGCTGTA	26376	CTGGAACACAGCCCTGCTCACA	37360
3735	TTCCCCACATCAGGAGGTGTT	15393	TGAGGTGCTGGCTGGGATGT	26377	TTTCTCTCCGCTCTCTCTTTTC	37361
3736	CATCAGCTTATGTGAAGCTGGTACT	15394	GCCAGGCTCAGCACATAATCA	26378	CCACCGTCCGCATCAGCTT	37362
3737	GGTGAAGGCCAATCTCTGTTG	15395	GGGGTGGTATCCATCTTCACTGT	26379	GGGAAGAAGGGTGAAGGCCAAT	37363
3738	AGGGCTGCAACTGCCAAGAA	15396	TTAGCCGAGTCTTAGCATCATC	26380	GGGAGGGTGCCATTTCATCCAT	37364
3739	GTGCACCTCAGAGGATTGGCTTA	15397	TGAGGTTCCAGGGCTCTAA	26381	GGAGAGGGGAGGAAGATGGAGTTTTC	37365
3740	GAGGCACTGGGCTTGAGATAC	15398	CCTGTGATTACTGCAGCAGGTGT	26382	CTGGTACGGCATTGGTCTCTGA	37366
3741	GCTACAGGGCTGTGGCATCA	15399	TGTTGGGCCCCCTCAACATCA	26383	GGTAATCGACAGCAACATGCTACA	37367
3742	GCACAGCGTGGGAGGATAAGGTAT	15400	CCCCAACTTAGGCTCGAAGTACCAT	26384	GGCGGCACCGCATTTCTATAG	37368
3743	TAAGGGCAGCCTCTCGTGGTT	15401	GCCCAGCAGCAAAATCCAAGATG	26385	TTTGGGAAGGAAGGCCCTAAG	37369
3744	AGGGGTTTCCGGAAGACTTTG	15402	AGGTCTGTGGAGTCTGATACCAA	26386	CAGGAATTTCCGGAAGGGGTTTC	37370
3745	AGGGAAGTGAAGTCTTCTCTCTA	15403	GCAAGAGTGGCCATAATCACTTG	26387	GCTACAGAAGGGAAGTGAAGTCTT	37371
3746	GAAATTAGGGACCCCAAGAGTCAAC	15404	CCAGCTTGGCCACAGAAAGGTA	26388	CCATTTAAGAGCCAACTCTGGAA	37372
3747	AGGCTCTCTAAAAGGCAAACT	15405	GGAAAGTTTTAAGTAGGAGGCAGTGA	26389	TTCTTTCACCTCATTGCATACAGA	37373
3748	GTAGCCCATAGCCCTCAAGTCT	15406	CTGCAGAGCCGAGTGGAT	26390	TGCTTTACCTCAGCCAGTGA	37374
3749	CTGGGGCTGATTCTGCACACTA	15407	TTGTTCTGCAGCTCACCAGAT	26391	TGCAGACTGGGGCTGATTCT	37375
3750	GGCTGGATGTTGAGAGGAACA	15408	CAACCAGCCACTGTGTGT	26392	TCCAAGACTCTGGCAGACA	37376
3751	GCCTGTCTCCTAGTTCTGGAGTA	15409	TCTGCCTGGGCTCTGCTT	26393	CCCTCAGGCTGTCTATCCTAGT	37377
3752	GGCCAGGTGGCAGCCTTAAAAAT	15410	GGAGCCACAACAGTGATTCCAT	26394	GGGGCTTAAGGAGCCCAATGT	37378
3753	GCCTGCCCAATTGATATTTAAACAAG	15411	CCCCGAAGCACATCTCTGTCTAT	26395	ACCATGCTGCCCATTTGAT	37379
3754	GTGCCTAAGGCCACTCCTTATT	15412	CCTGCAAAGGCAGCTGAGCTAAAG	26396	GGGTAAATGCTACTGCAGTGCCTAAG	37380
3755	TGACTAGCCAATGTCCACAGAAG	15413	TCACATAGGCCACATCCCTTCA	26397	GAGGTTACTGTTTGGCTTGCATTGACT	37381
3756	ATCTCCCGCTCCTCTTCAGAT	15414	AGGAAAGTGGCCTGTGTGA	26398	TTCTGTCTCTCCGCTACA	37382
3757	CACCAAATTTCAAAGGGCCAAAGT	15415	CTAAGGGAAGTCAACCTTCACTTC	26399	GCCTCCATGGTTGCACCAAA	37383
3758	GGCAGCTGGGCTTTTGTTC	15416	TTCCCTGGAACCCCAACTTCAGA	26400	GCCATGATAAGGAATCTCGGGTGAAG	37384
3759	TGGCAGTAGTGCTTCAGGTATG	15417	GGGAAAAGAGGGCTCTGGAACA	26401	ATCTCTCGCATGGCAGTAGT	37385
3760	GGGTGAGGCTGAGGAAAGTGTT	15418	AGGCGGTTTACATCTTCTGT	26402	GGAGTGCAGAGGAAGGACTTTATG	37386
3761	GCTGAGCCCCAAGGGA AAAA	15419	GAAGCCTTGCACTGCTTTT	26403	GAAGTGGGCCACTAGCTTCA	37387
3762	GACCGCAGCTAAAAATGCTTTG	15420	GTCTACAGCTGGCCCAACAA	26404	TTCTCTAGACGCCAGCTAA	37388
3763	CTCCAAGACGCTGAAACCTTCTT	15421	GGTGTGGGGATGCAAGTTTC	26405	CCAGCTCTCCAAGACGCTGAA	37389
3764	TTGGAGGCAAGTGGCACAGA	15422	AGACCCCATTCAGGCACTCT	26406	TCTTGCCTGGTCCCACAGT	37390
3765	GATGCATCAGGGCTACAGTGATATG	15423	TGCCCTCTACTGCTGGACTAA	26407	GGTGGTAGAAAGGCGTGTGGAA	37391
3766	AGAGAGGGAGCCCTGATCTGA	15424	GCTGGAGTGAGTGAGGCAGACT	26408	ATCGGTTTCTGGGCTGTTG	37392
3767	CCCAGACATGGTAGAGGAGATAC	15425	GGAATCCAAACAGGCACAGTGA	26409	TCCACTGTGACCCAGACA	37393

3768	ACTTGTCATGTGCGTCATACT	15426	GGAAGGGAATTTGAGCAAGCTGTTTC	26410	GTGCAACTTTTCTCCATGAACTTGT	37394
3769	TGTGGGGCTTTGGCAGAGAA	15427	TGGAAGGCTGTACCTCGGTTT	26411	GCCTAGTACATGTGGGGCTTT	37395
3770	GCCATGATCTGGTCGGAACCT	15428	TGGGAAGCTGGCCTCACTT	26412	GTCAATGGGATGGAGCCATGATCT	37396
3771	GTGGGAGCTGTCAAGAGGAAGA	15429	ACTTCTGGCACCTCGAAAC	26413	GGTTGTGCCAGCAGCAAACTA	37397
3772	CCCTGAAGGCTCCATCCTGAGA	15430	AGAACAGAGGGCAGGTCACACT	26414	GGTGCCATGTTTTCTCCCTGAA	37398
3773	CATGTTTCAGCCCTGACAGCTTTG	15431	GCATCCTTAACAAGCACCAACAT	26415	GCTCCCTGCTTTAGGCACAT	37399
3774	GGCTTTGGCCCCGGCTTAT	15432	CCCAGGGCTCAGCCGAAAT	26416	CCCATCTGCCTTCACTAAGGGCTTT	37400
3775	GCAGGCTGATGTTTGCATCGTCTT	15433	CCTCAGTGGTGAGGAGACTGTTTG	26417	CAGTGCAGGCTGATGTTTG	37401
3776	ATTCCTCTCTCCGGCACTGAT	15434	GGCATGGTGCGCCTTTTG	26418	GCATGGGTTTTTGAGGCACAGATTTC	37402
3777	CTCCGTACCTGGATGAGGAAGATG	15435	GAATCTGCCCACCTTTCACCATCT	26419	TGCACTGCTCCGTACCTGGAT	37403
3778	GTGCTTTGGCAGATGCTGTAG	15436	GGTGGGCAGTAAAGGGGATT	26420	ACACCAAGGCTTCTTGTGCTA	37404
3779	AGTGGTGAGGTCGTGCTAGA	15437	AGGAGAAAGAGCTGGGCTTCA	26421	TTCCAGCCTCCCTTGTAGT	37405
3780	GTCCCCAGATCCCAGGAAACAA	15438	GCTTCCTTCTGGCCCACTGTT	26422	GGCTCCTGTTTTAGTCCCAAGAT	37406
3781	GACAGCTAGCCTAAAGCCTCCAT	15439	TCTGGCCTGTGGCTCTCTACAA	26423	GGCCAATATGACAGCTAGCCTAA	37407
3782	GAACCAGCAATGGCAGAGACA	15440	ACCGTGGGAAAGTGCAGGAA	26424	GAGAAGGGGATAGGAGACCTGAAC	37408
3783	AGCTGTGTCCACTGGGTCAAT	15441	CACGAAGACGAATGTATGCACAAC	26425	CAGGGTATCAAACTGTAGCTGTGT	37409
3784	CCCCACAATGGCCAAAGCAA	15442	GCAGCTGGCTGGCTTTCA	26426	CCACAAAGTGCTCTTTCCCAACAA	37410
3785	GTCCAGACTATACCCTGCACTCA	15443	ACCCAGCACCTGGAAGGAT	26427	GCATAGCACCCCTGTCAGACTAT	37411
3786	GTTTGGTACACAAGTGTCCAGCTA	15444	ACCACAGGCTGGCTGATTTC	26428	GCCTCATCTGCAGTTTGGTACA	37412
3787	GGATCTGTTGTAGCCCAAGATT	15445	GGCAAAGGGAAGTCTCTTCT	26429	TCAGGCCTGCAAGGATCTGT	37413
3788	TAGGCAGTGGCAGGGTGTTT	15446	CTACATATACTGAGCATCCATCAAC	26430	CATTGAGGCACTGGCTGTGA	37414
3789	TGCTTCTTACCCCTCTGAAC	15447	GCTGCGGAAGCAGAGGAAGT	26431	GGCAGAACTGAAACATGCTTCTTC	37415
3790	CTGTGTTGGCTCTTCCCTTTC	15448	GCAAGTGGTATTTTGGGAGGTGACATA	26432	TGTTGGTTAATGCACTGTGTTTG	37416
3791	CCCCATTCTATGCAGCCTTGGAA	15449	AAGCAGCTGGGGTGCAGTGT	26433	GGTTTTGTGGGCCCCATTCT	37417
3792	GCTGCTTCTACAAATCCAGCTAGAAAC	15450	CCAGCATCTCCCAATTTCCAT	26434	GGTTGTCGCTGCTTCTACAAATC	37418
3793	CTCCATTGGCCTGGTTTGCTT	15451	CACCTCTGTGACTCACTTTTCCATTA	26435	GGACTTGGGAGAAGCAAAGTGTTT	37419
3794	GACACCTGGACCTTGACTTCTA	15452	CCACAGGTTTGGGACAGTGTA	26436	CCTAGCCTAAATAACCATGCAGTTG	37420
3795	GTGGTTGGGAAGCAGGTCAA	15453	CTGGGCCATTGTCTGGCTATT	26437	CCTGGGCCAATAGTTAGAAGTGTT	37421
3796	GCAGTTTCTGCACACACATTC	15454	CCATGCTGGGGTGACTGA	26438	TAGGGGTGCCTGCAGTTTCT	37422
3797	CATGCTTCCAATAAAGCTTTCGTAGTCT	15455	AGGTGCTGTGGCGTGTGTTG	26439	GGCCTTTCCTCATGCTTCCAA	37423
3798	GGACGTTTGCATCTGGGCATAG	15456	TGGAGGCCCAAGGGTGCTCA	26440	CCCCAGGAAATCTACACTTCTCTCA	37424
3799	GGTCTCTCCGAGGCTTGTGAA	15457	ACCCTAGGCCCCAGCATCA	26441	CCTTGTAGGGCAGGGAGTT	37425
3800	AGGGGCAGACTCCACTTGCTT	15458	CCTCTGCAAGGCGTGGA	26442	AGTGCCAGCAGGGGCAGACT	37426
3801	GTATGGGATGTGCAGGATGACA	15459	TGCTTTGAGTTTCTGGGACTAGTTT	26443	CCTACATGTGCGTTCCCATTTG	37427
3802	AGCTTGGGGTATGGGTGCAA	15460	GAGGCTGTAAAGCAGCCACTT	26444	GGTGTGTGGATGGGTAGCTT	37428
3803	TTGCAACTCGGCAGGGAAC	15461	GACATGGGGCCAAAGTATCTT	26445	GCTCAAACCACTTTGCAACT	37429
3804	ACACCAGGTATAAGGTGGCATTG	15462	GATCATCTCTTGACAGGGAGTTG	26446	AGAAGGACTTCACAATGCCATTACA	37430
3805	TGCTGGGTGGGTGCTACACTT	15463	TGCCTGGCCTGGTGTACTTCT	26447	GGTAGCAGAATATGGGTCCCTGTCT	37431
3806	AGCCTGGAGGCTGAAGACT	15464	GGATCGCGGGTTTATCCAGAA	26448	CGAAACCCACCTTCAAGCCTAA	37432
3807	AGCGCGTCAAAGGCTGAAGT	15465	CTGCACCGGCCAAATAGGAT	26449	TCCTTTCCACAGCGCGTCAA	37433
3808	GCTTAATCCTCTGGATGCAGTTCT	15466	ACAGAAGCCAGTTTGGTATATGTAG	26450	GTCTTGTAACCTCTTACCATGCTT	37434
3809	TGGCCGTGTGAGTCTGTAAAC	15467	GTGGATTCTGTTTGTCTCAACTTC	26451	TGCGTCTGGCCGTGTGAGT	37435
3810	GAGTGGGTTGGGAGGTGATAA	15468	TGCCCAGAAGTGCTAGAAAC	26452	AAGGGCCGCTCTTGGGAGTTA	37436
3811	CACCATGCCTTCTCCTCCATT	15469	CCAGCAAGAAGACAGAGTGCA	26453	TAGCTGGGACCAAGGTGCAT	37437
3812	AATCTGTAATCCAGAGGTGAAAAAG	15470	CTGTCTGCTGGGGTAGAGTTG	26454	CCTCTCTTGTGTCAGACCCCAATC	37438
3813	ATGGCTGCTTTCAGGGGCAGTT	15471	TCATCCCTACAGCTGGGACCAT	26455	TCCTGAGGGTAGGCTCTGAA	37439
3814	GTGCACCAAGATAGATGTGAGACT	15472	CAGGCACTCTACACCAGGAGAAAT	26456	AAGTGTGAGGACTGAGGAGTCA	37440
3815	CAGGGTCTTCTTCCCTCATGTAAA	15473	GAGGCAGCTCTGAGCATACAA	26457	CCAGCAAACAATCCAGGGTCTT	37441
3816	TGAAAGGGGAGCCCAAGTCTCT	15474	CCCAAGTGAAGCATAGTGGTTTC	26458	TGCCAGGAACAACCTCAACACT	37442
3817	GAGTGCCTGAAGAGGGCAGTATC	15475	CGCCCCGACTTTGTCTTTGACT	26459	AGCATTGTGAGTGCTGAAGA	37443
3818	GCAGGAGGACAGGCAACTTGA	15476	GTCTGTTGGATGTTGCTGTTTCA	26460	CATAGCTGGGAGATTAAACCACTGT	37444
3819	TGTCACCAAGCAAGCTAGA	15477	GGGCATAATCAGGGAGCCAGAA	26461	TGGTCCAGGGCTGCTGTGT	37445
3820	GTGGTCTAGGTAAGCTGGTGTG	15478	GGAGACCATTTGGCCTGCTTCATAG	26462	ACTTTCTGGGTGTAAGTGGTCTTA	37446
3821	GGATATAGTCTGGTGGGCTTCA	15479	ACACTTTGAACGTCAGGCAAA	26463	CCAAATATCTGATGCCAGGGAAGGATA	37447
3822	GAGGCACTGGTATCCATGTTGAGA	15480	GAGTCTGGGATGTGAACCATCTA	26464	CCACTGGAAGAGGCACTGGTATC	37448
3823	AGGTGACAGGAACCCAGGAA	15481	TTACGAGCTGGTGCTGCTT	26465	GCAAGCCAGTCCATAGGTGACA	37449
3824	ACAGACCGTAAGACAAGGGTTTG	15482	TGAGGCCACCTCCAGATAAA	26466	GTCCAACTGGGTTCCCAATAAACA	37450
3825	CCAGCAACAGCAGTGCCAAA	15483	GCACAGCAGGTTGCTCTCA	26467	GCTTTCCAGAGAAATCCAGCAACA	37451
3826	CCCAGCAACATCTCACCTTT	15484	TGAAGAGGTTTGCTGCACACTA	26468	CCACGACACCCAGCCAACA	37452
3827	GCCTAAGCCTCTTTTCACTACCTCTA	15485	AGCCCTCATCACTGTGGTA	26469	CACGCTCAGCCTAAGCCTCTTT	37453
3828	GGTTACAGATGGTTCTGCACGATA	15486	CTTTCGGGTTGTGCTGCAT	26470	AGGACCTGGTTTACAGATGGTT	37454
3829	TCATGGCCACCACGAGCT	15487	ACCTGGCAGTTCCGTACA	26471	GGCCTCCATTAGTCTACCCAGAT	37455
3830	GGAAAGGTTCTAAGCTTGGTTTACA	15488	GGCTTCAACCCACATACTAAGACA	26472	GCTGATGAAAGAGGGAAGGTCTA	37456
3831	GCCTGGTTGCATTTCCCTATGT	15489	CTGGGGTCTGAAGGCAGAGAGTA	26473	TCAGATCATGCCTGGTTGCAT	37457
3832	TCTGTGCTGCGTGAGATTG	15490	TGGGACGCTCTCCCTCTT	26474	GGCCCATCTGGGATCTCTGT	37458

3833	CTGCTGCATAGCCAGAGATCTTTAC	15491	TCCATGACAGGCAGCACAGT	26475	TGGGCTGGGGCTGCAGACTT	37459
3834	TGCCCAGGTTGCTCCCTAGT	15492	GAGCATAGAGCGTGCAGGGAAA	26476	TCCAGGCTTTGCCCAGGTT	37460
3835	GCCATCCACTGAGGGCAGAAG	15493	ATGCCAGGGTGCCAAAGTCT	26477	ACCTGGGCCATCCACTGA	37461
3836	CCTGCCCATCATCTCTCAGGTCTT	15494	CAGGGCTTGTGGAGAAAGCAT	26478	CCTTGACCCCTGCCCATCAT	37462
3837	CTGCCTGCTGTCTCAGCTTTTC	15495	AGTGTGGCTGTTGCCTCTTTC	26479	GCTATGGCTGCTGTGTCT	37463
3838	TCAGGCTTATCTCTCCAGAA	15496	GGGAAGCATGGTGGAAGTAGT	26480	CCCCTTCTAAAGCTATCTCAGGCTTCA	37464
3839	CAAGTAGCAGATTGGTGTAGGAAGT	15497	TCGGCTCCCTGCCAGCAAA	26481	GAGGTGTCCCAAGTAGCAGATTG	37465
3840	GGAATTCAGGACAGGAAAGTGTCT	15498	GGAAGCATCCGGCTCTGACT	26482	GCCTTTTTGGTAGCCGAATATG	37466
3841	GCTCCTAAGGAAATCTTGGGGATGA	15499	TTGCCAGGGGCACAGCAAAA	26483	GCCAGCCTGCTCCTAAGGAAAT	37467
3842	CCACAGGCTGCAAGACACA	15500	GTGCATGCCAGCCTGATTTTC	26484	GGCCACAGCAGCCAGAAAAA	37468
3843	TGCCAGGGCTAGAGTTTGAAG	15501	AGGCCTGTCTCTGGCATGTT	26485	GACAGGGCATAATTGGAAGCCTTTTA	37469
3844	GCAGGCACACAATAGTAAGGAACAGA	15502	AGCAAGGGGTGGGGTTTGA	26486	CCAGAAGGGCTAAGAGACTTGTC	37470
3845	CCCAGAGGTACTGGGTCAAGAT	15503	TGTAGAGGGCCTGACTGTTCT	26487	TGCCCTGCCCCAGAGGTACT	37471
3846	CGAATGGGTACTCCCCAGTGA	15504	CACTTTGTCTCTTGGTGAGAGTG	26488	AGCCAGACGAATGGGTACT	37472
3847	TCAGCTTGTCTCTTGAGAAA	15505	ACCGTGCCTGGCTGATTGTT	26489	CGTGAATAGGACTCTCAGCTTGT	37473
3848	GGGCTTGAATGTGCTGAATAGTTG	15506	GGCCATGGCAGAAATGCAAGA	26490	GCAAGCAAGGGCTGAATGTGCTT	37474
3849	TTCTCTTGCGCCAGGGTGTAT	15507	CAGGCCCTAGTCTCTGGATGA	26491	GGTCTTCTCTTCAAGGAAATGAGTT	37475
3850	CCTCAGGCCCAGGGGTGATAA	15508	GACCAAGGGCAGGTTACAGAGA	26492	CTGATAAGCACACTATCCCTTCACT	37476
3851	GCAGGTCTGTGGGTGACGTA	15509	TCCCAGAATAAGGATATGTGGATCA	26493	CTGCTCATGTTGCAGGTCTGT	37477
3852	CTCTGAATTAAGCCAGCAGAAGCTA	15510	TGTGCATGGCCCTCTATCT	26494	GTGCTGAGGTGAGAACTCTGAATTA	37478
3853	ACAGAGAGCCGGCACCTATTCT	15511	AACAGGGCAGGCAGGCAGTT	26495	AGTGGCAGCCTCACAGAGA	37479
3854	TGGGAGCATCCCTCTCTTAAC	15512	GAGGCCCATTTCCACACAGTGA	26496	GACCTCTGACTGGGAGCAT	37480
3855	AACGCAGAGAAAAAGGGATGT	15513	GCCCCATTGTCCACGTCATA	26497	GGCTAGCAGCTGTGGAGAACAT	37481
3856	GAGGCAGTGATGACTCATGTTTAAGA	15514	CACCATGCCAGCCAGAACT	26498	GGTAGGGAAGAGGCAGTGATGA	37482
3857	GCCCCAGCCTACTCCTCTGA	15515	GGCAGAGAGGGTCTGTGTTGT	26499	GGAACGTGTCTGCATGTGTTACT	37483
3858	GAGCTGTGTAGGAGGGATGAA	15516	GCCCAAGAGAGACACGCTGAT	26500	TGCAGGAGACAGCAGGACAT	37484
3859	TGCCAAGGCTCTGACTGCAA	15517	ACCACCACCTCTCTCCACAAA	26501	GGGCTTGCTGATTCTGTGCTT	37485
3860	GCAGGTGCTACACTAGATGCAAA	15518	GAATTCATAGGTAGGGTGGTGGTT	26502	AGGCTGCAGGTGCTACACTA	37486
3861	GCTACTCAGGGCAAAGCTACT	15519	GGCTGATGGTACTCGTTCTCAA	26503	GGATTAACCTGTTGGGACAGCTACT	37487
3862	TGCCACTTGACACCCATCAAAG	15520	TCCGCTGTCTAACTGCTGAAG	26504	CTACTGAACCACTGCCACTTGA	37488
3863	GGCCCCAGGTGAGGACATAGT	15521	GCCAGTGCCAGTCTGAAAGCAT	26505	GCCTAGTGGCATCTGTGGCATT	37489
3864	GCCATATACCTAGCACCACTT	15522	CTAGGTGGGAACCACTGAAGTGA	26506	CCTCTTCCCACTTTGCAGCTATT	37490
3865	GTGATACCTCAAGACTGAGACCACAAA	15523	TTCAGGGAAGGCCCTACTGT	26507	GAGTCCAAGAAGCCCTCAAAT	37491
3866	ACTGGAACCCAGGGCTTTTAAC	15524	GCATGGGCTGCAGTGGA	26508	CCCACTACAGAGCATTTACTGGAA	37492
3867	GCAGAGACATGTGGGCAAGA	15525	CCTCAGCAGGGGAAAGAGCAA	26509	GGCAGCAGAAATATTACGAGAGACA	37493
3868	GACTCCACTGGGTGTTAACTTTTG	15526	CGCACCAAGTGGCAAACTCT	26510	CGTGTCTCCATTTGACACAGACT	37494
3869	TTGCCCACTTCTCTCCAGAA	15527	GCAGTACTGCGGTGAGCAT	26511	CCAGCTCTCATCTCCTCTTTG	37495
3870	AAGGCTGGATGCAGGGCTAGA	15528	CCCAAATTTCTCGGCTTACGAT	26512	CCACCTGTTTCAAGGCTGGAT	37496
3871	CAGCCCCACCAGAGGGTAAG	15529	AGGGTTGGAAGGGGAGACTGA	26513	GTGACTATAGAGCCATGGAGTGAGT	37497
3872	TGCTCCACATGGGACAAA	15530	GCTTCAGCTGGGATGGTGGTTA	26514	TGCTGACAAGGGCCACCTTA	37498
3873	AGTGGCTCTGGGCTGTGTAA	15531	CCCAGGGTGAGAACCAAGTT	26515	TGAGGGCTTTCTGCCACAT	37499
3874	GGTGGGCTTGTGGAGAAATGT	15532	CCTTGCTGTGTTCCCATCTTTG	26516	ATGATCAGGGTGGGCTCTGT	37500
3875	CTGCATCTTGCTTCCAGAA	15533	TTCTGGGCCCTTTCTTGCTATC	26517	TGCTGAGTGCCTGCATCTT	37501
3876	ATTAAGACAGGGAGGCACATGAAT	15534	GGACAAAACCTGCACCCATTG	26518	CTTGGTATGCGGCCCTGAT	37502
3877	CGTAAGGGGAGGAGGTAAGCAACA	15535	GCCAGTACATGTCAGGCATTA	26519	CCCCAGCTCTGTCCCCTAA	37503
3878	CACGACCATCCAGCCTGATTTTG	15536	AGTTATGCTGTCAGTACGAGAA	26520	CCGTGTGCTATCTCAACACTGACCAT	37504
3879	TGGGCCATGCATAAAAGCTAACA	15537	GCCAGTGTGGAACATGGAA	26521	TCTGTGATATTGGCCATGCATAA	37505
3880	GAATGGGTGGCTCCTCTCTGAAG	15538	CTGAGAGATGCAGAGACGATGAGATG	26522	CTCTCAACAGAGAGGATGACCTAGA	37506
3881	TCACTCTCATAGCACTGTGTTTCA	15539	CCCAGACAGCCCTGCACAA	26523	GCCCGCATCTTTAGCTGTGCTT	37507
3882	CAAAGCTGCAAGACGCCCTAA	15540	TGGGGCAGTTTCCAGTAGT	26524	AGTGCCAAATCTTTTCCCAAA	37508
3883	GGCCATGTGGAATGGGACCTT	15541	TTGGAAGCGAGCAGCCATAC	26525	TCAATTCTCGCCATGTGGA	37509
3884	CAGTGTTCGGGTAGGGGTAGA	15542	CCACCTAGTCTGGGCTCTTTAG	26526	GCTTGCTATGGTAATGGCTACAGT	37510
3885	CGCTTGGAAGAGAGACAGGAAATC	15543	GCCAGGAAGCAATCTCCGTAATC	26527	TGGCCGCTTGGAAGAGAGA	37511
3886	CTTGTCAGCAAGCTGGGTCTCT	15544	GCGCATTATCACCACTCAGACTTC	26528	GCGAGTCTACACCTTGTCA	37512
3887	GCCTAAGAAATCGCTACAAGACTAGA	15545	GCCGTCCAGGCAGTAGTTC	26529	GGGAGGGCCAAAGCCTAAGAAA	37513
3888	GCAGCCTCGAAACTAACCCACAA	15546	GCTGCTAGACTGCGGGTTTC	26530	CCATCTGCTTACTTCCAGTCTGT	37514
3889	GGAAGGAGTCTCTCTCAGAGCTGTA	15547	TGCATCGCCCTCCACCAA	26531	TCCCAAGTGAAGGAGTCTCT	37515
3890	GGCTGTTGCCATGAACCCATAG	15548	ACTCTGAGTGGAGTGGGCTTT	26532	GCAATAAAGTTAGTCCAGGCTGTTG	37516
3891	AACCAACCTGTTTACAGTCTCACT	15549	CTCCCCACCACCTGAGAATAA	26533	GGTCCAGAAGGTTAACCAACCTGTTTAC	37517
3892	CCCTCTGGTGCAGGAGAGTAAA	15550	GTAGACTGCTGGGTTTAGAGACT	26534	CAGGCTGAGCTCTCTATCTAATTTT	37518
3893	AGCAGAGACAGCCCATCAT	15551	GGCTACCAAGTGTATACAGGAT	26535	GAGGCTAGTCAAGTAAAGCAGAGA	37519
3894	CCAAGGACTCCTGCAATCCTAGTCA	15552	AGGGCTGTGAGGGTTGA	26536	TCTCACCAAGGACTCCTGCAA	37520
3895	CACTAAGACTTGCTTCCCATCAT	15553	GGTGAAGTCAAGTGGAGCCAAA	26537	GCCTCAAGCTTCTGTAAACACT	37521
3896	CCTTCTCACAAGTGCTTCTGAAT	15554	CGGCCAAAGAGGTTTCTGTTCT	26538	GTGTTCCACCAGCTAGGCACAT	37522
3897	TCCTCAACCTTTGCACACAT	15555	GTGGCCCTTGCTGACCATTA	26539	GCTCAACCAGCTCACTCTCAAC	37523

3898	GTGGCAGTCTTAGCTCCAGTT	15556	CTTCCACCAAGAGATACAACAGTGA	26540	TGGCCGTGTGGCAGTCTTA	37524
3899	CAGCAAAGCAGCAGGTGACAGA	15557	ATTCTGGGCTGGGTCCTCAAA	26541	GGAATCAGGATGCCATGGGATGAA	37525
3900	AGTGGCTGTCAAGCCCACT	15558	CTTTTCCCCTTCCCACATCTGATTC	26542	AACTGACCAAAGTGGCTGTCA	37526
3901	GCCTAACACAAAACAGGTCCATTT	15559	CACATGGTAGCAGGGATTGCAAGA	26543	TCCCCAACCCACCATTCAGTTG	37527
3902	GGCTCTAAGACCATGTACCTCATTC	15560	GGGGTGTCCACCTCGCTTATG	26544	GCTAAGTTCATCACAAAGTCTTGGCTCTA	37528
3903	TGGGAACCGACACATGGAATTG	15561	CTGGCAGCAAGATCCACCTT	26545	CGATTATGGCTCTACCGGAGATAATTG	37529
3904	TTCTGTCTGTGTGCGTCTT	15562	CCATCCCACCTTGACCCCAATCA	26546	CTTGCCTGACATTTAGCCTTCTGT	37530
3905	CCACGGGTGAGTCATCTCATATC	15563	ACGTGCCAAGCACCCAAACA	26547	CGGTGTGAGCTATTTAAGAGCAGAT	37531
3906	CCAGCCATTGTGTGAATCCTTT	15564	CAGAACCGGAGGCAACAGT	26548	CCTTAGCTTCCAGCCATTGTGT	37532
3907	GGGTGGTACTGTGCGTCCAA	15565	AGGCACAACCTACCTACTCAGAAAG	26549	GGACAAGTGAAATAATCAAGGGGTGGTACT	37533
3908	GGGGCTCATTTAAATACTCCCTCTGT	15566	CCAGAGCAAACTCAGGTGACAAC	26550	CCCTCTGGCTAGGGGCTCATTTA	37534
3909	TGCTATTTGGGTGTGAGTCCTTT	15567	GGGATTACAGGCTACTTTCTAGTCTT	26551	CTCCAGCGACCCCTGCTATTTG	37535
3910	CAGAGCCCAAGGGCATTGAACA	15568	GTAACCACTCCCTGGCTACTGT	26552	GCACTGCCACCTGCTGATT	37536
3911	TTCTACCCCTGACAGTGCAACA	15569	CTCTGAGCTCTTGCGTTTCTGA	26553	GGGAAAATGTTTTGACCAAGGAGTTCTCT	37537
3912	AAGGTTCCATCTGTGGAAGAGTTT	15570	TGTGCTCTCAGCACTTTTGTGA	26554	TCAGGAAGCACTAAAAGGTTCCAT	37538
3913	GGCTGCCAGCAGGTTGTCT	15571	ACCTCCAGGCTTGTGCTACT	26555	AGGCGCCGAGAGCAAGCTA	37539
3914	TCCTCGGGAGAGTGACCTGTAA	15572	ACGGTGGAGGGTAAACAAAACAT	26556	CTGACGGCCTCCATCTTGT	37540
3915	GGAACCTGCAGACAAGAGCTAAAC	15573	GGTCTGACCAACCTACTGAAGA	26557	GGCTGATCTTATTGACAGTGGAACT	37541
3916	CACATGCATCCTGTCTTAACGT	15574	GACAATGTCCCCTGACTGGAATTT	26558	CCCTCTGTGGAAGAAATGTGTGA	37542
3917	CAGACCTGTTTCTCATCAATCTCT	15575	CCTCAGGGAGCTTGTAGTCTCT	26559	CAGCAGATCCTACAGACCTGTTTC	37543
3918	GGGTTCTTCTAATGCTGGAGACA	15576	GGGGTTAAGCTTTCAGGAGCTAAG	26560	GTCTTATCGTCTTACAGGGTCTCT	37544
3919	TGTCCTATAGCAGACTCCCAAGT	15577	GGGCTTCAGCTGGAAGTTGTTG	26561	CTGACCTGAGCCTGCTTTTTG	37545
3920	GCAGCCCTTGCCGAGAAATAGA	15578	GCCCAAAATTTGCAATGCAGTAG	26562	TGCCAGCCTTCCACAACTTC	37546
3921	CACCTCCGATGCCCTGGTATTCA	15579	CTCTACGGAATATGGGCCTGATG	26563	GTTTGTCTCCTTTATCACCACACT	37547
3922	GTCTGTGAGGCATTGTGGAAGT	15580	GGAAGCCAAGCAGTGACAGT	26564	AGTGGGCCTTGTCTGTGA	37548
3923	ACTGCATGAAGGCTCTGTGATT	15581	GTGTGATCCAGAGCAAGTCTTCTA	26565	GGAGCCTGAACCACTGCATGA	37549
3924	GCCAGGACTCTAAAGGGAGCTTGT	15582	CTGCATCCCACGTTGGCTTT	26566	AAGGGAGGGCCAGGACTCTAAA	37550
3925	TCCACACCTCAGCCTTGGA	15583	CCACAGAACAGAGGGACTTGAAC	26567	CCCCTTCTGGGTACCACCTAAT	37551
3926	ACTGGCCAGGCTCCCATTC	15584	CCAAGCAGGGATTAGAAAAGTCTGA	26568	GGTCACAGCTTCCCCATCATA	37552
3927	TGCCCTTCTGCCTACTGAAAATC	15585	AGGCTAGACCTAGGCTTTGGAT	26569	CCCTTGAATACCTAATTTCTTGCCTTCT	37553
3928	ACCCCTCCACAACCTCAAGTCA	15586	GCCCAGGGAATCCTCTCTGT	26570	ATGCCCCACCCCTCCACA	37554
3929	CACCTTAGCAGCCCACTTTCT	15587	CATGTCAAGGGCCTGTCACT	26571	CCCTGCTGGGCACTATATCACCTT	37555
3930	CAGCAGGCTCCAGTTCAATCT	15588	CCCACAAGCCAAGCCAACA	26572	GGAGGTGCCTTTGCCAAACA	37556
3931	GGAAGGGATGCAGAGCACAGATAC	15589	CGATTTTTGCCTCTGGAACGAA	26573	GGACTTTGGGCCGTAAGGAA	37557
3932	CACCTACCCAGTGGTAGTAGTGACA	15590	GAGTTGGGTGTGGGGTGATGTA	26574	GGCTTAAAGAGTGACCAAGCACCTA	37558
3933	GCCCTACTGATAGTGTGCGTAAAG	15591	GAAAGACCAGCTGTTCATCCAA	26575	GGAATGTGTCTTAAATAAGCCCTACTGA	37559
3934	AATCTGCGCGATCCGACTTT	15592	AGAGTGTGGGTAATGTGGGAAGA	26576	GAATTTCTGCTTACCTGGGCAATATC	37560
3935	TTCTCTCTGCATGGGTGTCAT	15593	CAGGTTCTCACATTGGGACTGACT	26577	CCTCCACCGTGTCTTCTCTCT	37561
3936	TGGGGAGTTCTGTCCAGAGA	15594	ACAGGAGTGTTCAGCTAACATC	26578	AGGGTGGCAGCCTTCTCT	37562
3937	GCCTCGGCCTCTGTGTTTT	15595	GCGCCAGCCAGATTTCTGAATTA	26579	CCAGCCGCTTCAGGTGATCT	37563
3938	GCCCTCTTTCTGGAGTGTTT	15596	GGAAAACATGCCACCCGAGAA	26580	CAATACTTTTAAAGAGCCCTCCTTTC	37564
3939	AGACGGCCTCTGGGGCATT	15597	GTCCACTACAGGTGGAGATGAGT	26581	CTTTTGGGCTTACCATCACAGACA	37565
3940	GGTGGGCAATTGTGGTGCAT	15598	TGCCATCGCTTTGTCTCTA	26582	CTTCTTCTCACTGGTGGGCAAT	37566
3941	GGAATCATCTGCCACCAAGTA	15599	CAGGCAGGTGGAGGAACTCA	26583	CTGTGGAATAAAGGTTGGGATGAAAG	37567
3942	TCGGTGGCCTTGGGAAAC	15600	TTCGCCAGCCACGAGGAAAT	26584	CCTCAGGACTGGAGTTTACACGAAGT	37568
3943	CCCAGGCAATTCAATTCATCA	15601	GCCCGCACTGGACAGATG	26585	CGAGGACCCAGGCAATTCAA	37569
3944	AGCTTGCTGGGTGGGTTTT	15602	GAAGGAGGCCCTAGGGAGGATT	26586	CCGATAGGAGGGAGGGAGCTT	37570
3945	AGCTCCAGGTCTCAGTGCAT	15603	TCACTCAGACTGGGGTGCAA	26587	GAGGCAGGACGATTTCTTGACCTA	37571
3946	AGGTGGCCTGGGAACCTCT	15604	GGTCCGCTGACCTCTCAATCT	26588	AGGCCGAGCCAGATCCTATTG	37572
3947	CCAGTTTCGCCCTGCTGAAGA	15605	AGGAACTGGAAGCCGCTCTCT	26589	ACCCACCCAGGCCAGTTTC	37573
3948	GAGTTTTTCGAGTTCCAAGTTCCAAT	15606	GCACAGTGAGCCACTTCT	26590	GCAAGGCTAGAGTTTTCGAGTTC	37574
3949	CCAGTTCGCCGACATAGACACT	15607	GGGTGGAGGGGTGTCTAAAATG	26591	TAAGCCAGGGCGCCCAAA	37575
3950	GTGTCCAGGGTAAATGGCAAGA	15608	GAGTCTACACGGGTGTGAGTAAG	26592	CAGATGGCAAGTGTCCAGGGTAA	37576
3951	CCACTTCCCTGTGGAAGAGCTAGA	15609	AGGGTTAGTGCGGTAAATCAAGT	26593	TTGCCCTCTGGTTACCACTTC	37577
3952	GCTCGCTTTTCTTCGCCATT	15610	CGCTGTGCTTCGGTGAT	26594	TCTCGGGCTCGCTTTTC	37578
3953	CAGGTTTTTGCCACAGTTAGTGATG	15611	GTGGGAAGAGGCTGACTTTCAA	26595	TGGGATATGAAGGGCAGGTTTTG	37579
3954	TGGGCTCAAGTGCTCTCTAGA	15612	GCCCAGTGCTCACACTTGTA	26596	GGTCTGAAACTCCTGGGCTCAA	37580
3955	GAAACGGAGGCAGTGAGATCAAG	15613	AGCGGGGTGTCTGTGGAAGAT	26597	CCCTGTAGGGCAGGATGAAC	37581
3956	CCCCACCACAGCATGAAGATGA	15614	TGCCAGCTCAGTATGTGGAATG	26598	GAGGAACAAGGGCAAGGTGATG	37582
3957	GGGGCCACAGGTGCTAATGAAA	15615	GTGCTCTAATGACCAGGAGAATCAA	26599	CTGGTCACATAAAGGCACCT	37583
3958	GGTCACAAAACACGCGGGA	15616	TCCCGCAAAATTTTCTCTT	26600	GGGAGGGGATTAAGGTACAAAAAC	37584
3959	GCTGAGGTGACCTTCTCCAGATTTTC	15617	ACTGGGGCTCCAGAATGTCA	26601	GGTGTGACTGTGTGTTTACAGGTT	37585
3960	GGACCCAGAAAACCTTGCACTTAAC	15618	GGCTGTGCATCTGCATCTCT	26602	CTCTGGATTAGGACCCAGAACTTG	37586
3961	GCTGTAGAAGGGAAGTTAGCACAA	15619	AGCCCTTACGAGAAGGGCTTAG	26603	GAGACAGAATCCAGAGCTGTAGAAG	37587
3962	CTGTGTAAAGCCTCTGGGACTA	15620	TCGGGGTTACTGGCAGAGCAA	26604	TCACCGCATGCCCCAAGAAT	37588

3963	CCGTGGAATGTGGCGATCTGA	15621	ACCCGAACAAGCTGGCATCA	26605	ATGTTTAGAACCCCGTGGAATGT	37589
3964	CTACAGGTGCTATTGAGCTGGAA	15622	GGGAGCTCTATCTAGGGAGTTATAG	26606	CCAGCTACCTCTACAGGTGCTATT	37590
3965	GGGACATACCACTGAGTGCAAA	15623	CCGCGAGAAGAGAGAGTCA	26607	GGCCACTGAAGAAATTTGGGACATAC	37591
3966	GGGGTCATATCTCTGGACCTATCAT	15624	GGGTTCAGTTCGGGAAGTCACA	26608	GGATCATCCAAAGGGGTCATATCTCT	37592
3967	TGCTCCAGGGTTTTAGCATTTG	15625	CTGGGCTTTGACCACTGAGGAT	26609	GACCCCATAGTCTCCAGGGTTT	37593
3968	GCTGTGGGCAGAACTTTGATCTCT	15626	CACACCTTTTCCAGGAGCTCTA	26610	TGACTGCTGTGGGCAGAACT	37594
3969	TGTCTAGATCGTGGGGCCCTAAA	15627	GGTCCAGAGTGTGTCTAAAATGTCA	26611	CGCTAAACCACAGCAGTATAAAA	37595
3970	CCACCTATCAATCCCAGTTGGTT	15628	CGTGGAAATGGCAGCCTTCA	26612	GGGCTTCTTTTCCACCTATCAATTC	37596
3971	CTTGCTACAATCAGACCACCTTAA	15629	TCCATGCTTAGCACGCCTTAAA	26613	GCACTAAGGGTTCTTGCTACAATCAGA	37597
3972	TGCTCTGTATCAGGCTGAATC	15630	GAGCCCAAAAGTCTGGCACTAC	26614	GCAGGGTGTGTCTGTCTATCA	37598
3973	TGTCCAACCTGCCTGCACACT	15631	GGCCGGCCACAGTGAGAAA	26615	GCCAGTCTGTCTGTGTCCAA	37599
3974	CCAGCTTCTCTAGTGACAGATTT	15632	TGGGGCATTGGGATCCTTTG	26616	TGTGAGACCAGCTTCTCTAGT	37600
3975	CCACGTACGCCCTCTAGTGAA	15633	AGGTGCTGAAGAATGGTAGATT	26617	CAATGCCCTTCTCACCAGTA	37601
3976	GCCCTACCCATTTTGTCAAGGAA	15634	ACTACTGTACCCGAGTCTTTCT	26618	GGCCACAGCCCTACCCATTTT	37602
3977	CCCGCTCTGTGCTCTTCA	15635	AAACGCAGGCTGGCTCTGGAT	26619	TTCACTTCTAGCAGGTCTCTCT	37603
3978	CCATGAGCTAGAGGGTCTTACA	15636	GAAGTGCAATGGGGAGAAAAGAGA	26620	CCAAAGCCCTTCCATGAGCTAGA	37604
3979	GCCAGGACTGTAGAACCCAGAT	15637	CCTTGGCCAGTTATGTTCTTGA	26621	GGTATCTGAATCAGCCAGGACTGTAG	37605
3980	TGCCTCAGACTGGGGATGT	15638	CCCCAAGTGCTGATGGTGT	26622	AAAGATGCAAGAGTCTTGGTTTG	37606
3981	GCTCTCACACATTTACCCAACAGAT	15639	ATGCCTAGCACAGGGTAGACT	26623	CCCACATGCTCTCACACATTTAC	37607
3982	GCCTGTCTTCTGGAGGTGTGA	15640	CCCCAGTAAGCTGTGACTGAAC	26624	AGCAGCACTGAGGCTGTCTT	37608
3983	AAGGCAGTGTGTGGCAGAA	15641	GAGGGACCCTAGATCCAGAGGAA	26625	AGGCAAAAGTCAACATGCAAGAGA	37609
3984	CTGCAGGCTGTTTGGTCTGA	15642	TGGCCACAGCTCCACAT	26626	GTGGATATAAGTCCCAGTGGGTAAG	37610
3985	CGTGGGGACTTCATGATGGAAA	15643	CAAAAGGTGCACGAGCTCTCT	26627	CAGCTAACTAAGTGGGGACTTC	37611
3986	CTGGGTGAAGACGGTGTGTCAA	15644	GCGCTGGTACAATCCGTGAA	26628	ACCTGCTGCTGGGTGAAGA	37612
3987	GGGAAAGCAACCTACACACAAC	15645	ACTTCCCTCAGCCCTACCTCTA	26629	GGGCTCCTAGGGAAAGCAAACTTA	37613
3988	AGAGGCTCGCTGGCTGTGA	15646	GGAAGGGTGTCTCAGACCACAT	26630	CTGTGGTTTTGGAGTCAGGTCAGA	37614
3989	GGTGCAATTTCTGGAACGAACAAG	15647	CCTCCTCTCACCTCTACTCTTTT	26631	GAGTGCTTACGTGTGGTGCAT	37615
3990	GGGAAGCTTCTAGAGGAGCCAAAT	15648	ACATCTGTCCATCCTTTGGAGTTT	26632	AGGCTCTCAGTGGTGGTGTAG	37616
3991	CCTGCTGGAATGTGGCTAAGA	15649	GGGGTGGTCAACCTGAGAACAT	26633	GGTTTGGCCTGCTGGAAATG	37617
3992	AGTGGTGTGAGAGAGATGTGGAA	15650	ACTAACCTTTATCTCTCAGCCTAGA	26634	AGGGCAAGTGGTGTGAGAGA	37618
3993	CTCCATCTCATCCCCATGCAA	15651	ACCAACCTACAGCGACAGAAAG	26635	TCCCTACCTCTCTCCCATCTCA	37619
3994	AGACCGTAAGCAATATACCACTTGG	15652	GTGCTGGGTGCTGAAGGTTAAAG	26636	CTCCTTTCCCTAGACCGTAAGCAATA	37620
3995	CTGGGGAGGGAGTAACAAGAAGA	15653	CTGGGAAATTGCCCTCTATTTCT	26637	GATACCTTTCTGGGGAGGGAGTA	37621
3996	GAGGTGATGGGTGACTATCCTATCAGT	15654	GCTCTGAAATTGCCCCGCAA	26638	TGTCTAAGAGGTGATGGTGACTA	37622
3997	GCCTTGACCAACCATCTAGAGTAA	15655	AGTAGGGAGCCATGGTAGTGAA	26639	CTCTGGGAAACTCTGCCTTGA	37623
3998	CATAGTTGTGCTTTCATTAGGCTGAGT	15656	CAGCCCGAGGACACATTAGTCA	26640	GTGGAAGCCATTGTGTACGATCA	37624
3999	TGGCACCTTTAACCCCTCTGT	15657	GTCTCCAATGCTTCCGAAATGTGT	26641	TGGCGAGTAATTTTGGCACCTT	37625
4000	AGGCGTAAACACAGTCAGGAAA	15658	AAGAAGAGCCACACTGAGTTGTT	26642	GGCCAGCCGTCCAGGATTTAT	37626
4001	GGCCCAACAGCCAGAGAAT	15659	CAGGAGCCTATTATCTTCCCGAGAA	26643	AAACCATCCTGGAGGCAGAAC	37627
4002	CCCTGTGAGCTGGGCCATTTTT	15660	TCCTGTGTGGTTTCGATGGTTTATG	26644	GATCAGGAAATCCAACCTGTGA	37628
4003	CGGGAGTCTGACACATGGAAC	15661	GCTGGCGGGAAGTCACACAA	26645	CGGGGTATCGGGAGTCTGACA	37629
4004	CCTGAGGTGAATGTACTTTGCAGGTT	15662	CCACAAAAGAGATACCCCTGCTT	26646	CCAGTTCTGCTCAGGTGAATGTACT	37630
4005	TGGCCAGAACTGGGCCATA	15663	GGCTTCTCTGTGGCTTGA	26647	GCTGCTCTGAAAACCTCTGCTTGA	37631
4006	CTGTCTGCAAGTACCACTTTTTC	15664	GTCCAGTTTCAACCCTGAAGGATT	26648	CACATGGAATGTACTGTCTGCAAGT	37632
4007	CCAGTTTCTGCTCTCTGACAAG	15665	CCTGGGAAAGGTGAGATCAGACA	26649	GTGCTGCCTAGGTACCAGTTTC	37633
4008	ATTCTTGGCCACACCAAGCTAT	15666	GAGCAATTTGGCTGGCAATGAGT	26650	TGGTAGGGCTCCCTCTCTCTAT	37634
4009	CTGCGATGTGTGGTGAATTTTCTTC	15667	AGCACCAACAAAAGGCAACT	26651	AGTTCTTTGTCTCTGCGATGTGT	37635
4010	CCTGGGTCTGATGCTGCAATG	15668	AATGCACCTCTCCCTGCTT	26652	GGTAAGTGTCCCTGGTCTGAT	37636
4011	ACGAGAGACCCACGGTTCCTAA	15669	CATGGGTGCACCTGTTCTCA	26653	GGCCTATGGCTTAACACGAGAGA	37637
4012	GGGGCCAGATAGTGGAGACATTG	15670	ACCTGGGCCTGCCTGTATGA	26654	GGGATAACAAGGGGCCAGATAGT	37638
4013	CCAGGCCAGAAAGCATTATCAGT	15671	TCAGGCCCACTCCCGGTTA	26655	TTCCATACAATCAGGCCAGGAAG	37639
4014	ACACACGCCCTCTGACACCAT	15672	TGCTGTGGGAAGCATGAGTAAC	26656	GGCTGCACTACCTGAACACA	37640
4015	GCTCAGTCTCCAGCAATTAGTCCTT	15673	GCTGGAGCTGGTAGCAACACT	26657	CTCTCAAGCTAGTTCTTGCTCAGT	37641
4016	CCACCTTCTGGTTGGGAATGTTT	15674	GCAAGTCTGCTTGAGAAAGAAA	26658	GGAGAAGCTTTCCACCTTCTGGTT	37642
4017	AGACCACCACCTTGAGACT	15675	AAGCAGTGAAGTTGCTGTGATAC	26659	GGCTGTCAGCACTTCGGACTTA	37643
4018	CCACAGTGCAGTTGTGCCTAAAAC	15676	GGGCGGCCCTTCGTTCAAA	26660	TTCCGCCCCACAGTGCAGTT	37644
4019	TCCACCCCTGCAGACTAAGCAT	15677	GGGATAGACTGAGGGTCAGGGAAA	26661	ATCTCCAAACTGTGAGTCTGGTTT	37645
4020	CTTGCCACTCCCTGAACACT	15678	AGGGAAGAGCCAGAGACATCA	26662	GCCTGATGCTCCATCCTACAT	37646
4021	CGCACAATGGGAGGAAACAAA	15679	CCTTCGGCCTTGGCTCTAC	26663	GGTAATAAGACTGACCATCGCACAA	37647
4022	GGCCAGGACCAAACTGTGAAGT	15680	GGGGTGGGACACATGGAATCA	26664	ACAGGTCAGGCCAGGACCAAA	37648
4023	GACCTACCTAAGCCCTTCTCTTTG	15681	CCACAGCTATGCCCCCTTCTCT	26665	CTTGGCATCCAGACCTACCTAA	37649
4024	GGAGGAACTGGACAGGCATTAG	15682	GTCTCCAGTGTCTGTGGTGAAG	26666	TGGTTGTAAGGAAAGTTGGAGGAA	37650
4025	TGTTAGGGAGTTGGGTGGTGAAG	15683	TGTGGCAACGGGAACTGAT	26667	TGGGAGGTGGTAGGGAGTTG	37651
4026	GCTGTCAGTGGAAAGACGTACA	15684	AGAGAGCGTCACTGTCTATG	26668	CGTCATTTGAATTCGGGACTGTCT	37652
4027	CCCTGCTACCTGTGTTCTTCCATTAC	15685	GCAGGTGCACAGGAACAACAA	26669	CCTGACCCTGCTACCTGTGTT	37653

4028	GGTGGCACCACCTTTGACCAATAC	15686	CCAGGAGTCAGATGGCCGATT	26670	GGATGTCTTCAATCCTGGCTGATGT	37654
4029	TGGGATTTCCTGTTATCCCATTTCT	15687	CCCCTCGGAAGAAGCAGGTTAC	26671	TGGGCCTGGGATTTCCTCGTT	37655
4030	GCCGCTGCTGACAGCTACA	15688	GCTAGAGAAGAGCTCCCATTGTTT	26672	AGGCATCGGTCTGAAGGACTTG	37656
4031	AAGGGCCCTGCTGAGGAT	15689	CTTCTAACAGCTGTGGTGAATGA	26673	GTGGAGACTGTGCTGCCTAACAA	37657
4032	GGTACAAAAGTGGGCTTCTAAGCTA	15690	GGTCTACTGCGTGTGTTAGTTG	26674	TCTCTGGGGCCAGGTACAAAAG	37658
4033	GGCCACTTAAATGCTCAGGCTAT	15691	GCTTACCAGGTAGATGCTCTAGT	26675	TGCTTCCAGAGGGGCACTGT	37659
4034	CTGCTCTGAGGCTGTAGGGAATCA	15692	AGGCTGCCATGCAAGTCTTC	26676	GGTGCTTAATTTTCAGCACAGTCT	37660
4035	GTTGTGAAGTTACACCTCTCTGTT	15693	CGTGCAACACTGCCTTCCTT	26677	TGCTGTGACAGAGTGTGTGAAG	37661
4036	CATGTCTGCTGCCAAGCAA	15694	CCACTGTACACAAAGAGGACGAT	26678	AGCAGGAGCTGTGCTCTGA	37662
4037	AGCCTGAATGCACCAATGTATGA	15695	TTTGGTCTTCCCGAGATAGTTATG	26679	AGCTACAGTCCCCAGCCTGAAT	37663
4038	GGTCTGGCTCACAGTGAATCTT	15696	ACGTGCAGAAAGGCAGCAA	26680	GGATGGACTAATATAAGGTCTGGCTCACA	37664
4039	CACCTTCTCCTCTGTGGGTACA	15697	GTACCCAGCCATTGTGACAT	26681	GACAGGCACACCTTCTCCTTCT	37665
4040	GAGAGGGGTAAGTGGAGCAGTA	15698	TGTCCTCCTCTGCCTGCTAT	26682	CTGGAGAGTTCACAGATTAACAGAAGA	37666
4041	GGGACCTAACCATCTCCAGACT	15699	CTGAAGACAGCTTCTCAAGACACCTT	26683	TTCAGTCTCAGGAGCGCTGACTT	37667
4042	CAGCTGGGGTCTTTTCATTACA	15700	CAGAGTGTGTGGGGAAAGTTTGTA	26684	CATTTTGCTACAGCTGGGCTCTT	37668
4043	GAGCTGAGACCTTTAACTTTACTGA	15701	GCCTGAGCTCCCTTCTCA	26685	TCTTCCAGAGCTGAGACCCCTTT	37669
4044	CCCCAAGATAACCTCTCCCTCTATC	15702	TGTGTCTGGGGACATTGACA	26686	GCCAGCCTTCTTCCCCAAGATA	37670
4045	TGGCAAAGTGAAGGGTGACATC	15703	GATGAAGGGCCCTGATTTCCAT	26687	CCAGCAAAAATTGAGAGCTGGCAAAG	37671
4046	GCAGGCAAAACACAGAGGTGAT	15704	ATTGGGCTGCCCGTGTTA	26688	CTCTGGGTGTGAGTAGCTTCTT	37672
4047	AACTTGCCAAGACATCCTCCTT	15705	GACCTAGCAACTCTTGAGGAAACA	26689	CTACACTGCAGAAGTAGCTTAACTTG	37673
4048	GTGCGGCAAGAGCTTTCACT	15706	CAGCCGAGCTCACACTTGTCT	26690	TGTTTGCTATAAAGTCGGGCAAGA	37674
4049	TCTGCTTGGGTCTCTGCTTTC	15707	GCCATGGAAGGGAACAGTCCAA	26691	GACTTATGGCTTGAGCCTCTGCTT	37675
4050	GCCCAACTGTCTTTGTTCTTG	15708	CTTGCAAGATAAGACCAACATGT	26692	ACCCCTGCCCAACTGCTCT	37676
4051	CCATTCCCTCTGAGCCAACCTACTA	15709	GCGAGGTTCCCTTGATGCTT	26693	CTACCTCCACCATTCCCTCTGA	37677
4052	AGAGTTCGATGCAAGCCTTCT	15710	CCTTCTCCCTGCTGTTTGTGA	26694	CTGGTGAGAGGTACGCTAAG	37678
4053	TCACTGTCTCTCCTCCCTTCA	15711	GTCTTGAACCTCTTGTGAGGATCA	26695	CCAAGGGGTCTCTACTGTCTCT	37679
4054	GGCAGGTGAGAAGGTAGCTGTTTG	15712	TTCCGGTGGGGCTCTCTTC	26696	GCTCAATTTCTGGTTCCTCATGT	37680
4055	CAGAACATATATCCCTGCTCTCTCTT	15713	CCCTGCCCTCTCTCATGT	26697	CAGAGAGTGGGGTAGTATACTCAGA	37681
4056	TGAGCAGATGGAGCTGTTTGT	15714	AAAAAGCTGTGGCTCTCTTCTCT	26698	GGATGAGGCTGACACTGCAT	37682
4057	GCAGCCCGATAGAGATTGACT	15715	CTGGGAAAAATAAGGCTGGGAATCA	26699	ACTCAAGTGCAGCCCCGATA	37683
4058	GGGGCCTTTTGTGGGGTTAA	15716	TGAGGGCCACCAAGCTAGGAAA	26700	GTGAATCAAAGCGGAACCTGTCA	37684
4059	ACCCCAATCCCTGCTAATACTGA	15717	TGAAATGCCCTCTCTTGTTT	26701	CGCTTTGTGAAGGACACCCCAATC	37685
4060	AAGTTGGGCTCCCTGGGAAAG	15718	CTTGATGCCAGCTACACTCTGTTTC	26702	CAGACCACTCCCTTACAACCTGA	37686
4061	GCTTCTCCCAATATTCCTTCA	15719	CCCAGCCTAAAATCCCTGAGCTA	26703	CTGTATGTCTTACGCTTCTCCCAAT	37687
4062	ACCGGGCAACAGCCCTAT	15720	CCCTGAGAACCTGGAGGCTACT	26704	TCCGGGGAGGACCACTCACA	37688
4063	AAAACCAAGCTAATGAGGACTGA	15721	CGCCCTGCCTAAATGGAAATG	26705	GACTCTCCCCAGGAATGACCTA	37689
4064	TGGCAGCATCTTACCTCAGA	15722	TGAGGGAGGATCAGTAAACCATGT	26706	CCAGTGAGATGGCAGCAT	37690
4065	GCCCTGGATAGGAATGGTTAGGAA	15723	CGCCAGCCTGACTTGAATCTT	26707	CTCCTGTTGCCCTGGATAGGAA	37691
4066	CTTGGACTGAAAGGAAGACACTCT	15724	GGGACCTGACGCAGACAATAA	26708	CCCCTGCTTGACTGGAAG	37692
4067	TCTCTGCCGCGATGTCTCTA	15725	ACCTCCAGGCTCCAGGAATTTG	26709	GCTGGCGATTGCCGTCTCT	37693
4068	CACTGCTCGGGATGTAAGCTATTG	15726	GCTGACAGATTTGCTCCTCTGT	26710	ACCACTGCTCGGGATGTA	37694
4069	CAGTGGCTTAAGTGGAGGTAA	15727	GTAACGTTTGCTGGTCCATCT	26711	AATGCAGGCAGTGGCCTAAG	37695
4070	AGGGCGCCAGAGATGAAAAG	15728	TGCCCTCCACTGGCTTTC	26712	TGCGCCAGCTATGGACACA	37696
4071	ATCTTGACCACAAAACCTCAAGT	15729	AGAGTGGAAATTACAGGAGTCT	26713	GGTGTCATCTTAAATCTGGACCACAA	37697
4072	GTTGTCTTCTCCGTTGCATTCT	15730	GCAGGGTCCGGCCCTAATGA	26714	AAAATCAGGCCTGTTGCTCTCT	37698
4073	GAGCCCAAGGCAACCAAGT	15731	GCCTTCTCTACAGGGTTCTACT	26715	ACACCGGTACGCAGAGA	37699
4074	GCAATCGACTGAGGTACTTGGGTAAG	15732	CTGTGGTGGATTGCTGGAA	26716	CACAAGTAAGAGCTGCTGAGCAAT	37700
4075	CGAGGAGGTTACTCTGACCACACT	15733	AGTGGCCAGGAGGAAGAACTA	26717	AGGGACCGAGGAGGTTACTCT	37701
4076	CTAAGACCCAGGACGGAGTCAGA	15734	CGTGACCTCCACCCCTAGT	26718	GCTGCAGCCAGAGCCTAAGA	37702
4077	GAACCTGAAAAACAGGGTGTGGAT	15735	TGTTGGGTCCAGCCAGTCTCA	26719	GGCTATGGGTGATCAGAACCTGAA	37703
4078	AAGGGGTGCGTGAGCAAGT	15736	CCTGCTGTGTGCAGTGGTTGAA	26720	AGCAAGGGGTGTGTGAGCAA	37704
4079	ACAGGCTTTCTACAACAGGTTCA	15737	TGTGAAAATCCCTGTTGCTCTTCA	26721	CCTTCAGCACAGGCTTCTACA	37705
4080	GGGGAGCAGTGTGGACTTG	15738	GAGAAGAGAGGTGATAGGGGACAT	26722	AGGGACAGCACAGATGGATGA	37706
4081	GAGGAAGAATCTATCTGTAGGCACAA	15739	GCGCTTGCCATAGAAAAGTGA	26723	TGCGGTATGACATGAGGAAGAATC	37707
4082	GCCCAAGAACAGGCCACTCTATG	15740	TGGACGACCTTTTGCCATTTTGT	26724	GAGTGCTTTCAGCCCAAGAACA	37708
4083	CAGAGCCACACGCTTGATTGA	15741	AGGCAGCAGAGAGGTCCAAA	26725	CGGGAGCCTTCCCTAAGAAGGTTTT	37709
4084	GGCCACCAAGGCTGTGAAAC	15742	GGGCTTGAACTCAGCTCTATCATC	26726	AGTACGGAGAAGGCCACCAA	37710
4085	AATGGTGCCGTCACTTGAGA	15743	CTGACCAGAGAGATTGGGCCTTCT	26727	AGCTAGCCCCACTTGCAATTG	37711
4086	GTTGCGAGGTTTGCCAGCTTTG	15744	ACTGTTACAGCTAACGGTGTCAAG	26728	TGATCAGAATGAGTTCGGAGGTTTG	37712
4087	CTGGGTTCCAGGAGCACTAAGAAAC	15745	GAAGCCTGAGAAGGTGCCAAT	26729	ACCTAGGAAGGGGTGAGTTTCT	37713
4088	TCTGTGTTCCCTCCGCTTT	15746	CGACGGGCAGCTGTCAAGA	26730	CGCCTTCACTGGTGATCTGTT	37714
4089	AGCCACCTCTCCCAAGACAAA	15747	TGCCTCCTTTTCTCAGGGTCTT	26731	ACTTGTTGAGGGTCAGAGGAGTAG	37715
4090	CACAGCTCTCATCACTACGAA	15748	GCCTTGAATGTGAGGCGAAATAAC	26732	AAGCCTTCCACAGCTCTCATC	37716
4091	AGGGAGCTGCAGGTTTCATGT	15749	AAGAATGCCCTGCACTGTGT	26733	AGCAGCTACGAGGCCCTTCA	37717
4092	CCTGCGAATAACACGTTTCTGTAG	15750	GGGAGAGGTATGCCAGGCTCTAA	26734	CTGTCGCACATTTCTCGCAAT	37718

4093	TTCCAATCCCAAAGCATCTCTTCT	15751	TGACTGTTGTCCCTGTCAAGTTTG	26735	GGCGTAGATGCCAAAGCATACT	37719
4094	GCCCGGAATTACAGCTTGTTAC	15752	ACAGGTCCCTTGGGCCCTTATT	26736	CTGGAGATTGAATTGCCCGGAAT	37720
4095	ACCAATCCCGAGGTGCCTAAG	15753	AGGCAGCCCTGTCTCACTT	26737	GGCAGTGGAAGCCTTTGATACCAATC	37721
4096	CACACTTTATGGAAATGCAGAGACTGA	15754	CACGGACGTGCATGACACTA	26738	CCCTGGAACCTTCCAAGTTCACACT	37722
4097	AGTGCCCTGCTTTGCATCTACATA	15755	CAGGAGCAGGGGTGATTGAAAG	26739	CCCAGCCATTAGTGCCTGCTT	37723
4098	AAGTATCGGCGAAAATCCCTAATCT	15756	TCACCCACAGCCATCTCACA	26740	GACCACGAAAGTATCGGCGAAAA	37724
4099	AAGCACTGGATTTCACTGAGACA	15757	AGGGCTGTCTCTCTCTGTTT	26741	TCAAAGAGGCAAAAGCACTGGAT	37725
4100	GGCAGAGAAGCCACATCCAAC	15758	CTGCCCCACCATATCTGAGAAG	26742	GCAAGGCTACCTAGGCAGAGAAG	37726
4101	GCCGAGGAAAAGCTGACAGT	15759	TCTTTACCGCATGGTTCTAACACAA	26743	ACGCACATGCCGAGGAAA	37727
4102	CTTCTCAACCTCAGTACTGTGCTACT	15760	CAGCCTTCCACGATGGAGAAAC	26744	CAGTCCAACCTAAAACTAGAGCAGCTT	37728
4103	AGGAAGCTAAATCGCAGAGCAT	15761	GATACCACAAACCTTGGAGCAACAA	26745	CTCTCTAGGACGAGGAAGCTAAACT	37729
4104	CAGTGAACGATGAGGCATTGTGA	15762	GCTGGAACACAGAGACGAAACA	26746	GACACACCACAGTGAAACGATGA	37730
4105	TGTCATCAACCGGCATTCAA	15763	GAGCTACTGGAGTCCAAATCACTT	26747	GTGTGTGTGGTTTATAGGCTGTCTATC	37731
4106	GGCACTGTAGCTTCCCAAGT	15764	GCATGGTGACAGGTGCATATTCT	26748	GCTCAAGCAATCCTGGCACTGTAG	37732
4107	GGTGAAAGTCCAGCTAGGAGTAAATG	15765	GGCCATCTAGGGTGGTGAACAA	26749	CCGCAAGATGGTGAAAGTCCAGCTA	37733
4108	TCTTGGGCCACCTCTGTACT	15766	GTAAACATTACCACGAGCTTCCATA	26750	GAGTGAAGAACACTTGACTGACTCTTG	37734
4109	GGACACTGGTTCTATGGCATTG	15767	GGGTTATGAAGACTGGCTTCGACAT	26751	GCTGAATGAAATGAACAGGACACTGGTT	37735
4110	TTTCTCTGCTGTCTCCAAGCAA	15768	TCCAGAAAAATGGAGCCACACA	26752	CCAGACCCCATGACGATTT	37736
4111	GTGGATACCCCTTGCCGCTTA	15769	GACATCAGGGTGTCTTCTCA	26753	ACATGGTCTTGGGGTGGATAC	37737
4112	CTAGAAATCACGCGGCATACACA	15770	AGTGTGCGTCAGGACTGAGA	26754	GGCACTGGAAGTTCCTAGAAATCA	37738
4113	GCCATGTACCGAGAACCATCTTG	15771	TTCGGGACCGTTTCCCCAACA	26755	CACTAGTTGCCATGTACCGAGAA	37739
4114	GCGACCCAAAGGAGTTTGCT	15772	GATGACACCTTCTATGTCTCAAGT	26756	GCCTTTGTAAAGCGACCCAAA	37740
4115	ACAAGCCCCGAGGGATATGA	15773	TGACTGGACACACAGGATATATGA	26757	AGACAAACCTCTTGGTCTCAAAACA	37741
4116	ATGCGGGGAGTGAGGAAGTT	15774	TGAAAGCCCACCTTCTATTGTCA	26758	GGACAGGAGCAGCTATCTAGAATCA	37742
4117	CAAGCCCAGCTTTGGGAAGA	15775	GGCCAGCACTACGTCAACT	26759	GCAAGGGCAGAACCTAGAGCAA	37743
4118	GGCTGTGGGGATATGGGGAAAC	15776	GACCCAAAGGGGAGTTTGATTC	26760	AGTGGAAGGCTGTGGGGATA	37744
4119	GAATGGGGTTGCTGGTCTATCT	15777	CCACCAGTCTCCCTTTTGTGA	26761	GAGAGGCATTCTTGCTTCTGA	37745
4120	GACGTGGTAAGTCCCAGGAAGT	15778	CACCTCTCCCTCCAGAACAT	26762	ACGGCCAAGACGTGGTAAGT	37746
4121	GAGAAAGTCTGGCGTCTTACA	15779	CACCTTCAAGACCCAGTACGAGTAA	26763	GGGTGGAGCAGTGAGAAAGTCT	37747
4122	CATCTCTCGGGTGCATCTTTG	15780	GGTGTCCCTGAACAATGTCTGTTT	26764	GGGAGTAAGAGATACAGGACACCATCT	37748
4123	CCTTCTATCTAGCAAGTGCCAAT	15781	AGCACCCCTGGAGCTTGT	26765	CCTGTTACATCCCATCCCTCT	37749
4124	GGGTTACAGCTTTTAGACGCATCA	15782	ATGCAGAGGCGGAGGCAGATA	26766	CTGGAATTTTCAGGGTTCAGAGCTT	37750
4125	GGGGAGTTGGGAGGATCTGA	15783	CCTAGAAACCTGAGCAGCAACA	26767	GTTTTTCCCTTTTGTGGGGAGTTG	37751
4126	GCCCAATCAGACAATGATCCAGAGCTA	15784	TTCTGGAGTGAGCCAGTCTGT	26768	CACAGATCACTGCCAATCAGACA	37752
4127	TCCCCGCAGAACGCTCTATTTAAC	15785	GACAAGCATCTCGAAGGGCATA	26769	TCGAATTCCTCTCCCGCAGAA	37753
4128	TGTGCCCAGGCTTTATTGATTCT	15786	CAATTTCCAGGAGGCCATGATACT	26770	CTGTTGTTGTGCCAGGCTTT	37754
4129	CACCTTTTCCAAGAAGTGTGCTT	15787	GGGTGAAGTGGGTGCATCTAA	26771	GTCTCTAGGGGGCCCTTCAAAAT	37755
4130	TGCACGTGGAGGTCTACAGAGA	15788	GCAGGTCTGCTCGGTTTATT	26772	CCTTGGCACTCCCCACTGTT	37756
4131	AGCAGCCACCTGCGTACAAA	15789	GCCCTGACAGGAACATTATTGTCT	26773	CCAGATATAACACGGAACAGCCAAAG	37757
4132	ACGACGGCGGCTGGATGTT	15790	GTCTCCTAGTACCTGTGGGTCCAT	26774	AACCGAGGCGGCTGGAAACA	37758
4133	GAGCACTGTGTGCCACCTAT	15791	AGTGGGGATCGTACAGCTCTT	26775	CTGTGTGCAGAGCACTGTGT	37759
4134	CTGTAGGCGGTGCTTGGAT	15792	TGGCCACCCAGGAGTGATAC	26776	GGATGTTCGAGCCTTCTCTGTAG	37760
4135	CCGCTCCCCAGATTCAACAGTTC	15793	AGACGTGGGTAGGTAAATATGGAA	26777	TGCACACCGCTCCCCAGATT	37761
4136	CGTGCAGCGTTTTGGATCTGT	15794	CAGCTGAAGGACCTTGGTGAGAT	26778	TCGTCTCGTGACGCTTT	37762
4137	GTAAGATTGGGGACTTGGGGATTA	15795	TCTCAGGCTTGGTAGCCTATGT	26779	CAGCTTTGGGGTGAGGGTAAAG	37763
4138	TCCACCGCCCTCTCACTT	15796	GCCGAGGGAAGGACAGTGACA	26780	CCCTGGAGAGGGGCTTTTCT	37764
4139	CAGTCATCAAGCTTAAGTACGAT	15797	CCCCAGCAGCATTTTCAGCAA	26781	CCAGGCTTTTGTGTTTTCAGTCATC	37765
4140	CGCAGTGCCCAATCCACCTT	15798	CCAATCCCACTGACACAAT	26782	TGTGGGGAATGAGCGAGTCA	37766
4141	CCCTGTGACTTTGGGTAGCTTTTG	15799	GGCAATACACACAGGCTCAA	26783	CACCTGTCAGTTTACCTGTGACTT	37767
4142	GGTGCAATCAGAGGTGAGTCATT	15800	CCTAGGGTGAGCCAGTTCCTAGA	26784	GGTTGGCCTATGGAAGGTGCAT	37768
4143	CCCTCCACACCTGGTTGTCATA	15801	CCTCACAGCTGAGCCATGAAA	26785	CCATTGCTGCTTGTCAAAATGAAC	37769
4144	AAGTAGGGAGGTGTGAGAGACAT	15802	ACAGTACTGGGCCAGATGGAA	26786	AAGAAGGAATGGATGTGCCAAGT	37770
4145	TCCCACTCTTTGACCTGAGA	15803	CACCTAAGTCTGGGCATGGACTTTAC	26787	CCACCTCCCACTCCCTT	37771
4146	GCTGCCGGCTACGAAAGA	15804	AGTGGAAGAGCCTTGAGAAGTTT	26788	AGCTGGAGGAGGGCAGAGA	37772
4147	GCAGAGGTATTTAGACCCGCTAT	15805	ACCCAGCTGCAGGAGAAAAG	26789	GGAGAGGGTAAACAACAAGCAGAGGTA	37773
4148	GATTTGCCGGCCCTCTACT	15806	AGCCAGCCTGAGCACTT	26790	CGGTGTGCTGAGAAAAGTGGATTG	37774
4149	TGCACCTTCTTACTCTCTTGAAC	15807	CTGGACCAAGCAGTCAATGGTTA	26791	GGCAGGATTGCACCTTCTTACT	37775
4150	CATTGGTGGGTATGGGTGTTCT	15808	CGTGTCTCAGTCTCTGGAAAGTT	26792	GGAGGAGAAGCCATTGGTGGGTAT	37776
4151	GGAACCTCAAAGCATAGCCTCCTATT	15809	GCTTCCGGATGTCTACACCAA	26793	AGTAAAGTGGAGGAACCTCAAAGCAT	37777
4152	TGGGCTTCAGAGACAAGCCTAT	15810	TCTTCTTAAGCCTGTAGGAGTT	26794	TGGAGCTGGGCTTCAGAGA	37778
4153	CCTGGAGCAAAACCGTTTGTGA	15811	TTCCCAACCTCGGGACACT	26795	AGTGGCGCTGGAGCAAA	37779
4154	GCAAGCACTACCACTTCCAAAAG	15812	CCAATCAGGCCAGTGTCACT	26796	CCCATCTGACTGCAAGCACTAC	37780
4155	GGAATAATGCCCGTGGACCTTAAGAA	15813	GAGAGGAACCGGTGGGACTA	26797	ACCGCCACGCAAAAGCCTAA	37781
4156	CAGTGCAGCCTCAACCTCTTCA	15814	GGAGGCTGAGGTGGAAGGATCT	26798	GTGGAGTAGAGTGGTACAAGCAT	37782
4157	GCAAAGCTCCTACTGCTCACT	15815	CAGCCACCAAGAGGGTGAA	26799	CGATGTCCAGCAAAGCTCCTA	37783

4158	TCCAATCCAAGGTTGGCTGAAT	15816	GGCCCTCCGTATCCAAGGTT	26800	CCCCCTCTCCAGTATTTCCAATCCAA	37784
4159	CCTCTGTTGGTGAGGTGCTAAG	15817	TTGTATAACACGCTGCAGGAAAAAG	26801	AGTCCTGTGTTAGCCTCTGTTG	37785
4160	GCTGACAGTGGCTCCTGAGA	15818	CTAGTGGCTTGCTCAATTCCTATTGG	26802	GGAAGCTGGATGTGGCTGACAGT	37786
4161	TGGCCTTCCAGTCTCAAAGAAC	15819	GCTGGCTTCTCCAGTAACAATGA	26803	GACATGAGCTTGGCCTTCCAT	37787
4162	ACACGTGCATGCGACACTCA	15820	TCCTCACAAGAAATGGACAATGGAT	26804	TGAGAGTCGTACAGCAGCAAAT	37788
4163	CAGTTTCAGTCTCTGCTGGACTT	15821	CCTGGCCGTGCTGATATTTCT	26805	CCTGGGCCCCAAAGACAGTTT	37789
4164	TGGTCATATCGTTCTCTCTTTG	15822	AGGAGAGACACAGAGGGACATT	26806	CACATCAGTGCATCCCTGCTTTC	37790
4165	ACAGGCACCGAGAGGATGAA	15823	GTTCCTCTGGCCATTAGGACTCA	26807	TGCCCTCGAAATCCTGTGAGA	37791
4166	CACCAAGCCGATGAAATTGATCTTG	15824	GACCTTCTCTCTTCTCTCACCAA	26808	GGCAAGTTTCACCAAGCCGATGA	37792
4167	GACCTGCAAGATGCCAGTAAG	15825	TAGGGTCTGTCCCTCTCT	26809	TCTGTCCAGGAGACCTGCAA	37793
4168	CCCAGCACCTTGCCCTGATTTA	15826	CCCAAAGCAGCTAATGAGCATTGCATA	26810	GAGAATCAGTGGGAGCTGCAT	37794
4169	GCCTCCTTCTGTTGACTATTCTGT	15827	TGTGTGTTACCAATGCCAAACAATC	26811	GGGTACCATTITGCTCCTTCT	37795
4170	GCTTGGGCAGGCATTCTCTT	15828	TCTCAAGAAAACTGTGGCAAGT	26812	AGGTAATCACTTGGCAGTAATGCTT	37796
4171	AGACCGTCAGCAGGATCACCA	15829	GGCTGGGAGGGCTTCAAAATATC	26813	TAGCAGTCTGGGCAGCCATA	37797
4172	CCTCGTTGAGTAGTTTGGCATTG	15830	GAAACCTGTCTTCTGCAGATGATG	26814	TCTGGTGACCTCGTTGAGTAGT	37798
4173	GAGAGCTGCAAGTCATCCTCATT	15831	CTGCTGACCTGACTGTGAGTGAA	26815	GCCATGTGTATTAGTGCTGGTCTT	37799
4174	AGGGAATCCAGCCTTCTCCTT	15832	CAGGTCCACCAACAATCATCATC	26816	ACCACCCAGGCAAGGAAAT	37800
4175	TGGCTTATGCTCTGAGGGTCTA	15833	GCAGACATGTGGGTACAGA	26817	TGTGTTCCCACTCTGGCTTATG	37801
4176	GGGGTGCCTAGTGATCAGTAGAT	15834	GCTGCGGGCAGCATTITTAAG	26818	CCAAGGGGTGCCGTAGTGA	37802
4177	AGAGCCTGGCACTGGGTATT	15835	CACCTGGAGCCTCAATCCAT	26819	TCTGCGGGCAGCTGTTAGA	37803
4178	GTGAGCTTGGCTCAAATCCATGA	15836	AGCCTTGCAAGGCCCTACT	26820	TGGGCAGACAGGTGAGCTT	37804
4179	CAGTTTCCTCTGGCACCTTTGTTT	15837	ACAAGTGATTCTCATGGCCACTT	26821	GACAGCCATTTCATCCCAAGTTT	37805
4180	GACGTAAAGCTGGGAAACCTTCT	15838	CCCTCAACCATGTGCAGAAAACTTG	26822	ACCAAATGCCAGCTATATGTGT	37806
4181	CACATCACCGGACGCTT	15839	GGGGAAGCAGCTTTCACCTCT	26823	GCTCAGAGGTACGGTGACA	37807
4182	CCTTGACAGCAAATCAGGACAAT	15840	CGCCAGGGAGGCTGTTAGAAA	26824	TGCTGTGCTCTTGACAGCAA	37808
4183	GGTTTGGCACAGGATGAAGCAAGA	15841	CCTATTGTTCTTGGCCCCCTTAGT	26825	CTATCAGTAGGTTTGGCACAGGAT	37809
4184	CCACAGGCCCTCAAGCCTCTA	15842	ACTGCATTGTGCGTGACCAT	26826	TCCTTGCCACAGGCCCTCAT	37810
4185	CCAGGGCAAAACAGAGGTCCAT	15843	TCCTGAGCGTGGTGAGATG	26827	GCTGTAGGAGCCAGGGCAAAA	37811
4186	GGGCGTCTACGATCACTGAAA	15844	CACGTGAATGAATTGCCCTCTGT	26828	GCTTCAACAATGAGGGGCGTCTAC	37812
4187	TGCTGCCACCTGGCATT	15845	GGAGCAGCAGCCATACTCAA	26829	AGGTGAGAGGAGCAGGTGTT	37813
4188	TGCGCACATGACTCCTCTAGT	15846	CTCATGACTGGTGTCTCTCTTGAA	26830	GATTAACAACACTCTTGCGCACAT	37814
4189	GCAGATGGAATCAGCATCTCTCGAT	15847	TCCTCTGCTCTGGGCTCAT	26831	GAGGAGCTGCAGATGGAATCA	37815
4190	GCTGGGCTATGTGGCTTCAGAT	15848	TGTGGTCTCTGAGCCTGCTGTT	26832	AGGAGTCATGCTGGGCTATGT	37816
4191	TGTGCTTGGCTTAGGCTAGAGT	15849	CATGTGGCTCTAGAGGGAGGAA	26833	GGCTGTGGCTTGGGAGGAGTATAA	37817
4192	AGGCAGGGACTGGAGGTAGAAAAG	15850	GGAGGCTGCCAGAACTCAGAAC	26834	GCTGCTGCCCTTGACAGAAAA	37818
4193	GGACTCTGTCTCAGTGAGGTT	15851	GAGTTGTCTCTGCCCTTTTGGGGATA	26835	GTGAAGTAACAAGGACTCTGTCTCA	37819
4194	TGGTGCCTGACCCGTTG	15852	ACTTCCCTGTAGGCCTGTCA	26836	GCCAATGAGGCAATATGGCCAATGA	37820
4195	GGCCCTATCCCTTGAGAGTTGT	15853	TAGCGCGCGCGACAACTA	26837	GCAGGGCTGATGGCCCTAT	37821
4196	ATGCCCTTGAGGGAGGTGTTG	15854	GTCCACAACGCATTACTGCTCAT	26838	TCTATCCAGTATCTACATGCCCTTGA	37822
4197	CCTCAGAACGATGAGGGAATGAAC	15855	GACCTCCAGGGTGCAATGCAAA	26839	GTACTTTCTGCCTCAGAACGATGA	37823
4198	GGCCACAAGAATCCCAATCTCA	15856	TGCTGCCAGCCACTTTGTGT	26840	GGCGGAGATAGAGCTATGAACTGA	37824
4199	AAGTTTCAGAGCTCACTACTTTTCT	15857	CGCTCCACTGTGTCTCTCTGT	26841	GGTGGGTAGGTTCTAAGCACACCTAAG	37825
4200	GGGGATCTGGGGAGTATCTGGTAT	15858	TCTCATGGTTGGGTAATGCAAAAGA	26842	CCAAAGCCATGATCTGGGGATCT	37826
4201	GGGTAAAGCAGAGATGTGAACTGT	15859	GTGTTGGGGCAGACCTTCAGTA	26843	GAGGTGAGGGTAAGGCAGAGAT	37827
4202	CCGCTTCTGCTGCTGGGAAT	15860	CTCCACCTGCCACACTCTCT	26844	GCCTTGGGCACGTCACCTC	37828
4203	CCCATTGAGGAGGGCTTTTGA	15861	GGCTCAGGGCCCAAGGATCT	26845	GGTTCTCTTCCCACTATCCATTG	37829
4204	GACAGGACAGCAGTGTCAATGGTT	15862	GCCTTTATTCCTGCCCAATC	26846	GACGTGCAAAATCACTGAGAGACA	37830
4205	GCTCTTTTGGTACCCGGAACCTAC	15863	CTCTGATTCTGCCCTGGAACA	26847	GCAGGAAAGCAGCTCTTTGGTA	37831
4206	CTCAGACCTGACAGCTGAA	15864	GCCTGCACTCTCCACAACCTATG	26848	ACACAGGCTGATATTTTCTCACA	37832
4207	GAGCAGGTCACTCTCCAGATCCTT	15865	CTCCACCAGCATCCAAACACA	26849	ACAGGTGGAGCAGGTGAGTCT	37833
4208	GGCTTGTCTGTAATGCCAGGTA	15866	CAGCAAGCAGGCTCAGGTACT	26850	GTGGGTTGGCTTGTCTGAA	37834
4209	CCACCTGAGCTCTTCTGTT	15867	GCATCAGCATCACTAACGAGGTCTTC	26851	GGCTCTAGAAGTGGCTGTGTT	37835
4210	GGGCTTCTCAGACTTCAGAGTT	15868	GGGTACAGAAGCTCTCAGTTGT	26852	AGACCCGGCCTGGGCTTTCT	37836
4211	GACCATGAAGGGAGGACACTTTG	15869	GTACAGGGGGCAGAGCTT	26853	GGCAATTACAACAGTCAGTCTTACA	37837
4212	TGAGCACAGCTTCAGACCAAT	15870	CCAAGCTCAGCCTTCGTCTT	26854	GCACTGGAGTTTGAGCACAGCTT	37838
4213	GGAAGCATGGTGAATGCACATT	15871	CTGTGCTTGGCAGGAAGCTCTA	26855	GCTGGAGGAAGCAAGCATGGTGAA	37839
4214	CTGAGAGTCTCTCACTGCTTT	15872	GGCACGAGCCTCGAAGAT	26856	CCTATAAGCTTGTGGAGGTCTCT	37840
4215	TTGGGTAAATGCTCGCTATGTCTAAT	15873	GATGGCGCTGAATGAGTCT	26857	CCTCACCTTGTATCGTGAGT	37841
4216	CTCTGTGAATCTCATCCCTTCA	15874	GCAAGCTCGGGGTGGTTT	26858	CTCTGCATACACCTCCTGTGA	37842
4217	CCCAGGGAATACAGCCAGCAT	15875	GGAATATACAGACCTTCTTCAACT	26859	AACTTACGGGGCCAGGGAATAC	37843
4218	CATATGCCCTTATGCCGTGATTCT	15876	TCCCTGGCTCCAGTGATTG	26860	GCAGGATGGTGTAAATCAGGGAGAT	37844
4219	GCTGAAGCCAAGGGAAGAGGAGAA	15877	CCCAGAGGTGCCTGTGACAT	26861	AGGTTTCTAGGTGGGGCTGAAG	37845
4220	AGCCAGTAGCTGCCCTGAGAA	15878	TCCGCTGCGTGTAGTTTC	26862	ACCTCTCTCCACAGCCAGTA	37846
4221	CCAGAACCTGGCCATCTTCCAT	15879	GCAGGAAGCCACAGAAAGTT	26863	GGAGTAGAGCAGGAGTTGGGAATAG	37847
4222	CCGATAAGCGTCTGATGGAAC	15880	TCCGTTGTGTGCCAATGCTA	26864	TCCAGAGCTGACCCGATAA	37848

4223	CCTTGAGGCCAAACACACTGCTACT	15881	TGGCAGTTTCTGAGTGGGATTG	26865	GGCAGCCAACGATTGGTACT	37849
4224	TCCAGGCTTCATGGCACTCCTA	15882	CACAGCTCCAGGGGCATCATA	26866	TCCTCACCTCCAGGCTTCAT	37850
4225	CAGAGCCCCGTTACTCTTTCTGTAG	15883	AGTGACAGGAGTGGCTTCAGT	26867	GAAGAATCTCAGAGCCCCGTAC	37851
4226	GGGGAAGGGAGATTGGTAGAGA	15884	GCCTCTCGGGTCCCTGTTCT	26868	GGCTTAATTGGAGGGGAAGGGAGT	37852
4227	CCGAGCCTTTGTTTCACTCTGTTC	15885	CTGAACAAGGCGCTGAAGGAAGA	26869	CAATCAGTCCCACGGTCCATTTC	37853
4228	GGGTTTGTCTTACCTTCAGCTTCT	15886	AGTGACAGAGAATACCCGAGACA	26870	GCCTGTATTTGAAAGGGTTTGTCTTAC	37854
4229	TCAGCCAGCAATGTTAAAAGACAAAG	15887	GGGGCTGACTTATTGGTGGTT	26871	TGAGGCTGGCTTCCAAATTTCA	37855
4230	GGTATCGTTCTAAGCAGGGAAAAGA	15888	GCCCAGGTGAAGCAGAAGTTTG	26872	AAGTGAAGGCATAAGGTATCGTTCT	37856
4231	GCAGGCCTAACTTGGAGAACT	15889	GGACTCACAGAATGTGACCAGATAAG	26873	CGGAAGTCCAGCAGGCCATA	37857
4232	AGGACAGCAGGTTCAGGAACCTT	15890	GGGAAGCCCCACTTTAGGAGTT	26874	GGGAAGCTTGGGCTTTGCTA	37858
4233	CCAGGTGATCTGCAACCTATTCT	15891	CCTTTTCTCCCCAGGACTTC	26875	GCCAAATGCAAAAGCCAGGTGAT	37859
4234	GACTTCTGTTACATGCCCTCACTT	15892	AGGCCATGTGGCTGATGTTAG	26876	CGGCCTCATCCAGACTTCTGTTAC	37860
4235	GGCAGGAAACCTGTAGATGGGAGTA	15893	GTCCCTGTCCATAGGAGAGACT	26877	CACACTGAGCTATAAGGCAGGAAC	37861
4236	GCTGGGGAAGAGTCTGTAGACTTAG	15894	TGTGATCTACCAGCAGCCATTATT	26878	TGCCAGCTGGGGGAAGAGT	37862
4237	GCATAATGAAGCCATTTCCCAACCTT	15895	GCACTGCGAAACGTGGAA	26879	GTGGATGGGATCTGTCTGAGCAT	37863
4238	CCAGGACCAAGTTGGAATCCTAT	15896	TGTACAGGCAGAGTGC AAGT	26880	TGACCCACAGGACCAAGT	37864
4239	AGGAGTGGCACTCCCAAGA	15897	TGGCACAGCCCACCCGAAA	26881	TAGCAGGGGCCACAGCTTAG	37865
4240	GTACTAAGACGAAGCGAGGTCCAT	15898	CTCTCCCACTAAGTTCAAGTTCTGT	26882	GCAGTGTTTTATAGACACGAAGACA	37866
4241	GTGCTTGGAAATGGGCTAAATTGT	15899	TCAGCAGAGCCTGAAGCAATG	26883	ATGGCGCTGGTGGCTTGGAA	37867
4242	AGGGTCTGGGCTGCTGATGTTA	15900	AGCCTCAGAGCCGATGAAG	26884	ATAGGGCTGCCTCCCAGAGA	37868
4243	GGGAATTGCCCTGAGCAAACTAAAC	15901	GCCTGGCTGCACTGAGTT	26885	CTGACTACTGTCAAAGAGTTAGGGAAT	37869
4244	GCCAGCTCAAAGGCCATACA	15902	GGCTATAACACCTGTGCAT	26886	GAGTCACCTGTAGCCAGCTCAA	37870
4245	GGAGTTTCTTGGCAAAGGAGCTATG	15903	CAACAGGGCAGCTGCCAAAG	26887	CCAGTTGAAGCTCTCTGATGGTT	37871
4246	CGTGGCCAGGACCTTTCACA	15904	TGAGGACTAGAAAGAGGCACTGAT	26888	CTCACAGGGCCATTCTATTACA	37872
4247	ACCGAGGTTTAAAGAAAGGCAAGT	15905	CATGAAGTGCTACTACGACTCTTAAC	26889	CCCAGGCCTTACCAGGTTTA	37873
4248	AAGGCAGGAATGTTGCAGCTA	15906	GTGGACAAACCGTCTCAGATT	26890	GCCTGTTAATACTCCAGTGAGGAGAAG	37874
4249	GCCGAGAAATGCGGCCAAGA	15907	CGCCGGAGTGTCCACTGAT	26891	CACAACCTGAGTGCCGAGAA	37875
4250	AGGAGGGGTACAGATGCCCAAA	15908	CTCTCTGCTGCACATCTTTCT	26892	TTCTCTCCAGGAGGGGTACA	37876
4251	CCCCGCTGTTTCCCTTCATT	15909	TCAGTCCCTGAGGCATGTTTG	26893	TCAGGCACCCGCTGTTT	37877
4252	ACACTGTCTTGAATCCTTTGTT	15910	TTGAGGATGCGTGGGATGTAG	26894	GGCCAAAAGGTGAAACACTGTCCTTGA	37878
4253	GGTGACTAAGCAGCAATCCCTTTAC	15911	TGGGCTCGTCAGGCCTTTAT	26895	CTTGCCAAAGCAAATTGGTGACT	37879
4254	GTGTCTTACTTTCAGGAAGGAATGTTCA	15912	CAGCAGCAACCATGCTGCAAA	26896	CCAAGTTATGAGGTGTCCTACTTC	37880
4255	GTTGCCAGCAGCTCAAGCTTTT	15913	ACAGCGGAGAAGGTGGTGAA	26897	GCATGCTGCCCTACTTGCTA	37881
4256	ATGCCATGGAGACGCATGT	15914	GTCCCATGGATGAGTGGCTTTG	26898	CCCAGTGGCTTCCACAAGTGA	37882
4257	GCCCAGAACCCACTGAAATTTATTC	15915	AGGCTAGGCAGGCTTAGGATTG	26899	GGACAACAGGACAGCCTCTCT	37883
4258	GAGGGGTTGATGAGAGCAAAGT	15916	CTCGCAGAGCAGAACCTCAT	26900	TCAGCAGTGTGAGGGGTGATG	37884
4259	GCCGGCATTAAGGTCCATATCTAAGT	15917	AGCTCAGGGAGGCGGAAGTATT	26901	TGAGTACAGTGCCGGCATT	37885
4260	CTGTGCAACATCAAGGATTAGAAG	15918	CCCACTAGGCCACCTCCAT	26902	CAGTGATAGTCTTCTGTGCAA	37886
4261	CAGCAAGCTCAGCTGGGGAAAA	15919	GACACAGATCTCTGGTAATCAGAGCAA	26903	TGTGTTCTCAGTGTCTGGGTAAG	37887
4262	CATGTCTCTGGGAAGTTGCATGT	15920	CCAACAGCAGGTAGGCAATG	26904	CCAGGTACTCCATGCCATAGACA	37888
4263	CTCTGCAAAACCCAGGCAGTAT	15921	GTACCACTCAGACCAGGAAACA	26905	GGGGAACACTCAGGCTTGTGAGA	37889
4264	AGGAGGTTGTGAGGCAGACT	15922	CTCCCCACTTCTGCTCTCTGA	26906	GAGGATAAATGGAAAGAGGAGGTT	37890
4265	TCTGCCCTTCGATAGACCTT	15923	AGATAGCAATGCTGCAACGTAAGA	26907	GTGACTCATTCCAGGTGTAGAGGAT	37891
4266	CACCTTGATTGGCAGGTGACT	15924	GTGCAAGTTGCTGTTGCTCACT	26908	AAAAGTAGGGCAGTCACTTGATT	37892
4267	CAGTGCCTTAGGCCCTGAGA	15925	TCAGGAACCGTGACTCTTTTCA	26909	ACGTGCAAGCAGTCCGTTAG	37893
4268	GCTCTCCACATTTGATGGCTTCA	15926	GCTGCCATCTTGCCATTTGTA	26910	CCTGGCTTGTGCTTCCAGATTG	37894
4269	GGCATGGTGACCAATGGGTTGT	15927	CAGTCCCCACAGCCTTATTGT	26911	CCTGCTTCACTCTGTGGCATA	37895
4270	GCTCCTCTCATCTTTCGGTATCA	15928	CCACGCGAGCAGCTATTATGT	26912	GGGAAAAACATGTACAGCTCCTCTCA	37896
4271	GGCCTCAGGCTAAGTTCTTTCT	15929	TGTCTGTCCCGGCAACCATAG	26913	TGGAACAGGCCTCAGGCTAA	37897
4272	ACAGCAGTGTGCCACCAT	15930	GCTCTCCATTATGCCGTTTATAGTGA	26914	GCACCATAGGACAGCAGTGT	37898
4273	CTGTGTTAACCGTGTGATGACTCT	15931	CCCCCTTCCATCTGTGCTCTT	26915	GCCTAACTCTTCCCTGTTCTGTGT	37899
4274	CCATCAAGATGGCTCTCGCATTT	15932	GGAGCCCAGACCCCAACAAG	26916	TCCCGCTGTCCCCATCAAGA	37900
4275	CCACTCTGTCTGAAACGTGTTACT	15933	CACCACACCCAGCCTCTGT	26917	TGGGCTAATCCACTCTGTCTGA	37901
4276	GGGCTTGAAATGCAATATCCCTTTCTGA	15934	CCCTAGGGGCTGCAAGGTTAC	26918	CAAGCCAACCTCAGGCTTGAA	37902
4277	CCTCAGCAATTCACAAGGAGACTA	15935	TCCTGCTTCAGCCGCCAAT	26919	GGTGACTGTGTTCTCTCTCACGAA	37903
4278	GGCTTAGGTCAATGGCCATCAAGA	15936	TGTCCTCAGCATCGGATCA	26920	GCCTCCTGAGGCTTAGGTCAATG	37904
4279	CATTACGACCCACACACATT	15937	GCACTGTCTGTCTCTGGTTGAA	26921	AAGCCATCCCCAGCCACATT	37905
4280	TGGGGTCAGGGGAATGTGGAT	15938	GGTCCAGGGATCTGGACACA	26922	GGAGAAATGGGACGACAGGAGAT	37906
4281	CTCTCCCTGTGGGTTGTGCTT	15939	GCTGCACACCACTGACCAAT	26923	CCCCAGCACCACTTATTGT	37907
4282	CCCGTGTTCCTCCCTTCAGT	15940	GAGGGAAGGAGCGCATGTATAAG	26924	TCTCCGGCCGTCCAGCTTT	37908
4283	GCAGGTGGCGTTAGAGCACAT	15941	GCCCTGTAAACAGTAGGCCAAAGT	26925	GTTCAGCTCCTAAATGGCATCA	37909
4284	ACCAGCTGCCAAAACATTAGGAT	15942	AGAGAGAGCCTCTTTCCCTTAGA	26926	GGGAAGAACACACAGCTGCCAAA	37910
4285	AGTTTGGAAGCTTCTGGGATACA	15943	CAAAGCATGCCACTACTGTGTGT	26927	GGATGCCCTAGGTGAGTTTGAA	37911
4286	CAGAATCACCACGTAAGGCAGAT	15944	GTCCCTGTGAACCTCTGATCACT	26928	CCCCACAAAACCTGGCACTGAGA	37912
4287	TGGGTGCCGCACATCAAG	15945	ACAGGGCCTTGGTCTTGCTT	26929	GGGGCTGTGGTTTCAGAATCAGT	37913

4288	CCATGTACTGAGAGCCTGACCTAA	15946	TGCAGTCTGAACAGCATGGAT	26930	AGAACAGGGGAGACAGTGAGAA	37914
4289	AGGACCTTGAAGAGCCACAA	15947	CCAGGCCCACTCAAAGCACAAA	26931	AAGACCAGCAGAGGACCTGGAA	37915
4290	GAACCCAAGAGAGACATTAGCAACA	15948	TTCCATGCCTGCATAGTGCTT	26932	TGCCCTATGCTAGAACCCAAGA	37916
4291	TCTGCACTTGGGGTGGAGATGT	15949	CTGAGCTGCCTCTTAACCAACAAG	26933	GCGGGAACCATGCATTCTCT	37917
4292	GCCTGGGCCAGCTGTTAAGAT	15950	TCCCACCAGGTCCTCTGAGAT	26934	GCCTGTTGGATGGTCATAGACACTAC	37918
4293	CTACACTGCTCGCTCTGAAAAATG	15951	CACCTCTGCTCTTTGGTAGTGGAT	26935	GTACAGGGGATTGAAGATACTACACT	37919
4294	AAGCCTGAACGGAGCCCTAA	15952	GTCCATCTCCTTGGGAGTGATG	26936	TTCTGAGCGGAAGCCTGAAC	37920
4295	GGAGGCTGTAAAGCAAACCAATC	15953	GCCCAGGGGTTCTGGGACTT	26937	CACCAGTCAAGGAGGCTGTAAG	37921
4296	CTACCAGCAGTTTCATGTTTCAGA	15954	GTTCTCTCTGCCCATGCATTA	26938	GTACAGCTTCTACCAGCAGTTCA	37922
4297	GCTTTTGCACTTGGCTCCTTGT	15955	TCAATGCGCTCCCTGGTATTT	26939	GGTTGTACACTTGCTTTTGCACTTG	37923
4298	AAGCTGGGTGGCCTCTGATAG	15956	GGCAGACTTTATTTCCCATTTGCTCTAC	26940	GACACAAGAACTGGGAATGGAGGAA	37924
4299	TGAGGACCCGACTCCTTGATAG	15957	AGATGCTGGCAAGGAAGGAAAT	26941	GTCAGATGTTGCTTTCACACTCCTA	37925
4300	CTCTCCCAAAGCAGTGGCTGTT	15958	AGCGGCTCAGGCACAAAGAA	26942	TCAGCTAGCCTCTCCCAA	37926
4301	TCTGCGAGAATTAGCAAGGGATT	15959	AGCAAGAGCACAGGGTGGAA	26943	AGAGCTTGGATCTGCGAAGATTAG	37927
4302	GGGTCCCTGGGTGCAATTTA	15960	TTGCCACCAATATCAGGAGTGATAG	26944	ACAACCACAGAAGGATGTCAACT	37928
4303	GGCCTCCAAGCTCTGAAGCAT	15961	AGGCTCGGGAGACCGGAAA	26945	GGATAGGATGTGGGCGAAATCTTAC	37929
4304	GGACTGTGACCCACCAAGAGAT	15962	AGAGCGTCAGTCCGAGGTT	26946	GCTTTCTCTAGGGTTGGACTGTGA	37930
4305	AGCGCCTCTGCATGCTTTTC	15963	AAGGCGCACTTAGGGCAGAGA	26947	CGGTGTCCTTAGGCTGAGATAAC	37931
4306	CTTGGCCTGAAAGGAAGATACA	15964	TGGCTGCACAACCCAGTT	26948	GCACAACCTTATCTTGGCCCTGAA	37932
4307	TGAGGAACTGTTGGAGGCAAAT	15965	AGCTTCTGGAATCTACATTGTGT	26949	GGCCAGCTCTATGAGGAACGTGTG	37933
4308	CTGGCCCTGTGAGCTTGCTAAG	15966	CAATGCCAGTTGCTCTCACA	26950	GTCTCAATTCTCTGGCCCTTGT	37934
4309	GGCTTCTCACACAAAGCCTTCA	15967	AGCATCTGGTGGTGTTCGAT	26951	CCCTAACAGGCTTCTCACACA	37935
4310	GCAAGCAAGGGAAGGGCATGA	15968	GCAGCCGAGGCACTTCACTTA	26952	GAGGGATGTGAGGAAGCCTTTAC	37936
4311	TCTGGTAGGACTTCGTAACGTAAAG	15969	TCTGGGCCACCTGATGGTAT	26953	TCCCGTGGTCATATTCAGAGAA	37937
4312	GGTGATCAGTCCTCAAAACCTCAAG	15970	GGCCTTTGGCCACAGACTGA	26954	CCAGTGGTGATCAGTCCTCAA	37938
4313	CCAAATCCATCACTTGCTCTGCAT	15971	GCCCAGAGAAATGGAGCACAT	26955	GGGGAGGAGACCCAATCCAAATC	37939
4314	GCTGAAGAGTGGGGTTTCAGTT	15972	CCCAAACCAATTTCCCTATGCCTTA	26956	GACACTGGGGACAAATAGGCTGAA	37940
4315	CGTGGAGAGAACGCCACCAT	15973	GCTGTCTCTGTGCTCACTAGGAT	26957	CAGCAACTGCGTGGAGAGAA	37941
4316	CCACCATCTTGCTCTGTTTTCT	15974	GGTGTAAGGAGCAATGGGATGT	26958	TTCAGGGACCTCCACCATCTTG	37942
4317	CCCAGAAAGGTGACTCCAGAAAC	15975	GGGTGAAAACGCACCCAACA	26959	AGGCAAAGTCCAACCCAGAAG	37943
4318	CTCTGTCTCATCTCACTGTTTATCTT	15976	GGTGTGGTCAATGGTGTGAGA	26960	CACCGCCACATGCAATCATC	37944
4319	CAGCCTTTACCCCTGTGACTCT	15977	TGCCGGGCAATCCAGGAGAGA	26961	CCTCACTTCTAAGAGTAGCAGCCTTTC	37945
4320	CCTTGTGGAACACAGAGACTCAT	15978	GTGTGCCTCGCCTCTTCT	26962	CGCAGGCTTGTGGAACA	37946
4321	CGCAGACACCTGCAATG	15979	CCAGCTTTGCTCTTCATAACAGCTT	26963	CCACCAAGGTACGCACAGACA	37947
4322	GTGCCCTATCTTCCAACCTTCTGT	15980	GAGTGATAGCACTGAGCCAGTAAA	26964	GATACAAGAACTGTGCGCTATCT	37948
4323	ACACCACTGTGGATCTGGAAGA	15981	GCTCCGGGTGCAGGAATCAA	26965	GCAGTAATGCCTCTGAATACACCACTGT	37949
4324	AACCACTGCTGCCTCTTTT	15982	AAATGCAACCTATGCCAGGTACT	26966	GACATTTCTGGGCTATGTGGTCGAT	37950
4325	GGCTGCCTTGGAAATCTCTCT	15983	AGTCACCTCCAGCTATGTTTGAATAC	26967	AACTTGCCCTTGGCGTGCAT	37951
4326	ACGTACCTAAACCCACTGCTAGA	15984	TGAGGCTGCGTGCTCTGA	26968	CCCAGGTAAGTACTGATACTGAGA	37952
4327	AGACTGCTGCTGAGTTTTTGAGT	15985	CCTTGTGCTAGACATGAAGCAAGA	26969	TTCTAAGCTCCTAGAGGGAAGACT	37953
4328	GTGAGCTGGATTGTGTCTATGGTA	15986	CCCATAGTCCCACTCTCCCTGAAT	26970	AGAATAGTGTGAGCTGGATTGTGT	37954
4329	GGCCACATTTCCCAACAATATTCT	15987	AGGCAGGCTCTCGCATCT	26971	CGTGAAGTCTTGGCCACAT	37955
4330	GTTAGCACGAGGGGATCTTGTT	15988	CGACCCCTGCTGCAACAAATGA	26972	GGTCCCCTTGACAAACAGCAAAG	37956
4331	GGTGTAAGCAAGGACAAACAGTTC	15989	TGACTGCTTTTCCAAAACCTGGTACT	26973	CTGTAAGTTTTCCAATGGTGGTGTA	37957
4332	AGGCCACCCATGTTTTCACA	15990	AAGGGCCACCTGTGAGAAGT	26974	GCTGCTCCCATGAAATCCACTCT	37958
4333	GTGCCGCTGAGGGACTGATA	15991	GTGGCTGTGTTCTATGTGTATGAGA	26975	GGGACAGCGACAGTCTGATG	37959
4334	CGGTAGACGCTGTGATGTGTGA	15992	GGCTCATCGCATGCTCTTGATT	26976	TGGGGTGGGAGACGGTAGA	37960
4335	CCATGTGGGACCACTGCTT	15993	CAATCTCAAGCCCTGGGCAAAG	26977	TGGAAGAGGGCGATACCATGT	37961
4336	GAAACCAACACAGCAGTTTCAGT	15994	ACCCTGTAGCAGGAGCTGTGT	26978	CATCTGAGTAGAGAAGCACCAACA	37962
4337	CTCAAGGGTAGGACTGTCTGTGA	15995	TGGCTTATATGGCTCACCTATCT	26979	GTGTATTGGCAGGCTTGATCTCTCA	37963
4338	CCAGTGGACACACTGCTTCTTG	15996	AGGACTGGGGTGGTGAAGGAA	26980	CCCTTCATAATCCAGTGGACACA	37964
4339	CTCTCAAAGCGGTGATGGTT	15997	GGGTGCAGGGAATGCACAGAT	26981	CCAGACCACGAGCTCCTCAA	37965
4340	CCTGAGCCACAAAGAGCCTTAC	15998	CCTCAAAATGAGGGCAGGGACATTC	26982	TCCAGGGCTGAGCCACAAA	37966
4341	CAGCCCCTCCATTTTGCTGAT	15999	TGTCGTATCCAGGGTTGTATTTT	26983	AGAGTCATCCAGCCCCTCCAT	37967
4342	GGCAGGAATTGTGAGCTGTAGT	16000	GGGGCCAGAGAGCTTTCACT	26984	GTGGTCACTTGGCAGGAATTG	37968
4343	GGACGCAAGGGAAGCTGTGA	16001	CCATCTGCAGCGACAGAGAACCTT	26985	ACCAGGCTGTGGGACAGACA	37969
4344	GGCTTCTTTGAAACTCCCTGAGA	16002	GGAAACAGACGGGCGTCCATA	26986	CAAAAGCAGGGCTTCTTTGAA	37970
4345	CAGTGGCACAAATCATAGTCCCTTT	16003	AGGATCACCTGAGCCTGGGATT	26987	GGGGTGCAGTGGCACAAATCATA	37971
4346	CTGGCTAAACCGATAGGTTCTTCT	16004	CACTGGGCTGCTCATAGAATACA	26988	GTGGGGCTGGCTAAACCGATA	37972
4347	CAGCAGCATTCACGACATCCAT	16005	TGGCCACGCCAGAAAACT	26989	AGGGCCCTTGTTCACACACA	37973
4348	CAGTGAATGCGGTGTTGATTGAAGA	16006	GTGAGCTCTCAGATGTTTCTCT	26990	TCCCACTGAATGCGGTGTT	37974
4349	GGCTGGGGTATACAGAAGGCATGA	16007	GAGACCGCTGCCACAGTCA	26991	GTCAGCTTGCAAAGCTCCTTTAGA	37975
4350	GCTCTCTCCCAACACTGCTTTC	16008	ACCAAAACCCCTTAGGCCACTA	26992	TGCCACATGCTCTCTCCCAAC	37976
4351	CCCTGTTTGTCTTGGCTCTATGAA	16009	CATTGATCAGGGTACTGAAGTGGTA	26993	CTGTTAGGGCCCTGTTTGTCTTG	37977
4352	AGGAAGACCTGCATTTACATTGA	16010	GGAGACAGAGCTCCCGATTG	26994	TGAGGAAGGAAGACCTGCAT	37978

4353	AGTCAAGCTGGGAGATGAGGATA	16011	CAAGCAGATAGGAGGCGATCAGA	26995	GGACTTCCCCGCAATACGAAAG	37979
4354	CAGTGTCTACTGCTCCAGTGCTT	16012	GCTCATCACACTCACCCAGCTA	26996	TCCATCTTCTCTGTACAGTGCTACT	37980
4355	GGGAGAGGGTTGGACTCAAAAG	16013	TGAGGGTGGCAGCGTCAT	26997	AGCCCTCCTCGGACCCATGT	37981
4356	GCGTAGTGTGTGTGAAAGACTCAGAT	16014	GCACAGCACTCTGCCCTTCA	26998	GAGAGGCTGTTAGAAAGCGTAGT	37982
4357	CCATGGCAGCTTACTCCCAATC	16015	GGTCTGGGCCTTAAGAGGCATTGA	26999	GCAGTAGTCCAGCCTGAGTTTC	37983
4358	AGCCACAGCCTTGGTCTCACA	16016	TGCCCTGGGGCGAGGTTATTA	27000	TGCCGGCCTCAGCCTCAGTA	37984
4359	CACCACACATCTCCTAAGCATGTA	16017	CACCAGGACAAGTGCTGTCT	27001	CCCCAGCCATAGTCTCTGATTTC	37985
4360	GTAGCTGAGACATGGTGTCCAAC	16018	GGAGCATCGCTCAGCTCTTCTT	27002	CCTGGTCTCTCAGCCTTAGTCA	37986
4361	CCTCCTGAAGACAGAGTCCAAC	16019	CGCCTTGACAGCAGGAAGT	27003	AGTGAAGACAAAGTCTCCTGAAG	37987
4362	CCCTGGAAACATAAATGGCTGCTA	16020	ATGCAACTTCCCTGAAAGGAGTAA	27004	GGCAAGGAATTATACTTAGGCCCTGGAA	37988
4363	TGACTTCCTGGCCAGTCCAT	16021	CTGCCCTTGCTGGATGGCAAAATG	27005	TCCCAGGGCACACTATGACT	37989
4364	CTGTCTGACCAGACCTCAGACT	16022	CATTGGGAGCCATGGTGGTA	27006	ATTGACCCCATGTCTGTCTGA	37990
4365	GGCCAGAGAACATGTCTGTATC	16023	GGGCTAGGAGCCCAATATCATTT	27007	TGACGAGGCCAGAGAACAT	37991
4366	GCCTTATCTTGCCTCTTTG	16024	CCCATCTCCCTTCCCATCTGTCT	27008	GCCCCATCCCTTTGCCCTATCTTC	37992
4367	GCTGAGAGGTTTTACACGGATAC	16025	CAGGAAGCTCCACACAACACA	27009	GTGTACACGCTGAGAGGTT	37993
4368	CCCAACTTGTCAACTCTAAGTGTCT	16026	CAGTCCCTCCAGCCAAAG	27010	CCTGCAACAAGAGATAAGCCCACT	37994
4369	TGAGGGTGTCCAGGCAGTTTG	16027	GTACCCGACACCTGTGGAT	27011	TGAGCCACTGTGCTGGATA	37995
4370	GCTTAGCCAGTCTCTTATTCTACAAC	16028	ACAAGAGGCCCTAGAAATCCAAGT	27012	CAGTTTAGATATGCTTAGCCATCCTTCA	37996
4371	GGCCTTTGGCCTTCTCATCAT	16029	GGCGGACTCCACCTGAAGA	27013	TCACCTCACCTTGGCCTTTG	37997
4372	AGGCCTTTGGTGTCTGGAA	16030	CCATTCTCGTGGTCCATTGTCT	27014	CAAACACATGCTTCTCTCAAAACAG	37998
4373	GCATGGGGATATAACGTGTTCAAGTTTG	16031	GATCAGGTTGCAGTCTCAGCAT	27015	GAGGATACTGAGGCATGGGGATA	37999
4374	CTCTCAAAGCCACTGCTTTGAAA	16032	GGCAGTAGAGAAGGGTCTAGGAT	27016	GGCATGGGGAGGAAGTACACAT	38000
4375	GCCTTGTGGGTCAAAGAAAGCAT	16033	TCACCAGATGGCATTGTGCTTCA	27017	TGAAAAGGCCTTGTGGGTCAA	38001
4376	CCAGGCTGGAATCCCTGTGT	16034	ACTGAACTACCTGGACATCTGTTTT	27018	AACTACTGCCAGGCTGGAA	38002
4377	GGCAGACGAAAATACAGCAAAAC	16035	GCAGGCACACGGAATGCAAA	27019	GAATGCTTCATGCGACACGAAAA	38003
4378	GGCAGACTGAAAAGGAGATACAGA	16036	ACAGCCCTCCCGGCTGACTT	27020	CCAGCTGTCTATTTAGGGCAGACT	38004
4379	CCCTGTGTCTTCTGAAGCTGATG	16037	CAGTGGTGACCTGTGGGAAAG	27021	CCCTGAAGCCCTGTGCTTCT	38005
4380	GTCTCTTTTCCCTAGAAAAGGTTACT	16038	CCCGACCCCTGATACTTCAAA	27022	GGAGTTTCTGTCTCTTTTCCCTAGAA	38006
4381	GGCAGGCAGCTTTTCAAAATGAAGT	16039	GAGGCAGTCTTGCCATAGGAT	27023	CTTGATCTGGCAGGCAGCTT	38007
4382	CACACGTGATTTATGGGAGACAAG	16040	TGCCATCTTCTTATGTCAGTTG	27024	ACAGAACCTTTTACACGTGATT	38008
4383	CAGGTCACTTCTCCAGGTCCTT	16041	GCACAGGCACATCACAGTTG	27025	GCCTGTATGATATTACAGTCACTTCTTC	38009
4384	GGGAGAAAAGGACAGGCTAATTG	16042	GGAGACCCCACTGTGAACAAGA	27026	GCCAACCACTTCTTGGGAGAA	38010
4385	GGGGACTCAGGCTTCTGTGA	16043	TCATGCTGGGACCAAAATTCTAAG	27027	GAAAGCAGCCAGGATTACAACCTA	38011
4386	GTGTACCCTCGGCTATGTTTTACT	16044	GCAGTGCCTCTGAGTGTTG	27028	TCCTGCTGTCCCCAGTGTA	38012
4387	AGAGAGGCCAGCAGCTCCAA	16045	TCCCTGGCTCCGTGGTGCTT	27029	GAGAGGGTGAGACGGTAGAAAC	38013
4388	ACAAAAGCCTCCTCGGGTACT	16046	TGCCGTGTTTGAAGCACTA	27030	CACCTGAAGCATTTTTTCATCTGTTCA	38014
4389	GGCCACACAGCATTTAGGTGT	16047	AGGTTACAACCTTGAAAACCAAAAC	27031	AGTGGCGCCACCAAGCATT	38015
4390	CAGCTCTGCCAAAAGGATCTCTCTA	16048	GGGAGGGATGGGGTCGAAATC	27032	GACATCTTCTACAGCTCTGCCAAA	38016
4391	GCTTGCAATGCCCTCCCTTAT	16049	AAGGGTGGCGGGGTTTCAGA	27033	CTGCACTGCCCTGTGCTT	38017
4392	CCCACAACCCAGGTTCTGA	16050	GCTGATTAGTGACTCTGTCCAA	27034	ACCAGTGGCTTCCCCACAACA	38018
4393	TGGTGGGCTCAGTAAGTTCAAAG	16051	TGGCAGCACTGGGCACAT	27035	GGACTTCTGTGGGATGAGCATT	38019
4394	CCACACCTCTCCTTGGATTCTAAC	16052	CTCTGGAGCAGACGCTTCAT	27036	AGCCCTTTCACACCTCTCCTT	38020
4395	TGGTAGGCCCCAGAAAAGCTA	16053	GGGACCTGAGCCTCTGTTTTGA	27037	TGCCCTCTGCAGGAATGGTA	38021
4396	CTCAAGCTGCTAAGTGTTAGGTTTC	16054	CCACCACAACCACTCCAGTT	27038	GCAGCCAGGAGCAACTGTACTCA	38022
4397	GACCACAGGTTTCCATCTACATTACT	16055	TGCCCTGAGGTTTGCCTAGT	27039	CTCTTCTTAGACCACAGGTTTCCAT	38023
4398	CATCATGTGCGAGCTGCATTTTC	16056	GATTCTGAGCAGCAAGTGCTATG	27040	GTGCGAAAGACTGGAGCAATC	38024
4399	CACCAACTCTGCTTTCAGACAGAATC	16057	TGGAAGGGGCGAGGGAAT	27041	GGACAGCACCAACTCTGCTT	38025
4400	GGGCAACAGGAGATTAGTAGCTATG	16058	ACTGGGCTGATTCTGTCTACT	27042	AGCATTAAATGGGCAACAGGAGAT	38026
4401	AAGAACCTGGGCCCTTGATG	16059	GGCAGGCCTAACAGTTCAT	27043	GATAGTTGAGCAGAGAAACAGGAAGA	38027
4402	GGGACAATAAGGAGGAAGAGCAA	16060	ACGAGCTTTTGGCTGTGCAA	27044	TCATAGGCATCTGGAGGGACAATAA	38028
4403	ACCATGCTTCAGTGTGCAAGA	16061	CCATCCTGGTGATGTTTCTTTCA	27045	GCATGACGTGAGAAACCATGCTTCA	38029
4404	GGTAGGTGCGTAGAAACGTTCA	16062	GAGCCGAACAAGCTTTCTGT	27046	GTGGAACCCGATTCCCTTTGGTA	38030
4405	ACACCTGTGACTGGCTGAGT	16063	TGTGCGAGTGGGGAAGGTGTAA	27047	TGACCAACCAAAACACCTGTGA	38031
4406	CCCTGGTGCTAGTTTCTTACAACA	16064	GTGCTGTTTTCTCCCACTTCT	27048	GTGGTCTCCCTGGTGCTAGTTT	38032
4407	GTGGACCTGGATGACCTGTCTTG	16065	AAGCCCTGCCCACTCTGA	27049	CGAGACCCGATCCCTGAAAT	38033
4408	CGCATGTTTTCAGGCCACCTT	16066	GCTGCTTGGGAATGAGCTTCA	27050	ATAGCCGAGCCGCGCATGTTT	38034
4409	CAGAGCAGTTCAGGCTTCAACA	16067	AGATGCTCTGCTGGATGATGT	27051	GGTGGCAAAATGACCAGAGCAGTT	38035
4410	CGGGGTAAGTCTCAGGGAAGTGA	16068	CTCCCTGACAACGTCTGGAATG	27052	GGGCTCCGGGGTAAAGTCT	38036
4411	GGCACTTGGCATGTGTGATTT	16069	GCTCTATCACACTTGGACCTTGA	27053	TGCACAGGCACTGTGTTAG	38037
4412	CCAGGGAGAAGAAACCATCTT	16070	TGTAGGGTGGGGTGTAGAGATTT	27054	CACAGCCTTCCAGGGAGAAGAA	38038
4413	TCCAAGGGGCTTCAAGGTTTCT	16071	GCGTTGGTGCTCTCCTCAA	27055	CCATGAGAGTCCCACTCTGTCCAA	38039
4414	TACTGGGCTCAGGTGGAGTAAG	16072	GCACTGTGCTCCTGCTGTTT	27056	TGGGTGGGTGTGAGGACCAAT	38040
4415	AGGGGCTTCATGACCGGTTT	16073	TGCCAAGCCACACAGAAA	27057	GAGGATGAAATGATATAGAGGGGCTTAC	38041
4416	GGCAAAGTCTTACGAAGTGAGATG	16074	TCCCCATGCACACCCCTCTA	27058	CACCTCAGAGTAGAAGGCAAGTCTTAC	38042
4417	GCTAACTCCCCTAGACAGGAAAAAG	16075	AGGAAGGCAGATGGTGTCAAC	27059	CCCCAATGCTAACTCCCCTAGA	38043

4418	GCCAGTGCCCACTGAGGAA	16076	GGGCCTTGCCCTCCAGAAAAT	27060	GCCTCCACAATCCTCCAGGTA	38044
4419	GTCTACACACAGCGCTCAATAGT	16077	TTTCATTTCCTCCCTCGCTTATTCT	27061	GCACTAAGAAAGTTGCTTGCTGTCTAC	38045
4420	GGGAGAAGGCGCTCTATTCTGA	16078	AACTGTTCTCTGAGCCCTTT	27062	CCCAGCCATTCCCTCCAACAT	38046
4421	TCCCTCAAAACCCAGCTATTTGT	16079	TCCCAGCACAAATGCTGTCT	27063	GCATATCCCTTGACTGTTCCTCAAA	38047
4422	CACAGCCTGCTTTAGGAAGA	16080	GCCTTCAGTATGTCTTGCTGCTTG	27064	TGCCAGTAGGGAGTCACTGAGA	38048
4423	TTTGAGCCCAGGAGGTGAGTCT	16081	GGAGGGCAGTGGCACAAATCATA	27065	CCAAGGCAGCAGGATCATTTG	38049
4424	TCCCTACACACTCCCATGAAGA	16082	AAGGGTGGCACCGAAGTCAGA	27066	CTTCCGGTCTCCCTACACACT	38050
4425	ACCCAGACTGGCTCCAATTC	16083	GGCCAAGGTGGAAGGATTGCTTA	27067	CATAGATGGGGCATCACTGTGT	38051
4426	GTGGCCTCGAGGAAGCATAA	16084	AGGTGAAGCTGAGCCACTTG	27068	CCAGTAGACCCACCATGTCTGT	38052
4427	GTGCATGAGTTTCACATGTCTCTTT	16085	CTACCAAGTCTGTGTCCCAA	27069	GCAGAGAGTGCATGAGTTTCACA	38053
4428	TGTGGGGCTGTAGACACAA	16086	CCCACGCTGATTAAATGCTCTTTG	27070	GTGCGTGAGAATAGATGCTGACAT	38054
4429	GGGGTCAACTCCTATCACCTTTC	16087	GAGAGGCTTTGAGGCATTGAGA	27071	GGTGGTGGGGTCAACTCCTA	38055
4430	GTGGCAGGGTCTTTGTACTTC	16088	GGCAGTTGGGGAGGAAAGGTAT	27072	TAGCCTGACTGTGGGAGTGT	38056
4431	GGCAGAGACGCTACAGTAACGAA	16089	GCAAGGCTGGACCCAGGAATGT	27073	AGGCCCTGTTACTGGCAGAGA	38057
4432	GAGACCTTTCTTCTGCTTGA	16090	AGACAAAGTCCTCCCACTCT	27074	GCTGCACAGCTCGTAGCTCTAA	38058
4433	GAAACAGCACAAAGTGGGACAAAC	16091	ACACAGGCAGCGTTTGCTT	27075	TGCCTTCCACAGGGAGGAGAA	38059
4434	CTGTTTGAAGGTCTCTGGGTATGA	16092	ATTAAGCCCCATGGGTGGTATG	27076	CCAGGACTAAGGGAGTTGTCTGT	38060
4435	CACCATCAGAGCTGGGGTCTTT	16093	CAAAGTTCGGCCGCTCTCACT	27077	GCACCAGGCCACCATCAGA	38061
4436	GGATGTGAAAGCTGGAGCACTGT	16094	CCTCATCCAGAGATTGCAAGGTT	27078	GGTGACAGCAGAGGATGTGA	38062
4437	GACATCTGTGTGCTTGAAGGGAATGA	16095	CTACCTGCCTGCAGCTGTAGATG	27079	GGGTGGACATCTGTGTGCTTGT	38063
4438	TCCAAGTTCACTGCGCAAGTTCTATC	16096	AGCCTGCTGATGCAGGAGTTG	27080	GGGATTCAAGTCCACATCTTTTGATTCT	38064
4439	TGCCTTGGCCCTTGCCCTTT	16097	GCGAGACTGATTACAGACTGAGCTA	27081	ACCAAGATCCACTCCAGCAAAA	38065
4440	CAAAGGGAAGACACGAACTCCTT	16098	GCGCTGAAGTGTTCATTCTGT	27082	CACAGAGCCCAAGGGAAGACA	38066
4441	CGATGTGGCGGTATACAGTGTG	16099	TGGCCGAGGCTGTGAAGGTA	27083	TGCAGTCGATGTGGCGGTAT	38067
4442	CGCTTCACTGGCCAGAACTTG	16100	CCAGCTCCCTTGTGTTAAA	27084	TCAGTTTGTCTACGCTTCACT	38068
4443	GCATTTGTTCATGTGCGTGTGT	16101	GGCATGCCTTTCCACCTAGT	27085	GCTCTATGTGCTAGTGTGTGCAT	38069
4444	AGGGATAGAATTGCTGACCATAGATA	16102	AGCTTCCACTCCCTCCTTCT	27086	GCACAGTCAGTTGTCAAGGATAG	38070
4445	CGAGCCGGACAGCAGTTCATTA	16103	GCTCCCGAGGCTGTGAGTAA	27087	GCAACACACACCTACAGGAGACA	38071
4446	CGTGAAGTCCCTCCTCAGA	16104	GGGTCCACAGTGTCCGTGTTT	27088	AGAGGAGGCTCCAGCGTGAA	38072
4447	GCAGCTGAGGAGTTCAGGGTTCAA	16105	AGCCCCAGCTCTCCATGT	27089	TCTCTGGGCAGCTGAGGAGTT	38073
4448	CAGGCTTGGAAGTCAAGGACTT	16106	TCGACTGCTGTGTGCCATCT	27090	CAGCCACAGGCTTGGAAGT	38074
4449	CCCACATGGGAGACGAACTCTAA	16107	GGTGAAGGCAAGTCTCCTT	27091	GGTTCCTGGTGAGGGAGATGT	38075
4450	GCTGTGTTTTATGCTCCCTAAAC	16108	ACAGCCCTGCTGTGCTT	27092	CACCCCTGACTTAGCTGTGGTT	38076
4451	ACCGCTGGTTCCTGATTCT	16109	CACACACAGTCTAGGCCATAC	27093	TTGCTCACTACCGCTGGTT	38077
4452	CAGGGGAGGCTAGAGTTAAGTTC	16110	TCTGGGTGCGTAACCTCAT	27094	TGCATAGACAGGGGAGGCTAGA	38078
4453	GGGGCTCTCCTCTCGATGTA	16111	GCTGGCGGAGCAGTTCGTA	27095	CGTCCACGAAGCCCCAGTA	38079
4454	CGGGCCACTGGAGAAAGAATAG	16112	AGGCAGCCTGGCCTTACA	27096	TGGCCCCACTACTTCTCTGAAC	38080
4455	ATGGGTGGCTTCGGCTCAA	16113	AGGCTTGGCAAGGCCATCA	27097	GAGTGTGGCAGTCGGTACTAAG	38081
4456	GCCAAGTTTTTCAGAGAGCAGCAGAT	16114	AGTCGTGGGCTGTGTGCAT	27098	TCTGATGGCCAAGTTTTTCAGAGA	38082
4457	CCCTCGCTCACCTTCTCTTC	16115	TGCCTGTTATGCACAAGCACTA	27099	CTCCAGGAAGCATCTGTTGACT	38083
4458	TGACACTGACCGGTGTGGAT	16116	GGGGCAGCTGGAGACTGGAT	27100	TGGGGACTTGGTGCCACTGA	38084
4459	CCTATCCCAATTCCTACAGCCATT	16117	AGGGAAATGGGGAATATTGAATGCTT	27101	TCTGGATGACGAAGCCCTATC	38085
4460	TGGCTGGAAGCTAATTTTGGTTTG	16118	GGGTGGGGCTCAGTGTGTA	27102	CAAGCAGCTCTTGGCTGGAA	38086
4461	GAGGCCACTACGGTATTCAAAC	16119	GCAGAGCAGGGTGAAACAGT	27103	CATGTTACCCAGAGGCCACCTA	38087
4462	GACTCCAGAACAAGGGTCTTG	16120	TGCCCAGGCTTCTTGGTGTT	27104	GGAGGGGACAATTGCTGTGTGA	38088
4463	AGAAGCCTCCCTCCCTCTGT	16121	AGGAGATGGGAGCAAGGAT	27105	CCTTCCCTAAAGTCCAGGAGAGAAAG	38089
4464	GTGGCTAGAGCTTGTAGCCTATG	16122	GTGTCTGACAGGTCAAGTGTCT	27106	TGTGTCCAGTGGCTAGAGCTT	38090
4465	CCAGCTGGCCTGACACTCAA	16123	CCTAGGCCACTGCAGCAA	27107	CGGATGTGCAGGTGGAATCT	38091
4466	GTCTGGCTGGCTAAAGGTTGT	16124	GACAAGCCTGGGGAAGTGT	27108	CCCACAGAGCTCGCCAGAAA	38092
4467	GGGCTTCCCAACACACAATC	16125	ACGCAGCACCCAGAGGTAAT	27109	AGGTGACTAGGGCTTCCCAA	38093
4468	ACAACAGATTACAGGAGCACAGTTA	16126	TGTGGGCCACCTCTTTTGAA	27110	CAGGTTTGGACTTGACTCAACAGA	38094
4469	GGTGGATGAATGCCGTGCAAC	16127	GCCTTTTGTGCAAGTGGTCAGCAT	27111	TGGCTGAGGAGGTGGATGAATG	38095
4470	TGTGGGGCCCTGGAGCTACT	16128	TTAGGCCCCACTGCAGATCA	27112	CCGAAGGCCTCTGGGCTTTA	38096
4471	GCGTCCGTGTCAATAATTTCTTG	16129	GGGGAACCAACCAAGGTTCTTT	27113	ACATGTGCGTCCGTGTCACT	38097
4472	TGCCCCCTCTGAAACACATTC	16130	AGTGGCACTTCCACCTGTGA	27114	TCCAGTTGCCCTCTCTGAA	38098
4473	CATGGCTGGAATGAGTCAAGTGCTA	16131	AGACCTCAGAACGGAAGTTGTC	27115	AGGGATATCATGGCTGGAATGAGT	38099
4474	TGACTCTGGGAAGCTAGACTTAAA	16132	AGACGGCCAGAAGTCACTGT	27116	AGGCTGGCACAGGTATGACT	38100
4475	TCTGATTATGAACCCCAAGGCTGT	16133	CACGAGCACAGGCATCA	27117	GCGAGGCTGGGAGTATCTGATTA	38101
4476	CTCCCTGTCTGCATCTTCTTAT	16134	GGGCAAAGCTCTTGAGACCAGAA	27118	GTTCATCTTCTCTCTGTCT	38102
4477	TGAGTGACCATCCTGACAAAG	16135	AGTGAACGCTGTGGGTTGTT	27119	TGGTGGATGCAGCTGGTATG	38103
4478	GAAGTCTCCATGTAGCCACTGAAT	16136	GCAGAGCTGGGTTGTTTTTG	27120	CCACAGAAACACTTCTCGTGAA	38104
4479	GCTCTGTGCTTTGGGAGACTGT	16137	AGTGTTCGCTTGGCTGGTA	27121	GATATGCTGAGCTCTGTGCTTTG	38105
4480	GCCAGGAAGCATCCATCAGACA	16138	GAGAGAACGGACAACCTTTCCCAACA	27122	GACTCGATCTAGCCAGGAAGCAT	38106
4481	GCCACTGGAACCTGCATGAATGA	16139	GCAGCTCCACAGAGAACAT	27123	TGCTGTGTGCCACTGGAAA	38107
4482	GCGAGGACTAGCTTGCTCTTT	16140	CCTGCAGCCAAGTGCTTACTCT	27124	TCAAGAGGAAAGGCAGGACTA	38108

4483	ACTGCTGTGTGCTAGCACTT	16141	TTGAGCAGCTACCATATTACACA	27125	GGCAAGAACCCCTGTGTGTTTCTTC	38109
4484	ACAAGGCATCGCCACACCAT	16142	CACATGCACACACACTGGATAGA	27126	AGGCTTGACTTGGGGAGGACAA	38110
4485	GCCTACATTCCTCCATCAGCTT	16143	ATTTTGGCCAGAACGTACAGT	27127	GCTCTTCTAGCTTAGGCCATACATTC	38111
4486	ACAATCCACCCCGGTCTTCT	16144	GCTCAGACCCCTTGTGCTTCTCT	27128	CGCAAAACAGCAGCTCTGAGAAA	38112
4487	GTAGCAACTCTGCAATAGTCTTTCCTT	16145	GAGACTGCATTGGCGTACTGA	27129	GGTACAAGGGGTGAACCATAAACAGT	38113
4488	CCTTTCACTGCTTGTGTGGGATA	16146	GCCACCTTTCCTCTGCAAGTT	27130	GCCATCATTTCTTTCCTGCTT	38114
4489	CGGCCTGCAGAAATCCACACTATT	16147	TGGCAGCAAGAGGACTGACA	27131	CAGAAATAGAATGTGAACCCAGGTAGT	38115
4490	GGCCTTAGTCATTGCGCCAAAC	16148	GGATAGGACAGTAGCCATGGAGTT	27132	GGACAACTAGCCTGGCCTTAGTCA	38116
4491	TGTGTGACCCCTTTCCTCAAAC	16149	GCTTTTGTAGGAGTAAGAAGGGAGAA	27133	CTGGTCTGGAATGTTCTGTGA	38117
4492	TGCAACTGGGAAGGCGAAAG	16150	GGACACCCGAGACCTGTGCTA	27134	CCTGGAAAACAGGTGAACCGATCT	38118
4493	GGCAATGGCACTACTGGTACA	16151	CCACCAGCTGCTTGGCATA	27135	CAGCCCAGCACACTGACAAT	38119
4494	GCCACAAGCTGTGAGCTGTCT	16152	CCTGAGCCTGGCCTGAGATG	27136	CGAGTGGTCTGTGAGCCACAA	38120
4495	TGGCGGGGATGGGGATCTCA	16153	GGTCCACGTCCGTGCCTTTATT	27137	TGCTGTCTACCTCCTTTCAGT	38121
4496	GGGACCCCTTCTCAACTTACTCTCT	16154	GGGAAAAGCACGTTTGTTCAGT	27138	GAACTCTGGGACCCCTCTCAAC	38122
4497	GCTCCTGGGAAGACATATGCAA	16155	GCTTCTCTTCTCTCCGAACA	27139	GAGAGAAGAGCTCTCTGGGAAGA	38123
4498	TTCTGGCTCCACTACTGTGTAC	16156	AGGCTCAGGGAGGTTAGGATAC	27140	GGGCTCAAATTTCTGGCTCCAATA	38124
4499	GGGAGACACTGAAAGCAAGACT	16157	CCATGTCCTGGCACTCTGTTT	27141	GTCACTGTAGTGGGAGACACTGAAA	38125
4500	ACAGGAAACCCAGAGAGTTGTAATAG	16158	ACTTTGGGATTCTGGAGGACAGA	27142	TGGGCCTGGCAGAACAGGAAA	38126
4501	GTGCCCTGTGTCAAAAAGCAA	16159	AAAATGCCTCTGCTTCTAGGATGA	27143	TGGCATGTGCCCTGTGTCA	38127
4502	GCCTGTCTCTTTCCAAGGCCTAA	16160	AACGTGACAGGAAGGACACTTT	27144	AGGCTGATGCCTGTCTCTTTC	38128
4503	TGCCCCAGATCTGTCCAATGA	16161	GCTACTTGGATAGGCCTTGTCTTG	27145	GGGAATAACCAACCCCATGGAGCAT	38129
4504	TTGAGCTGAGAGACAAACGCTTA	16162	ACCGTGCCAGCCTTGTT	27146	GCAGGGGTGGGTGTTTTGA	38130
4505	CCCAGAGCCACACGCTCAAA	16163	TGTGCAGCTGGCGTGAAT	27147	GCTCCAGATGCGCTCCTT	38131
4506	TGGTTGCCTTCCCAAATTCGTA	16164	AGGCCCACTTCTTGGGATT	27148	CCAGTTAGGTACTCTGTGGTCTGA	38132
4507	TGCCTTTTGTGCAAGAGCTAAC	16165	AAACACACTGGAAGCCTGAAGA	27149	GCTGAAGCCTAGGTTTGCCTTT	38133
4508	GTGAAGGGAAGGGGCAACTGT	16166	ACGCGGCAGGTGCCTAGGAT	27150	GGCTAGCAAACACCTACAGTTGTGA	38134
4509	CTGCAATCAGAGAACCAAGTCTAGA	16167	GGAGTCCACCTCACCGACTTAC	27151	CCCACGGTTCTGCAATCACA	38135
4510	CCCAGCTCCTTTCCCTCACAT	16168	TGGACAGCCTCTGCTGCAT	27152	ACATCCACTTCCCAGCTCCTT	38136
4511	GCTTGTCAACATGGCAGATCCTT	16169	TCAAATTCCTGCATAGGGCAACA	27153	GCCCTACTGCTTGTCAACAT	38137
4512	GGAAATGGAGCGTGTGTCTAT	16170	CCCTGGTGGGCACTTCAACATT	27154	CAGTACAAAAGCCTTTGGGGAAAT	38138
4513	CCCCTAATATGGAGAGCCAGAA	16171	TTCCCCAGCAGAGACGGTGAA	27155	CAGAAATGCCAGTCCCTTAAC	38139
4514	GCAGGACATTGCCAGGGCTTT	16172	TTTCCAGAAATCAGGCCACTTTG	27156	CGGAGGCATGATTGAGGACATTG	38140
4515	GTGGGTAAGCTGTGCTGTGTTG	16173	CCTCGGGTCCAGAGTCTGTTG	27157	AGCAGACAGAGCAGTGGGTAAG	38141
4516	AGGCACCTGAGGTGGGTTAG	16174	CTCACTGACAGGGACAAGAAGT	27158	CCTGGCTGGCAGCAGATCA	38142
4517	GGAGTGTGGCACCTGTTCA	16175	AGGCACCGCATACCTGAAAT	27159	TGGTGAGGGGTGGAGTGTG	38143
4518	GGGTGAACCAAGCTCCAAA	16176	TGCTGAGCTGATGGGTTGTAG	27160	TCCAAGTCTGCAGGGTGAAC	38144
4519	CAACAACACTGGCAGAGAATGTA	16177	GGGAACATGCTGGAAGGATTCTA	27161	TTGGCCTGCCAACCAACT	38145
4520	GGGAATGGAACCTAACCATGGAA	16178	ATGGTCCCCAGTCCCTCTT	27162	GGACAGTGTGGGAATGGAACCTCA	38146
4521	GGATTTCTCCGAGATGCATGTGA	16179	AGGCGCAGCCCTTCTCTCAA	27163	CCCGCATTTACGCGTGGATTTC	38147
4522	AACTGGCATGGTGAGCTGTATT	16180	GCTTTGAAGAGCGAGGTACA	27164	GTGCAGAGTTCACAGTGTCTAT	38148
4523	CTCCGTCACTCTGTCTGTAAAGT	16181	CCAAGAGGCAGGCATTACCAT	27165	TGGCTCCGTCACTCTGT	38149
4524	CAGGCAGTGACAACTCAGTCT	16182	GCTTTTTGGGGCATGCAGTT	27166	TACCAGGACAGGCAGTGCACA	38150
4525	CCTGGCCTTAGAGGCAGCAT	16183	GCAATGCCAGAGAGGCAAGA	27167	CCAGTTCCAAGCTCGGCCTTA	38151
4526	TCTCCCTTAGGGCGTTTGT	16184	GGAAAGTGTGCCAAGGCAAAGAGA	27168	GTGTGTGTCCATTCTCCCCTTAG	38152
4527	ACAGACCCAGACTCAGTGATGA	16185	ACAGTCCCAGCCTGACAGTTC	27169	TGGTGGCAACAGACCCAGACT	38153
4528	TGCCATGGAAGATGTGCGATT	16186	CGGGCATGCTTGTCTGT	27170	GGAACATGCAGGACCTCATTTTGG	38154
4529	CCAGACACTGAGTTAGTCACGTT	16187	CCCTCCTAGCCAATGCTTAAC	27171	GGAGGAAAATAGAACCAGACACTGA	38155
4530	CCAGTGCAGTTATCTGGCACACA	16188	GTGGCCCATGTTGGAGAATGA	27172	CGCGGAAAACCAAGTGCAGTT	38156
4531	TCTGGAAGCCGACCACTGT	16189	GGCTCCAGGTACTCATCCATTGT	27173	GCTCTGGAGTCTTGTCTGGAAAG	38157
4532	TGCTCCTTCATGCCACCTAGA	16190	GGAAAGAAGGCTAGTGGTAAGAGACA	27174	GCTATTGTATGGCATTGCTCCTT	38158
4533	AGCAGCTGCCAAACCAAGTAA	16191	CGTTGAGGGCAGGAGGGAAAT	27175	TCAATAATCAGGCTCTGGGAGGAA	38159
4534	GGGCTAGTGTCCATAGGCTCAA	16192	CAACTGTGCCAGGGGTCTTAA	27176	AGACCATCCAGGGGTAGTGT	38160
4535	CTGGGCTGATGGGACTTGA	16193	CAGCCCTTGTCTGGGAATCA	27177	GTGTGTTGGGGACACAGCAA	38161
4536	ACTGGTGTGTTAAAGGGAGTTTGT	16194	GCCTCCTTGCCAGTCACTTA	27178	GGCTTTTAAACAGGTAGAAGTGGTGTGTT	38162
4537	GGTCTTGTGAGGAGTTTGAAGCTAT	16195	CCACACTGTGTTGGCCAATGT	27179	CTCTGTATCTGGTCTTGTGAGGAGTT	38163
4538	CTTAAACCTTTGCTTCTTGTCTA	16196	CGCCACTGGGAACCAAGT	27180	GCTCCCGTGGTCATCTGTGTTT	38164
4539	AGTGGGAAAGACCTCGGTGACA	16197	TGGCTTGGGTGTGGGTCAA	27181	TACCCCTGGCGGCTGCTTGTA	38165
4540	GGAGGTCAATGTACAGGGGTGAGA	16198	CAGGTGCTCCAGGCTGTGAT	27182	GGTCAGGGTAGGAGGTCAATGTCA	38166
4541	CCCACAGGACAGGGACTATGT	16199	GTGCTTTTGGACCACTCCCTTTG	27183	CCATGTTCCCTTTGGACTAGAGTT	38167
4542	GACCCAGAAAGACCAAGTCT	16200	AAGGTCCAGGGAGTGGACACA	27184	CCTCCGTGACCCCAAGAGA	38168
4543	GAGAGGTTTTGATCTCTCGGAGTTG	16201	GCGACGGGAGGAGTTGAGTTG	27185	CCCACGAGATTCTTCTCTGAGA	38169
4544	CAATTAAGAGGGCTCCTGGAACT	16202	GCAAAGGGAAGTCCAGAGGAAAC	27186	CAGCTTGTGCTGGAGCAAT	38170
4545	CAACAGCAGGGTTCACACAAC	16203	CTAGGACAATCTCACCCACAAG	27187	CCAGCCCCAGGTTTACAACA	38171
4546	ATTGGCATGGAAGTCTATGGAACA	16204	CCATGCAGCAAGGGCCTAT	27188	GCTGGAGTTTCAATTGGCATGGAAGT	38172
4547	GGCAGCAGTGATAAGAACGATTG	16205	CAGCAGCCTCTGGTCTCTTC	27189	GGCTTGGCAGCAGTGATAAG	38173

4548	CGTGGGTCTGAAACAGGAACATTG	16206	TGGCAGGGTTGGGGAGAGAT	27190	AGGAGACGTGGGTCTGAAACA	38174
4549	CAGGCAATGTGGTTTTGGCTTA	16207	AGCCACTGCACTGGGCTTA	27191	GACCAGCTACATTATCAGGCAATG	38175
4550	GCCCTCTCTTCACTCAACT	16208	CCTGGCCAGAGTAGGTGTTTA	27192	CCTGTCAGCCCTCTTCAT	38176
4551	GATTGGAGCTGGCTCTCAAAG	16209	TGGGAGAGGCATGTGGAATGA	27193	GGGCCAGGCAGATTGAGAGATTG	38177
4552	CATCATCTCTTGCCTGGGTTATTGA	16210	GGATGCAGGGACATCAGCTAAG	27194	GACCAAGTGTCCATCATCTCTTG	38178
4553	GCACTAGAAGTGACCTTGACTGT	16211	TCCCTACCCCAACCTAATTTAA	27195	ACCTCCAGGCACTAGAAGTGA	38179
4554	GGCCTCTTTAGCAGCCCTTATC	16212	AATGGGCACAGCCACAGGTT	27196	ACCCGACAGCTCAGGTCAAT	38180
4555	GCCCTGCCTCTAAACAACCACATA	16213	GCCCAGCCAGGCTAAATGACTT	27197	TGCGCCCTGCCTCTAAAC	38181
4556	CCCACTGTGCTCAGCTCTGTTT	16214	CTGAAGCAGGTTTGAAGACT	27198	CCTCTCTGTAATGCCCACTGT	38182
4557	CTTGCCAGTTCACCTGACTGTAT	16215	TGGGGCCACCTACCTGGATA	27199	GGTTGCCTCTTGCCAGTTCA	38183
4558	CAGCCAAACCTGGTAGCCAAT	16216	GAGCCTGGCACTCAAAAACCTGA	27200	CAGGGAGGAGCAACACAGTTCA	38184
4559	ACTGTCGGTCAGGATCATTTTGAA	16217	GGTGTGGGGAGACCTCTATGTT	27201	TCAACCACTGTGCGTCAGGAT	38185
4560	CCACTGGTCTCTCACTCTTCACT	16218	GGGGCATTCCAGGCCCTATT	27202	TTACGCCACTGGTCTCTCA	38186
4561	GCATGCAAAAGGTCCACAACAT	16219	CCACATGGGCTGAAGGGTTTCA	27203	ATCACCTAAAGCAGCATGCAAAAG	38187
4562	GGGGCAGGGAGATGAAGAACT	16220	ACCCCAAGGAGGAACCAAGT	27204	AAGTCATGGGGCAGGGAGAT	38188
4563	CGATGACTGAACCTGAAAGGTGAT	16221	GTGCGGTATGAGGGAGGATT	27205	TCCAAGCCAAACGATGACTGA	38189
4564	GGGAGGACTGCTGGAGGAAT	16222	TGAGTGCTTGATGTTTCCCTTCA	27206	TTGCCCCAAGCAGCATCA	38190
4565	TACCCAGCGTGGAGACAGT	16223	TCGTGGCAGCTGGCTTCTTG	27207	GAGGCATCTATACCGTGAAGAACTTG	38191
4566	TAGGTAGGGCCACGAGGAGTAG	16224	CTGTCCAGGCCCTTTTGTTG	27208	CCTGCACACAGTCTGTGGATAG	38192
4567	GACTGTGGGACTCTGTGCAA	16225	GAGTTGAGTTTCGAGTGCAAACTTG	27209	GCCAAGCATGGAACCACTTTGACT	38193
4568	GACACCATCGGGAGACAGATTAC	16226	GTGGTTTTGTCCCATTCCTCTTT	27210	CGTGGGAGTCGATGACACCAT	38194
4569	CCAGCATACTTGACCTGAGAGTTC	16227	TGGCTGACCAGGGGCATCTTT	27211	CCCCAGACCAGCATACTTGTA	38195
4570	CTGTATAGGGCTCTGGGGTTATAAAG	16228	GCCATGTCCCTGGGATCTGTCTA	27212	GGGCTCACCATGGATCATTATCTGTAT	38196
4571	CCTGTGCAAGTTCCACAGAGA	16229	TGGGTTCCGGGGCCCAACAA	27213	GAGGGAAAGTGACCTGTGCAA	38197
4572	CAGAGCTTGTACTTGGACCGATGT	16230	GCATTTCTGTGGTGGGATAGTGT	27214	GTCTGACTGCAGAGCTTGACTTG	38198
4573	GTTGATTTTGGTGGGCTTCAGTT	16231	GTCTGCCTCACTAGTGGCCTAT	27215	CACCTCCCAAGCTAAAGGGGTGA	38199
4574	GCATCTGCAACTGTGTGATCTTG	16232	GGGAAACAAGCACAGACTCCAA	27216	AGCCAGCATCTGCAACTGT	38200
4575	CAGCTAGAAAGCCAGTCCATT	16233	GGGTCACTTCTCTCTTGATTC	27217	AAGGGCTTTAAACAGCCTAGAAG	38201
4576	AGCACTTGGCACTGTGTGT	16234	GGGAGTCGCTATTTACCGAGCTTT	27218	CACAGTGACAGAAAGCACTTG	38202
4577	CCTGCCCTTGTCTGATGAAAC	16235	ACCCTGGGCAAGACACTCT	27219	TTGAGACCAACCTGCGCTTTG	38203
4578	AGCGATGCGGGGAAGACTTT	16236	GCGCTCAGCCATTTGCATCA	27220	CGGCTCTTCACTGCTCTACTGT	38204
4579	CCTCAGAGCATTTGAGGAACAGAA	16237	ACCGCCCCAGGAAGCTTAG	27221	GGAACACACAGCTCAGAGCAT	38205
4580	AACGTCATCTCCACCAATGAAC	16238	GCTGCAGAGGCTCAAGCTAGA	27222	CTCCAAAGAACACTGCCAGTAA	38206
4581	GGTTGTGCACTCTGGACAAAA	16239	AGGAAACCAGATCTGTGCACTTG	27223	GCTTCTGTAATGGGTCTAAGGT	38207
4582	CTGGGGTGTATTTAGCTTCAGAGT	16240	TGGGTGAGGCTACTGTGAGT	27224	GCAAGGAAGTAATTAGTACTGGGGTGTA	38208
4583	GCCCTCAGGTTGTGTTTCT	16241	GTCAAAGGGGAAGCATGCAAAAG	27225	GTGGGTGTTGTGTAAGCCACGAT	38209
4584	CTTTCTGAACCTCCACACTACA	16242	TCCAAGAAGAGGTGTGCAAAATGA	27226	GCAACCCCACTTCTCTCTGA	38210
4585	GGGAGAGGCGTATTCTGTGATG	16243	CAGTACCTGGCCATAAAAGGTAGT	27227	GAATCAGAATGGGAGAGGCGTAT	38211
4586	AGTAAGCCAGATGCCAATTTGT	16244	TTACGTGTTTTCCACCACAGT	27228	CGGCTTAGCCATGGGAAATCA	38212
4587	CCTGTCCAGGCCATGTGT	16245	AGGAGAGAGGCGGAAGGAACAA	27229	GTGGGGAGACCTGCTATCTTCTAC	38213
4588	GGTAATATCCAGTCCATCTTACTCTGT	16246	CAGCCAGCAAGCTCCAA	27230	GCCAGGATGGTGGATGATGGTAA	38214
4589	GGGATTACGGCTCCTTTCATCTG	16247	TGGAGGTCAAGTACTGAAGACA	27231	CCTCTTTGGTGAAGTCAAGGATTC	38215
4590	GGGGAGGCAGACCTGGTTA	16248	ACTGGACTCCTCTCCACATT	27232	GGCTCAAGAGCTTCCCTGTTG	38216
4591	GCTGAACGGTTCTTATCTTTCATC	16249	GCCCAAGAGGCAGGCATCAA	27233	GACCTTGCTGAACGGTTCCTT	38217
4592	GAGAGTTTGGGCGCAGAGGAGTAAG	16250	GCAGTGTTTTAGCGAATAGTTCT	27234	TGGAACCGGGTGTGAGAGTTTG	38218
4593	TCCTATCCCTCCCTACCATTT	16251	ACTTGCTAGTACAAAGGGGAAGAA	27235	AGGCAGAATTGACGTTTCACTCAT	38219
4594	CGTGATCTGACTCTGGAATGACCTT	16252	ACAGACGCTGGCGTCATCAA	27236	GTGGTTACAGCGTGATCTGACT	38220
4595	GGTACCTCCAGATGTCCATTTT	16253	CTGGGTGTGTAGTGCAGTCAGTTC	27237	GCAGAGCGAGGTACCTTTGA	38221
4596	GTTATGTTGGGAAGAGTGGAGTATG	16254	TCCCTCCAGAGCTTACAGAA	27238	TCAAGTGGCTGGATGGTAGT	38222
4597	CTGGCTCAAGCTCCCTTGTGAA	16255	TGAGGCTCAGACAGATGATGTTG	27239	AGGCCAAATCCTGGCTCAAG	38223
4598	GCAAGATGTGCCACCACACAA	16256	AGGGACCCGTTTCAGTTTCATC	27240	TGTTGCTGTCTGGCAAGATGT	38224
4599	GGCAGGGAGGTACCATCTTCTTG	16257	CCCCTTTGATGCCACAGTTATTTT	27241	TGGCTTGGGGCAGGGAGGTA	38225
4600	CCTCCACTACTGGTCTACCAA	16258	CCAGACTATGCCACAGGGCTAATG	27242	CTAATTGTGTCCATACCTCCACTACT	38226
4601	GAGGAGAGGACACAGACTTGTTG	16259	TTGCTTTGCCCCACATC	27243	AGTGACAGAGCAAAATTTTCAGGAT	38227
4602	GGCCATTGCACTTGCTACTTC	16260	AGGACCACGGGCTGCAGGTA	27244	AAGGCCTGACTTGCCCATTTG	38228
4603	GGACACCTCCACTGTTAACAATAAG	16261	TGTGCCAGGGTTGACATA	27245	TCTTTGTTCAAAACGCCCAGAAC	38229
4604	CAGCCCTGGCTTTATGTTCACT	16262	CCTTGCTGATCCAGGCATAATG	27246	CACAACTCAGCCCTGGCTTT	38230
4605	GCTCATTTCTGGCATCCCTTGT	16263	CCTTCACTCTGGGTGAGGAAT	27247	CCCAAGGTGCCAAGCTCATT	38231
4606	CTCAGAGGGCTGATCTCAATGT	16264	GTAGATTAGCATGAGTGGGAACCTGA	27248	TGATGACAGAGGAGTAAAGGTCTCT	38232
4607	GTGGGATAGATCCCTGCAGATTC	16265	AGTTCTCCAGGAAGGTGCTA	27249	GGTGATGCAGGAAGATGGGATAG	38233
4608	TCTTCTCGAAAGCATGCCTAATCT	16266	ATGCGGTGGGGTTTATGAAT	27250	CTCAGCCCTTCCACCTTCTCT	38234
4609	CCCGAATCCCACTTTGAGGGTTTA	16267	CGGAGACCACCAGGATTGTT	27251	CCCATCCGAATCCCACTTT	38235
4610	TAGCAGGGGACTGGGCATTCAA	16268	CTTGCCATGTGCCAAGTTCTGA	27252	TGGGAGTACCTGGATCCCTTAG	38236
4611	GGGATAGAGGTGACACAGCAGTT	16269	TCTCGCCCACTGTCAACATGA	27253	GGCACACGATGAAAGGGATAGA	38237
4612	TTGGGCGGTTTGTCTGTGT	16270	CACCAGGCCCTTGTACTCAGAT	27254	AGGACCACAGCAGCTTCGATTC	38238

4613	GCAGGAACCATACCAACTGCTCTT	16271	CACATTGGGACCCAGGACTAAG	27255	GTCCAGAAGGCAGGAACCATAC	38239
4614	GCCCTAGCTCCATCTGTCCAAT	16272	GTACAGCCCCAAACATGACTCT	27256	TCAGGGTGCCTTAGCTCCAT	38240
4615	GCAGCCTTTGCTTTTGCTAAC	16273	GCGTAGTCCAGGCCCTAGAGA	27257	CCCAACCACAGCAGCCTTTG	38241
4616	GATGACACTGGGGTCGTGTATAG	16274	CCCCAGCCTAAGGTTTGCTCTT	27258	AGGTTCCCTGCCTTAGGGATGA	38242
4617	CTCCCTGCATCTAGGTGTTTAC	16275	CCCTACCCACACCAACAAAA	27259	AATCCTCCCTCCCTGCATCTA	38243
4618	GTGCAAGACAACCACTGGTGAGA	16276	CCCTCCGCAAGGGGAAATGAAA	27260	CCATCCTATATGTCAGGTGCAAGACAAC	38244
4619	CCTGTTGCCTCTGGAAACTATCT	16277	CCAGATGAGTCCCAGGACTTTG	27261	GGAGGTAGCAGCACTTACCTGTT	38245
4620	TCCCCAGCTCCAGGGAAGAA	16278	TGGTGGACAGGAGTGGGAAGTT	27262	TCTCCAGCCGAGGGTCTCA	38246
4621	TTCTGGGAGTGAGACCGTTTG	16279	GTTTTCTCCACCCCTTTCTCTTC	27263	GGGAGTGTAATTACAGGGAGTGAATTCT	38247
4622	CCGGCTCTAAATCCTGGCATTTC	16280	CCTGCCTCTCGCCATACTCATC	27264	TGGTCAGCTCCGGCTCTAAATC	38248
4623	CCCTGCTAGGAACAGTCTGATGAA	16281	CGCACACCTATTGGGAAGGAA	27265	TACCGTCTCCCTGCTAGGAACA	38249
4624	ATCTGGGCCTCCTAAGGTCTTC	16282	CCTCTGCTAGTCTCCTGAATGTTG	27266	CCACTGCAGTTTACAGTGTGAAGCAT	38250
4625	ATTGGCAGCAGCAACCCAGACA	16283	GCCGCAGTGGCTGATCCAT	27267	GCCTGGGGAATGCTACTGATTG	38251
4626	AGAACAGGCCCTAGAGCTGGAA	16284	AGTTGAGCAAGCAGGGAATTGAATC	27268	GGACAAGGACTGTGTAGAGAGAAC	38252
4627	GTCCAGCCCTCACTAGATGTTAG	16285	TGATTTTCCAGGGTCTGTGCT	27269	TGTGGTGTCCAGCCCTTCACT	38253
4628	TGTGTGAGGGCGAGCAGTT	16286	CAGCACTCACTGACCTTGACA	27270	GTGTGTCCGAGCACATTGTTG	38254
4629	GGAGTTTCTCATTTTCTCCAGGCAAT	16287	AAAGCCGGCCACCCCAACA	27271	GGGGCAGCTGGAGTTTCTCATT	38255
4630	GACCTTGGCAAGTGACCTCATC	16288	AGCTCAGCACTCCAGACAAG	27272	TGTAGTGATGGTGTGTTGTGACCTT	38256
4631	GCCTTCTGGAGTGGACAGGAA	16289	AATCACCATTGTACCACCACCAT	27273	GGAGGGCACAAAAGTGCCTTCT	38257
4632	GAGTAGGAGGTGAGTGTGCTGAT	16290	GCGTGGGCCAGAAATCTTCA	27274	TTAGCAGGAGGTGGGTGAGT	38258
4633	GGGATGGAAGGCTGGGGAAATG	16291	TCAGAGATTGGATTTCGGTCGTT	27275	AACTGGAGGTGGGGATGGAA	38259
4634	TCTGTAGCAGCAGCAAAATGAGA	16292	GGAGTTGCTCCTCTCTCTAAG	27276	ATGCTACCCCTGGCCCTCTGTA	38260
4635	TGCTCCCTCTGGGAAGCAT	16293	ACAGGGCGGTGCTAGCTTGA	27277	TCCCTCTGGCCCTGTGGTT	38261
4636	ACAAAGTGGAGAATGGGCTGAAC	16294	CCACCCAGTGCCTGAAAGTAAAG	27278	GCTGCATCTTCACGCTACA	38262
4637	TGCCCGCAGCAGCTTCAT	16295	CCCATGGCTACCTCACTCT	27279	GCCAGTTTTAGGGACCAAAGACCAT	38263
4638	CCTTCTCTCTGCTACGACCTTCT	16296	TGTTGAGATGAAGCCAGCAACA	27280	GAGTTGGTCTCCAGAGAATCTTCCTT	38264
4639	GCCACACTCTTAACCTCTGCACTA	16297	AAGGATGGCAGGACCAGTGT	27281	ACCTCCAGAGCCCACTCT	38265
4640	CGTTGTGGGACAAGGTCTAAACA	16298	CAATGTAAGCCAGTGACAAAATGT	27282	GGGAGACTCTGTTGTGGGACAAG	38266
4641	CCAGGGTTGAAGCAGGTTGT	16299	CGGAGCTCAGCAGATTTCA	27283	CCGGCCCTTTAAGGAAGAAGT	38267
4642	GGTTGAGCACTGTTCCACACA	16300	GGGACAGGCTGCGACACTATG	27284	GGGAACAGGTGTCCTTCCAGGTT	38268
4643	CTGGACTCAGGCAGTGCTTTGT	16301	ACGTGGGTGACACCAGATGA	27285	CCAGCAACTTAGGCTGGACTCA	38269
4644	CTGTGTCCCAATTTCCCAATTCAGTTC	16302	AAGCCACGAGGCCTTAACCTCT	27286	CCTCCTTAGCCACTGTGTCCCAAT	38270
4645	GTCCTCTGTAGCTCAGACACTGTT	16303	GGCCAACCTCCTCTCCCTACA	27287	TCCGAGGCAGGCAACTCTACA	38271
4646	GGTGGTTTGCTAAAGACCACCTGTA	16304	AGGCCAGGCAAGAAGGAAA	27288	GACTCCATAATAAAAGTGGGTGTTTGCTA	38272
4647	TGCCCAACCTACTCGCCATAC	16305	AGCCCAGCATCTGCAGGAA	27289	GAGGAGCTGCCACACCTA	38273
4648	CTCTGTCTCCAGTGGTCAGTCT	16306	GGTGCCACCCAGAAATCACA	27290	AGCTCCCGCTGGCTCTGTCT	38274
4649	TTTGAAGCAGGAACCAAGAGAGTA	16307	GCCATCTTACAGCAGGCTTAG	27291	GGAGGCAGCACCTTTTGA	38275
4650	CCCCAGGCAATTGGGACAAACT	16308	TCCTGCACACTCCTGGACAA	27292	TGTCTCCCTGTTCCAGTGCTA	38276
4651	CCCCTGAGTCACACCAAGTTG	16309	GAATCATACCTTGGCTTGAGGTAGA	27293	CAACACCCTCCCTGAGT	38277
4652	ACACACATCTGTCTGTGTATGA	16310	TCCCTGCATGCCCCGAATTT	27294	GGGACAGATGGGATGAAAACACA	38278
4653	CCCTTGGCCCTATGACATCAA	16311	ACCATGGCGCTGCAAAAAG	27295	TCAGAGGATGAAGGGGACATTTTC	38279
4654	GGGCTCCCATTTGCCAACTT	16312	AGAGGGACTCAGGCATCTGGAA	27296	GGGTCTCTGTGTGGGAACCTT	38280
4655	CTGTTAGTGGCTTTGCTGTTTCAA	16313	CAGCCAGCCCTCAACAGT	27297	CGCATTTGGTGGCTCTCTGT	38281
4656	GGGAGGCAGGAATTACTCCAAC	16314	CTGACCAGGGCTGTTTTCTGAAG	27298	CCTAAATGCATGGGAGGCAGGAA	38282
4657	GTCGTTTGAAACTGGCTTCTGA	16315	AGAGAATAAACGCATGCGGAAGA	27299	AGTACAATGGATCTGTCGTTTGGA	38283
4658	CAGAAAGAGAGAGGTTTGTCTCTTG	16316	TGGAGTCTCTCCAGCATTG	27300	GCCTCCACTCCAGAAAGAGAGA	38284
4659	CAACACCACTCTCCATACCTTGA	16317	CGTGGCCCAACACAGAGATT	27301	CCACCACCTCTGGGCAACA	38285
4660	TGCAGCAAGTGCCTGCATTCT	16318	CTTCTGTCCACCAGCTTCTTC	27302	TCTCTGGGCGAGCTGAAGTT	38286
4661	GCTGGGCCATAGCTCTATGTTTTT	16319	ACCGCGCTTGTCTATCAT	27303	CCCAAAGTGCTGGGCCATAG	38287
4662	GTTCCACCTCTCCCTGCAAAAGT	16320	CAGAATTCGGGACAGCACAGA	27304	CCTTTTGAGAACCAGCTCAATGTT	38288
4663	GACTTTGGGAACACAGAAATGGTT	16321	CATTCTCAACCTCTCAGACCAA	27305	AGAGAGGACTTTGGGAACACAGA	38289
4664	GGAAGCGGGTGAATAGACTGAAG	16322	GAGTTAGAGATCAAGTGGGAGATTAC	27306	TCTGTCTGGAAGCGGGTGAA	38290
4665	GCCCTGCTGTAGTGCCTTAGTT	16323	AAGATGTGACGGTTGGTACAGTT	27307	CACATCAAAGCCCTGCTGAGT	38291
4666	TTCAGGCCCGCTATCTGT	16324	CCAAATTCACACTGACCTTGTA	27308	CTGGGGCAAAAGACTGATTTTCTTCA	38292
4667	GGTGTGCTTGTGCTTGGAGAGA	16325	TGCCCAATCCAGGCTGAAG	27309	GCACCTTGGGGTGTGCTTGT	38293
4668	CCCAGCGCAACCTGTAAT	16326	TCCTCTAAGGTGAAATCGCTCAA	27310	GGCAGACGCCACTTTCTACTCA	38294
4669	CTCCACTCTCTGCTCTACTGA	16327	AATGGCCTGGGGCAAAGATG	27311	TTGGGACGGGTCTCCACTT	38295
4670	CTCCTCTCTCATTTAGCTCTTC	16328	GAAGTGAATAATTTGCCATCCTT	27312	ACAGAAAGCCCTGCAGCTCTAC	38296
4671	CAGTTGCTGACCACTA	16329	CAGGTCTTTTACCAAGAGAGTTTGCTTTC	27313	GCATGCCCAAGGTAGACAGTT	38297
4672	GGTTCCAAGTGATTGTGGAGTCA	16330	ACTGACAGAGCTGGATGCAAC	27314	GTGCATGGTGTGTTCCAGTGA	38298
4673	CCCTGGTCCAATGCTCCTCAA	16331	ACAGCTTAAAGCGCCCAAGAG	27315	GGTTTCATGACTCCCTGGTCCAA	38299
4674	ACGTACAGCAGCAGAGAAAGT	16332	GGCAGGAGCTGTGCTTGAATC	27316	TGAGCCAGGCAGGTGCTA	38300
4675	CAGAATCACACAAGTGGGAGATGACA	16333	GGCCAACTGGCTGGATTGA	27317	TTGCCCCAGAATCACACAAGT	38301
4676	CCCTGGACTCTTGGGCAAAT	16334	TCACGGTGCAGAGGAGACA	27318	GTCCCCACACATCCTCTTGTGTTG	38302
4677	CCAGCCCCAACTAAGAAACTGTA	16335	ACAATGGCCACAATTCTCACA	27319	CCTCCCCAGCCCCAACTA	38303

4678	GACCACACACCATTGACATATGAGAT	16336	GCCTAGGTTTTCTACTGGACCAT	27320	AGAGATAGGACCACACACCATTTGA	38304
4679	AGTGGTTAGAGCCAGCACTGA	16337	GCTAGGGACCCCTCCGTATGA	27321	TGGTGGGGTTCAGTGGTTAGA	38305
4680	CCTCCGTGTAGGCCAGCAT	16338	AGCCTGGGCGCTGTTTCTCA	27322	GCAGCGAGTCTCCGTGTA	38306
4681	CCACAGCATCTCTGGGACTCA	16339	GAGCAAAACCTTGGCTCCTAGT	27323	CAGGCCAGTGGGAAGTTG	38307
4682	GGAAGCCAAGAGGCCAAAACGTA	16340	CTCCTCATTTCCACCACCTCTT	27324	CACCAGGACTAGCACTAGAAGGAA	38308
4683	ACTTCTCGATCTCTGGGTCTTTCT	16341	GCCCTGTCCAATGAGTGACCTT	27325	TCACCCAGCCTGACACTTCT	38309
4684	GCACAACATCTTGATCTCGGTAT	16342	CCACAGCTCCCTGTCACTCA	27326	GACGACGCACAACATCTTGCA	38310
4685	GCTTTGGGTGGGTCAATTCCTT	16343	TGCAAATACCCATAGCCAGATG	27327	CCACCTATGTGCCAGGAAGCTTTG	38311
4686	GCGGAAATCCGTGACCAACA	16344	GCAAGATCTGCTCCGCTAAAG	27328	GGGATTGTCCCAAAGCGGAAA	38312
4687	AGTTTCAACCTCCACCCCATTC	16345	CCCCTTCAGTATCGGCCAAGGTAA	27329	TTCCCTGCATTGTTACTACTCAGTT	38313
4688	TGCTGAGCCCGTTTGTGT	16346	CAGCCTGGACCTGTGGAT	27330	GGCATGGCAGTGAGAAGCAT	38314
4689	AGGCAGCGGAATGGCTCTTG	16347	CAGTCACTGGGAGTTTGACTCATC	27331	AGCCAAACACCACCGGAAGAT	38315
4690	TGGTCTTCACTGCACAAAACA	16348	TCTGAGGAGCTCACCTTCCTT	27332	GCAGTCTGTCTCTTGGTCTTC	38316
4691	AATCGAGCCCGAGCAGCTACA	16349	GGGTTGGACACCTTTCTGCTGTT	27333	GCCAAGGCCGAGGTGCTAAAAA	38317
4692	CCCGCTTGAACCTAAGCATGAGA	16350	TGGGGCCATACCTGTCTTGTA	27334	ACCACCCCGCTTGAAACCTA	38318
4693	TCCAGCTCTGACACTTGGTAAC	16351	CCAAGTGCCTGCTCCTTTAC	27335	GGGGTGAATTCAGCTCTGACA	38319
4694	GAGGCTGGACGACTTGAATACTCA	16352	GCACCTGGGCTTCGTGGTAAT	27336	GCAAACCTGAGGCTGGACGACTT	38320
4695	CTGCTGAGTGTCTCCTCCAT	16353	GTTACACAGTGCAGGGAGATTAGA	27337	CCCTCAAGCATGGATGCACAGTT	38321
4696	GGCCAAGTACCTGCTTACCTAAC	16354	GTTCTGGAATAATCTGGCCTTCTC	27338	GCCCCACCTATCAGCCAGACTTTA	38322
4697	CCACCGTGCTTTGGATAGATAAGA	16355	AGACGGTGACAATGCCAAT	27339	TGGTCTCCACCGTGCTTTG	38323
4698	CGCTGTTGTGGAGTGAGTGT	16356	TGCCTCGCTTAACCTGGGAGAT	27340	TGCTGCCAGCGCTGTTGT	38324
4699	TCCCAACCTTTCTCTCTCAT	16357	ATGGAGGCAGTGGTTACTTTTCA	27341	CAACCATGTCCCCAACCTTTT	38325
4700	TGGCTCATCCCACTCCCAAC	16358	GTGCTGTGGGTGAGCACAGT	27342	GAGGCCACACTCTCAGATTCAA	38326
4701	GCAGCTGCCTCGGAATAAGCAA	16359	TGGATGTGTCTATGCCAGTTC	27343	GTTGGCCTCAAAACCTTCACT	38327
4702	GGTCTTCTGCTCTCGGTATT	16360	TGGCCAGGATCGACCAAT	27344	GAGTCACGCCACTAATCCATTTC	38328
4703	CTCCCCATGTTTGGGTTAACTCCTT	16361	GTCAACCCAGGCGAGACATTC	27345	AGCCCGTCTCCCCATGTT	38329
4704	GTCTGCTTTTCATGTCCCTTTAG	16362	GGTGATTGGGTGGCCCTTAGA	27346	CCCCTCTAGGAAGTCTGCTTTCA	38330
4705	CCAGAGCCGCTGAATCTCAT	16363	GGCAGCTGTGAGAAGTGATGAT	27347	CGCATGCAAGAGACTGGTTTGT	38331
4706	TGAAGGCCCAATCTAGTCTTAGT	16364	CCCAGCAGCACCTCAAGGAT	27348	GGACCTGAAGGCCCAATCT	38332
4707	TCAGCCCCGGCTCCAGTCTT	16365	AGGGGCTCCTGCTAACACCAT	27349	CCAAGGGAATCAACTTCTGGCTAGT	38333
4708	CAGGTCTCACCAATGCCATCAAGT	16366	CGCCCCGCATTTCCCTAA	27350	GCAGAGCTCAGGTCTACCAATG	38334
4709	AGCCTCTCTTAGTGGTGGA	16367	GTTGAAAGGGGCTCTTAACA	27351	CTGCTGAAGGTTAGCCTCCTTTA	38335
4710	GGCCAAACGAAAGAGGACTGA	16368	TGGTGACCTGATGAACAAACA	27352	GGAAGTCAAAACGGCCAAACGAA	38336
4711	TGCTTGAGGCTGCACGTAGT	16369	GCCAAAGCTGTGAATGGGTCTTC	27353	CCCGCACAGTTAAACATTTCATCT	38337
4712	CAGGGAAAGCCACCTTCGAT	16370	GAGAGGCCGCTTGCTCAGT	27354	GCCCTGTGCACTGATGAGACAAA	38338
4713	GGATACATCCCCAGGGAGTTGACA	16371	GATGAAATGAGCTGCTTTACTCGTT	27355	TGCCCTGGCGGGATACAT	38339
4714	GAGGAAAACTGCTGACTTATGGGTAA	16372	AGCCCTGTGGCCCAATTTG	27356	CAGGAGAGGAAACTGCTGACT	38340
4715	GAGTGAGACACCACTTCTTTACTTG	16373	TGGTCTCCCACTTGGACTGA	27357	GACAGAGTGAGACACCACTTC	38341
4716	TGCCATCAGCCTCAGTGAAC	16374	GAGGGATCCACTTCCAGAGTGAAC	27358	TGAAAGGCTACCTCTGCCATCA	38342
4717	GAGTCGAACACAGCGCTGAAAAAC	16375	AGAACCACAGCGATGATGTTA	27359	TGTGATGACGAGTAAGTGAGGAAGA	38343
4718	GGCCTTGACACAGTCCAGATGA	16376	AGGGAGGGCTGGCTTAAC	27360	GCCTAACCTTGGCCTTGACACA	38344
4719	CAACTGACCGCAGACGTGTT	16377	CCAGGCGGGGAAGACAAT	27361	GCCTGGGAATCATGGCAACT	38345
4720	CGCAACTTCCCAACCTCCTT	16378	GCCTATGGTAGTCTCCCACT	27362	GCCGCCCTTGACCAATTGTAT	38346
4721	AAGTGGACGGCTGTGACTGA	16379	GGGAGAGCTCTGCAACCTTAT	27363	GGCGTATGAATTGGAGTCAGTAAGT	38347
4722	TCAGTGCCCCCTTCCCAAT	16380	GGACGTGGCACCATGAGTTG	27364	CAGGCACCAAGTACATTCACAGT	38348
4723	GGGTCTACACCTGCAAGGACTGA	16381	TACGCTGAGGCTGCTGAGAAA	27365	GCATGCAGTATGAGGGGCTCAC	38349
4724	CACACAACACTTCCGCCACAT	16382	AGTAGGGCCATGTGCTGAGTT	27366	TGGAAGGGGCACACAACACT	38350
4725	CAAGCAATATCCCGACCACTT	16383	CATCAAGCCTGAACGAAGCAA	27367	GCTCCCATCAGTGCCAAGCAAT	38351
4726	CTCTGCACTGAGGACTGGTTTCA	16384	CTCTGCACAGCACAGGGAAT	27368	TGGGAGGCTCTGCACTGA	38352
4727	TGCTGACATGTAGGAGGTTCT	16385	CGAAGCCTATCCATTTCACTTAGTAGT	27369	CGCACACAGTGCCTGACAT	38353
4728	CAGAGTCTGGGCACCTCGTT	16386	CGGGATGCGAGCTCGACGAAA	27370	GCCCCGTAACGTACTGTTGAGA	38354
4729	ACTCCGAGGGAGCCTTATCTAC	16387	TGGCTAGGCAGTGACTCAGA	27371	CCTCCCCACTATTCAAGTCCCACT	38355
4730	GAAGGTTCTTTGACATAACAGGTTTC	16388	TGCCGTACCTGGGAATCCAT	27372	AGCAACTAAGAAGGTTCCCTGACA	38356
4731	CCCTCTGTGTCTTTCTGCTACTT	16389	GAGTCAGAAAGGATGACCTGGAGTA	27373	TGCTGCTCCCTCTGTGCTTTT	38357
4732	CCCTGAATTCTCCCTTGCCTAAC	16390	CTGCTCTGAATGGAACAGGAAGGAA	27374	CTGAATGGAAGTGAAGTTACCCTGAAT	38358
4733	GCCCAAGAGTGGCAGAGTTTGT	16391	GGAGGGAAGGCTTTGCTTCTCA	27375	GAAAGCACAGATGCCCCAAAG	38359
4734	GCCGGACTGAGAAATGCCTGAA	16392	GTGCCCATCTGCCGGATCT	27376	TTCTCTGGGGCCGGACTGA	38360
4735	GGATGCTCTAGCTTCTGGTGAGA	16393	CCTAGCCAGGTGCTGTTTGT	27377	CCTGTTGGGATGCCTACGTTT	38361
4736	GGGCTCTAGAGGGACGTAA	16394	TGGTGCTGGAGTGGGAGTGA	27378	TCGGTAGGTAGGCGTCTAGA	38362
4737	GCTGCTGGAATTGGACCTTTTAC	16395	CAGCTCAGTCTGAAGTGCAAGA	27379	TGGCAGAGTCTGCTGAATTG	38363
4738	TGGTGGTCACTCCCACTTTCT	16396	AAGGAGCAGGGACCTAAGGAA	27380	GGGTGTTCTTGGTGGTCATC	38364
4739	CTCAGTGCTTGTGTTTTACTGTTC	16397	AGGCTGGCTCCTGCATCA	27381	CGCAGGTCTCTGATGCTTGT	38365
4740	TCGGGAGTTAACCCAAATAGTAAAC	16398	TTGAGTGGGTCTGGAAGGAT	27382	GGTGTTTTCACTTCGGGAGTT	38366
4741	CCTCACTGGGTGAAGTTTGAAG	16399	CAGGCCAGACAGCCTTTGT	27383	GAACTTTCCCATGGCTCCAAAC	38367
4742	TCGGCTCTCAGGGCGTATC	16400	TGCTGGCCAAGGAGACAGATG	27384	CCGAGATCTGGAATTGTGCTACTC	38368

4743	AGGAAGGACCCCATGGCTCTA	16401	GCATTCGACCTTAGGTTTGGAAAG	27385	GGAAAGGATGGGGCCAGGAA	38369
4744	TCGTGTTTGATTGACCCATGTTACT	16402	GGTGCCAGTGGAATCTCTACATA	27386	CCAATGCTATGTCGTGTTTGATTGA	38370
4745	GGGACCAAGTCAAACCAAGAGTCTTTC	16403	GCCTCACACTTGGGACACAAA	27387	CAGCTGCTAAGGGACCAAGTCA	38371
4746	GCTATGGAAAGTTTTCTGGTGGAGTT	16404	AAGCCTTCGCAGCTCAGCT	27388	GGACAGCTAAATCAGAGAGCTATGGAAA	38372
4747	CCTCAGAGACAGATGCCATTGAATTA	16405	CGTTCATGAGCCAGACTCTTCT	27389	ACAGTGAATCAGCACTCCTCAGA	38373
4748	CTTCTGGAGGACTTGGGTTGAGA	16406	CTTGCCACCTAGCCCAATGT	27390	ACTGATACCATCTTCTGGAGGACTT	38374
4749	CCCTTTCTTGGCCAGACTAACAGT	16407	CAGCCCCGAACAGAGTTTTGA	27391	GGGGTCTTACTCCCTTTCTTG	38375
4750	GCAAGGTGCTGAAGCTATTCAAG	16408	GCACTACTGTCAAGGCTGCAATC	27392	AAGGGGCAAGGTGCTGAAG	38376
4751	ACCAGCAGCAGAGGAGGATGTA	16409	TCCAGCGGACCCCTGAAGGAA	27393	CCATTAATCCAGCAGTTCCTTGATAC	38377
4752	GCCCCCTTGAGAGTCTTGCAGGAAA	16410	CCCTCCCATGGCCTTTCTATCA	27394	TCCAGTCAGCCCCCTTGAGA	38378
4753	TCCGTGTGTAGTCTCTCCAGTAG	16411	GCCATCCTCAGGAGCGTGAAT	27395	TCACCTGTCACTCCGTGTGTAG	38379
4754	CACCTTGCCAGTCCCGCTCAA	16412	GCAAGGACAGCTTAGTGATTAGGTA	27396	TCAATGACATCCTAGAGCCACTTTG	38380
4755	GGTGGTTGGGAGTCACTACTGA	16413	AGGCCCTGTCTCCAACCTCA	27397	GGCTTTGGGCTGGTGGTT	38381
4756	AGCCTTGGCGGTGGGAGAT	16414	GGAAGTCAGCATCAAAACCTTGACT	27398	CCCTTGCCCATCTCAGTTTACAAG	38382
4757	ACATACCTTTGCGAGCTGGTT	16415	GGCCAGCCCTAGTGAAGAAAAC	27399	CCTGCCCATTCACCCCATCTT	38383
4758	GGCTTAGACCAGGAGTGGAATGA	16416	TCGTCACTCAGGCCCTTAAGAT	27400	GCTCAGAGAGCCACTGAAGGCTTA	38384
4759	CGGGATAGGAGACTTTGGTTGGTT	16417	TCCCTGCTGAATGTTGGAAC	27401	GTGCCCCGGGATAGGAGACTT	38385
4760	CTGGAGCCATCACTGATACCTTT	16418	CGCAGCGCAGCAGCTCAGA	27402	GGCAGCAGAGACCACCACTT	38386
4761	CCTGCTGTGAAAGGTGGTGAGA	16419	TGAAGTCCGAGCCCTGTGA	27403	TGGAGGTCACTGCTGTGAA	38387
4762	GGCCTTGTAATTCTACGCACCAGAT	16420	TGTGCACACCATGTCCACATAG	27404	GTGGGTGTTTTAGGCCTTGTAATTCTAC	38388
4763	CAAACGTGTCAATATGCTGTTGATT	16421	TTCCCTCTCCCGGCAACAT	27405	GCTCGGCTCCAAACGTGTCAATA	38389
4764	GGGGCTTGATCCCTTTT	16422	GAGGTGGAGAACGTGAGACACT	27406	AGTGGGACAGCAGGGAAGA	38390
4765	GGCACTACTCACTTCTCTTTGT	16423	GGTAGGGCTGGCTGGAGGAA	27407	GGAGACTCATGTCAAATGTCTCTGTCA	38391
4766	GTGGTTTCTGGCTTTTGGAGGAA	16424	AGTAGTGCTCTGTCTCTGTGA	27408	GGCCCTATGCAGGTGGTTTCT	38392
4767	CTCTCCTCCCTCAAGTACACAGA	16425	CTGGAGGAGAGGTAAAGAGAGGTAAA	27409	CTTCCCAAGTTGCTGCACTCT	38393
4768	ACCCAGGCATGTTAGTGTTTTTCTA	16426	CCAGAGCACCATTTCCCATAG	27410	CCTGAGACCCAGGCATGTTAGT	38394
4769	GCCTGTGTGGTCCCTCTCTTC	16427	GCTGTCACTGCTTGCATTAGATTG	27411	CCACAGGCTCACAAATTCAT	38395
4770	CTGAAAGGACAGGCTAATAATGACT	16428	GGATGGGCTCGGGAATTCCTAA	27412	GAGAGGAGGACAGAAAGTCTGAAAG	38396
4771	TTCAGAGTCGGGCACTCCATAG	16429	GCCAGTGTGAGGACTTGTTCAATC	27413	TTGGGGAGGTGGGCTTTTCA	38397
4772	GCTCTCGGAGAAAGACTTGAGTAA	16430	GGCACACGGCCAAATTCAGA	27414	GCCTCACTGGGCCCGATT	38398
4773	CCAGGCCCTCAGCCTGTGTT	16431	CGACGGATGAGGCAGGTGTTT	27415	CGAGCTTTGGATGCTCCCTTTC	38399
4774	GGGAATGCATCTTCCCAACTGT	16432	TGGCAGCACCCCTTTGGGTTT	27416	GCCTATTTTCTTTTGAAGGAATGCATCTT	38400
4775	AATCTAAAGTCCAGAGCAGCAAGT	16433	CCCTCGTTCCTGCAATGTCA	27417	CCGACTGGCATGCTGACAGAATCTAA	38401
4776	GGAGCCGAAAGAAGGCTTTTGA	16434	GCCAGGAGGTGGAGGTATGA	27418	GCAAATCTGTTTGATATGGAGCCGAAAG	38402
4777	TGGGGCACTGGAAAGTAAGTTG	16435	CCCAGTAGTTGAGGTCTTCCACAAT	27419	TCTAGCTTGGGGCACTGGAA	38403
4778	GGGCCCTTTGTGACTGTGTTT	16436	ACAAAACCTGAAGAATCCAGTAT	27420	ACATCCTTAGGGGCCCTTTGT	38404
4779	GCCAGACAATGTGAGGTGCTGAT	16437	GTAGGCCCTCTGGAGTGCGTAT	27421	GGTGTGGGCCACACAATGTGA	38405
4780	TGGGTGGGGATGGGTAACA	16438	CTGATTAGGTCTGCCGTCTT	27422	CCAGAGTGGCTGAAGCACAGAT	38406
4781	GCGAGACAAAAGGGGATATTCAAG	16439	CCATTGGCTGAAATAGGGGAAA	27423	AGACTTAGAGCTGCGAGACAAAA	38407
4782	CGAGTAAGTCAGGTCTCCAGATG	16440	GCCCTCTGTTGTTTGTGAA	27424	CCAGTGTATGTGGCCGAGTA	38408
4783	GGGGATGGCATATTGTGAGA	16441	CAAAGCCCTTCAGCCAGTTCA	27425	GGAAACCATGCCAGGCTCTTTG	38409
4784	CTGGGAACGACAGAGAATCACA	16442	TCCTCACACCTTGGCTGAT	27426	CCGAGCATAGCTGCTCATATGTAA	38410
4785	GGATCATGCAGAGAGAGCTGAGACA	16443	TGTTCCAGAGGACAGGGACAA	27427	GTTCTAAAAGGATCATGCAGAGAGA	38411
4786	GAGCCGTGGCTCTGTCACT	16444	GGCCAAGCCCTTACCTGAAGAT	27428	TGGTGGCAACTAGGGATGTGA	38412
4787	CACTCCTTCTCCTGTGGGGATTG	16445	CTACCCCTTCGAACTCTTAACAT	27429	GTGGACAAAGTACTCACTCCTTCT	38413
4788	CGGTAGATCTGATCCTGGAACCTCT	16446	AATCGAGCCGACCATATCTGT	27430	CCACATGACCCCTAAGACGGTAGA	38414
4789	CCTTGCTGCTCATTGGCTTCT	16447	TCCACAGGGCTCCCGTGACA	27431	CCTTGCAAGGAAGTTTATCTTTTGT	38415
4790	CTCTTCATCTAGCCAGTCCACTT	16448	TGTCCTTTCTAGGCTGTCTCTGT	27432	CAAGGGCCTGGCTCTTTGT	38416
4791	GGCTTGTCGAAGGTCCATGATA	16449	TGGCCCCACTCCCAACAAAAG	27433	CTGGGCGGAGAGACACTAAATG	38417
4792	TCCAGGGAGGGCTGGAGACT	16450	TGCGGTCAAGCGGGCTCAGA	27434	ATCAGGGGCTGGTCCAACA	38418
4793	GGGCCACGCAATTTTCTGTGA	16451	AGTTCCTCGGTTGACAGAT	27435	CGAAGCTACACCTAGGCAATG	38419
4794	GTAGTGGGGATCTGACCTAGGAA	16452	CATCCACTGCTCGCTTTTTG	27436	GAAGGCAAAAGTAGTGGGGATCT	38420
4795	CCACCATCGGCCCATGTCA	16453	GCAAGGCTGGTCTCTGCTT	27437	TGCTGCACCTCCACCAT	38421
4796	ACGGGAGGGCAGTGAGCTT	16454	CGTCCAGGAGGTGGAATCATC	27438	GGCACCAGCTCTTCCATCTGTAG	38422
4797	TGGTGGTGTGTGCTGTAGTTC	16455	GCAATCTTCCCACTCAGCTT	27439	GCTGGGCATGGTGGTGTGT	38423
4798	CCACACACAGAACGTGGAAC	16456	GGGCGCTGCCATCTCCTT	27440	GCTGATGGCCCCACACACA	38424
4799	GAAGAGCAGGAGGAGGCAAGAA	16457	ACACTGGTCAGGTATGGATCACT	27441	GGTGCCACACAGAGGAAGA	38425
4800	GCCAAACTGGCTGGGTTACATC	16458	CCAGAGCCACCTGGAAGTAGGTA	27442	GCCTGTCTCAGGAGCCAAA	38426
4801	GTGGGTAATGACAGCAACTGAGA	16459	CATCGCTAAGTCATGGTGCACT	27443	CAACAGGAGTCAGTGGGTAATGA	38427
4802	GGCCCTGGGAAGACTTCAACAA	16460	AGGGTGGAGCCCTCTGTTTT	27444	GGTGAGCAGTTTCCAGTGCAAGT	38428
4803	CCAGAGGCTTGGCAGCAACATT	16461	GAGGAGCTCCCTCCTCTGA	27445	CCTTGCTCTCTTAATGAGCTACTGT	38429
4804	AACCCAGGAGACTCAGGGTCTGT	16462	TGGCTTCTCTCCCACTGTGAT	27446	GCCTGAGGTCTAAGGGAGATGAAC	38430
4805	GCGGTTGTGAGAAACACACTGA	16463	GCCTCTAAGTCCATCTTTGGAATTTG	27447	TTCACTCTGCGGTTGTGAGAA	38431
4806	ACTATCATCGCTCCGAAGGAA	16464	GGCTGGGCATGGCTGCTTAATA	27448	CCCCACTACCTAGTCCAGAATACTATC	38432
4807	GCTGAGCCTGGACGCTTGT	16465	CCTCAGTCTCAGGGAGATTCT	27449	TCTGGAGAGGTGGGAGAGGTTTG	38433

4808	TCCCTTGAACGACCGATTG	16466	GTTGTCTCCTCTCGCCTTCA	27450	AGCAGAAGGCTACCGTCCAA	38434
4809	GTTCTACTCGGCTTCTGGAAAGAT	16467	CCCTGACCTGTCTGGGTCTAT	27451	GGAAGTAGTGGTGCCAGCATTG	38435
4810	CACCTCCCGGGTTTTGTGTAAT	16468	GGGCGTGCACCCGAATGAA	27452	CACACCAGCATCTCTCCACAT	38436
4811	ACTGCCCCACCCCTCAAAC	16469	CTCTGGGAGCAGTGAAGGTTCT	27453	CGAACAGGAGCCTCTTCTACA	38437
4812	GCTAGACCCCTCCCTCCCAATGT	16470	AGGAATGGCCTGGGAGCTTTTG	27454	GTCTTTTCAATGGCGTTGCTAGA	38438
4813	CAGAACCCACAGCGCATCT	16471	TCCGTACCACAGTGGGGTTT	27455	CGAACACAGACCCCTCTCCTTCT	38439
4814	AGCGGAGCCTGGGCAATGT	16472	AGTGACGCGCAGCCCTCTA	27456	CAGAGGCCTGAAATCGAGGATGA	38440
4815	GCCGGTGCCATTGATTCATT	16473	TGTGAGGGCCTGTGGGATTCT	27457	AGGCAAGCCGGTGCCATT	38441
4816	CGAAGTCCCAATGGCAACTTTCA	16474	CGACGAAACCAAGAGCAAAGTGAAC	27458	AGGCACCGGAAGTCCCAATG	38442
4817	GGTCGCGGATTGTGCTGTCTA	16475	GCAGCAGCCCTGGAATGTA	27459	AGGAGGCAGGTGCGGGATT	38443
4818	ACGGGGCCACACGAGGGGAAT	16476	AAGTGCCCGCAGCAAGCTGTCA	27460	GTGGAGATCGAGGCTTGCTTCT	38444
4819	CCAGGCCCAAACCCACTACAAA	16477	TCCAGTGGTCTCTTGGCTTGA	27461	CACTGTGTTTCCAGGCCCAAAAC	38445
4820	GGAGTTTTCACAGGGACTTCT	16478	TCACAGGTCACACGGAGTCA	27462	GGGGAAGCAGCGAAATGGAGTT	38446
4821	CAGTGGGAAAGCCACGGACAT	16479	GGTCGACTGTCAACCTGTGT	27463	GCATGGAGACGAGTCAGTGGGAAA	38447
4822	GGCATAGGGGACCAGGAAAGTCT	16480	GGTACCAACCGATGTCTTTGCAT	27464	TCTGGTGCAGCTTGTCTT	38448
4823	GGGTTTGACTCATGGGAGTGTGT	16481	GTACATGCCACCCACAATAC	27465	GCAGTACGCGTGTAGGGTTTGA	38449
4824	CCCCTTCTGGATTGCTTCT	16482	TCGTTCCCGACTGTGGTGAGT	27466	CCAAAACTACTCCCTCCCACGTT	38450
4825	GAGAGAAGTGTAGTGGCGATTCTTCT	16483	GCTGTGGGGAAGCTCTGTTTG	27467	GCAAACTCAGTAGAGAGAAGTGTAG	38451
4826	TGCCAAGGTGTCTGTCTGTTT	16484	TGGAGCTGCTGCCCTGTTAG	27468	GCCAAAGAAAGACATTGGTCACTT	38452
4827	CGGTTGAAACTGTGCTCTCACT	16485	CCAACAGCCTGATGGTCTCTT	27469	GGCCTCTTCAGCGTTGAAACTGT	38453
4828	GCCACATGTGTTACTGGTGGAT	16486	CATATGGATTGCTGCCGGTAA	27470	CTGATCATGGCCACATGTGTTA	38454
4829	GCAGGCAGCCGTGAGCATA	16487	GCATCAAAACCAACAGACACA	27471	ATAGCAGCACCAGGCCACAT	38455
4830	CTCTGCCCTACCCATTCTGT	16488	GAGGCAGGGCCAGATAAATTCT	27472	GTGCGCAGTTTGTGATTCTGA	38456
4831	AGTTGAAGGCGCTGGAGAAG	16489	AGGCTGTCCAAGAGTCCAAGA	27473	CGTGTGGGCTCAAAATGCTGTTT	38457
4832	ACGCACACACCGCATACA	16490	GCACAGGCCTGTGAGAGCAA	27474	ACACCTGCCACGCGACACA	38458
4833	CCAAATGGCCAGCTGTGAAGT	16491	GGTTGGTTGCCTCTTGTTCAT	27475	CACCATCACAGCCAACTCCAAATG	38459
4834	GGCTGTCCAGAATTGGACTTTATG	16492	GAGCAGTGTGTGCTGTGGAT	27476	GCTGCTGAAAATATTGGCTGTCCAGAA	38460
4835	AGGCTGGCCCTTAAGCACGTT	16493	CGGCATCCAATCTGCTCTTAGT	27477	GGTACAGCCCAACCAAAATTAGACAAG	38461
4836	CAGGTCAACGCTCATCTTCGTT	16494	ATGAAGAAGAGCGGAAAAAGGAT	27478	TGTGGTTCCAAGTCAATCACATCT	38462
4837	TCTGCCAAGGGGTCAACCAT	16495	CCCAAGGTGCTGCTACTTGT	27479	CCGGAGTGGAAATCATCCCTAGTTC	38463
4838	GCATCAGTGCCCATTCACACA	16496	TGGGCAGCGCTCTGCTTCT	27480	ATGGTGGGCTCTGCATCAGT	38464
4839	CCGAGTTCACGCCATTGTAAAGTTCT	16497	TCCCTCCAGCTACAGAAACT	27481	CTCTTACCGAGTTCCAGCCATT	38465
4840	GCCCTTCAGGCTTCTGTGAGTA	16498	CCTAGAAGTACGTACCCACCAACA	27482	GGCTGTAGGGAATGAAGGAACA	38466
4841	GCTACACTTCAGCTAGCACTTG	16499	TGGAGGAGAAGGTGGCTGTTTG	27483	ACTGTGATGCAGGCTACACTTC	38467
4842	GGCTCACATGCTTTCCAGTGA	16500	GGGAACGGTAGTAGGATGAAAG	27484	GGCCAGTAGCATTGGCTCACAT	38468
4843	CTGGCCAGAAGTGTGTGCAT	16501	CTTTCCAGCCTCGATTGCAT	27485	CCCAGAAGCCTGCTACTTCCATTCT	38469
4844	CAATCTCTCCACCTCCAGAGTAG	16502	CACAGTGGCAGGCACCTGTAAT	27486	ACTCAAGACTGGACTCAAGCAATC	38470
4845	AGCCATGCCACCCACTGA	16503	GCAGGGAGAAGCTCCCTAGA	27487	GCTCAGACTTGGGCAGAACA	38471
4846	ACCCACAATTTCCTCATTTCT	16504	ACTGAGGGAATGAGGACTGGAT	27488	CAGCTCAACAAATTTAGCCCCACAAT	38472
4847	CGGCCCTTGTATCATATCCAGTT	16505	GGCAACGCAGGCAAGGTGT	27489	CACACTCATCGGCCCTTGTATC	38473
4848	CAGGCCAGGGAGAGCTTTGT	16506	GGCTCCCTCTCAGAGCAAAA	27490	GCAGAGAGGAGGCGAGTGA	38474
4849	CCAGAGCATAGAAAGCCGATCA	16507	GGACTGGAGTCTGTTGGGAGAGA	27491	CGGCAAAATTGTAACCCAGAGCAT	38475
4850	CCACCTTTACCCAGGAGAAACTCA	16508	GACGGCTCCGTCTGTTGAGAAA	27492	TCCTCTCACTGTTCTTCCACCTT	38476
4851	TGCTCTGATACAGAAAAAGCATGT	16509	GCACCTTTGCTTAAGCATCATTG	27493	CCCTGGAAGGTAATTTACATGCTCTGATAC	38477
4852	CCAGAAACAGCAGGGGAATTGT	16510	AGGGATAACATGTCTCTTCAACTT	27494	CCATGAGGCATAGCAATTACCAGAAAC	38478
4853	ATGCCCCAGGGAAGACCATTC	16511	CAGCGTGCAGTCTGTAGTCT	27495	GCGACTTTGAGCCCATCCTTCT	38479
4854	GCGAAGCACCAAAGGTGATGT	16512	AGCTGTGGGTTTCGTGTGT	27496	AGCACTGGCGAAGCACCAAA	38480
4855	AGGCTTGGCCTTGCTTTCA	16513	GAGGGAAGCCAGCATTATGAAG	27497	GTGTGCTTCAGCATGCCAGTTAG	38481
4856	CCGGGCGTGTGTTGACTTACA	16514	CCTCTCTGCTCTCGTAGTGAGA	27498	ATGCCCTTTCGGGGCGTGT	38482
4857	CAAAGGTGTAAGTCGAGTCT	16515	GCTTGAGCTGGGTATTGTGTTT	27499	TGAAACTGGAGAACCAAGGTGTAA	38483
4858	CTGGAAGTCTGTGGGGTCTGTA	16516	TCTTCTTGGGCTGGGAATG	27500	CTGAGTCACCTGGAAGGTCTGT	38484
4859	GCTCTGTGCTTCTCATCTGCTT	16517	GGCTGAGCCTCACAGTAACAA	27501	GTAAGTGGGGCTCTGTGCTT	38485
4860	CTTCATCAGGGCCAGAACTCTT	16518	CAGGGACACAAAACCCGATCA	27502	GCAGGTTCAGTGACTCTTCATCA	38486
4861	TCCATCTCCACCACTGTT	16519	TGGGCTAGGAAGGTTTCACT	27503	TGAGTCCTAATCTCAGCTCCATCT	38487
4862	CGCGGTAATCCACAATCACA	16520	CGCGATGACATGGAGGTGAA	27504	CTTATCTCACCACGCGGTAAT	38488
4863	GCAAGTGGCAAGACAGCAAGA	16521	ACATCTGGATCAGAGACTGCTT	27505	GGCAGCAATTGGTGAGAGACAAG	38489
4864	CACTGGCTTGAACATGAGGCTTA	16522	TCTCCACAGGGTCTGCTCAA	27506	CCTGTTGACACTGGCTTGAACA	38490
4865	ACAGTCTCACTCCACGTCACA	16523	CAGACTCTTGCACCTCAGTGT	27507	GGGCAGCACAGTCTCTACT	38491
4866	GGCCATGGGATCTCTGTGATACTA	16524	GCTGCTTCCACATTACGTTTGAGA	27508	GGTTTGTAGGCCATGGGATCTCT	38492
4867	GTTAGCCTCTGACTATTCCTACATCA	16525	CTGGTCCAGCCTGGGAGTTG	27509	CCGTGCTGTGTGATGTTA	38493
4868	TGGTGCAATGCTTCTTAAGTT	16526	TGCGGTGGACAAGGGAAGT	27510	GCTCACTCCGAGTTGGTGCAAT	38494
4869	AAACGCTGCCTCCCTGCTCAA	16527	CGGCCTGGAGGGATATTCTTG	27511	GACCCAAAGAAGCCAAGGTGAGA	38495
4870	GTTCAATTCTAGGAGGAGTGGAA	16528	TCCTGCAGCCAAAGCTCACA	27512	CTCAGTCTCAAGGTAAGTGTTC	38496
4871	ATCCCAAGGTGGGGAGCTT	16529	GCCTCAGGACTTTGAACCAA	27513	CCACCTGTATGGAGCGGCAATA	38497
4872	ACAGGAGTGCTGCTCAATGA	16530	GATGGCAAGATCCTGTCTTACAA	27514	GTCTCCCAAGTAACGGAGACTACA	38498

4873	TGGCCACACCCACCTAGCTT	16531	ACACACAGGGAGAGGCCGCTT	27515	TCGGTGCCCTTGGCTTGT	38499
4874	GCTCAAATCCACCCAGAGGTCACA	16532	TGAGCGCAGACCTTCCTGAT	27516	GAGGTAAAGCCAGGAGCTCAAATC	38500
4875	CAAGGAGAAGACGGCCTGCAA	16533	GCGTCCCTCGGCTTGTA	27517	GTGAAGTAAAGGGGCAAGGAGAAGA	38501
4876	ACGTGCACTGAATACCGGAAAG	16534	TCCGCGAGGTGAAGCCTCTA	27518	CCGTCCAACTGCACTGAAT	38502
4877	AACCCACGAACAGCCTCACT	16535	GGCCTGAAGCCCGGATATT	27519	AGCTCCGCTCAACCCACGAA	38503
4878	CGTCTGCTGCGCTGTTAGAAAC	16536	ACGCGATGTCCTGGAACAA	27520	CTGCGGTGTAGATAACTGAGTGAAG	38504
4879	TGTGACTGGAGGTGGCATCACT	16537	CAGTCACCTGAGTGAAAGCTAAGT	27521	GTGCAGAAGCACCTTGGTTGT	38505
4880	CACGTGTGTTCTACCTGATGCTGAA	16538	CCCAATCCCGCAGCTCTCA	27522	GTGTTGTGTGCACGTGTGTTT	38506
4881	GGAGAGAGGGTCTCACCTTGT	16539	GCCAACAGCAGAGAGAGAACA	27523	TTGCGTTCAAGGAGAGGAGAGA	38507
4882	TTTACC GCCGACAGAGAA	16540	TCTGCTGTCCCGAGTCTTG	27524	CCGCTTACCTCTCTTTGAGT	38508
4883	TCAACGCCCGGGCCAATTC	16541	ATGCTGGGTCTCTCTCTGAGA	27525	GGAGCTTTGAAAACCTCCGACACTCT	38509
4884	CCTTGAAGTCCATTTTACCAGTATG	16542	CCCTGTGGGCTCTCTGTTACA	27526	CCACTTGCTGGAGTTCCTTGA	38510
4885	ACACCAATGAGCTTGGTTGA	16543	CCAAACAGCTGGCAGGTGAAG	27527	GGGTGGCATGAACCTTACACCCAATG	38511
4886	ATCCAGCCTTCTGGGCCATTTC	16544	TGGGTGCCAGAAAGCAGCATCT	27528	CCTGTTTGCAGATCCAGCCTTCT	38512
4887	CCTCTCCCTCTTGACAGTTA	16545	AGGAGTGGCCAGCAGTGA	27529	CCCTTGGATTCTGATGCCATCTCGTT	38513
4888	CTCTCTAGTTCAAGTCTCTGCTTGT	16546	GAGGATGAGTGCTGACTGTGT	27530	CTGGATGTAAATCCCTCTAGTTCAAG	38514
4889	CATGCTGGGGACAGACTCTCA	16547	CCGAACCCACTTGGCCATTG	27531	ACAGCGCCTCTGCTATCCAT	38515
4890	CCAGAAATGTGGCTTAGAGGAAGGAA	16548	GTGCGCTCGGAAGGTTGAATAG	27532	GGCGCAACCAAGAAATGTGGCTTA	38516
4891	GCTGGGTGGGATTGCTTGA	16549	CACGGCTCACTGCAGCTT	27533	ACATGGTGGTCCAGCTACTCA	38517
4892	CATTAGCAGCGGACAGGACCAA	16550	GGCTCTCAGAGTGATGGGACAT	27534	GGGAGACAGCCAGAGCAACTCATT	38518
4893	GGAGACCGGTGTTTCTCTCTTG	16551	TTGTGGAGCCCGAGTCTCTGAA	27535	TCCCTGGAGACCGGTGTTTT	38519
4894	CAAAGGCATGACAGGTGTGT	16552	GTCTTACTTCTCGTCCAGTAG	27536	GATCACACCCAAAGGCACTGA	38520
4895	TCCATTCCCTACTCCAGCAT	16553	GTGGTGACAGAAAGCAGCACATC	27537	CGTGCCATTGTCAATCCATTTC	38521
4896	GGGAGCAAGAGTGGATCGTTCT	16554	TCCTCCGAGCCACTGCTCAT	27538	GAAGAAGAGATTCTGGGGAGCAA	38522
4897	GTGAGTCTAGGCTTCCAGCAA	16555	GCCACAAGCCCGACCTTT	27539	TGGGTGGATTGGGTGAGTCT	38523
4898	CGCGTTACAAATCGCTCTTC	16556	GCCACCCTACGCTCTGTGT	27540	GCTGCTTGCAGTTACAAA	38524
4899	CCCTTGTTTCTTCTCAGGGCTAA	16557	GGAGTCTGTTGAAAAGGCTGGTT	27541	CCTCCCTCGTTAACTTCCCTTGTTTC	38525
4900	AACGCCAGCTGAGGTTTGA	16558	GTCCCGAGGGAAGCCATTGT	27542	GCTGCAAGGGCTTCTGAAA	38526
4901	TTTTCCCGCTGCTGTGAT	16559	AGGGGAGATGCTGTGATGA	27543	TGAGGGAGGCCCTGCTCTTTT	38527
4902	GTTATGTGGGAAGCCCAACA	16560	AGGCACCAAGTGAAGTGTGT	27544	CCCTGATTCTCAAGACCTCTTTGTTG	38528
4903	GCCTGGGAACTGTGAATGGAA	16561	AGAGTGGGCGAGCACTGA	27545	CCAGGGGCTGGGAAACTTG	38529
4904	CCGCTTGAAAAGCCACCTGCTA	16562	CCCGCTCAAGCAGACACA	27546	CAGCATGGAGCTAGTCTGTGA	38530
4905	CTTCACTGGAACCCAGAAACA	16563	CAGCTCTACCTGCGTTTTG	27547	GGAGGTGTAACCACTTCACTGGAA	38531
4906	GGCACCAGCAACTGGATCTT	16564	ACAGCCGCTTCCAAAACA	27548	CGCATATAACAGGCCACCAAGCAA	38532
4907	GCCAAACAGGACGAGATTGA	16565	CGGTCACTAGGCACCATCTAATTC	27549	TGGGCCGTCTTCCCTGAGA	38533
4908	ATCTTCTTGCCTGGAGTCTA	16566	TGGCACGGCCACGAACATC	27550	CCACGTGTCTTCGTCATCTTC	38534
4909	TGCGGATGCGGTTTCTCTCT	16567	GGAGTAAACCACTGCCTCTCT	27551	GGGGACCTTTGCTCCGTTTG	38535
4910	GGAAGTTGGGGAACAGGAGGATA	16568	CCAACCCCAACAGAAAGACCAA	27552	CCCAGAAGGAAGTTGGGGAAC	38536
4911	GCGAGGTTAGGACGGGTTAG	16569	ACAAACAGCCTTCCGTCTCTTC	27553	AGGCTGTAGACGGCGAGGTTA	38537
4912	CCACTTGGCAGTGAGGGTATTC	16570	AACCACTGGCCCTCTGTAG	27554	ACACGCCCACTCTCCACTT	38538
4913	TGCCAGCCCACTCTGTGA	16571	GGGAGAGTGCCCTGTTGTTGT	27555	GCCCTGCAGAACTCCCACT	38539
4914	CACGTAGCTTGAGCCAACA	16572	GCGTTTGCACTGGGAGATGAAG	27556	ACCACCTCTCACTGCAGCTT	38540
4915	GGGCGCTGTGACTAGAACAAAG	16573	GCCCACCTGCATTGGCTTT	27557	AAGATGAGGGCGCTGTGACT	38541
4916	GCAATGGCATCTTGGGAAGA	16574	CCAGGTGCCAGGTGTCTAT	27558	GGGGAAGACGATGAAGACAGCAA	38542
4917	TGGTCCCTGTGCTCACT	16575	CCCGCTGATTCTGGGAGTTTT	27559	GGGAGGCAAGGGAGTCACT	38543
4918	AGCGGCGCAGTGAGTACA	16576	TTGCGGGGTGTGCGAGAT	27560	AAGTGGCAGCGCCAGTGGA	38544
4919	CACACTGGCTCCAGGACACT	16577	CGGGAGCTGCTGTTGTTG	27561	AGCCACACAGGACAGGACTTG	38545
4920	CAGTGGCAGGTCCATGTTTTG	16578	TCCTGCTCCTGGCACAT	27562	CTCAGTGCCAGGTAGTGATTTC	38546
4921	GCCTCAGCTCCTCTGGGTAA	16579	GGTATGGGGAGAGGACCCTGAA	27563	GCGAGTCGCTGAACCTCTCT	38547
4922	GCTGTGGGTCTTGCTCTGCTTT	16580	GCTTGCTGGTGGATGTCACT	27564	AGGTCTTGCTGTGGGCTTG	38548
4923	CCCCACAGCAAGGACATAGGAA	16581	TGCTCTGTGGGTGTACATTC	27565	AGTGCTGGCATCTGCTA	38549
4924	GTTCCCAACAAGGGGCATCT	16582	GCCCAGAGCTCCATTTCACTGT	27566	TGAGGCCTGGGTATTGAAGA	38550
4925	AGTGGGTGTGCCTTTGATG	16583	TGTTCACTGCCAAAGGTGTGA	27567	GCCACAGAAGGTGTTTTCGTT	38551
4926	GCCTTCTCGTGACCTTGT	16584	CGGCCAGGAGAACCAGAACTT	27568	GCTTGGCCAATGACAGCCTTCT	38552
4927	GTGGAGTTGGCGGTGGATGTA	16585	GTGCGTGTGGTGTCTCTCT	27569	ACCAGCCTCAATGTGGAGTTG	38553
4928	TCCTAGAAACGTGACGTGTAATGTAG	16586	GTACAAAGATTCCGACCCCAAGA	27570	GCAGAAGTCTCCACACTGTCTAGA	38554
4929	CCCGGGCTCATTTAGTGTGTGT	16587	GTGGTTGGGTGGGCAGATAGA	27571	GCCTACATCCCGGCTCATTT	38555
4930	CCCCAGGCGTTTCTAAACAATCA	16588	CCTACTGCTTGTCTAGTGT	27572	GAAAACAACCCAGGCGTTTC	38556
4931	AATTTCCAGGGTGCCTGGTT	16589	CAACGGTAAGACTGACCAGACA	27573	GCTTCTCTGGGTCTCAAGACATAAT	38557
4932	CCAGCCAGCCTATGTGCTAA	16590	GTCTTAGGCTAGCTAGGGCAAGTAG	27574	CACCCAGCTTTGCTGGACTTAC	38558
4933	CCTTGGTGAGTGAATTTGCTTGTGA	16591	GTGGGATGCCCTTACACATCA	27575	GCTCTCTGTTGGTTCAGGCTTT	38559
4934	CCAGCTCCTTATAGGGCTATTAAC	16592	AGCGAGTCTGAATCAACAGT	27576	ACTCTTTGTGAAACAGCTCTTA	38560
4935	GGACAGGTGGTCTAGCTTGAA	16593	TCCTGGCTCCCACTCACAAAC	27577	AACCCAGGGCGTGGCACTTCT	38561
4936	GCACCACTTGCTTGCTCAGT	16594	CCCAGCACTTCCCTAAGCAGTA	27578	GTGCGCTATTGCAACACTTG	38562
4937	CTCAACCAAGCTCTTAAACACAGT	16595	GCCTGGCTCTCTCTCTGT	27579	GCCTAGGAGAATCTATACTCAACAAAG	38563

4938	AGCTCTGGGACGGGCAAAC	16596	GAGCTCTGGAAGCAGCATCTAAGT	27580	CCCAGTGAATATGGGCCTGATG	38564
4939	TGGAACAGCCCTCTGTGTGTA	16597	TGATGCAAAACAGAGGAAGGAACA	27581	GCAGACAGGAGGCTCTTTCCAT	38565
4940	ACTTTCCTGACACCTTTATACACTTC	16598	GAGTCAGCGTCTCTGTTCTGTAG	27582	CAGTCTCACTTCCCTGCACCTT	38566
4941	CACAACCCACCCATCAGTCATTG	16599	GACGAAGGTTGGGAGTCAGAAAC	27583	CCAGCAGATTACACTGTAGACACA	38567
4942	CCAGAAACCATGCCATTATGCAA	16600	CACAAGGTAACAGGCACCTTCTT	27584	GAGAATGGCCAAGGTGTGGAA	38568
4943	GAGCAGCCAATGCACAGTCA	16601	GACAGACCCAAATTTCTGCCACAT	27585	AGCAAGGTTGAGCAGCCAAT	38569
4944	TGTTGAGACCTCTGGAAATTGCAT	16602	CCACCGTGCCCACTACATA	27586	GGAGAGATGTTCTATTGTTGAGACCTCTT	38570
4945	CCCTGGCTTTGGTTTCTTTTCA	16603	GGAAGAGAAGGTCTAAGCGGAAGT	27587	ATCCCTCATCCCTGGCTTTG	38571
4946	ACGCACGGGAAGCTGAAA	16604	CTCGCAGACCGTGCAACT	27588	AAGGGAACGCGGTGGTTAG	38572
4947	GAACCTTGACGCTAGAGCTTTGA	16605	TGACTTGACGCTCATGGAATTTTG	27589	AGAGAATTAGGGTGAGGAACCTTGA	38573
4948	CTGTGGTCTGACATGCCCTGAT	16606	ATCGTGGAGACTGGCTGGAT	27590	TTGCCCCCTCTGTTGGTCTGA	38574
4949	AGCTAGAATAGCCCTGAGTGT	16607	CTGACCGCTAGCCCTGTTAG	27591	CCATACAGTGAGCTGTGGAGCTA	38575
4950	GCTCAAAGTGATAAGGAAGGATGA	16608	GCTGCCACCATGACTTCTCT	27592	GGGAATAAGAGTGTAGCTCCAAAGTGA	38576
4951	GGATGCAGCAAAAGGCAGATCTAAG	16609	CCCCAGGCAGAGCCATATCT	27593	CCAAAACGTTGGGATGCAGCAA	38577
4952	CTTGCTGGATGCTCAGCTTGT	16610	CCTCTGTCCATGCAATCCCAAGAA	27594	CACCCAAATGTCACTGTCTGGAT	38578
4953	ATCAGCCCACTGCTATGTCAAG	16611	TGGTGGAGCCAACGGATAGAT	27595	CAGGAGGTTCTCAGCTCTGTTG	38579
4954	GGAAGGCTGATAAGAGCAGTTTGTGA	16612	CCCAGCTGCCTTCTCTCAACTT	27596	CTGTGGAGAGGGAAGGCTGATAA	38580
4955	CTGTCTGGACACGGAGCAGATAA	16613	GGGTGGACATATTCCAGGTCAAC	27597	AACCTTTCTTCAAGGGCTGTCT	38581
4956	TGGCACCAAGCCAAGGGATCT	16614	CAGGTAGGAGGTGTTCTGGTCAAG	27598	GACTGCAAGGATGGCACCAA	38582
4957	CATAGATTGCCCACTTCTAGGTT	16615	GGGCTGACCTGAGACCTAATA	27599	CAGCCACTGGAAGCTTTGT	38583
4958	TCTCACCGCAGCCTTCTCTA	16616	CCTGTGCACTGTTGATGCAA	27600	TGACCTCCAGGTTGAGGGAAT	38584
4959	TGGGAGCTAGCCACGTT	16617	GACTCTAACCACTTATCACCTCCATTG	27601	GCAGCAGATGAGATGGGAGCTA	38585
4960	TACCCAGTCCACCTCCAACACA	16618	GGGAGGATGGAAATTCAGCCTTGT	27602	GGCTCACCACATACCACTCTCT	38586
4961	GCTCTGGGAGAAAAGATAGGCAATG	16619	GGTTGGAGCAGGGAATCAGT	27603	CAGCCAGCTCTGGGAGAAAAGA	38587
4962	ATAGGCCGGTCTGAAGGAGGAA	16620	ACCCCAAGCCACCTCCAT	27604	GTGTGACATGCCATGACTGAGA	38588
4963	CTGCCATTTCTTTGGGACTGATG	16621	ACTGGAGCAGCCTTGAGACA	27605	CCATGGTTCTCTCTGCCATT	38589
4964	CCTCTCCTTTGACATATTTCTTCAGT	16622	TCACAGGCCAGAGTGTA	27606	CCTGAGAGCACTGAAACCTCTCCTT	38590
4965	CTTGGTCAAGGTCATTGGTTAGA	16623	CCACAAGGCCGATCTCATGT	27607	CCAGTAATGATGAGGCAGATGTCTTG	38591
4966	CTGGAGGATGAGGGGAGAGAACT	16624	GCTGCACCTGTTGACCCATT	27608	TGTTAGCGGTGGAGGATGA	38592
4967	ACCCCATCTCTGCCACTGTT	16625	ACACCCCAAGGACACACCAAT	27609	GGAACCATGCTTAACCCCATCT	38593
4968	CCTTCTGCCTCCCTTGAAAT	16626	GTGGGCTTGTATGGGACTCA	27610	CCAGATGGCTAGCATTGACCTT	38594
4969	GTGCCTTTGAGACCTCTGGAT	16627	GGCACAACGGGCCCTCATTTA	27611	GGCACTGTATGCTAGTGCCTTTG	38595
4970	CAGAGAGAGTCATGTGGTATGTTT	16628	CTTGAGTCCCTGCACCTTTAATTCT	27612	GCTTGCCAAAGTCAGAGAGAGTCA	38596
4971	AGTGAGCCCATGCATAACTGATAC	16629	GCCCATGAACAAAGTAGCCATGA	27613	GGGGAAGTCATGATCCTGAGTGA	38597
4972	GTCTTTGCTTGGCCTGCTGTA	16630	GATTGCATGGCACCCAGTCT	27614	TGACTCTCGGTTAATGTCTTTGCTT	38598
4973	CTGCTGCTGTTAAAGATGGGAACA	16631	GAGGGAAGGGAAGAGAGCCTTA	27615	CACATGACCACTGCTGCTGTT	38599
4974	TCTAGCTAATGGAGAGGCTGAGAT	16632	CCTTGACATCCAGGCTCAAGT	27616	GTGGCGCACATGTGGCATTT	38600
4975	GGGGCAGTGAGTATTGTCTAATGA	16633	CGAAGCCGAAAAATGGAAGCTATG	27617	GGCATGGGGCAGTGAGTATT	38601
4976	GCAGCTGTGCCATGTTGTGA	16634	CCTGGCCAAGAGGCCAACAA	27618	GGGTTGCATTGCTCCCTATTCACT	38602
4977	GCTTCTCATCATCTTCCGGTCTTTG	16635	AGGCCACAGAGAAGGTGACAT	27619	GAGCTGGCTTCTCATCATCTT	38603
4978	TCTTCTGGAACAAGCCCAACAA	16636	CCAGAAGTCTGCTCTGCTTCA	27620	GCATTCTAGGAGGTCAATTCTTCT	38604
4979	GGTTGTGAGGGGCAAGCTTGA	16637	GGCTGGGAGTCAAAATTAGGGTATC	27621	CTTGGTGTAGACGAGGTTGTGA	38605
4980	GTCAGCTCCCTGGGCCATA	16638	GGACTGAAGTCTCAGAAGCAAA	27622	GGCTGAATGTACCCAGCCAAGTCA	38606
4981	CCGTAAACCATTTGCACAGCACATT	16639	GCCCTGGGATCCAGAAATTCCTA	27623	CCACTCCATCCGTAAACCATTTG	38607
4982	CTCAGTTGGCCCTGTGGTAATG	16640	CAGGAGTCCACCCCACTTTACA	27624	GGTTGCACAGGCCTCAGTTG	38608
4983	AGGCCACAGTGACCGAGTCT	16641	CAGGGTGTGTCACAAAAGGAA	27625	GCTATTTCCGAGGCCACAGT	38609
4984	TCCGGAGCCGGGATCTTTAG	16642	GGACAACCAAGCACCACAAAGGAA	27626	GGAGGTCTCAAAACCGGTGAGATG	38610
4985	GGCATTGCAACTACCTGTGTGA	16643	GACAATGACGTGGCTCCACCAT	27627	ACACAGAGGACTTTTTGGGCATT	38611
4986	CCTGGGCTTTGCCCTTCTCA	16644	ACCAGGCCAGGCACTAGGAA	27628	TGATGGAAGGTCTGGGGCTTTG	38612
4987	CTGCTCTATGCCATGGGTCTGA	16645	AGCAGGGGAGCCCATTTGATGT	27629	TGCTTCCACCCCTGCTCTATG	38613
4988	TGGCAGGCTTCCCTCAACATC	16646	CCCCGACCTCCCAAGTACT	27630	TGCTGCTGGCCCTTCTT	38614
4989	ACCTCCATTCAACGGATGAGAAAAA	16647	GGAGAAGTTACTTAGCCACACTGA	27631	GCAAAATAGGCATTACCTCCATTCAAC	38615
4990	GATAGCCGACGAGTGTTCTCA	16648	ACATGCGTGGTGTCTCTAACAT	27632	GCGTGGGAGGCCTGAAGAT	38616
4991	GGAAGCCTCTGCGCAGATT	16649	GCAGCTGTGCACTGTTTGT	27633	ACACCGAAAAGGGCAAGAAAGT	38617
4992	AGGACCTCAGAAGGGAGCAACT	16650	CCTCGAGGAAGCCTCCCTTA	27634	GGTGGAGACAGTAGGACCTCAGAAG	38618
4993	GGGAGGGTTGCAAAATCTAACTCA	16651	CTTTATTCTCTGCACATCCAGGTT	27635	GGGTAGGGGAGGGTTGCAAAAT	38619
4994	GGATGAAAGGCTCTGGGAGAAG	16652	GCTTAGAAGCTCCACAGCTTGA	27636	GAGATCTGGCAGGGTAGGATGA	38620
4995	GGATGGCTGCTGCCCTCTTA	16653	AGTAGGGACTGTGGAGGACACA	27637	AGTCCAGGCTGGCTGGAT	38621
4996	CCATTTATGTTGGGATGACGAA	16654	CACTGTGCAAGAACAGATGGTTGAGA	27638	GCGTTTGAGTTCCCATTTCA	38622
4997	CAACATAGCCCCAAAAGACCTCAT	16655	GCCAAAGTTCCAAAGAGAGAGAA	27639	ACAGAAAACCAACATAGCCCCAAA	38623
4998	ACTTTGATTGTGTCACTGCTGTCT	16656	GAAACACGGTCTCACTCTGTCA	27640	TTGGCCAAATAAAGGACAGTGAAC	38624
4999	TGTGTCCCGACGTGTCAAC	16657	GCGGTTGAGCTGTACTCTGA	27641	CCAGAAGCCGGAAGTTGTGT	38625
5000	GCTGGCTGTAGCAGAACTGA	16658	TCGCCCTCATTTGCTTCT	27642	GTGAATGACCAAGCTGGCTGTAG	38626
5001	CCCATAAATGTGGGGAGGTGAT	16659	GGAGGGGAGTGACATTCAA	27643	CAGGACTCACCTTAGTCCCATACAA	38627
5002	CCTCCCCAAGGGGAAGCATTTT	16660	GCCAAAGAGAGGGTGCTAGT	27644	GAGAAGGGACCAAGCCAATTTCA	38628

5003	TCTGGGAGCTTCTGCCTCATC	16661	TGATTGTGGGGCCAGAGAGA	27645	TGGCCTTACATTACAGCCATTCT	38629
5004	CTGTTTACACGATGCAAGATG	16662	TGGCTTGGTTGGACACACT	27646	TTCCACCACCACTCCCAGTGA	38630
5005	CTGAAAGCTATGCGTGTAGTGCAT	16663	GTGTAGGGTGTTAGTTGCCACAGT	27647	AGGTAGGGCCCTGAAAGCTATG	38631
5006	GGAAAGAGGTTTCAGGCTCTATGTGA	16664	CCCAGCAACTGTAGCACTGA	27648	CCCAGATCATATTTTGGAAAGAGTTCA	38632
5007	GGATGTACCCCATGCATCCTAAC	16665	TGAGCCAGGGAATGCTTGAA	27649	CTGAAGGCACTAGGGAAGGATGT	38633
5008	CCCACCTCAACCTTGCAAGTAAC	16666	AGGGCATGTTGACACACAAC	27650	GGGATTCTCCCACCTCAACCTT	38634
5009	CCCAGCGTGAAGGCAAAAAG	16667	GAAGGTCACTTTTCAGGGATTACAGA	27651	CCCTTTGGTGATTGAGCATGGTA	38635
5010	CAGTCAGAAGGAACAAAGGAACCAA	16668	CCAGCCTGTCCGCTCTAA	27652	CAGGAGTTGGTGTTACAGTCAGA	38636
5011	TGAAAAGTGATGGTCTCTGTTGA	16669	GTGTGGAGGCGAGAGTCTGAA	27653	CCCCAGAGTCTTTGAAAAGTGCAAT	38637
5012	GCTGGAAGTCAAGTCAAGCAA	16670	GTGGCAACAGTTATTTTCCACCTA	27654	GTGAAGCGATTGCTGGAAGTCA	38638
5013	TGGCTCAATTCAGGCTTAC	16671	TCCCTCAATCTAGCATACAACAATC	27655	CTCTCTTCTCTGCGCTCAATTC	38639
5014	GTGGTTGTAGTGACGAGTTTGTACT	16672	GCTTACCAAGCGTTTCCCTTGT	27656	CCCTTGTGTTGAGTGTGTTTGT	38640
5015	CAAGACAGCAGGTATAGAGGAACA	16673	AGCGTCTGCTCCTCCTCTTG	27657	GACCATAACAAGACGACAGGTA	38641
5016	GCTACTTCACAAATGACCAGGAATC	16674	CGCAGACTCAGCAAACTATTCT	27658	GTGGTAGATTCTAGCTACTTCCACAATG	38642
5017	GCGACCAGGATGACAGGTGTA	16675	ACACTCTGCATAGCTCAGAACAA	27659	TGTCAGAAGGCGACCAAGAT	38643
5018	CACCTTGCCTGCATGAAGATTGT	16676	CTGGAAGAAAACGGCTCTGATAAC	27660	GAGAATCAACCACTTTGCTCGCAT	38644
5019	CCCAGTTACATCTCTTCTCCATTCT	16677	CCACTAGTAGCCGTGTGAAAGAT	27661	GGGCTTTGAGTCTCCAGTTACA	38645
5020	TCCTCCGGGGTAAGGGAACA	16678	GCTCAACGTCCTCATCAAGACT	27662	ACCCCAAAGCGGCAAGAAGT	38646
5021	GATCCAGGAGTGTCCAGATTG	16679	AACCCGCCACCGTTTGTCT	27663	ACCTGGGCTTTGTGGTGAT	38647
5022	CTGACGGGATTAACCGGTCAATTATCA	16680	AGGGCCTGCAGAACACACATC	27664	AGGGACAGTCTCCTAGATCTAACTATC	38648
5023	CCCAGGCAGTGTGTACTACAA	16681	GTGGGTGTCTCACCATTGAAGA	27665	ACAAACAACCCAGGCGAGTGT	38649
5024	GGCTGCTGAAGGATGACAGAT	16682	CCATCAGATGAGTGCTTAGTTCT	27666	AGCTGGAGCTAGGCTGTGTA	38650
5025	CTCTCTCCACTGAAGTTGTGACATTA	16683	GAAACAGCAAGGTGTGTGCAT	27667	CCAGAACCACTCTCTCCACTGA	38651
5026	GCCTGGAGCTCTAGCAACTGTA	16684	CCCATAGCCAGCATGTTAGAGA	27668	TGACTGGATCCCAGTGCTGTTG	38652
5027	CATAGAGCAGGATCCACACTT	16685	GCAGCCAGCACTTTGTGTTTC	27669	CGTTTGGCAAACCTTAATCCACATAG	38653
5028	AAGCGCAGCAGGAAGAGTCA	16686	CCCACTCCAAGCACCACAA	27670	TCCTGGTCAGATGCCACAAG	38654
5029	ACCTTTGCGAGACATGGGATTG	16687	TGCAGGTGGCTGAGGTTC	27671	GGGGACATTCCATAGTCCATACCTTTG	38655
5030	ATCTGGGAAGCCAGGGAGGAAA	16688	TTGGCCCAAGGGGTGAGCATA	27672	GAATGGGTGAGGGGAGACAACT	38656
5031	GCTGAGGACACCCATCCTTTC	16689	GAAAAATCCACCACTCCAGAA	27673	TGAAGGGGCTGAGGACACA	38657
5032	CCTGCTCCATGACCACAGGAA	16690	CGAAGCTGCTTTCACACACTGTGATT	27674	TGGCCCATGCTGCTCCAT	38658
5033	TGTCACACGTTGGGCTTAC	16691	GTGCAACGAGTTACTGCCGATAATG	27675	AGGGATGCAACCCGACTGT	38659
5034	GAGCCTGAATCTCCACATA	16692	CCCCAAGGCTCAACACAGA	27676	GCTAATACAACCTCTGAGCTGACT	38660
5035	GGAAAAATCCACCCGTGAACAGA	16693	TGGGAGTGAGCTGCCACAAA	27677	GGACAGCCAATCCAGATCACCTTCT	38661
5036	GCCTGGTCACCTTCATGTGCTT	16694	GGGAGTGAAGTGACGTCTGAAA	27678	CCAGGAGCCTGGTCACTT	38662
5037	GAACTGGAACGTTGGGTCAA	16695	CCATATCTTCTCAGGCCCTATCT	27679	GGTGAGGTCGAAGAAGCTGGAA	38663
5038	CCTGAGGTTAGGCACCTCCAA	16696	TGGGTGCCACGTGTGATGGTA	27680	TCTCCAGAGGCTGAGGTTAG	38664
5039	CCATGCTGCCATCTGGGTCAAA	16697	AGTGAAGAGCTTTGTGGTAAG	27681	GCTTTCCACATCTCCTCAACCAT	38665
5040	GAAAGGTGGGCTTTCCACACA	16698	GTGGACAGCCAGGAACAGTCA	27682	CCCACAGTTCTCCAGTGTCAGA	38666
5041	CTGCCTTGCAATTGCGACAGA	16699	CTGAGAAGCCGTCTGCATCCTA	27683	AGGTGTCCTGCTGTCAT	38667
5042	AGCTGTCCCGGGAAGTTGAA	16700	AGAGGAAAAGTATCTCGCCCAAAA	27684	TCCGAATCTTGACACAGTCTTAG	38668
5043	AGCCTTGCTGTGCTTCTTTC	16701	TGCCCCGAGGGGAATTAAC	27685	GTGCAGCCTACTACTGTTTCTT	38669
5044	TTGCTCTGGAGGGCACAGAA	16702	AGGGCCAGGGCTCCAAAATC	27686	GACGGAACCAAGATGTTCTCCAT	38670
5045	CCCCCGGGTCTTTGTGACATAAT	16703	ACCATGAAGGCCCACTGT	27687	TATTTGCCCGGGGTCTTTG	38671
5046	CTGGCTGACAGTGTCTCAGTAT	16704	TTGCCAGTGCGTAGCAA	27688	GGCTGCCCTGCAATTATTGAAT	38672
5047	GGGGAAGAAGCAAGCATCAGT	16705	GAAAAGCAGGAGAGGCTCACT	27689	GGAGACCAACTTTTGGGAAGAA	38673
5048	GCACCAAGGGTCCATGGATGCTATAA	16706	CTACGACCCCGCTTGCTTTA	27690	GATTGACGACCAAGGCTCAT	38674
5049	GCCATGACCAAGCAGCTACA	16707	GTGGGGACTGGGCTCTCAAAAT	27691	CCAGAGGAAGTTTGTGCCATGA	38675
5050	ACACTTGTGGCCCTGAGTTC	16708	ACCTATTCTCTCTGGACACA	27692	CAGACGTAGACCCCACTTG	38676
5051	TTGGGGCTCAGGCTCAGTGT	16709	CTGACACACAGAGGAAAATCCTA	27693	GGGCTTCAGGCAATGTTGAATTG	38677
5052	ATGGCACCTGCCACGTCAGAA	16710	GGGATGCTTAGAGCAGGCAGTT	27694	CCTCCGCACAAGTTGCAATG	38678
5053	GGAGACAGGATGGAGGGTTTTG	16711	CTTAGCACGTGGCAAAATC	27695	CAGTAGCTCTAAATGATTTTGGAGACA	38679
5054	AGCCGTGGAAGTGAAGCTGAGTA	16712	GGGCAGGTGTGCACTGTCTAAA	27696	TACTGAGCAGCCGTGGAAGTGA	38680
5055	CTAGGACCCACTGCAGCCATTAG	16713	GGGAGGTGACGTGAGGAAAT	27697	CCTGTTATACAGGGCCAGATGTCTTC	38681
5056	CCCCTCTGGCCTCTTTCTTTGATG	16714	CTGGAGTTGGGTTGGCACATT	27698	TGCAGACCTGTCTCCATCTT	38682
5057	GTTCCCCGTTCTTCCCTTGCA	16715	CTCTCTGCTCTCCAAAGCAT	27699	CCTGTGATGTTTCCCGTTCTT	38683
5058	ATGCAGAGCTGGGTGGCAGAA	16716	TGGTGGGACGTGACGCTTCTA	27700	GTGGCTCATGGTGGCAGTAA	38684
5059	GAGGTTGTTCCAGGCTGATGT	16717	CCAGGAATGTTCCGGCCGTAG	27701	AGGGATGGGTGAGAGTTGTTT	38685
5060	CCACTGAAGATTGGCAGTTACA	16718	ATGGGAAGGCCTGGGAGGTAAT	27702	AGACAATCCAGTAATAACCACTGAAG	38686
5061	TCCACATCGCTTGCCCTTGA	16719	CGCCGACCAAGGACTTGAT	27703	GACAGGGCTTAGCTTCCACATC	38687
5062	TTTGCCCTTTTCGGGCTGAAG	16720	GGTGAAGAGCAGCTGAAGTCTTA	27704	CACCGGGGACTGGTCTTTATTTG	38688
5063	AACTGCACTGCTGCCATGT	16721	TGGTGGGACGTGACGCTTCTA	27705	TGCTGACGGGAGTTCTTCA	38689
5064	GCCACCACCAAGTAAGAAGT	16722	GCCTGACAGGAGTTTCTGTGGAA	27706	TTCAAGACCTGAACAGGAAGTGA	38690
5065	ACTGCTCTACTTTTGACTATCTT	16723	GGTTGTCCAGGCCAGTTCACTA	27707	GACTTAGAACAACTGCTCTCACTTTG	38691
5066	TCTTGAGACTTAAGCAGCTACAACA	16724	TGTTGAGGGCAGGGCTCTAA	27708	GCTGGGTCCCTCACACTTCTT	38692
5067	ACCTCTACTTCTACAGGGGAAT	16725	TGAGGTGGAAGCCAGGTCTCT	27709	GCCCTCTGAAACCTCTACTTCT	38693

5068	CCAGCAAAGCCAGCTGTACTCA	16726	ACCTGGTCACCTGTGTGCTT	27710	GCCCGGTGTCTTTCCCTTT	38694
5069	AACCTCCAGGCAGAGCCAAAGA	16727	AGACTCCCAGGGACCCAAACT	27711	CCCAGCAAGCTGGAGATAAAACT	38695
5070	CCCATTCCCATTGTCTGGTCCTT	16728	GGCAGGGCTGTGACAAATGACT	27712	GCTCTAAATGCCCATTCCCATGT	38696
5071	GAGAGACACAATGCTTTGAACAGAA	16729	ACACAACCTTAGTGCAGGCCAA	27713	GGGCAGTCCAGAGAGACACA	38697
5072	CACCCCTCTTCAAGACTGAGGAA	16730	CCAACACCCAGGCAGCTGAA	27714	AATACCAGAAAACACCCCTCTCAA	38698
5073	CAGGAAACCCACAGGCAGTTGT	16731	GCTGCCTTTGCCCTGTCTT	27715	CCACTGCGCTGCAGGAAAC	38699
5074	GCAAAAGATCACTCTGGCCACTTC	16732	TCCACCTCGCCTCTCCATT	27716	TCTGCTCAGCAAAAGATCACTCT	38700
5075	TTGGGGCTGAAGCCAGGAA	16733	GAGGGCTACCACTAAGAACCAGAGA	27717	GGCTGATATTGACAGCCAGGGTTTG	38701
5076	CAGTGGCAGTGGCAGTGA	16734	CTGGGGCCAGACAACTGA	27718	CCCAGGCAAAAGTATGTGGGTACT	38702
5077	TGAACCCCATTCAGGCAGGAT	16735	CCCAAATGCACTGAGCTGTCA	27719	CTCTTCTGTTAAACCAATGAACCCCATTC	38703
5078	TGTCACTGCCTGCTCCTTCT	16736	TTCTTGGGCCAGTGAAGAGAAAA	27720	CGCAGCCAGTTGCTGTCA	38704
5079	TACCACAGGGCTGGTCTGAGGAT	16737	ACCAGAATCTTACAGAGTTTGTCT	27721	TCAGGACAGTCATTTCTGCTCTAC	38705
5080	ACTGAGACACTGGGGTGCTT	16738	CAGTGCAATGCTTTACCATGT	27722	TGAGGGATGGGCTTATCACAGA	38706
5081	ACAAATGCACTCTCGCTTACA	16739	TTTCTGTGCCAGCTGGTTTTG	27723	GTTGTTTCTCCCACTCTTACAA	38707
5082	GACTAAATTGGCTAGAGGGGCAGAA	16740	CCTCCCTGAAGTTGCCTTCTCA	27724	GTGCTCTGGAGACTAAATTGGCTAGA	38708
5083	CACAGGGCTGTGGCCATATTTTC	16741	TGAAGGGATTCCATTTTCTGGCTTT	27725	GCAAGTAGGGTCCATCTACTACA	38709
5084	GGGTCCCTTGATAACCCAAACT	16742	TCAGTCCCTGGCCCCGTGAT	27726	CGGGAGGTTTAGTAACAGGAGACAAG	38710
5085	ACATATGACTTTGAGTTCGGTGAGA	16743	GCAGATCTCTCTAGGCTTTGTGT	27727	GGTGATAGCTCCATGACCTTGA	38711
5086	GCCTCAGGTAGGAACCTAAAGTCTCA	16744	ACCACTCTAGTGCCCCTGAA	27728	GCATATGCTCCAGCCTCAGGTA	38712
5087	CCTTCACTGTATCTGACGGGAAAC	16745	GAAGGCGAGCAGCAGTCA	27729	GGCCCCCTGTCTTCTGTCTT	38713
5088	GCGCGCTGAAGAACCATAGAGT	16746	ACAGAGCTCCACCCGTCTT	27730	CGCATGGCTTATATAGCGGTCTGT	38714
5089	GGCTGACTGGTCCCATCTTC	16747	CCCTGGGAAGTGACAGCTCAA	27731	ATCCCCAGCAGCGCTGACT	38715
5090	GCTTTAGTCTGCATTGCTGTGT	16748	AGAGGGTGCTCAGGTGTTTGA	27732	CAGCAACTTTGCTTTAGTCTGCAT	38716
5091	TGTGTCTACCTTCGGGGAAAAG	16749	CTCGGAACCTCTGCCAAGAAG	27733	AGCCAGGCCAATCAGGATCAAG	38717
5092	GGTGGGTGGAGCAACAATTTTGAA	16750	CTCAGGTTCAAAATCAGGCAGGTT	27734	GCAAGGTGGGTGGAGCAACA	38718
5093	GCCATCCAAAAGGAGCTTAGATTT	16751	GCTGCCTCACTGTCTGATGT	27735	GCCAGGTCTTGCCATCCAAA	38719
5094	GGTCGGTGCAAGGATTGAATG	16752	GGCCCTGTTGGAAGCAGTTT	27736	TACCTCACAGGTCGGTGCAA	38720
5095	TCCTGGCCACTTAGCACACA	16753	GACTCTCCACAGCTTTGCTCAT	27737	GCATTTCTGTTTTCAAGCTGTCT	38721
5096	GCCCTGGATCAGCTCCATTTT	16754	AGCAGTGCGGTGCGGAAGA	27738	CCCCATGCTCCATGTGCAA	38722
5097	GAGCAGAAGTGTGTTTGTACAT	16755	GGAAATGGCACACTGGTTCTCA	27739	TGACCACTTGTTACCACTGAAACAT	38723
5098	GGCAGACATCGCTTCAGGTA	16756	GCTGAGCGTTGGAAGCCATT	27740	GTCGTGACCAAGGCAGACATC	38724
5099	GACCGCTGTGGAATGTGTGT	16757	CACCCCTGACATGTGTGGTACA	27741	AGAGATACACTCCAGCATGA	38725
5100	TCGCCAGCGTCAACACCATT	16758	GGACAAGTAGCGATCCACTGACA	27742	GTTTAGCCTCACCCACCTGTTT	38726
5101	GACAAACCGGGCACATCTCA	16759	TTCCACCTGGCTCCTATCTCTT	27743	GCAATGAGCTCTTGATCCATCTGA	38727
5102	CTGGGGCTCAGGCTGAAGA	16760	CATGTATCTTGCGCAGGGTTTC	27744	GAGGGTGGATAGAACGGTTACACT	38728
5103	AAGAGGCTTAGGAAGTTAAGAACTAC	16761	TGGGGTCTGGGAGCCAAAT	27745	CCCAGAAGGTTAAGAGGCTTAGGAA	38729
5104	CGAATCTCGAGCCACAGTGAT	16762	CGGAGTGGAAGGGCAACAATA	27746	GGAAGGCGGACCCCGAACTT	38730
5105	GTCAGCTCTAAGCACTCTCTTTCA	16763	CTGATGCCAAGGCCGTATATCAT	27747	GCAGAAGCATTAGCAGTCAGCTCTA	38731
5106	GGTGGGTACAGTGAGGTGAAATG	16764	CAGATGCCTGTGCTTCTGT	27748	AGGGCAGGTGGGTACAGTGA	38732
5107	GGGCTGCCAGCAACAACAA	16765	GAGACAGGGTTTGTCAGGAAGGAA	27749	GCAGAGGGCAGATGAAGGAAAG	38733
5108	GCCACCATAGCTTACCCACAGTA	16766	GGCTGGGTCACTGTACTTTCCCTT	27750	GAAGCAGAGCCACCATAGCTT	38734
5109	GGTCAAGGACACACAGAGATGT	16767	CTTCTCCCCACAGACCAATTG	27751	GGGCCAATCTCTGATTCTAGGTCAG	38735
5110	GGAAGCTCTTCTGTGAGAGTTAG	16768	AGCTGGGAACAGGATGAAC	27752	CCCAGGTAGAGTCACTGCTCTGT	38736
5111	GGACCCCATTTGATCAGGGTAGATG	16769	GGTTGTGACAAAGCAGCACACA	27753	AGACTTCCAGAGGACCCCATTG	38737
5112	CTCCCCACCACTTCTCAATTTTTC	16770	CACCTTCTTAGGGCTTCCGGTTTC	27754	ACCTCCCCACCACTTCTT	38738
5113	AGGCACCTGGCTGTGCAA	16771	CTGGGGGACCTTCAAACT	27755	GCAAGTGACAGGACAGAGATA	38739
5114	CTCAGAGTCCCTGTTGGTGTGT	16772	CACCCACCTTGCCAACCATAA	27756	TCCAAACAGACCTTCCCTCAGA	38740
5115	ATGGGGACCCATGCTGCTTA	16773	CCAAAATGATGGCAAGCAGTACCTA	27757	ATCCAGTTGGCGCCCTTGT	38741
5116	TGCTATGGTCTGCGGGTAAAG	16774	GTGCTCACCAGCCACATTCT	27758	CCCAAGAGGGGCTGCTATG	38742
5117	GGTCTGTAACCTTTCAAAGGAAGTAA	16775	CAACAAGTGCCACCTCAGA	27759	GCCCTAATTAATGGTCTGTAACCTTTC	38743
5118	CTCCGATGCCACAGTCTGTTA	16776	GCAATGGTCACTGGATGGAGCTT	27760	GGAGTCAGGTTGTTAGCACTGT	38744
5119	TGACCGGCCATTGGATGA	16777	GTGCGGGGCTCTGAACATA	27761	AGGTGTCAGGTCTTCTCTGA	38745
5120	GCATCCCACTTGAAGAATCAAAG	16778	GCTCCAAGACCAGCCATACCTA	27762	CCCAGCATCCCCACTTGGAA	38746
5121	CTCACTCACTCTGTCAATGGTAAAC	16779	CTTTGCTGTAGGTTGGGATCA	27763	CGAGCTCACCTCACTCTGTCA	38747
5122	ACTGTCCCCAACCCAGTTCA	16780	AGGGACAGCTGCCAGGTT	27764	TGCTTCCCACTCTACCTATT	38748
5123	ACGCAGGTGATGACACAGA	16781	GGTGACAGCTGAGGAATCCTT	27765	TCATGATAGGTAGATACGCAGGTGAT	38749
5124	AACCTTAGGGGCGGTGTGT	16782	TCGGTCCGATGGTCCCTTAGA	27766	GGACCGCTTCGGTGTGGAA	38750
5125	AGGACCCCAAAGCCCATGAAGA	16783	CCCAGGTCTGAGCCACTTACTCT	27767	TGGGCAGCAGGACCCCAAA	38751
5126	GGGTACCTGATGGCTCTCTTTG	16784	GCCCCATGCCTATAACCTGCTA	27768	AGTGAAGCCCGGTACCTGAT	38752
5127	CTGTGGTGGGATAGATAAGCAA	16785	CTATGAAGGCAGGACTTCTGTT	27769	AACAGCTGTGCGTGGGATA	38753
5128	TTGCTGCCCTGGGACTCA	16786	GTGGTGGAGGGAAGAGAACTTG	27770	TCTGCTCTTCTGCTGCTGTT	38754
5129	AGAGCAGGAACACTGAAAACTT	16787	TCCCTTGGCCAACCTCCCTCT	27771	GTCACAGTTAAAGAGCAGGAACACT	38755
5130	CAGGGGAGAGGGAGACAGTCAT	16788	CCCCTCTCTGACCATCCATATCT	27772	AGAGGCAGTGGCAGTCAAAC	38756
5131	GCAACCCCACTTTCTCTGACT	16789	CCTTGGGCTGAGTGTGGTTAAG	27773	GCACACCAAGGTCAGCAA	38757
5132	GCAGAGGGAGAAACACCCAGAAA	16790	AAAGATTGGCTGAGGCTTCTGT	27774	GAGTAGGATTAGGCAGAGGGAGAAA	38758

5133	CTGAATCATTGGAGGGCTGTGGTT	16791	ACGTTTTCTCCGTGCCAAA	27775	GGAAGGGTTTGGCTCTGAATCATTG	38759
5134	GCTGGGCAGCAGGTTGTAGTAA	16792	CAGAGCACATGACCCAAAGACT	27776	GCATATGAGGGGCCAGGGTTTC	38760
5135	CCCAGAGGAGCGGTAGTCAAAA	16793	TCATCATGGTGGGTCTCTGAGTA	27777	CCCTGTATGGCAGGGAGAAAAGA	38761
5136	CCCCTACCATAGCATTGGCTCCTT	16794	CAAATACAGCCCCAGGTTACTGT	27778	GAGCCTCCCTTACCATTAGCACT	38762
5137	CAGTGCAAAGGCCTGGAACA	16795	GCACAAAGGTTTCATGGACAGGAAAGA	27779	CATGTGAATTGTGGTCAGTGCAAA	38763
5138	CGTTGTAGGGCAAGACCACAGT	16796	CCAGCCAGGCAGTCATAGACAGA	27780	GGGGAAGGATTTCCCGTTGT	38764
5139	CAGGGTGTGTTATCCTCTCTGACT	16797	TAGGGGACGGGGACAGTTGTAG	27781	ACCCTCAGAGGGTGTGTTTATC	38765
5140	CCCACCTGTCTTTGATCGCATT	16798	GCATGCTCAGTCAAACCTCGATA	27782	GCCTTTTAAACCCACCTGTCT	38766
5141	GACTGGGACTCGCAAGCAAACT	16799	TGAGGCCAAAGAGGAAATGATTCT	27783	GCATGGGGCAGGAGTGAAGA	38767
5142	TCGTACAGCAAAAACCTGACCTT	16800	GCTGCTCCATCTGTCCAGAAC	27784	GAGACCTGAGCTGGACTAGAACTT	38768
5143	GCACCTTTGGAAACCCAGCCTTT	16801	TGGATGCACACATGCAAGAAAGA	27785	GCCTCCAGCACAATGAGCACCT	38769
5144	GCTCAGGCACCCGATCTTG	16802	GGCAGAGGACAGGCTAAAACCT	27786	ACGTGGGCCACCCAGAAAG	38770
5145	GCTTGGGCTTCAACCAACAA	16803	CCCCAACCCAGGATGTTGCTT	27787	CCTCGGGCACATGCCTTTAGAA	38771
5146	CGGGGCCCTTTCAGGAACCTAC	16804	AGGAGTCTCTCCCACTCTGTTGT	27788	GAAATAAGTACCGGGGCCCTTTC	38772
5147	ATTCAAGGAACAGGGGACCAAAAT	16805	AGCTGTGTCCCTCCATAAAGAAAG	27789	ACAAGTGCATCATTTCAAGGAACA	38773
5148	TGTTTAGGCAAGGAGCCTGTAG	16806	AGGCACCAAGTGCAGTCAAG	27790	GCAGGTGTTGGGCATTCTTGTT	38774
5149	GCCACAGTTCATACCTACACGAA	16807	CTCTCAATTGCTCTCGAACTTGTG	27791	TGCCGGGCCACAGTTCATAC	38775
5150	TCTCTGCCACCAAGATCTCTTTA	16808	CGCTCTTGCAGGTGGGAAATGA	27792	CCACCTGGTAGCAAGGATGGAGAT	38776
5151	GGGGAAGTTGCACGGTCAAAAA	16809	CCCTGGACCTGCTGATTGTTT	27793	CCAGTTGGCTTGGGGAAGTT	38777
5152	CACCCAGCTGTAGCATGATGA	16810	GGCCAGACATTGAAGGCATAG	27794	TGGCAAAACCCAGCTGTA	38778
5153	TCCCTATCCCATAACTCGCTATTGA	16811	AGGCCTGCATCTGATGGTATCT	27795	CCCAAGTGATCATCCCTATCCCAT	38779
5154	CGAAGGCCTTGGACCTTCCTT	16812	AGGAGGGCTGTGTCCTTGAGA	27796	GGGCGGGGATGTGAATCCTAAA	38780
5155	CTCCAGGAACAACTGGGTCAT	16813	GCCAAGAATTAGACCTTGATCCTT	27797	GTCCTCACTTACATGACTCCAGGAA	38781
5156	GCATATGCAGAAATCACATGGCAAAAG	16814	GCCTCCTGCCTTCCCTCTT	27798	GGAGCCTGGCATATGCAGAAA	38782
5157	GCGAGACTGGTGTAGCAGGGTTA	16815	CCAGCAGCCGAATGAGATTGGATA	27799	GTGGTCTGAATCTAAAGCGAGACT	38783
5158	CCTCAGCTGCAGCCTTCAAA	16816	TCAGTACCCAGAGGCGATGGAA	27800	GGCCCTAGCCTTGGCTTCA	38784
5159	CGTTGTGCATTCCTCTGCTTGT	16817	ATCTCTGGCCTAGGTGGTTCA	27801	CTTCTCTGCACGTTGTGCATTCT	38785
5160	CGTCATGCCGCCAGTCTTG	16818	CTCTGGCAGAAAGTGTGAAGAAGTAAT	27802	TCTGGCCTGCACACTGAAATAAG	38786
5161	GGAGGCACAGCTACTTCCCAAA	16819	TGGGGCCTCTGGCTCTAAA	27803	TGTATACAGGGAGGCACAGCTA	38787
5162	CATGCCTTGCTGTGTTGCAT	16820	CGCACATGTTGGTGACAACTT	27804	GCCAGCCACACTAAATTGCAT	38788
5163	CCCTTCCCTTTTCTACCTTGTGTGT	16821	GGGAGTAGCTGGAATGGGTGAT	27805	CACTGACCATTCCCTTCCCTT	38789
5164	CCCACCTCTCCAGAGTATGTCA	16822	TGCGCCTCAGGCCTTCTCA	27806	ACTCTAGGTGCTGCGGTGGTGT	38790
5165	GCCTCAGTCAGCTTCTCTCAA	16823	CCAACCGGAGAGCAAAAGGAAA	27807	CGGAAAAGGAGGCCTCAGTCA	38791
5166	ATGGGGAAGGAGGCCAGGAA	16824	CGTGACGGTGTGGGTTTCAA	27808	GGTGGCTACAGGTGCAAGGAT	38792
5167	CAGCAAACTTCTGCATGACTCT	16825	TCCGGGGCTTCCAGAACAC	27809	TGGCAGCAGCCAAACTTCT	38793
5168	AGGCTGAACAGCTGCAGAGA	16826	CTCAGCAGAGAGGAGGCCTTAGA	27810	GCCAGAGCTGAGCAGTCATCA	38794
5169	GCCGCTGACATGCTTCCAAA	16827	CAGGCCCTGTGGTGGGTTTTGT	27811	CCACAGTATCGCCGCTGACAT	38795
5170	TGGGCGGAGTGCCAAAGTAATG	16828	CCATGGCTCCCATCTGTCATGT	27812	AAAGCCTCCGCTCTGTGTTG	38796
5171	CATGACCTTCGTGATTACTTGCATGA	16829	AGGCAGGCGTAGGGCAGTTA	27813	TGCTCTCCTGACACCATGT	38797
5172	GCCAATTGGTGCAAGAGATCACA	16830	CTCCCCTCTCACCCATGCTT	27814	AGGGAGGCCAATTGGTGCAA	38798
5173	AGGTGTGAAGTGACCACAAAGT	16831	ACCCAGTTCAGAGCCTCCTT	27815	GCAGAGGTACAGGTGTGAAGTGA	38799
5174	ACCCCTCATTTCTGCGCACTT	16832	TTTCTATAGACTTTGCGCAGTGAA	27816	CAGGGAAATCCCTATAACTCCCTCATTC	38800
5175	TCCTCTGTACCTGTCCCTCTTC	16833	GCAGATGGGTGTGGAGAGCAA	27817	CCTCCTGGCTACTCCTCTGT	38801
5176	CAAGCAACACTCCACCTTTG	16834	GACTCATGCCTGTATCTCAGCTA	27818	GGTCTCAAACCTCTGGGTACAAG	38802
5177	AGGGCCGACCGTGGTTTTTC	16835	CAACTGTGGGTGCGGGTAT	27819	GCATGCCCATTGAGTCTGTACT	38803
5178	CTCCATCCTCCAGAGTATGTAT	16836	GAAGGCTGGAACCATCGAAGT	27820	AGTCCCTGTGGTTTTTACTCCAT	38804
5179	GAGGAAGAGGCTAAATGTCTAGAGAAG	16837	CTTGTTCCAACGGTCAAGCAT	27821	GCAGGAGGAGGAAGAGGCTAAATG	38805
5180	GCATAGGACTCCCCAGTACTCTT	16838	TGGGTGCTGGAGACCTTGTC	27822	GGGTCGTGGGCTTCATCAGT	38806
5181	CACATAGGCAGCACAGTCATGGAT	16839	GGCTCCTGGGAAGCACCTT	27823	AAGCCTGGCCACACACATAG	38807
5182	GTGCCTGCCAAGAGAATCT	16840	GCTTCAGGCCAGCTTCAGTAGT	27824	CTGTTGTGGCACATGAACCTTTCT	38808
5183	TCCCTTTGGACAACAGGGTAGT	16841	CCAGGTTCCAGGCACGACTT	27825	GTCGTCCTCTCAGTATTCCCTTTG	38809
5184	ACACTCGCAGGCCACTGA	16842	ACCAGCAGCCAGAGGAGTCA	27826	GCCAAAGGTAGCAACATTGACACT	38810
5185	GGCCCCAGGAAGACTAGTCAGAT	16843	GGCTCTCCACCCAGTTTAC	27827	CCAAATTGAGGCCCCAGGAAGA	38811
5186	GCCACCTCTCACTCTCTTGATCT	16844	TCACTGGCTGAGGGAGAGACA	27828	CACCTTAGCAGCCACTCTCACT	38812
5187	GAAACAACCTTCCAAGTTGGTCTCA	16845	AAGAATCCCTGAGGCAGTAACATC	27829	AAATGCCAGGGGAACAACCTT	38813
5188	GATGATGTCAATTAAAGTGGGGAATTTG	16846	CTTCTGCTGCTATGTGAGTTCT	27830	GGTGCCTGACATGTAATTAGTGA	38814
5189	GCCTAGAAGATGCTGCCCTTAG	16847	CCACCCAGCTCTCCTTCACTT	27831	GCAACCATAACAGGGGCCTAGA	38815
5190	TGGGCAGAGATGAGGACCAACA	16848	GCCAGCCACTGTGCCACTAT	27832	TCCCGTGGGCAGAGATGA	38816
5191	GGAAGGGGCGAGCAAGAAATGAGA	16849	GCACCAAGGCCACAAGACAA	27833	GGGGAAAACTCTGCTTGTGGAAA	38817
5192	GCTCTTCCGCCATGGGATAATG	16850	TGGCACAGGCATCTGGTGTAG	27834	TCCCTTGGCTTCTGCTCTT	38818
5193	CAAACCACTGCAACCAACTGCTA	16851	TCCTTGGGTGCCAAACAGT	27835	TCCACCAACCACTGCAA	38819
5194	TCCTGGCCAGCAAAGGCAAT	16852	GCCCTCGGGGAAGAAATCAAGA	27836	TGGTGGCTGCTTTTACAATCTTTG	38820
5195	TCCAGCTCAGTCCCTCTTGT	16853	CGGGGTGACATTATGCTCAAGT	27837	GGACCACAGAATCCAGCTCAGT	38821
5196	GGTTAATGGCTGCCCTCTACT	16854	GCATGCTGGCTGCTGACATAG	27838	CCCACTGGTGAACCTGGTTAATG	38822
5197	TCAGCTGTGCCCACTAACA	16855	GTGCACAGGCCTCTGGATTGA	27839	GGTGAGGCCAGTTTCACTCA	38823

5198	CAGGTGTGTCATCTCCCTGGTT	16856	CGGCAGGCAGGATGGGAAT	27840	TGCCCCACAGGTGTGTCA	38824
5199	CTTCTCGAAGGCTATCCTAACTGTTT	16857	TTGGCAGGTGGCTGCCATTGA	27841	TGGAGGATCTTCTCGAAGGCTAT	38825
5200	TGGAGGGAGCGGCTGATTG	16858	AGCCATCATGCCCCAGTGCAA	27842	AGCTCAGACCATTGCCTCTTG	38826
5201	AGTAGTGGGGCAATGGGGAGAA	16859	GTCTCAAGAGACTCATATGCCCTGGAT	27843	CCAGCTTCAAAGGGGTGTTCT	38827
5202	AGCCCATAGCCCTGTGGTTACT	16860	GGCCTGAATTCACACAGGCATT	27844	ACACAGGTGCAAGCCCATAG	38828
5203	GCTGTGCTGTGTGTCAGCAATG	16861	CAGTGGCCCAACCACTCAT	27845	ACCAAGGCTGTGCCTGTG	38829
5204	CATGAAGTGGCCACCTGTTTG	16862	CCAAAAGGCATGGGGTAGGGATT	27846	CACCGGCTCTGCCAAAACAT	38830
5205	GCCCTCAGCTTCTGAGCTA	16863	TCCCTGGCTGCTCTGAGAAAT	27847	TGTCTCGGCCCTCAGCTT	38831
5206	CTCTGCTTGCTCTCTGTGCTT	16864	ATGCGCTTGGTCCCTTCCTT	27848	CCAACCTCATAGCCTGACACTTTC	38832
5207	TGGTGAAGAGGTCCCCTAAATTCT	16865	TGGGCCATCCACAGCTTTC	27849	CCTGCTTCTTTGCCAGATTTTTG	38833
5208	TGGCTGTCTCCAAATTGGTTATC	16866	GGCCGGAAGGAGACCAGACTA	27850	CCAATGAATGCTGTCTCCAA	38834
5209	ACTGGAGGCAGCACTGGATT	16867	TTTTGCCCCAGCTGGACTCT	27851	GGTTGGGTGACTTCCAGACT	38835
5210	CTGAGAGCTTTTCTCTACTGGAGCTA	16868	TGGCTGGCATCAGCCAGATTTC	27852	CAGCTTCTGAGAGCTTTTCTCT	38836
5211	CCTTGGCTCTTACCTTCCTT	16869	CCTGTCTGACACCATCCAGTAA	27853	AGTGACAGCCTTGGCCTCTTA	38837
5212	CCTTCTCAGCGCTCTCCTT	16870	CATCAGAGCAGAGAAGCAGTTGAT	27854	TGCCGGGATCCCTTCTCA	38838
5213	GCTCCTTGCACTCCCATCTT	16871	CACAGTGTGTATGTCATTGTCTCT	27855	TGATGCCTGCACAGCTCCTT	38839
5214	GAGCCCAAAGCGGCCAATG	16872	GCCCATGCCTCTTCTGCTTGT	27856	TGAGCACCAGGAGCCCAAA	38840
5215	GACCAACCCAACTCTCCCAT	16873	TGAGCGAGCCAGAGTTTCT	27857	CCAGTGACCCAGGGACCAA	38841
5216	TCGCGCAGAGGCCACAATTA	16874	TTTGGCGCCAGGAGTAGCTT	27858	GGGCAGCACTTCATCGTTCT	38842
5217	GATGCAGGAGTGCTGTGGAAT	16875	TGCCCTGCTCAGCCTCATT	27859	TGGGCAAGGGCATGTGGTAA	38843
5218	ACGGTGGCTGCTTCTCCTTT	16876	GCAACAGACACCAGCACATC	27860	GGCCAGGAAGCTTGAGGAAGAT	38844
5219	AGGCTCGGGGACACTCAA	16877	GGACTAAAAGAGATCCAGGCTAAC	27861	CTGCAAAGCACTTTGGGAACAT	38845
5220	CCTCTGAGAGTTGCGCTGCACAA	16878	GCCAGGCACCTCCACTCATA	27862	AACCTGCGCTCTGAGAGTTG	38846
5221	TGCCCACTCCCCGCTTCT	16879	TGCCGTGACCCCTGGA AAAA	27863	CACCTCAAAGCCCTCGTCCAT	38847
5222	CAAAGCCAGAGGGAATTGTCTATC	16880	GCTGCGCGGAACCTCAGCTT	27864	AGCCAAGCCAGAGGGAAT	38848
5223	TCGTTGACCTGCGCATGAGT	16881	GAGGAGGGCCAGAGCAATATC	27865	CCTCTTGATCCTTTGGACTCGTTGA	38849
5224	AGGGGAGGACACAGAGTATTTCA	16882	AGGCAAAACCTCACCATTAGT	27866	AGAGTCTGTAGGGGAGGACACA	38850
5225	GGGAGACACAGTTAAGTGGCTAA	16883	GCTTTGGGAGGTGTGGCATA	27867	CGGCTAGGGGAGACACAGTTA	38851
5226	GACACCTAGCGGTGACTTCTGA	16884	TGGGTAGGCCCACAGCATCT	27868	CGTGGTCCAACAGTGACACCTA	38852
5227	CAAAGCAGGCAGCCATCTCA	16885	GCCAGGAAAGGGACATCAAAGT	27869	CCATGAAACCCACAGCCTCTAA	38853
5228	TGGACAGAGTGCCCCACAGAT	16886	CAGAAGCGGCATGCCTTGAT	27870	TCCCAAAGCAGGTGGACAGAGT	38854
5229	GAGCTCCCATGTTCTTTCTGGAT	16887	AGCAAGCCAGCCCTCACAT	27871	TTTCTGTGAGCTCCGATTTCT	38855
5230	TCTGCCCTGTGAGGAGGATGAA	16888	CATGTGCTACCCATGGTGTACT	27872	TCCAAGAGTCTGCCCTGTGA	38856
5231	AGAGCTGGGAGGGCAGTGA	16889	GGTGCTATAACCAAGCAATCA	27873	GGGTATCAGCACCAGCTCTAACA	38857
5232	GCACAGGAAGGAGGTGCAAA	16890	CTGGCCGGCACCCTCTTTTAT	27874	GACCCAGAGATGCACAGGAA	38858
5233	GCCCAATGGGCCCTCTAC	16891	GGGGTCCAGCTGAACCTCTGA	27875	TCAACCCAGGAGCCCAATG	38859
5234	ATCTGTGCATGTATGGCTTCAAAC	16892	GTGAAACCTGCTGGAGGGATT	27876	TGCCATGGGTGATTCTTCATGT	38860
5235	ACAAAGACACTGCCGTTACTCA	16893	GCTTTGTCCCTGGCTCAAAACCTT	27877	GGGACCCACCATAAATAACAAAGACT	38861
5236	GCCTACATGTATGGGAAGGGAGCTA	16894	CCATATATCCAGCCAGGCTCTT	27878	GTCTCTGGCTTCTTGCCTACA	38862
5237	GGGTGGATAGAAACCAAGGCATA	16895	CCTGTGCTCTTTTGCAAAATCAGT	27879	TGGGTCTCAGGTGGATAGAAAC	38863
5238	GTGTCATAAACCTTACTGGGGAGAA	16896	GGGGCTCCAAAAACACAAC	27880	GCTCCTGATGTGTGCATAAACCTTAC	38864
5239	TCCAGGGAGCTCTGCTTTG	16897	CCTCAGGATGACAGTGAATACAAGTAA	27881	CCAGACAGCTTACTACTGCAA	38865
5240	CAGTGTCCAGGCCCTTGTAG	16898	TCCTCTGTCTGAGTGTGATT	27882	AGAGAGAGCTGAGGGGTACAGT	38866
5241	CCTGGAGCCTGAGATTGTGGGATT	16899	CTTCTAAGCCACCCCAACACT	27883	GCATGCCTGGAGCCTGAGAT	38867
5242	GGCTTACGGGTGAAGAACAGGACAAA	16900	CTGTGTAGCAGGGATCAGGTCTA	27884	GGAAGAGTTGTGGGAGGCTTAC	38868
5243	GTGAGTGCAGCTTTCAGCGATT	16901	AGCGCTGGCAGGCAGGAAT	27885	GCAGCTGTGAGTGACGCTT	38869
5244	CCACCATTGCCCTGGTTTCTGAG	16902	ACTGAAAATAGCTCAGGTGCAACA	27886	TCCTTCTGCTCCCAACATTG	38870
5245	GCTTCCCTCCAGTTCCAGTAAGAA	16903	CAGTAGGACTCTTAGGCTGTGGTT	27887	AACAGAAGCTTCCCTCCAGTTT	38871
5246	CCAGATAAACCTCACAATAGGTTTCT	16904	GGAGGAGGCTGTTGTTTATAAG	27888	TGGTGACCATGATAACCTCACA	38872
5247	GAAAGCTATCAGGAGCTTTGTGAGTT	16905	GTGGCCACAGCAGTGATGAT	27889	TGCAGGAACAGGGAAGCCTATC	38873
5248	GCCCTACTCAAGGGTGCCTAA	16906	CTTGGCTCTCTATGGCTAA	27890	CCAGTGGATAGCCCTACTCAA	38874
5249	GGCCTGAGACGAGAGCATGT	16907	GTCCCTCACTGTTCTGGAATG	27891	GGGAATAACTAATGAAAGGGGCTGAGA	38875
5250	CAAAGTGGTTTGGGGCATTTC	16908	GTCCAGTGCCATGAGAAAGTTG	27892	GGGGTCAAGTCAAGTTCCAAAGT	38876
5251	CAGGACCCCTTCTGCTCCAT	16909	AGGGCAGACAGGAGAAAGTGT	27893	CCTAGACTCCAGGACCCCTTT	38877
5252	AAAAGAGGCCCTGAAGGGATTAC	16910	TGTGGTATTGAGACTGGCCTGAT	27894	GGACAAGCAGGCCCTGTAAAAG	38878
5253	CACCAACATGGACCACTCAGCTAT	16911	AAGAGGCACCACTCTCCCTT	27895	CACCTACCACTTAGGGACACCAACA	38879
5254	GGCTCTAGCCTCAGCTCAAAGT	16912	TGGGATGGCAGCCTGAGTTGTA	27896	TCCTGGTTGCTCTGGCTCTA	38880
5255	AAGCCCTGGATGTGGAGTCA	16913	ACCCCTCCCTCTCTGAAATCT	27897	TCCCATGAACACAGTATGGTAGAAG	38881
5256	GAGCCCCACACTGGAGACT	16914	CACCTGATCCGGCCAGCTT	27898	CCTTGGGTCTCGCAGACTTC	38882
5257	GCAGGTAGCAATACAAATCCAGTTCA	16915	TTCTGCAACCTACCTGTCT	27899	GCTTGTCTACATTGCAGGTAGCAATACAA	38883
5258	GGCCATTATGTGCTGGGGATTG	16916	CTCCCAACCCACACACATTCA	27900	TGGCCTGCACACAGTACT	38884
5259	TTACGCCGGTGGTCTTGACA	16917	AGCGGGAAGCTCTACTCAA	27901	TGTGCAGAAAGGAGACGCAAA	38885
5260	TCAGGCGACCATCAGGTGAA	16918	GAGGCAGTTTAAACAGCACTTGACT	27902	AGCACCTGCTGCCAAGAA	38886
5261	TAATGGCCCAAGCGGGGATA	16919	CCTCCCGCATCCTTTCTCA	27903	CGGGGTGCATAAGTGAGGCTAAT	38887
5262	CTGGCCAAATCCCAACCAAA	16920	AGGACAACAGAGGTCACTCTT	27904	CGGGTAAAGAAGCTGGCCAAATC	38888

5263	GGTTTTGGGAAGGGCAGTGAAT	16921	CACCTCCCTGCCAGCAAAACATTG	27905	GGTGGGATTGTCAATTAGTTCTTACAGGTTT	38889
5264	CGAAGGCACCATGCGCAGTGTT	16922	TGCGGGCACTCGGAAACAT	27906	AAGGAGAGCGAAGGCACCAT	38890
5265	CCTGGGAAAGACGCTACCTTGT	16923	GGATGAACAGCAGTCTCAGTGGTT	27907	CTCAAACCAGCCTGGGAAAGA	38891
5266	ATGGGCTTGTGGTCTCTCT	16924	GAGGCTGCTCTCCAGTCA	27908	TCAGGGAAGGGATGGGCTTGT	38892
5267	CGAGCTGTCAACGCCGTAATTC	16925	ATGGGAGCCCGGGTGTAAAG	27909	GGCACAGGCTGACCGACTT	38893
5268	CCTCAAATGCAGTCTGAGCACAT	16926	GCCAGGCCACACAATGATA	27910	TAGCTCAGTGGCCCCCTCAA	38894
5269	GGCAAGACCGTGCAGAAAAG	16927	CGCAACAGAGCAGTCAATCT	27911	GGCCATTGGCTGGCAAGA	38895
5270	CCTCTTTTGCAGTAGAAGTTGACAAT	16928	GCCTTTGGACGCGAGGAGTAA	27912	GGCAGCCTCTTTTGCAGTAGA	38896
5271	GAGGCCATAGTGAGCTGTCATC	16929	TCTTGCTCTCACAAAGCCAAA	27913	GCCAGGAATTTGAGGCCATAG	38897
5272	CAGAGTGAGTGTGGGCACGTT	16930	CACACATGCACCAGCTCAAACA	27914	TCCCTCTACCAGAGTGAGTGT	38898
5273	CTCCAGGAAAGGGCTCTGGTAAG	16931	AGCCAACAGCCTACCCAAAC	27915	CCTGAGAACATGGCTCCAGGAAA	38899
5274	GGCTCAAACAATCCTTGTGTCTCA	16932	ACACACCTGTGGTCCAAGTATC	27916	GCTCACTGCAGTCTCAACTTTTG	38900
5275	GTTGTTCCCATAGGTAAGGCATTCA	16933	GTGCCATTCCCTTCCAGTTT	27917	CCAGCTCTCAGTGTTCCCATAG	38901
5276	CCTTTATGTCTGCAGGTGTCAATC	16934	AGGCCATCAGCCTGGGAAGA	27918	CCTGTGAAATAACAGCTGACAATCCTT	38902
5277	GTGCCTTACCCGTGTCTGAA	16935	GTCTATGAATGCCTCACAACCAGATAG	27919	GCCTGATGGAAGTGTGTGCCTTAC	38903
5278	GTTGGAGTGCAGTGTCTCTTG	16936	TTGTGGAAGCCCTGAAAGTCT	27920	TGTGTCTCTGGAGTTTATCTAGTTG	38904
5279	GGAACCACTACACAAAGTTGCTCTA	16937	ACTGCAGCGCTGTAAAGTTG	27921	GGGATCGGCCTACTGAAGGAA	38905
5280	CCAGGAGTAATGCTTCCAGCCAAA	16938	CGGAGGGACTCTCACACTAAC	27922	GGGCACGAGGAGTAATGCTT	38906
5281	TTCAAAGCAAAGAGACACCTCTAA	16939	AGATGCCGTTATTGGTGAAGAA	27923	CCCTGTTACCATTTTCAAAGCAAAG	38907
5282	GCTCTGTCAAGTACGACTCCAGGTT	16940	ATGGGCCAGGCACTCTGCTATC	27924	GGCAAGGGGCTCTGTCAAGTA	38908
5283	GACCATCACACAGATTGCTTTGT	16941	GCACTGGACGACTGCTGTTT	27925	TCAGGGCTACCTGACCATCACA	38909
5284	GCCAGAGAAGCCTTTTAGCATTTACA	16942	GGCTCCTGGCTTTTGGCTTCT	27926	CCTCTCTCTAACAGCCAGAGA	38910
5285	CAGCTTTGGGCCCTAATGATCACA	16943	GGCTCAAGGGCAAGCATGTTT	27927	TGACAGGTAGGCCAGCTTTG	38911
5286	CTGGCAGGATGAGTGTGTTGT	16944	CAGAGGGCACGGGTGTTTGT	27928	TCCCACTTCTGGCAGGATGA	38912
5287	TGACGCGAATGGCTTACTT	16945	GAGCCAATTAGCAGTGAGAGAACA	27929	CCAACCCACCTATTGAGAAAGGAATTG	38913
5288	CAGCTTTTCCAGGAGCTCAA	16946	CCCATCCACAGGTCACTGAGGTA	27930	ACTGGAAGGAGGGAACAGCTT	38914
5289	GCTGTAAGGACTGTGCCATGAGA	16947	GGAGGGCACTGTTTACCGAAT	27931	AGCCCTGCTGTAAAGGACTGT	38915
5290	GAAGACAGCCCAAGAAGCATTT	16948	ACACTGCCTAGCAGTGAAGA	27932	AATGCAGAAAGTCATGGTGTGAAG	38916
5291	CTGCTCTTCCCATCATTTACT	16949	CTGGTCAGGCAAGGAGAAAGT	27933	CACCAATTGCCACTACTGCTCTTC	38917
5292	CCTGCTGCAAACTGTGTGAGA	16950	GCCAAGTGGAAACAGGATATGAGA	27934	GCTTGGGTTATGCTCTGCAA	38918
5293	TTTTGGGAGGCGGGTTCTGT	16951	CCCTGCAGCTCACACAGCAAT	27935	CTGCACTCAGGACTTGGAGTTTTG	38919
5294	ACTCTGGACAGCAGCACAAAG	16952	GCATACACCCACACCATCCAA	27936	GGCTCTAAAACGCGAGGCTGTG	38920
5295	CAGGAGCCAGAATCTCTGAAG	16953	CCCATAACCACTCCATCTCTATG	27937	GACTAACACAGGGAGCCAGAA	38921
5296	GCTGAACGGAAGGACAGACA	16954	GCGAACCCGCTCTTCAT	27938	ACAAGGCCCTCCTGCTGAA	38922
5297	GGAATCCGGGACTGGAGAGT	16955	CCTGCCGGTGTGATGTCA	27939	CAGGGGCTCCAGGTTAGGAAT	38923
5298	AGGGCCCTTCTGCCAGTGA	16956	GATCTGGGGACGAGGTCCTAAA	27940	TGCACCCATGAAGGTTTTGT	38924
5299	GCCACTTTCACTTCCACACCTTGA	16957	TCCCATGGCGGGATTCTAT	27941	GGTGAGTGTGTGCCACTTTCACCTC	38925
5300	GGCACCCAGAAAAGTCTAGTT	16958	CGCGCACACATGCACACA	27942	GGGAGTGGCACCCAGAAA	38926
5301	CCGCCTTTTGTAGTGTGTCATATT	16959	GACCTGACTTGCATCTGGAGAA	27943	GCCTGCTTACCGCCTTTTTT	38927
5302	CCAGTTTCTCCCTCGCTGTT	16960	CTCAGCCTCTACTCTGCTTTTG	27944	TGCTCAGAGAGGTTTGGTATC	38928
5303	GTGATGCTGGGCTGTGTTTAC	16961	GCTGGGCTTAAGAGGCTGAA	27945	AGGCCGTGGAGGGACGTGAT	38929
5304	GGCTTCTTCAGGCGTGAGATT	16962	CAGAGGCAAGTCTCTGGTGA	27946	GCCAAAGGCAATTGATGTGCAA	38930
5305	TTGCTGCTGCTCCTGGAAA	16963	GGGCAAAATGTGTAGACGGCACTAC	27947	GTGCTCCCTCAGAGTGAGATT	38931
5306	GACAGTTGAAGTAGAACCTTCCACAA	16964	TGTGGGACAGGGTTTCTCT	27948	CCTCTCCCTCTGAAGCAAGACAGT	38932
5307	GCCCAAATCATGCGTTACAGTA	16965	GCAGCACCTCGATGTAACAAAC	27949	ATGGCACAGGGGCCCAAAAT	38933
5308	CAGTGATCTGAGGCAATGTCTGT	16966	GTCATAAGCCATGTCTGCTGT	27950	GGGCTTGGAGAAATATACAGTATCTGA	38934
5309	GGCCAGTCGCAATCATGTAGA	16967	GCTACTCTCTGGAGTGAGAGT	27951	AGGACATGGATGTGATGCTGATG	38935
5310	CCTGGTGGGTGTGTGTTACT	16968	CATCTCCTCAAGGCTATCTGTTTGA	27952	CTGAACAGCCAGGCAAAATC	38936
5311	CCTGCCTAACAGCTGATTGAAGTCT	16969	TCCCTCCACCTGGCACTCATT	27953	GGTGGAGGAATCCTGCCTAACAA	38937
5312	GTTCAGCCAATTATGCCATTTT	16970	CAGTTGGTCTACGGCCTTTAATTTT	27954	CAAGCTGTAGTAGTTCAGCCACTT	38938
5313	AGAGGAGTTTGCAGAGCCAATC	16971	TCTCAGAGCTCCCTTGTGAT	27955	GAGCTGGGTTCTGAAGGATGAAG	38939
5314	GACCAATAAGGGCTGTGGACTCA	16972	GCCACCTTGTGAGCGTGAAA	27956	GGAGAAGCAGAAGATTCCACAAGA	38940
5315	GGCAAGTCAGTCAAGTGGGAAGT	16973	GAGTCCTTGAGCGTGTGT	27957	GACGCTGGCAAGTCAGTCAA	38941
5316	CACAGAACCACACTGCTTGCTTGT	16974	TGGTACCTGAGGGCACTACCAT	27958	TGCCCACTTCCCTTACACAGA	38942
5317	CCACAGAAATGAGGCAGTTTGTCT	16975	CCAACAGGACGTGCAAAATAAGTCA	27959	GGTGAAGAAGAAACACAGAAATGA	38943
5318	CGCCATTTGGGTGCTTGTG	16976	GCCCAAGGCGGCTCAATTT	27960	TGCTTAGCCATCTATCGCCATT	38944
5319	GGAAGAGAAGCAGGTCACTGAAGTCT	16977	TGGGTCTAGCTCCCTACTGT	27961	TCTTTGGTTCCCTCTGTTTTAGGAA	38945
5320	GCTGACACCCCTCAGCAAT	16978	GTACCTGAAAAGTTTCCAGCAAACT	27962	GGAAGGGTGTGTCCTGAACA	38946
5321	CAAACCTGCTCCACAGGTAAC	16979	GCAGCTAGAGAAGCTATCCGGTTT	27963	GTCCCACTGTTTCTGCCCACT	38947
5322	AGAGGAAGCCGAAGGCCAGTAA	16980	CGCTGGGACCTTGGTAAAGAA	27964	GGACCAATGAGCAGAAGAGGAA	38948
5323	GGAGAAGTGTGAAGTCTAAGACTA	16981	CCAGGCTGTGAGAGCTA	27965	CAGTTTCACTAGTAGGGAAGTGTGAAC	38949
5324	GGAGTGTAGGGTATGAGGTAGGGATCAT	16982	CTGCTGGCATCTCCAGCTTCAT	27966	GCAATGACTGGAGTGTAGGGTATG	38950
5325	CAGCCATAGTTGCACCATCAAG	16983	CACCTAAAAGCACTCACACAGTACA	27967	GAGGCTATTTAGACCTTCCAGCCATA	38951
5326	CAGAAGCTGCCACGAATTGAGA	16984	GTGTGCGGCGCTAGTGGAA	27968	CCTGGCCATTGTCTCCAGAA	38952
5327	GGGCCATTCACTCTCTCTACT	16985	CAAATCTGCGGGAGGGGTATG	27969	CATTTGCCAGGGCCATTACT	38953

5328	GAGTAGCCCTCTTCCAAACTGAAG	16986	CTCAATTTGCTAACGCTACTGTGT	27970	CATTAATGCCTGAGTAGCCCTCTTC	38954
5329	CTGGCTGTGAACCTCTTAGGAGCTA	16987	GCCACCACACTGGCCAATAA	27971	TCTCCCACTCTGGCTGTGA	38955
5330	TGTCAGCTGTGCGACCCATA	16988	GGGAAACACGCTCTGAGCTCAA	27972	CACCTGGAAGCCAGAGAATGTCA	38956
5331	CCAAGGGATCGGTGTAGTAGCTTTC	16989	CCCTTCTCTCAACCCCTTCA	27973	ACAACCCAAGGGATCGGTGTA	38957
5332	GTTCTGAGAGGGGTGTCTTCTA	16990	ACAGGGAGCAACCCTGTGT	27974	GTGTCAGTAGGGTCCGGTTCT	38958
5333	CATGGATGGGAGTGGGATGT	16991	GGGCTGTCCCTCTGGTCTGA	27975	ACCTGTGAGTGCGAGTCCAT	38959
5334	GCCACATTGCTGGCCACTTT	16992	GGATGTGTGCTGTAGTGATGTGT	27976	TCCCATCCAAGGCAGAGGTACT	38960
5335	GCCCAAGCAACTTTGAAACAA	16993	GGAATGGACCCATCACAGACACT	27977	CCTGCTGCCCAAGCAACTT	38961
5336	CACAGCCAAGCATACCTCTGT	16994	GCCAGGTGCAGTATGGGAAAG	27978	CCCCTTTTATCCTATAAACCCTCACA	38962
5337	GAAGTCAGAAGTGAAGTGTCCAT	16995	ACCTGCTGCAGAATTTGTGAGA	27979	GCTGTTTACAGAGACCTTTGAAGTCAGAAC	38963
5338	CATCCATCGGTCCCTCCAA	16996	CAAGGAGAGCTGGACTCTGCTTT	27980	AGCCAGGGCTGTCTGCAT	38964
5339	CCATGAGCTCACATCACTGTCAAG	16997	TGCTGTTTTCTGTAGCACCAT	27981	CAGCGAACCATGAGCTCACATC	38965
5340	GGGTCTTGTGGGAGAGACATTC	16998	CTCTGATGTGCTTGGGAATTCATTT	27982	CCCATGAGAAGCCTGGGTCTTG	38966
5341	ACAAGGGTACCTGATAGTCCAAAC	16999	AGATGGAAATGGCAGGTGAAATCT	27983	GAGCTTTAAAGAACCAAGGGTACCTGAT	38967
5342	GCCGACACATTGCGGTTTT	17000	CTTGTGCCAGTTTTAGAGAACAAAG	27984	AGGGACACAGAGCCGACACAT	38968
5343	GAAGAGTCATTCCAGTCTGTGCTTAG	17001	GCATGCCCAGGTTTTGTCTTG	27985	CACCACTGAGAGCAAAGAGAGTCATT	38969
5344	TGGGCAGTAGCCCCACTCA	17002	ATGACCCCTCCCGACCAAGA	27986	GCGCCACTAACCATGTGAGA	38970
5345	CTCAGCACCGGTCTTCTTTTG	17003	AGGCTGGAGGGCTCACCTT	27987	GCGCTCCAAGCACATGAAGGAA	38971
5346	GCAGGGTTCATGGGTCCAAA	17004	TGCTGCCCAGAAGCACTGA	27988	GCTTACTAGTGAGGCAGGGTTCA	38972
5347	CAGAGAACAGCAATGTCCAGATG	17005	GTCAGGGACCCAGGTTGAAAA	27989	GCTGCCACAGAGAACAGCAATG	38973
5348	CGCCCCCTCAATGGGAGTAGTTA	17006	TACCTGCTGCTGGCCCAATA	27990	AACAGCAGCGCCCCCTCAAT	38974
5349	CGCCTTACAGTCCCTACTTCTTC	17007	GGTTGCCAGTCTGATTGTGGTA	27991	TAGGTCTGCCCGCTTACAGT	38975
5350	AGCTGAGCTCTTCGCCAGGTA	17008	CAAGCACCTCGGAGGAGATGAA	27992	GGAACCCAGGACAAGCGTCACT	38976
5351	GCCTCAATGGGCTCATCTTTGAGA	17009	GTCCACCTCACCACTCTGA	27993	TGCAAGCCTCATGGCCTCAA	38977
5352	GACCAAGGCAAGGAGACAAGA	17010	CTCATCTAGAGCTTGAGCACTCATC	27994	ACATTGAGAAGGAAGAAGGAGCATT	38978
5353	CCTGAGGGCTCAGCATTTGT	17011	GCAACAGGGCCTTTATAAGGGAAT	27995	GGGAGATTTTGGGAGGCGATTAAAT	38979
5354	CCCAGCCCTTCTCCAGTTAAT	17012	CAGAGTAATGCATGCAGGGAAGA	27996	TGATCTGACCCAGCCCTTCT	38980
5355	GGGGAGTGTAGACAGCACTGAT	17013	CCAGTCCACAGGTGGGGAGTT	27997	AGCAGGGTGGGGAGTGTAGA	38981
5356	CCATGACAACCAAGAGCCTTCT	17014	CATAGGTAGTGCCATTTGAGCTGAT	27998	GCCTCATCTCCATGACAACCAAA	38982
5357	GCAGCCCTGGATTGAGTTGACA	17015	CCTGAAATCCCATCGTGTGGCTTA	27999	GGGTGAGCAGCCCTGGATT	38983
5358	ACAAATCTCAGCCAGGGACTA	17016	GGTCCCATGTGGAGTCTGTACTTC	28000	GGCTTTGGCCTTTTGCTCATACA	38984
5359	GGAAGATGACCGTAGCGGCTTT	17017	CACCTTGGCCTGGCTTGATGTGA	28001	GACAGTTACCCCTATAAATGGGAAGA	38985
5360	GGGCTGCCTGTTTGAAGTTGGAA	17018	GACTGGGCACAGTGTGTGTA	28002	AAGGTCAGGGCTGCCTGTTT	38986
5361	CTTAAGGCAGCAGGATGGTCAA	17019	TGTAGAGGGCCTTTCTCTCACT	28003	TCAGGAGCCAAGTTTATGCTTGAT	38987
5362	GTGAAGAAAGCCCTTGTGTACTGA	17020	CAGTTCTGGGCGGAAACAGTGA	28004	GCCCCTCACAAGGCTCATT	38988
5363	CCCGGAGGCAGATTAAGGAAAAAG	17021	AAAACGCGCCATTTCAAGGAA	28005	TGATGCCCGGAGGCAGATT	38989
5364	GGCCAGGACAAGGTGTGTCA	17022	GGAGCCCAAGTGAGCTTATC	28006	TTGGGAGTAGAGGCCAGGACAA	38990
5365	TGGGAGGCATCGGTGACAAG	17023	CAGGAGGCTTGCCTGTGT	28007	GCCCCCTTTATCTCTCCCTGAT	38991
5366	GGCTCAGCCAGGCTTGGA	17024	CCTTTCTCCTCTGCTGTGTA	28008	GAAGGGCCTGTTTTTCCCAAGA	38992
5367	GGCCACCATCTCTGTTCTAAG	17025	GACCTGTTTGTCTGTATCTGAGCTAT	28009	CATCCAGAGAGGCCACCATCT	38993
5368	GCAAAGCGGCAGTGTCAACT	17026	GCACAGCATGTTAAACGCTAATTC	28010	GCCTTCACTTAAATGTCAGGCAAA	38994
5369	AGAGGGTCCCTCCAGGCACAT	17027	CTCAGGCAGATTGACAGGTGTGT	28011	ACCTCTGGGGAGAGGGTCCCT	38995
5370	CTTCCCATGGTTCACACAGAAA	17028	GCCCCATTCCACCATTTGATTTG	28012	GGCCTGGCTTCCCATGGTT	38996
5371	ACCGCCCTGAACACTTCTAT	17029	TGAGGTGTGGGGCAACTGT	28013	TTGATCTCACCGCCCTGAAC	38997
5372	GTGTTCTTACCCTGGCCTTCAA	17030	CAACCCCAAGTCAGACTCATCAAC	28014	CACCTGGGACCTACGTTCTCTTAC	38998
5373	CCCTCTCCTCCATCAGCATT	17031	CCAGGAGGATGGCTTCTGAATTG	28015	ACGGTCAGGCTTTCTCGTACA	38999
5374	ACAACCTGTTCAAGTTGTCTGTCT	17032	GGTACAGGTGTGCAAGCAGTGAT	28016	CCTTCATTCCAGTGTGATACAGAACAA	39000
5375	TGCTCCCTCTACAGCACAAG	17033	GGGGCACAGCACCAGTTTCA	28017	GGCCAGATGATTGCTCCCTCTAC	39001
5376	CTGACTCTTGTGATTGTGTCTA	17034	CCAGGCTGGTGACAGACAAAC	28018	CCCGATTCTGACTCTTTGCAT	39002
5377	TGTCCTGTGCCGAGGAAGA	17035	TGCCTGTTCAACCTCCACTTG	28019	CCATTACAGCAGGTCCCAAGTTT	39003
5378	GTCTTAACACAGTTCTTGCTGTT	17036	CCGTCTGGCAGGACCGTATC	28020	CTTCAAGTTGTCTTAAACCAAGTT	39004
5379	GGCCAGTCTGCCATTCTTCT	17037	GGGAGAGGCAGAATTCGGA	28021	GCCTGGGTGCAAGGCTCAA	39005
5380	TCATGGAGCCCTCACTCTCATC	17038	TGCTGTTCCAGCGGACCTT	28022	GCGAAGGCCACACCTCAT	39006
5381	CGTGACTTACTGAAGAAACCAACCTA	17039	GAGCACAAGGAGGCGGTTTT	28023	GAGCTCCACGTGTACTTACTGAA	39007
5382	GTAGGCAGGTAGAAATGTTGGATTCT	17040	TGGTCCCGGCTCCATCAGA	28024	TCCTTCATGTAGGCAGGTAGAAATG	39008
5383	GGAACCTTAGGGTCAGATCTGGA	17041	ACCCTGATGTTTGACCTTT	28025	GGGGAGGTTTGAACCTTGGCTGGA	39009
5384	ACACAAAAGACACGCATGTCAAC	17042	GTCTGGCTGCCCTGGTCAA	28026	GCCAAATAGGGACTTCTAAGTACAACAA	39010
5385	CATCCACTAGACAGGGGATCA	17043	CACCGGCCACTTACTCTCTTAC	28027	AATGCTGCTGTGGGCAGAA	39011
5386	CATATACCACTGACTCCCTGAAAA	17044	CTGGGTCTGGAATTTCTGATGTT	28028	TCAGAGAGTCTGAACGAATCACAT	39012
5387	ACCTTCTCTGTCTTGACAATC	17045	ACCTGTGGGACTACCTGAGGTCTA	28029	TGCCCAGGTCAATTACCTTCT	39013
5388	ACAGAAGGACGCCTCTACA	17046	GCGGAGGTGAATGAGTGT	28030	CCTCCTACCCACAGACACACA	39014
5389	GGAGGGCACCATTAAAGCAGTAG	17047	GGCCTCATAAATTAGAACCTGGAT	28031	GGAACGAGGAGGGCACCATT	39015
5390	GGGCACCTCATTGCTAACTCTTCT	17048	CAGAGGGCAGAGCGCTGAAT	28032	TGGGTGTTCTACCCAGTTACA	39016
5391	CAGGGTGTCTTGCTACAAACCAAA	17049	AGTCATCTCCCAACCACAT	28033	CCATCTCAGGGTGTCTTGCTA	39017
5392	AGGCCTGCCTTGGGTACAA	17050	CCTGAGCATCTGGAAGCTTAC	28034	GCTGGAGCGATACTCGCTTTTC	39018

5393	GAACAAACCGTGTGGGGCAAT	17051	GCACGGGCTAGAAGCTCACTTC	28035	TGGGGTGGAAGAGTGAACAAAC	39019
5394	AGGCAGGGGAAACGAGAGAA	17052	GAGCAGGAAGCCTGAGTCTTGA	28036	GGCTGATGCGAGGTGAGTGAAA	39020
5395	CAGCCTTACAGGTGAGCCTTTC	17053	CTCCTCTGTTCCTTTTGGAT	28037	GGCAGTTTGTCCAGCCTTACA	39021
5396	AGCTGCTAATGTCCAGTGTCAA	17054	AGGACAAATGCCCTAGAAGCAAAT	28038	TGTCCACACAGAACTGCTAAT	39022
5397	CGAGTTAGGCCACCAAGCAA	17055	GCAGGGTCTGGTTTGCAATTGA	28039	TTCCAGGTGTCAAATACAGAGTT	39023
5398	CTCAGTGAAGTGTGGTCTGTA	17056	TGCCTCACCCTCAACTCTTTAG	28040	GTACAGTGCTCAGTGAAGTTT	39024
5399	TGGGAGAGGAAGGTGCAAGA	17057	CTCCTGCAAGTGTCACTTGTG	28041	AAATGGCGCTGGGAGAGGAA	39025
5400	AGACTAACTGCCACCTTGAGA	17058	GGCCAATGCAGTACTATTGCTT	28042	GGGATGCTTCTAATGCTCTTAAAGACTA	39026
5401	GGAGCCATGAAAGGGAACCTCAAAG	17059	AACCTGCACACCTGCCAATC	28043	TGTCTCAAGGAGCCATGAAG	39027
5402	CACCATAGTCTCCCTAAATCCAGAA	17060	TGGAGCGAAGTCATGTCACTCT	28044	GCTCTACGATACACCATAGCTCCCTTA	39028
5403	GTGAGGGAGGTAGGGTTTCAAG	17061	GGAGGGGCTACTAGAAGCAAAC	28045	CCTGAACAGGGTGAGGGAGGTA	39029
5404	CTGACTTTCTTAGCCACCGTACA	17062	TGCCTGGCAATGTAGATAAGGAT	28046	GCTGGACAATTTCTAGGTGCTGACTT	39030
5405	TCACTCCCGGAGGAAGACAAAG	17063	CGCCCTCTCTCACCATGT	28047	GGCCTCAGCCTGCTTCACT	39031
5406	GGTGAGTGGCAAGAAGGAATCGAA	17064	TGGCATCGCCATCACCCTTAA	28048	GCTGATGGATTGACTGGCTGTGA	39032
5407	ACTCCCTCTTCCAGCTT	17065	CCCCTGTGTTTGTGGGTGAT	28049	AGAGGCCCTCACCATGTAAGA	39033
5408	GGTGAGGAAAGAGTGGTCCCTGAA	17066	GGTGGCAAACTGTCCCACT	28050	GCTCTCAGTAAAGAGGGTGAGGAA	39034
5409	GGAAATGGCTGAGAGTGTGTA	17067	GGCACAGATTCTGTTAGAAATGGAA	28051	CAGGATTCTGAGGTCTAGGAGGAAT	39035
5410	CTCTTACCAGGACCATGTACCTAGAA	17068	CATTTCGGCTGCAAGCCATT	28052	CTCAGCTCTTACCAGGACCAT	39036
5411	CCAGTTAGTGTTCAGGCTTTTGACA	17069	GACTCAGCCCGGAATTCGTT	28053	GGACATCGACCCAGTTAGTGTTC	39037
5412	TCCTCCCCTCGGCCATCA	17070	CCAAGGTATGGCAGGAGTTTGT	28054	CCCAAAGTGCAAGGCTGTCA	39038
5413	TGGGGATAGCATGTCTTGACT	17071	TGCAGTGCTGTCTCATGTGT	28055	GTCCCATGTTTGGGGATAGCAT	39039
5414	CAGAGCTCGTGAGTGATGTGCTT	17072	ATCCTAGGGCCCCGTAAGTCA	28056	TGGGTGCCTCATTCTGAGTACA	39040
5415	GTGCAATGGCCAGAGACAAG	17073	CGTGGCTTGGAAAGAGATACATTCA	28057	AGACCTTGGACTGGTGCAAA	39041
5416	TCGGGCCCCATAGGCAACA	17074	TCAAACCCCAACCACTACA	28058	ACTCTGCCTAGTGTCCATCTTCT	39042
5417	TCTGAGTTCAGTAGGAGACAGTGA	17075	CCCAGGGTGGGGTTCCTT	28059	GGTACCAACCAAGATTCTGAGTTC	39043
5418	GTCTCAAAGCCTGAGGTCTGA	17076	CCCATCTTTTCTCCAGGCACTT	28060	GTCAGGGTGCAAGGTAGCTAAG	39044
5419	GCCAAGTCTTACTGGCTTGACA	17077	CTGCCAGCCTTGAACCTGT	28061	GGTTAGGCAGGAAGCCAAGTCT	39045
5420	GCATTGTCAAGACCCTGCAATTCTTC	17078	CCACAGCATCGATGACAAAC	28062	GCAGGGAGAAGCATTGTCAAGA	39046
5421	CCACAGCCTTAGTTCACCCTTGT	17079	ACCAGGCAGCTCCATGTTG	28063	GGTTTGACCCACAGCCTTAGT	39047
5422	ATGAGACAGCCACTCTCTAATTG	17080	CAGGACCAATAGAAGTCGGGAATA	28064	GCCCTGGAATGTGGAGTCTATC	39048
5423	ACCAGCCATCCAGTTCAGA	17081	GGTGCACCAAGCATAAGGTTT	28065	GAAGTAGCCACTTTTGCTTCCAA	39049
5424	TCTATCTGCCCTCCCTCAAG	17082	AGATGTGGGAGGAAGATGTTT	28066	CCACCTTCTCAGTTGCTCTCTATC	39050
5425	GCTTTGCACAGGGGTAGGAT	17083	GGTGCCTCTGGAGTTGTGAAGT	28067	CCCCACAGAGCAGTGAGAATAACA	39051
5426	TGGCCATCCATTTTACCTGCAA	17084	GCCAAGTTTCCAGAGAATGAATC	28068	GCTGCACATTTGTGCTGGATTG	39052
5427	GCCTCGCCTATGTGGAATTA	17085	GCCAGATAAGGGCCGAGTTC	28069	CCATCTTGGCTCCGCTATG	39053
5428	ACCAACCCGGAAGCCCTGTA	17086	AGGACAAAATGCATTCAGGACACT	28070	GCTGGTTCTCTGAGCTGACACCAA	39054
5429	GAGGATGAAAGAAAGCCAAGTTGT	17087	CCAGTTTGTAGCCTCAAAGCAA	28071	AGGCCCTCACAGTGGTAAGA	39055
5430	GAGATGCCCTGTGGGAAGAAGT	17088	TCGGCTTGACCTACCTGCTT	28072	CGGCTGGAGATGCCTTGT	39056
5431	TGCCCTTGTGGGACAGTGA	17089	AACCTGTACACCTGGGACTCA	28073	CCTTGGGCTGCCCTTGT	39057
5432	GGGTGTGAGAGCGAGGTTTT	17090	GGTTTGACCAAGCATGTCACTCA	28074	GCATACTAGAAGGCTAGGGTGTGAGA	39058
5433	TCCCGGGGCACTTTCCACTT	17091	TGACTGGCTGCAGCTCAA	28075	ATGGCCAGGAGGCACCTT	39059
5434	CCTTGGGGATTATGAGCTTCCATT	17092	ATGGCTCCGCTGCCTCATC	28076	TGAGGGGCTTGGGGATTATGA	39060
5435	TCCCTCATCTGAAATTGTGCATGT	17093	CCCAGGAACTCTAGAGGAGGATT	28077	TTCAAGGAGCTGTCCCTCATCT	39061
5436	GAGGATGTTTCTATGCGCCAGTCT	17094	TCATGCAGGGCCACTCTTTG	28078	GTGACTGCTAGAGGATGTTTCA	39062
5437	TGCACAGCACGGTGTGGTT	17095	CTCTTTGGCAACTAGAGACACAATT	28079	CCCAGGCAACTGCACCAATG	39063
5438	GCTTGTAGCCCCATGTAGTTCA	17096	GGAATATGGGCTCAGTCCAAGAA	28080	AAGAGGGGCTCTGCTGTATG	39064
5439	AGGCCGCTCCTTCCAGATATGA	17097	CCCGCCTTGAAGTGGTCTTT	28081	AGACCTCAGGCCGCTCCTT	39065
5440	GAGGCAGCAGTGTCTTGTT	17098	AGGATGGACCCCACTGACACT	28082	TGGTCTCCCATCCCTTCAACA	39066
5441	GGTTCTACTGGCGAGTGGATAGA	17099	GAGGGCCCTAATGTCTCTCTT	28083	GGGAGAAGGAAGAGAGGTTCTCA	39067
5442	GCTGATGGGCATGGGAGATGAA	17100	GCTGTATCTCAATCTTTCCAGGAAGT	28084	CGGCAGGCACAGGATTGAA	39068
5443	TCCCAAGGAGCCAGGAACA	17101	GCCTCTCCACAGCAAAATCAA	28085	AGCAGCAACTCCCTCCTTCTT	39069
5444	CCAAGATACTGATCGTTGTCTGAAT	17102	GTGCTGGATGAACCTGTTTG	28086	CAGCAGCTCTGTGAATTTCTGTGA	39070
5445	GTAAGAAAGCTGACGGGAGTACAGT	17103	TGAGCTGTGTTGGGACTGA	28087	GGGTCCAGGCAAGCAGTGTA	39071
5446	ACACCTGGCATTATCAAGACGTAA	17104	ACTGCGCATGTGCGAAATCT	28088	CCAGACAGAAAAACCTGGCATT	39072
5447	CAGGTTTGGTTAGCGGAGGACTT	17105	CCTCACCTCATGCACACCCTTT	28089	GGGTAGATAACGAGAGCAGGTTTG	39073
5448	GTGACAGTAGGGCCTGAGGAT	17106	CTGGGGATGAGTAGCAACCAA	28090	GGCACCTGTGTGAACATGGTAGT	39074
5449	TGGTGTGGGACAGTCCACTT	17107	ATTGACCCACGGTGTCTTC	28091	GCATAGGTCTCCTTCCAAAGTCGTA	39075
5450	TGGGACCTAGGTGCTGTGTT	17108	GTGGAGGTCTAGTCTCAGTTG	28092	TGCTAATGCAGGGTGGGACCTA	39076
5451	CCCCATCTGAGGCCCTGAA	17109	CTGTGCAAAATCCTTCCGCTCTG	28093	AGGCCCTGTTTACCCCATCTGA	39077
5452	TCTGGCCTCTACGGCTTGTTA	17110	GCCAGAATACCGAGGTCTGGTTAG	28094	CACCACATTTCTGGGCCTCTAC	39078
5453	GATCGGAAAGAGGGTCTGAAG	17111	CCATAGTACGTGAAGGCCCACTT	28095	GGGTTGAAGTGGAGATCGGGAAG	39079
5454	TGTCATGGTGATCGGAGGTTTC	17112	AGGAGAAAATGGTGCTTGTGGAA	28096	GCAGGAAAGCAGAGTGTCAATG	39080
5455	CCTGCCACTTGTATCCATCTCT	17113	CACGAGCCCCAAAGCACAAA	28097	TTGATCCAGCTCTGCCACTTG	39081
5456	CAGTGGGAATATACTCTGGCATGT	17114	AGCAGGAGGAAAGCAGGTCTTG	28098	AGTAGGGCCACAGTGGGAAT	39082
5457	GTCTGTAGTGAATAGCCAGATTCTA	17115	TGATTGGCAACACTGTAGGTGAT	28099	TGACACTGGGGAGTCTGTAGT	39083

5458	TCAACCTGAGAGGTCCCGAGAT	17116	AGTCTGAGCATCCCTGTCTGA	28100	GGGAGAGGAGTTCAACCTGAGA	39084
5459	GGGCTGATCTGCTGATTTCTTGA	17117	TGCAAGTCCAGTGTGCTT	28101	CCACACTTACTTTTAGGGCTGATCT	39085
5460	GGAGAAGGCAGCCTCTACACTA	17118	TCCTCCCCAGTCCCCACATTTT	28102	GGAGTGCAGAGTCCAGGAATGTT	39086
5461	TGGCCAGGGTCTGTCACT	17119	GTGGGAGAGGCAGGTACTTCAGA	28103	ACCCCTCCTTGGACCATCTGT	39087
5462	AGGCCTCTGTGCCACTCTTTG	17120	GCTCCCAAGCCACTGGTAAAGT	28104	ATGCTAAGGCAGGCCTCTGT	39088
5463	GTCTGCCCTTGACACCTCAAAGA	17121	GGCTTGGAGAAAGGGCTGAGAA	28105	GGATGGGAGTCTGCCCTTGA	39089
5464	GAAGGAGAAGTGGGGAAGTGT	17122	ACCAGCCCCAGAGAGACATT	28106	GCACAGCTCAAGGGAAGGAGAA	39090
5465	CACAGCCAGCACTAGAGACAATC	17123	GCACCTGGAAAAGGGAGTGTGA	28107	GGTCCCTGCAGCTTTCATCA	39091
5466	TCCAGCCTTTGAGTCTTTGTCT	17124	ACAGGGTCCCCATGGTCATCAA	28108	GGAGCTCTTCCAGCCTTGTAGT	39092
5467	CAGGCACACTGAGATGCCATA	17125	CCAGTGCCCTGCACAGTATT	28109	TGTGCAGCCAAGTGCCTTTC	39093
5468	CCACTTTTACATCCAGAAAAGTGT	17126	CAGCAGCTGTGACTGAAATG	28110	AAGAACCTACCACTTTACATCCAA	39094
5469	GCTTCCAGCACACATAAGA	17127	GGTCCAGAACCCTTCAACACCTA	28111	TTGTTTTACCTCCCTCTGCTT	39095
5470	CATGTGGCCTTTAAATGCTGGATAAG	17128	CTTTGGCAGGGAGGCAGAAA	28112	CCAGGCACTGGAATTTCCAT	39096
5471	GGAAAGGCTGTGCAATGGATAC	17129	AGGGTGAGTTGGGGACTGAA	28113	GGAGGGATTGGCATATGTCAAGTAAAG	39097
5472	GACCTCACCAATGCGAAGGAA	17130	CACGCTGCAGGCACAAAAGT	28114	GGCTGGAAGTTGGGTGTGA	39098
5473	CGAGCAGGCTGAGGGAAGTCT	17131	AGGGGAAAGGTGAAAGCTAAGTAAAG	28115	GCTCCAGAGTTTACACACACA	39099
5474	GTGCGAGGACATAAACCAAGT	17132	GCACCTAAGAGCTGAGCCTGTGA	28116	AGCGACAGTGCAGGAGACATA	39100
5475	CATTACGTTTGTCTAGTTCTCTTC	17133	GGAGCAGCTACGTTCTATGCT	28117	GTTTCCCATCGTTGATCTGATTC	39101
5476	GACTTCCAACCTGGACTTAGACAT	17134	TCCACATGCCTCAAAAAGACACA	28118	CCCTCAGCTCACAAGAAGCTGACT	39102
5477	CTCGCAAATCCTCAGATCCTTTGT	17135	GGATGTGTTTGTGAGCCGAACAAG	28119	AGGACCCCTTTCCCTAGAGTTT	39103
5478	GCAGACCATGGGGCTCTACTTAC	17136	ACCCCTCGGAGGAGCTGTCA	28120	AGGACACCAAGGAGCAGACCAT	39104
5479	CTCCACCAACATAAGCAAAGACT	17137	CCCAACTGTCAACCATCAT	28121	TGTGGAACCTCCACCATCAT	39105
5480	CACCTGTCAGCCGACTTTGGTA	17138	GAGGACAAGGGAATGCACGTA	28122	CACAGGCTGGCAGTTAAACACAGA	39106
5481	ACCTCCCTATGTAGTGAGCTGTTAG	17139	TGACAGACCCACTGAGGTGACT	28123	AGGTTTGAGAACCTCCCTATGTAGT	39107
5482	GCAAAGGTCTTATGCGCAAGTCT	17140	GCTTGGCAGTAGGACAGACCAAA	28124	CCAGGCTCTAGCAAAGGTCTTC	39108
5483	GACCAGAGCTGGCAAATTTCTACA	17141	AACTGGCCTCACTCTGGAAAG	28125	GGTTACAACAGCTTGTAGGTCCTTGA	39109
5484	GCCTGGAATGTATCCATCAATGTT	17142	GTTCCTTTCTCCTCTACCTAGCAT	28126	AAAAAGAGGGCTGGAATGTGA	39110
5485	GGGGAAGAGAGGTTAAGGAAGTGT	17143	GCTGAGCTCAAGCCCTCTATCT	28127	AGAGCCTGGGGAAGAGAGGTTA	39111
5486	GGCTACTCTCCAGTCTGTTGT	17144	AGGAAGGGGATGAGCAGGAA	28128	CCTCTGTGGAGGATAGAAATGGCTACT	39112
5487	CCACCTGTGTGATTTACTTTCTTCA	17145	TGAGGACTTCCCTACCACTCT	28129	GCCTCCACCTGTTGGATTT	39113
5488	GGAATCATGTGGGGTGGAACT	17146	TCAGGTCCACCAAGTGTGAAAC	28130	CCTGCAAAGTCAACAGGGAATC	39114
5489	AGTGAGGGCCTTACACAGTGA	17147	GGGATGTGAGGTGTAGGTT	28131	CTGGATGCTAATGTGCAGGAGTGA	39115
5490	GAGGAGAGACAGCAGTGTGTGTA	17148	GGGACCATCCCTGACTCTTACATT	28132	GGGAAGAGACCTAGAGGAGAGACA	39116
5491	GCTGCTGTGATTGGGAGTTG	17149	ACCCGGCCATCTTTGGTACA	28133	GGGATTCAGTGGCTGCTGTGAT	39117
5492	CTCCCTGTGACTCTGGAATTGA	17150	GCTATAGAGCGCTCTGCATCCAA	28134	GGCCTTACTCCCTGCTACT	39118
5493	GTGCAAGTAGAAGAACTGATTTCTCA	17151	CCATGGTGCCAGAAGGTCTTGA	28135	GCCAAATCTGTGCAAGGTAGAAAG	39119
5494	CCGCTGTGTTGCTTGTCTTCT	17152	GGCTGGACAGCTTCAAGCTTAC	28136	TCACCTCCACCGCTGTGTTG	39120
5495	ACTGTCAAACGGCTGTGCTT	17153	AGGTAGATGGCAAATCTGTGGAA	28137	CCATCAGTGTAGTTCTCTAACTGTCAAAC	39121
5496	AGTCAAGCAGGAGGACTTGGAT	17154	GATGGAGCCTGAGGCATTAAACA	28138	GGCCAGAAGACTGCAAAAGTCA	39122
5497	GGACAAGAAGCCCATTTTAAGCAT	17155	GGCCATGGGACAGCATTTCT	28139	GGCAGGAACCACTGGAGCAA	39123
5498	ACTCCGACCAACCCAGACCAA	17156	CAGAGCAGAACCCATGCTTTG	28140	ACAGCACCAGACTCCGACCAA	39124
5499	CTCCAATGCCATTAGCTCCAGAAC	17157	GAGTCTTGTGCTGCTGGAGAAGA	28141	ATCTGACCTCACTGCTCCAAATG	39125
5500	GCTATGTGCTCTTTGGGGTTAC	17158	ACAATCTAGGGAAGGCAATTTGTCA	28142	CTGGATTTCAAGGCTATGTGCCTCTT	39126
5501	AGACAGTGTGACTCTGTGAGTA	17159	CCACTGTCTCCCTTCTTGAATG	28143	CAGACTTAAGCCAGAGCAATTAACACA	39127
5502	GGTCTGCTGACTCCTCATCTCTTC	17160	GAACCTGGCTGGGAACCAAGAT	28144	CTGCTGTGTGCTGCAATG	39128
5503	ACTGAAATCATGGCTGATTCTGT	17161	ATGGAGCCCTCACTCCGAAGTA	28145	GCTCCACCATCTTACTTAACTCGAA	39129
5504	CACCAGCAACTACAATGGCAAA	17162	CAACCAAAGTGGCAACGAAGT	28146	GACCTCACACCAAGCAACTAC	39130
5505	GCCCTGACTCAACTTCTCTCTGT	17163	GGGCATGGTGGAAGAGCTTGA	28147	GGTTTCCATGCCCTGACTCAAC	39131
5506	GCCATGGGCTGTGATCTCACTTA	17164	GCATGGGAGCCAACAGTCACT	28148	CCAGAATGCCATGGGCTGTGA	39132
5507	CAGTGCAGGCAGGATGTATGTGT	17165	GCCACCGCACCTGGACTATT	28149	CAGCAAGTCAAAGGCACACAGT	39133
5508	CTCTCTGCCTCATGGAGTTGT	17166	CTTTATTGGGCACCATCTCACATC	28150	GGCCCTGGGGACATACTTAATC	39134
5509	TCCTATCAGACCCGCCAGAA	17167	CGTTCCTCTCTCTCAACTTTTATG	28151	TGGCTGCCGCTTCTATCA	39135
5510	GGTTGGAATAAAGGGGCACAGCTT	17168	TGTCGCGATGCCGAAGAA	28152	GCTGGAAGACTGGGTGGAAAT	39136
5511	CCCTCCCACTTGGTGTGTATAGA	17169	GCCCCATTGCTACCTTTTTCAGA	28153	CGTAGGCTGGATAACTCCAAGA	39137
5512	GGAGATTGAACAGTCCATCGAAACA	17170	TGGCTCCAGGTCCAGCATCA	28154	CCTCCAGCAGGAGATTGAACA	39138
5513	GGGGCGTTTAACATTACTGAGCAT	17171	TCCAGCAGGTGCTTGACACA	28155	GCAAAGCCTCTTCCATCTGCTAT	39139
5514	GAAGTCCAGTGGATATCCCTCAT	17172	ACCTCCACATCCTGCTGTGACA	28156	GAGGCAAAGGAAGTCCAGTGGATA	39140
5515	ACTCGCCAGTCCCTTCTTAAT	17173	GTGTGGGCCAAAGGTTGTAGA	28157	GTGGGACACAGGGAACAACA	39141
5516	ACCACATTTGACTCAGGGTGT	17174	CCAAGAAATCACGTTTGGGAAAGA	28158	CCCACCGCTGGTGTGGGAAAG	39142
5517	GGCCCAAGTATTTCTTTGACA	17175	CCACCAAGCATCGTGTGT	28159	CTGCACAGGCCAGTGTATT	39143
5518	GAAGGTCCAACGACATCTTG	17176	GTCTGCAGGGCAGAAAGTGA	28160	ACACCAACCAAGGAGGTCCTCA	39144
5519	AGGCGCCCTTCTGTTTCTA	17177	GTGGTGTGCAAGTGTGAGT	28161	TGGAACAGGTCCCTGGAA	39145
5520	CCACTCCTGTGGGTTTGGTTATC	17178	GCACCAACAGCACCACAT	28162	GCACGGCTGTGGGTTATG	39146
5521	AGGCTGTGGTGGGAATCATCT	17179	GCACCAACTAGCTGACCTGTGA	28163	GGCATCAGCAGGGGTGATTTGA	39147
5522	GTGTTGCTCTGCGCCTTATC	17180	GGGAGGGTGAAGGAAAGACA	28164	CCTTTTCTCCCAATTGCTACTGTGT	39148

5523	CAACTTGCCCTTTGGGTCCTA	17181	GGGCACCAGTAATCCAACTCAA	28165	GTGCACCTTCTGTGTGTAATAG	39149
5524	TGGTAGCACAGCAAAACTGCTA	17182	CCACCCAGTCTCTGAAGCCATT	28166	ACAGAGTTTGGTAGCACAGCAA	39150
5525	GTAATCCTTACAGCCCTCCGGATA	17183	ACTCGGCTCTATCAGGTGCAA	28167	CATGCCAATGCCTTACCTTTTG	39151
5526	CCTGATGGCCCAAGAGGTATGA	17184	GGGAGCACTGCCATCCTTTGT	28168	AGGGACCTCCTGGTCTGTATG	39152
5527	TTCCCCATAACCCGGCCACAT	17185	CAGGCTTGTGGAGAGGATGTCA	28169	CAGAGGTCTTCTTCCCCATAAC	39153
5528	GTCTGTCTTAGTGACCCAGGTATTC	17186	ATGCCAGGCCAGTCTGTACTA	28170	GGGGAGAGACCAAGTCTGTCTTA	39154
5529	CTGCCAATGTGGAACTCTTCT	17187	CCCAATGGAAACCCTAGAACACA	28171	GGGTGTGTCCATTTCTGCCCAATG	39155
5530	GGCTAAAGGCTTACTGGCATAGGAT	17188	GCTGGGTCAACAGCTCTTTCA	28172	GGTGGGACAGGCTAAAGGCTTAC	39156
5531	GGCTGCTTCAAGGCAATTGGAA	17189	GGCTCCAGGAAGAAGCAA	28173	GGCTAAGACCTCTGAGCTCTAGA	39157
5532	TCTCCAGGGCAGACACAGTTG	17190	TGTCCCCAGGCTGTCTCTCA	28174	GGACCCAGAGGTGCTTTCATGT	39158
5533	GGAGCGGCTGTATGACATAGA	17191	GGCATCTACAAACTTCCCTTGTA	28175	TGCAGAGGAGCGGCTTGA	39159
5534	CCCAACTGTGATATTAACACCTTCT	17192	ACACCCAGCCAGTGTCTCA	28176	AGTTGCTGGCCCAACTGTGA	39160
5535	TTCTTGGCATCGCTGTGT	17193	GCCCCGGTCCAGGTTACTTC	28177	ATCGCCGCATCTGTCTTCTCT	39161
5536	ACTGACCAGCTGCTATTTATGTAAG	17194	GGGCATGGCTGTGTTCCAGTAA	28178	CCAAAACCTGACCAAGCTGCCAT	39162
5537	CAAAGCGGCATCAACCAAA	17195	GAAGACCACAGGACCATGATT	28179	CCCAGGGAGTGCCTTTCTTTC	39163
5538	CTGAGGCTGGAGCGAAGAAAAG	17196	TCTCCGGCTTCCAACCAAA	28180	CGAGAGCAAGAGAGAAAGGAAGTCTGA	39164
5539	TACTGGGACACAGACATGGTA	17197	GCCACCTCTCTCCCTCTAG	28181	GGAGGATCGTGTCCCTTCACT	39165
5540	TGCTTGAACCCATCCTTTATGT	17198	GGAAGCGAGCTTGGAACTTCT	28182	GGCATTCTCTCAATAGTTGCTGAAC	39166
5541	ACCTCATTGTCCCTCCATCAGT	17199	CTGTGGCTGTCCAGCAGATAAAG	28183	TGGCGAGCACACCTCATTGT	39167
5542	GCTGAGGAGTTAAACCTGCCAGTAA	17200	GGCTGGAATGCAGTGGTACA	28184	GGTTGGCTTGAGCTGAGGAGTT	39168
5543	TGGGAGGTTCTCTCACTAATACA	17201	GACAGCAAGGCAAGCTGAGAAC	28185	CCCTGATCTAAACAGTGGGAGGTT	39169
5544	TGCACCTAGCCAGTGTGT	17202	GTAATCCAGCAGATCACACTTTCT	28186	AGTTCCGGGCTTTGCACCTA	39170
5545	GTCTCCATGTCCAGGCTGTGT	17203	GTCAGATGGCTCTGCACCTTA	28187	GAGAGATGGTGTGTGCTCTCATGT	39171
5546	CCTCAGGGGTTTGCATCTAATACA	17204	AGTTCTCTCAACATTGGCCCTATT	28188	CCTCTGCCCTCAGGGGTTTG	39172
5547	GCTTGGGAGAACAACTCTCATTAC	17205	AGAGACTGTCTCAAGGCATTA	28189	GCCTTGCTTTGGGAGAACAAAC	39173
5548	TGGGAACCAATGGGCTTTCAT	17206	TGCCTTGGCTGACCTACAAC	28190	CCCTCTCAGCAAGGAGTGCTAT	39174
5549	CACCTGAAGGGTTGTCTCACAA	17207	AGAGGCTGGCAGAGACTACT	28191	GTCAACGCTACTGCACCTGAA	39175
5550	GGAACCTGGCAGCTTGGTTTTT	17208	GCCCCAGCTTCAAGCCAAA	28192	GGTCTGGGACTTAACCTGGAACT	39176
5551	CACCTAACAGAGTCCGAGGATAC	17209	TGGCACACACCCCAAGCTA	28193	CCCAAACTCCCTGAGCACCTAAC	39177
5552	CAGAGCCAAAGGGACCATGAAG	17210	GAAGTCCAGTGCCCCCTCAA	28194	CGAGTTTCATGAAAAGCTAGGACTCAGA	39178
5553	GCTTGGAACACAGGTGGGAAT	17211	CCCTGCAGGTAGGAGGGACTAT	28195	CAGAACAGGCAGCTTGGAAAC	39179
5554	GCATTGTACTACAGGCTGGAGAA	17212	TGTGAAGATGGCTTGTCCCTTT	28196	CCCGTGATGGTGAAGGCATTGT	39180
5555	CGATTCCACCCAGGAATGA	17213	AGCTCCAACCTCGTAGT	28197	GCTGAGTCAGGGATGATCCGATT	39181
5556	CACAGGAGCCACTACTTCTGTGA	17214	TGCTGGTGACCTGAGTCAATG	28198	TTCTTGTCTCTTCAACCTAACACA	39182
5557	GTGGGAGAAATTGGTACTTAACCTT	17215	TTTCGGGCTTCCCGCTAAA	28199	GCCTTTGTCCGGCAGAAATTGGTA	39183
5558	GGTGGGGATGATAGCATGAAGGAA	17216	CAAAGGCTGCAGACAGATGAAG	28200	AGAGGGTGGGTGGGGATGATA	39184
5559	CCTGAGCAGTGATCCCTTTAGTAAG	17217	GGCACAGAGGCTACACACAT	28201	TGGACACACCTGAGCAGTGA	39185
5560	CTCATGTCTGCTCTCTGAAAC	17218	CCCCAGGTGAATACTGTGCCTTCA	28202	TGTGCCTCTGCCTCTCTTCT	39186
5561	GGCAGGATGACTGTGTGCCAA	17219	GGAGGAAATCCAGCAGCTGGTT	28203	GCAAAATTGCAAAAGGGCAGGAT	39187
5562	GAGTGATGCCACAGCTCAAACAAC	17220	TCTATGGAGACTGCCAACCGTTA	28204	GGGACTCTGGAGGTAGTGAGTGATG	39188
5563	CCCTGGCTGCTTCCACAGT	17221	CCCACCCATGCTTGTCAAC	28205	ACGCTGAGCTCTCTGGTAA	39189
5564	TCAGCGTGCTCAGTGAAACA	17222	TTTCTCCCTTCTCATTCCACTATG	28206	CATAATTAGAGGGCACAATGGGTTTC	39190
5565	CACATCCTTGGGCATCACTGT	17223	ACTGGCCTGGAGAAGCTGAT	28207	GGAGGTTCACTTAATTGCCACATCCTT	39191
5566	TCTGTAGGCTGTGTGTCAATG	17224	CACAACCAGAGAACTTAGCACATGA	28208	CTGTAGGCTTATTCCAGCTCTGTAG	39192
5567	CCACAGCCCTATACTCCAAGCATCT	17225	TGGAGTGTTTGAAGAGCAAAGCTA	28209	CCACTTTTCTCCACAGCCCTATACT	39193
5568	AGTGTGGCTCTGCTTAAAGGTT	17226	GCTGCGCTCTGACACTTTTC	28210	GAGAGGCATAGGAGGATGAAGTGT	39194
5569	CAGGCAGGTCTTCCCTCTTT	17227	TCGGCCAGCAGCTCCACAGA	28211	TCTCTCCAGGCAGGTCTTT	39195
5570	ACCAGATGCTTTTAATCCCTGTGAA	17228	GACCTAAGGAAGTCATAGCCCAT	28212	GTGCTCCTGAACCAAGATGCTTT	39196
5571	CCACCCAAGGGTTTTCACTCCTTCT	17229	TGGCTGGGTAGGGCTGCAT	28213	TGTCACACCCCAAGGGTTTTT	39197
5572	GGCATGAGGATAAACTACTGTGCTT	17230	GCAGTCACACTTCTCCAACA	28214	CCAGTCTCTGAGGCATGAGGAT	39198
5573	AGCACTGGCAAGGGAGCAA	17231	CTGAAGGATGCTGGAAGTGAA	28215	CTCCAACCTGCTATTTCTCCTGATAC	39199
5574	TGCTTCAGCCCTCTGCCTACA	17232	CTTCAAAGCCAGAGCTCCATTTT	28216	GGACAGCCATCTCTGCTTCA	39200
5575	CAGCTCCTTCTTACCGTTTCATA	17233	TGGATCAGCCGGTGTCTGAA	28217	TGAATACCTAGCAGCTCCTTCT	39201
5576	CCAGAGCCCCAAGTGGAATGA	17234	CACAGTGAGACACAATGAACACAA	28218	CCAGAAGAAACCCGTCTGCTTGA	39202
5577	AGGGCCAAATGTCTTTCAGAAA	17235	CTTGGGTAGGCCTAGGTGTGTA	28219	ACAAACACATCTGAGGGCCAAAT	39203
5578	GGCGACTCGATGGGAAAATTG	17236	GCAGACACGGCATTGAGACA	28220	GGGATGAAAGGCGAGCTCAT	39204
5579	GGAGCAGCTAAGAGAAGTAGAACA	17237	ACACCCCACTCATCAGTCT	28221	GCTATCTTACGGGAGCAGCTAA	39205
5580	GCACTGTGTAGGACACTGGCAAT	17238	GGCAGCGGGTAGCTTGTGT	28222	GCCTGTAGTAGATTAGGCACTGTGTAG	39206
5581	GGCCCATTCCTTCCCGAGAAAA	17239	GCAGGGACCGGAGCCTTTAT	28223	CCCACCTGGCCCATTCCTT	39207
5582	GGCATTGGTGAGAGTGCCATTG	17240	CCACCAAGCCTGCCAAATTC	28224	CAGTGGTGGCATTGGTGAGA	39208
5583	TCTGGCTGCTTGTCAACAAAC	17241	TGCTGTGGCCAGGGGAATGT	28225	AGCCACACCCGTATGCACT	39209
5584	TCCTTGCCCTCCCAAGCGTAT	17242	CACATACTGTGTCTTCTCACTTTCT	28226	CAGCAGAGAGCATAGACACAATCCTT	39210
5585	GCAGCTACTAATCATGTGACACAAA	17243	TCTGAACCGCGCTGCATTTG	28227	GAGGACACACTGCAGCTACTAAC	39211
5586	GCTATAACCTTTGGTTTCTGTCAAGTTT	17244	TCTTGGCAGGCAGAGTTCCTA	28228	GACACCATCGGCAGGGCTATAA	39212
5587	GTTCTTAAGGAGTGATGTGTGATCA	17245	CCTGCACCCAGTCTTTCTTTAC	28229	TGGGTCCAGGACAGTTCTTAAG	39213

5588	TCCAAGCAGGAGACAAAATTCAT	17246	CTCTGGTCCATGAACCTATTTCCATTTG	28230	GAGAGACTTTCCAAGCAGGAGACA	39214
5589	GGCGAAGAGCCCAAGTCATCA	17247	GCAGTGTGGATCAGCCTGTACT	28231	ATAGAGGCACAGGGCGGAAGA	39215
5590	GGTGCTTGGAGCATCCTTCAGAAA	17248	CTCAGCAAGAATCAGTGACTTTCCAA	28232	ACTCAGGGTGCTTGGAGCAT	39216
5591	GCACCAGAAGCCCTGAAATCAAC	17249	CATTCCACAGCCAGCACAGA	28233	TTCGGGCAGCACCAAGAAG	39217
5592	GGAATTTCCAGCTGTCTGTATCT	17250	GGAGACTTAGACCCATTGGGGAACA	28234	GATTAATCCTCCCTGCCTGGAATTT	39218
5593	CAGCATTCATCCCCTCAAACGAT	17251	CAGCTGTCTCTGCTTCCAACA	28235	CCATGTGAGGACACAGCATTTCATC	39219
5594	CTCCAAATCCAATACCCCATGGAA	17252	GTGAGAATTTGGCCTGCACAAAC	28236	CCTCTTTCTTCTCTCCAAATCCAA	39220
5595	GCTCAGACAGCATGAGAGTAATACAGT	17253	CAGTGCATAGGTTTACCAGGAA	28237	GACCTGATTGCTCAGACAGCATGA	39221
5596	GCCCTTTCTCTTTTGGCAGTAG	17254	GGATGGGAGATCACACAGACCCTAT	28238	GGGAGTAATGAAGCCCTTCTCTTTT	39222
5597	CCCCTCACACATGGAAAGAGATTTG	17255	CGGAGCACTCACCATTTAGACCTT	28239	CCCAACCCCTCACACATGGAA	39223
5598	CAAATGCAAAGGTTCTGAGGCAAA	17256	CCCCTGTCTCTTGGTTGTTCCTT	28240	GGCAGAGAACAGCAAATGCAA	39224
5599	GCACAACCCCGGAAGTGAAGA	17257	CCAGCTTACTGACTTGAAGGATGGTT	28241	GCAAGCAACAGGTGCACAA	39225
5600	CCCTGAAACCCCAACATTCAT	17258	TGTGAAGGGAAGCTTTGGAATCA	28242	CAAGTCCAGGCTCCCTGAAAC	39226
5601	GGGAGACAAGGAGGCAACACAA	17259	CACATGGATAGTTTCAGTCTCCACAA	28243	GGGCGAATCACTGGGAGACAA	39227
5602	GGGAACAAAATGTTTCCAGTCAAG	17260	GTCTGCTTCCATGAACGTACAGA	28244	CACACAACCTCCATGTGGGAACA	39228
5603	CAGCTAAAAGCAAGCCAAGTAAG	17261	GAGACCTTGTTCCTTTATGCATCTT	28245	TGACGTTTCAGCTTAAAGCAAAG	39229
5604	GCCACCTACCCACCCACTCA	17262	GAGGCATAATCCCAATCTCTCTGT	28246	AGGCAGTGAGAAGCCACCTA	39230
5605	GGCAATGCGAATGAGTTCCTACA	17263	GTGTTATGTGTCAAGCCTTCTGTTT	28247	GGAACAACTGTGGCAATGCGAATG	39231
5606	CACCACAAAAGGCTGATAAAGTGAA	17264	GTCTGTGAGAGAAACATTCGCTGAATCAAT	28248	GCTATGGAACAAAAGACACCACCAA	39232
5607	CCTGAGGCTCCATGCTTTTAATACT	17265	CCTGGTTCACATGCTGTGGTGTA	28249	TCCATCCTGAGGCTCCATGCTT	39233
5608	CACCTTGTATCTCTTATGTGCTAGT	17266	GCCAAGGTGGGTGTGCATCTT	28250	GGCTGGGTCACTTTGATCTCCTTAT	39234
5609	CTTTGGAACTTATAGTAGCCAGAGTTTG	17267	AGACAGCCTCGGTTCTGGAAT	28251	CCAGGGGAAGAATGACATTGACCTTTG	39235
5610	CTTCCCACTCTGGTTTATAGGGAAGA	17268	CTCTAGGCCAGGGACTTTAATTACACA	28252	GATCACTCTTCCCACTCTGGTTT	39236
5611	CCTGGGTAACTAGAGTGGAGTCA	17269	GGGGTGTGTCATCTGTGCAT	28253	TCACCTTAGGCACTCCTGGGTAA	39237
5612	CCCTTCATAAGTAGCGTCACTCAA	17270	GCAGGAAATAAAGCAAGGGGATTTG	28254	TCTCAGAAAGGCCTTCCCTTCA	39238
5613	GGAGGTTATTACAGGGCTTCAGA	17271	GCTCATTGGCTTCTTACTGTGA	28255	CTGGCGCATAGGGAGGTTATTC	39239
5614	TCAGACCTAGCTGTTTCACTACT	17272	CCTGAAGCACTAGCCTGCTCAA	28256	TCTGAAGTCAGTCAGTGTGTGTTT	39240
5615	CTCACCTGTACTTTCTACTCTTGAT	17273	TGCATTGCTGTGATGAGGAATTAG	28257	CCAGTGTCAAGGCTCACCTGTA	39241
5616	GCTGCTCAAGTCTAAGTTGCGAATTTCT	17274	CTGGTTTCCGTAGAGTCTGTTC	28258	GAGAACTGCTGCTCAAGTCTAAGT	39242
5617	ATGCACTAGGATTGCCTTCTGTT	17275	GCACGGAAAGCAAAAGCTGATAAC	28259	TCCAAGCCATAAATGCACTAGGAT	39243
5618	CCACAGTTAGGATCCTTTAAGCTTTTC	17276	TCAGAGAACGGCACCCGGAGAT	28260	AGGGCTGCCACAGTTAGGAT	39244
5619	CCCTGTCTCACTGAAGAGCTGTAG	17277	GAGAGCCTGATGACCACAGGAA	28261	AAGGGCCCTGTCTCACTGAA	39245
5620	CCCGGCTCATCAGTTTGTGCTA	17278	GAACCTGAAAGGCATTGAACGTAACA	28262	GCAGCATCTACCCGGCTCAT	39246
5621	GGGCCACTTACTCAAAGCTCTTG	17279	GTCAATATGCATGACCAGGACCTAGA	28263	TGACCACTTCAGGGCCACTT	39247
5622	CCTGTTCCATAGATCCCAAGTCAAG	17280	CAGGTGGCTAGAGTAGCTGCAT	28264	GCCAAAGGAGCCCTGTTACAT	39248
5623	AGGGTAAAAAGTCCAAGTGTGAGT	17281	CCTTCCTTGGCGTGCAGTAGAT	28265	GTGAGAGACAGGAAGTCAAAGGGTAA	39249
5624	GCCCTTAGACGAGGTGAGTTC	17282	CCCCTGTCCGCAATGATCCTA	28266	GGCTGAGGAAGCAGCCCTTA	39250
5625	GTTGCACTACAAGGTAGATTGGGTTA	17283	GATTGGCTACTGCTATAATTCCTAT	28267	GGTCTTGTAGTCAGTCTGTGCACTAC	39251
5626	AGCACAGGAAGGGGATTTCTTTG	17284	GGTGGAACTTTCCTACAGTCAGACA	28268	TTGCCCTCTGCCTCTCTCTAA	39252
5627	GGCTAACCTGACAATACCTCAATG	17285	GCAGGAGGGAGATTTGTGGAAA	28269	CAGTGAGGAGCAGATGGCTAAC	39253
5628	CCTTAGCGGGGAACCATATTTTC	17286	TGTGAAGTGTAGGAAGCTGTCTTT	28270	GGTGGGCTGCTGTAGCCTTA	39254
5629	CTGCTGTCTATTTCCTCACTGT	17287	CCCGGCCAATGGCTCT	28271	CCGCTGGAATGCTGCTGCTATTT	39255
5630	CCTGGCCACATGTGTCTGAAC	17288	GCAACTGGCTCCCCTTCTCT	28272	ACCTGGATCCCTGGCCACAT	39256
5631	CCCGTCTACCTCTAAACACAGA	17289	GCTTGTCTCTCACCTCCTAAG	28273	GCTTTCAAGCAATCCGCTCTCA	39257
5632	CCTTCTGCTTTCCACCATGTAAAG	17290	GCAGCAGCTTCTGGTGCAA	28274	GTCTGCTTGTCTCTTCTGCTT	39258
5633	CTCTGTAGTGTCTCCCACTTG	17291	GGTTGGAGATAAAACACGTGTAGGATTG	28275	CACCTTCTGTGCACTCTGTAG	39259
5634	ACGCCCCGTGATACTGTTCTTA	17292	ACAGGCGGAATGTAATATCGTTCT	28276	TGCACACGCCCGTGATA	39260
5635	TCTGCGAGCACTTGAGGTTTC	17293	GCCCAGCCAGTGAGCTTATTC	28277	GCCTGACTTGCCGATGCTTCT	39261
5636	GGCTGGGTGAGAAAGCATGA	17294	GCCGCTTGGAAATCAATACATTTG	28278	TGCTTCTGTGGGCTGGGTTGA	39262
5637	CATGGCTGAAGAGGACCATGT	17295	ACCCAGGAATTCACAAAACTGT	28279	TGAAACGGATCATGGCTGAAGA	39263
5638	GGGCACAACACTGAAGCTCTGA	17296	CCCTGACTGAGAACCAAGGACTGA	28280	CCTGTAGAGGGGCACAACACT	39264
5639	GGGTAGATTGAGAAAGCAGCTATGA	17297	ACAGAAGGTAACAGTCTTTCACAGT	28281	GCTCCCTGTAGGGTAGATTGAGA	39265
5640	GCAGGTGAGTGACTGTGAGCTA	17298	CCAGCTGTGTGATGTCAGATA	28282	AGCTGTTTTTGCAGGTGAGTGTA	39266
5641	CAGGCAAGATGTACGCCCTTCAA	17299	GGCCTCCCTTTCTGCTTCTT	28283	CGGGCCACAGGCAAGATGT	39267
5642	GCAACAGGAACCATGAAGAGCAGAA	17300	AGCTCCCACTGTGTCAGTCTA	28284	CCAGAGAAGCAACAGGAACCATGA	39268
5643	GGGACATGCTGACAAGGACTGT	17301	GTGGCAGATTGATTCCCTCAGAT	28285	GTTTTGTAGCCAAAGAAAGGGATG	39269
5644	GGGCCCTGTAAAGGAGAGAAATTG	17302	GAACCTCCACTGTCTTGTAG	28286	CTCATTGGATTGGGCCCTGTAA	39270
5645	GTGGCCGAATCCCAACAAAA	17303	GTGAGGATGACCAGAGGTCTCTTT	28287	GTGGTAAAGAAAGGTGGCCGAATC	39271
5646	ATACACAGAGCCGCCATCA	17304	CGCGGGAAATCGCGGAAAT	28288	CATCGTCTGCCGGATACACA	39272
5647	GCCATACCTGAAACCACTTTAC	17305	GACTGACCACTGATACTTCTGTTAAATCA	28289	CGGCCTCTGAATTTTGCCATAC	39273
5648	AGGTGTAGCTTCGGTGCAG	17306	TGCAACTTTGCAAGGTAAGAGGAT	28290	CCGAGAAAGAAAGGCGAGGTGAG	39274
5649	CCTGCTCCCAACTCCAGTAGA	17307	GGGATAGGCGAAGAGTAGACAGA	28291	AACAGAGCCTGCCTCCCAAA	39275
5650	CTTAAGGCCTGGATGTCTGTTTGA	17308	CAGGTGGATTGCAAGACAGGAA	28292	CTGCTGACTTCTTAAGGCCTGGAT	39276
5651	CCCATTGTCCAACAGGGCTTTTC	17309	TGGGGCTTTGTAAAGCGCAT	28293	GAATCTTCCCATCTCCCATTTG	39277
5652	CAAGGCTTCTTTTCAGTCTAGT	17310	AGGATAGAGAGGGGCCAAATGT	28294	CCCTACCAATTCAAGGCTTCTCTT	39278

5653	CCGTCTCACTGCTGCTTCTGT	17311	AGGGAAGGACTCCCAGGGAAAA	28295	GGCCAAGATGCCGTCTCACT	39279
5654	AAGCCGAACGAAATAGGAAGGAA	17312	GAAAGTGGCGGATGGAATGGAATTG	28296	CATCTTCTCAAAGCCGAACGAAA	39280
5655	GGGCAGCAGCAAAGAACTTG	17313	CTGTTGAGATGAAAAGGGAGTGAT	28297	AAGCGAAGGGCAGCAGCAA	39281
5656	GCCTAATGAGATTTAAGCAGGGACTCA	17314	CTTTGGGCAGACCTAGAGCAA	28298	CCCCTTCATCCTCATGCGCTAATG	39282
5657	GGGGATATCTGTGTGTGGTTGA	17315	GGAAGCCACAGACCCTCAAAT	28299	CCAAGCCATGGAAGTTTGGGGATA	39283
5658	GTGGGATAACACCTTTCCCAAA	17316	GCTAGAACATCATATCGAGGCATAC	28300	GGATTGTGACTCTCTTAAAGTGGGATAAC	39284
5659	GCCCATGGATGGCAGCAA	17317	GCCTGAGCTGCATTAGACATAGT	28301	AGGACAGTGGCCCATGGAT	39285
5660	GCAAGATTATGCCGCAGACA	17318	GCCTGGGGAATTATAAGGAAGGGATT	28302	CCACAGCCTGGCAAGATTCA	39286
5661	GTCGTTGCTGTCTCTGCTTTAGT	17319	ACTAACCCCTCCCTCCAGTGT	28303	GGTCCCTTGCTGTGGTGTCTGT	39287
5662	GCAGTGATTCTCACACCTACTGT	17320	CGCAAGTCTGCATTCCAACAA	28304	CACAGGGAGCAGTGATTCTCACA	39288
5663	GGAAACGTAGGAAGTTCTTAGTGTGA	17321	CTGGGAATCTAGTTAGAGAGGCTGTA	28305	TTGGTGAGAGCTGGGAGGAA	39289
5664	CCCATCACTGCCTCATGTGTTT	17322	CGACTTCACCATCTTCTCTGCTCT	28306	GGAAGCAGTGGCCATCACT	39290
5665	GCCATTTCAAATTTATGGGCAGTCA	17323	CCATTGAGAGCTTTGACTCAATGATAC	28307	CTGAGTCTTGTTGGGAGCCATT	39291
5666	AGGAGCTGGCATAAAGTTGAACA	17324	GAGCAGAGAAGACACCTCATATAGCTT	28308	CTTCTCTGAAAAGGAGCTGGCATA	39292
5667	GCGAGGGAGGATGAGAAATAGGTTGT	17325	TAGTGGCGAGGAGGCGAGTT	28309	GGTGTGATAGCGAGGGAGGATGA	39293
5668	GGTCAGCCTGTGTTCAAGGATCT	17326	GAGTCTGAAGGCCACAATATTTTCA	28310	AAGGTGGGTGACGCTGTGT	39294
5669	GTGGGTGCCAGACATGTAGATCAAG	17327	GCAAGCAGCTGGCAGTTGAA	28311	CCCTGTGGGTGCCAGACAT	39295
5670	GCAAACTTCAGGGGAAGATCACT	17328	TGCTGGTTACTCCCATTTAC	28312	CAGGCACCAAGAGCAAACTTC	39296
5671	CTGTACTTACCTGTGCCAGAAG	17329	GCACAGACCAACCTTGGTAGTAAC	28313	GGGTACAGGTGACAATTAGCTGGTA	39297
5672	CTGTAAACCTGGGAAACCTGATGTAT	17330	TCAGAGGGTGAAGAGGAAGTTTTC	28314	AGAAAGTGGCAAATGGCTGTAAC	39298
5673	AGTGCTTTCTCAGTATCTCCAAAAG	17331	GTGATGGGCTGATGTACTCTT	28315	CTCCTAGTCCAGTGCTTCTCAGT	39299
5674	CCCCATTTGTAAGCCGGGAACA	17332	TGATCCCAGGACAAACACGATT	28316	GGCCGTAATAAACCTCCCCATTTG	39300
5675	GAAGTCAGAACGCTGTCTGTTC	17333	CCACACACGGCTCTTGTCTTAG	28317	TGCAGACTCAGTATGAAGTCAGAAC	39301
5676	ACCTGTCTTTGAGCTGTGCAT	17334	TGAGGCACTCCCGCTTTGA	28318	ACCCTGGGACAAACCTGTCT	39302
5677	GTCTGCTTTGAACCGAGTCTTTG	17335	CTGAGAGGACATTGTATGGGTCTAA	28319	CCCTTACACAGTGTCTGCTTTGA	39303
5678	GGCTCAAACAATCCCAGTGCCTTAC	17336	GTGGCGGTGAATGCCTGTAATC	28320	CCTTCACCTGTAGGGCTCAAAC	39304
5679	GCTTGAATCTCCCACTGACATCAA	17337	CAAGTATCTGGACAAGCTGATAAGGAA	28321	CATGGGCTTTTGTGGCTTGAATC	39305
5680	CTCCCCGATGTGCATGACTAA	17338	GCCAGTGGAATCTGCGTCAA	28322	AGATGTGTCTCCCCGCTATG	39306
5681	CACACTGACCCTTGCTTCTTCA	17339	GCATTCCAGGATGGGAAAACCAT	28323	CACCAGGCTTCAAACACTGA	39307
5682	GTCACCATGTAAATTTCCCAATGGTT	17340	GTCTTCCAAAGTTTCATCCACATC	28324	GTGGCCCTAAAGTCACCATGT	39308
5683	GCAGCACAGGCTTATTCTTGACA	17341	CCCCACATACTCTGTGTTATTGAGATG	28325	GGGAATATGGCAGCAGAGCTTA	39309
5684	GAGTGGATGAACCCAGCAAGTTC	17342	CCAGTGTGACATGACTAGGATGTTG	28326	TTAGTAGTAGCTCAGATGGATGAAC	39310
5685	GAAAAGCTCTCACTTTCCCTGATCT	17343	TCTGACACTGAGTTGGGAAGGAA	28327	ACAGGCTGTCTCCACTAGA	39311
5686	GCTGATGCCTGATCTTGAGCCCTAA	17344	CTGGTTCTGCTAACATTGGTGCAAC	28328	GCAAGGCTGATGCCTGATCT	39312
5687	GTTGTGTGATGCTCAGACTGA	17345	GGGGCAAGGGCTGCAAAAGTAA	28329	TCACATGGGCATGTTGTGTGAT	39313
5688	TGGGGAAAGAACCACCCAAAAG	17346	GGTGCTACCTCTATGTGATTTCTGA	28330	TACCCGAGGCTGGGGAAAGAA	39314
5689	CCTTTATGGGCACCAACTGATTTC	17347	AGTGCCCTGTGACACTGGAA	28331	GGGCTGGTCTAGATGCTTCTCT	39315
5690	CTGAGGTTCTATGCCTAAAGAAACCAA	17348	GAGCTAAAGTCTGAGGAGGTTCTGTTTTA	28332	GTGACTTCTGAGGTTCTATGCCTAA	39316
5691	GCTACCAAAATGGGGCTAGGAAGA	17349	TGGAATGTGTAGCCCACTGA	28333	GGCCAGCGTAGAGCTACCAA	39317
5692	GCAACTGTGAACCTCAGGAGCAAGT	17350	GACCTGTCTCAATGCTTCTGGTAAG	28334	TGCTGTGATGCAACTGTGAACT	39318
5693	GGGGATTGCTGATTGGTTGGATTG	17351	GGGGACAGCTTTGATTCCTATG	28335	TGGGCTAGGGAATGGGGATTG	39319
5694	CAGCCAGCACTAAACGTAGAGAAAG	17352	CACAGCGTGAAGCAATGATTCTT	28336	GCAGAAAAGAGTAAACAGCCAGCACTA	39320
5695	GGAAGAGAAATAATGGGGAAGCATGTGAT	17353	GCCTGGTGGAACTGGCTATTGT	28337	TCAGTGTGGACATGGAAGAGAGAA	39321
5696	AGGGAAGCGTACTGAGTGCTAT	17354	CTGTATCCACACAGAGTTGGTTAG	28338	GGCTTCAAGAAAGGGAAGCGTACT	39322
5697	TGGAACACAGAGGCAGCTAAATCA	17355	TCTGCCCCCTCTAGCTCTGCTT	28339	CTCCAGCTCTGCTTTGGAA	39323
5698	CCTCTCCCGCTCGGCTCTA	17356	CCCCAGCTCTTCTCTCTAGAT	28340	CCTTTCCCTTGAGTCCCTCTCT	39324
5699	GCTCGTAGTGTGAACCTGGGAAC	17357	CCACTTAGTCTTTTACAGCAGCCAAAT	28341	CACCACTGGCTCGTAGTGTGAA	39325
5700	CAGGCTTGGACTAGAAAGTACACCAT	17358	GCAGTTGGCAAGCTGGAGACT	28342	CTGGACTTCAGGCTTGGACTAGA	39326
5701	GCAGGTTGCTTGGGTTGACA	17359	GAAAGAGACACACAACAGGCTATG	28343	TGGAACAAGGCAGGTTGCTT	39327
5702	CTGAGTTTTCAAAGGCTACACGTTACTTC	17360	GGGTGGAGTGAAGCCAATTCCAA	28344	GCAACCGGTGCAATATGCTCTGA	39328
5703	GCTGTCCCCATACTAGTACTCAT	17361	AGTGGGTGTGCAGTTTGCTT	28345	GGACAGAAGAGCTGTCCCCATACT	39329
5704	AGCTACGTGGACCCCACTGTT	17362	GGTGTAGAGCAGAGTCCAGTGT	28346	GGCTGTGCTTGTCTTCACTA	39330
5705	GCCTTTCTCGGCCCTTGGGAATC	17363	CTTCAAAAGTATGTCTGTGGTGTAGA	28347	CACAATGTTCCGAGTTGCCCTTTC	39331
5706	CCATGGACTAAAGGGTTATAGGGTTCTA	17364	GCTGTCTTTGTGGTCTAGATTGCTTT	28348	CCCACCACCATGGAATAAGGGTTA	39332
5707	CTGTGTAACCTACTAAGGCTTGTTTTTG	17365	TTTCTCTGGCCCTGACCAT	28349	CCCATGTATCTTCTGGTAACCTACTAAG	39333
5708	CCCTGCACACCTCTCAGT	17366	GGGAAACAAAGTCAATCTCCATTTT	28350	GAGTTCCTGTCGCGACTTG	39334
5709	TCCCTTAAGTCCCGGAGCAT	17367	GGGGAGTTAATCAGATTGCTTTGAGA	28351	GGCCCTCAGAGATCTGTATTCCCTTA	39335
5710	TTGCTACTGGGCTCTGGTGAGA	17368	GTGGTGAGACTTGAAAGGGGTTT	28352	TGGGCGAGCACTTGCTACT	39336
5711	TGATGTCCAGACAGAGTGTTCAGA	17369	GTGGTTAATGGAAAACAGGGCATAG	28353	GGGGACATGTTTGATGTCCAGACAGA	39337
5712	CCCTGTGTTTTTGAAGACACCATGT	17370	CACCTGGATATTTTCAAGCCCTTGA	28354	GCTTTTACTCCCTGTGTTTTTGAA	39338
5713	GGCCTGAGTCTAGCTTTGGTGTG	17371	CTAAGTCACTCCACAGGACACA	28355	GGGTCTAGACAGGCTCAGTTCTTA	39339
5714	GGTGGGATGGAGGATTCTCTTTGT	17372	CTGAGCTAGGTAGCTGCTCTAAA	28356	AGAAAGAGGTGGGATGGAGGAT	39340
5715	GTGTCCAGAACGAGCACTT	17373	GGACTACTTGGCTTTTGATTGCTA	28357	GAGTGTGAGTTGTGTCCAGAA	39341
5716	CGGGACCACTAGTCTTGTTTTAATCACATA	17374	GAAGTCACGATTGAATCAGAGTAG	28358	GGCGGGACCACTAGTCTTGTTT	39342
5717	GCTCTCCCTAGACATGGCGACTA	17375	CTCTTTGAGCTTGGAGTCTCTAATACA	28359	GTGCACATGCTCTCCCTAGACA	39343

5718	GGGGATGTAGGGTGGAAAGAAAC	17376	GTGTTACGCTCTGCTATTTTTT	28360	CCGTAAACCAAGTGGGGATGTAG	39344
5719	CTGTGCTGGTAAGAGAATTAGCTGGAAT	17377	GGGCCTTTTACATGTTCCAGAAG	28361	CCTCAGTCTGTGCTGGTAAGAGA	39345
5720	GTTGCCCTCTTTGACCCTGAA	17378	GTGAGTCATGCCAAGATGAGATTG	28362	CTCAACATGGAATTAAGTTGCCTCCTT	39346
5721	TCTGGGCCATTGCGTAACATC	17379	CAGTACACGGGAAGCTGATGTAAGA	28363	ACTCTTATCTAGGATTCTGGGCCATT	39347
5722	GCATAATTGGGCCTAGTGGGTTATG	17380	GAGAACAGCACCAAGCCTCTCA	28364	TTGGTCCCGGTTGTTGCAT	39348
5723	CCTGAGGAAAGAATCCCTGAGCTTT	17381	GGACTGAGACAGGGGTTTTAACTGA	28365	GACTGGCACTCTGAGGAAAGA	39349
5724	GAGGGAGATGACCTCCACTGA	17382	AGACACACGGGGCCTTTG	28366	CCTGGGGAGGAGGGAGATGA	39350
5725	GCAGTTTTGCACCAACCTAATGCTT	17383	GGAGCATTTTGACGTGGGTGATT	28367	CAGAACAGCAGTTTTGCACCAA	39351
5726	CTGGCTCTGCAGTTTGAGAAAAG	17384	TGGTTTGGGTTCTGAATGACACA	28368	GGATGCACTGGCTCTGCAGTTT	39352
5727	CCAGATGGGCTGACACAGTCAT	17385	CTGTCTTAGGAATAAGGCGAGGTTGAAG	28369	CTCTGGATTACGGCCAGATG	39353
5728	CACGTGTGGAGTTTTCTGGTGTAA	17386	GTGCCACTACAGCTGGAAGGAT	28370	GGACATGATTGGTTTCACTGTGGAGTT	39354
5729	TGGGAAGTCCTGGCATGTAAC	17387	CACCAAGGCCAATCCCTTCA	28371	ACCTATCCTTGACGTGGGAAGT	39355
5730	GCAGCGACAATGAAACCCGATT	17388	GTGGGTGAGCTACTTTTCTCAGGAT	28372	CCTGCAGCAGCGACAATGAA	39356
5731	TGCAGTGTGTGATGTACATGCTAT	17389	CCATTGTAGACCATTTGCTCTCT	28373	CCTAAAGGGGAAAAATGCAGTGTGA	39357
5732	CAGGGTCTGCAATGTACCACAA	17390	GGCCCTGCCATTCAAATCACCTT	28374	GGCCTAAGTCAGGGTTCTGCAAT	39358
5733	TCCACTTCCACTGGCTGACA	17391	CCATACCATGCAAGCTTACTCAAG	28375	AGTGCTCACCCCTTCCACTT	39359
5734	CACGTGATTTCCCACTCATATGCTTCT	17392	CACCATGGCTACTGACCATT	28376	CATAACTACACTGCATTCCCACTCA	39360
5735	TGTGGGGAATTTGCCTATACACT	17393	TGCGGCTCGGAAGGAACAT	28377	GGAACCTCAGCTTTTTCATTGTGGGAAA	39361
5736	GGGTAAACAAGGCTAAGAAGCAAAG	17394	GGGAGTGTGACTGTAGAGAATGTTAG	28378	AAACCTGCTGACAGGGTAAACA	39362
5737	GGAAACACCTCAACCCGCTT	17395	GGCAGAGCAGGAGACTAGGAACA	28379	CCCGTGTCTTCAACAGATTGGAAA	39363
5738	CATCCTCAGACTGGGACTTCTGT	17396	TGGCTGAGGGGTCAGTTTATG	28380	CCAAGCACCAGGACATCCTCAGA	39364
5739	TGGTGCTTAAGAGTAGGCTGATTC	17397	CTGTGAACACAGGAAGTCCAAGA	28381	TTGGGTTGAGATCCAGCAGATG	39365
5740	TGGTTCTGAGCAAATTTGGGTACT	17398	CAACGCCAGACCTTTCTTATTTGT	28382	GGTGCTTACATGGTTCTGAGCAA	39366
5741	GCTAGAGTGCTAAGCTTTCTGTCA	17399	GTCTTAGGATCTGTCTGCTTTAC	28383	CTGGGATAAGAGCTAGAGTGCTAAG	39367
5742	GGCATTACCACTACTGAGATTTTAGA	17400	CTGCCCTGGTAAATATCCAACCTGA	28384	GACTTAAGAAGGCATTACCAGCTACTGA	39368
5743	CCACACCAAGAATGGTTATCAGTGTGAA	17401	GTGGGACTAGAGAACATATCTGTGAGA	28385	CTGGCCACACCAAGAATGGTT	39369
5744	AACCCAGCATATGAGTCGAATGAA	17402	TGTTTTGCCTGACATCTTGAGTGA	28386	CCAGCTGCCAGAGGTTTACAT	39370
5745	AGGGGATGACCAACCCCTGAT	17403	TCTGTGCTCTTTGAAGGCATTG	28387	GGTTGGAATATGAATGTGGAGGGGATGA	39371
5746	GGCTGTCTTCAACAAGAAGTGAATG	17404	GTGTCTTGCATTCCAAGCCTTTC	28388	ATACCAAAGGCTGTTCTTCAACAAG	39372
5747	CCAGGATTAGAAAGTTCAACCCAAGT	17405	GGAGGGAAAAATGCACTGAGACA	28389	TCCCACTCACTTCCAGGATTAGA	39373
5748	CCGCCAAGTCAGTTACAGACAGA	17406	CCGATGGGATGTGGAGGTGAT	28390	ATGCATCCCGCCAAGTCAGT	39374
5749	GCTCCTCTCTTTGTGAGGCAAA	17407	CTCGTCTTAGGCTGGAGATTAGT	28391	TGCCATTTTGTCTCTCTCTTTG	39375
5750	CGTGTCTGCATTCTCCCTTCA	17408	GGTGAGTGCATGTTGTTTACTGT	28392	CACGTCACTCACTCTCGTGTCT	39376
5751	CCCACATGCAACCCAGTTCTTC	17409	TGTGCCAGCCTTCTGTATCTTG	28393	TCCTTGAAGCCACATGCAA	39377
5752	GCCTTTCTGACAACTCCACAGATA	17410	GATCCTTCCCACCTCGAGGAAAC	28394	TGAGGACCGAGATTTTGCCCTT	39378
5753	AGAGATACCGATACTCTGTCCATCAA	17411	AGGATCCCAATCCTAGCTGTCA	28395	GCATTAGTACTGCAGAGATACCGGATAC	39379
5754	TCTGTGTGCTCACTACTGCTT	17412	TGGTTGGGAGACACACGGAGAT	28396	ATGGTCTGGCTGCCTGTTCT	39380
5755	CTCTTCAGCTCAACCTCCCTTTT	17413	TGGGCAGAGTGCTTGGAAG	28397	AGGCCAGCTTAGCTCTTCA	39381
5756	CCAAAGTGAACCTAAAGCCTTACTCAA	17414	ACCAACCAAGTAAAGTCCAGTAACCTA	28398	TCTGGGACCAAGTGAACTTAAAG	39382
5757	GGCCCTTCTTTAGAGCTTTTCA	17415	AGCTCCCCAGGCAATTGAGTGA	28399	GGTTCAGAAAATGGCCCTTCCCTTAG	39383
5758	GGCTGCAGCATAACTGGCTTTTG	17416	GTGCCCTTTTCCCTGTCCAGAA	28400	TGCACAGGCTGCAGCATAAC	39384
5759	GGCTGAGGTCAATGAAGAGTAGTGT	17417	AGGCCCTCAGGACAGGGAAA	28401	CCACCCGAGTGAGGTCAATAG	39385
5760	CGGAGATAGGAGCACACTCTTG	17418	GGTGCAAATAGGGTGTGATTAGAAGGAA	28402	CGGGACCTTGATTTCGGAGATAG	39386
5761	CCCTCTCTTCTCATCAGCACTCTT	17419	CAGAAGCTTGATGACTTCCCAAGAAC	28403	GGGAGTAGACACATACCCTCTCTTC	39387
5762	CAGAGAACTCTGAAGCTGGCTAGT	17420	GAGAAACCAAAACCCAGGTCTGT	28404	CCTCTGGATTAGGTAATGAGGCAGAGAA	39388
5763	TCCAGGCTCTTCAAGGCACTCA	17421	TGCCCTAATCTTGGTCTCTCT	28405	GCTAAGCATGTGCAAAATTCAGGTCTT	39389
5764	GCCAAGTCGGTGGCGAGAA	17422	GGAGGTGTGCTGGCTGTGAT	28406	AGCCGTCATCCAGCCAAGT	39390
5765	GTGTGTGGGCTTGCCTACAGAAA	17423	CCAACCGGACACCTCTCATACA	28407	CCAGTTTCCAGGGGTGTGT	39391
5766	CCTCTGTTTGCAGAGATCACA	17424	CTCCTGGGGTCCCTTTTCTCT	28408	GACTAAGTGTGTGCTCTGTTTG	39392
5767	GACAGGAGTGTTAAAGGTTCCAAATAG	17425	GGCCTTTATTTGTTCTGGTCACT	28409	GGCATAGGTTTGACAGGAGTGTTA	39393
5768	CACGTGGCTCTCTGAGACTCTTAAATC	17426	GACTTAAGTTTAAACCCAGGCTGTTT	28410	GAGAATTATACATCACTGGCTCTCTGA	39394
5769	GTGGCTCTCAAACACGAGACCAA	17427	CCAGTGAGATGCCTGCAAATCA	28411	AGCATGCATGTGGCTCTCAAA	39395
5770	CTGCCTACTCCCACTATCTTTAC	17428	GGAGCCCTATGGGCCATCAA	28412	ACAAGCCCCATATCTGCCTACT	39396
5771	GCTTGTTCACCTCCCGTACA	17429	GGGCTGGAACCAATGGCTAGT	28413	GCCTTCCCATCTGTGAGCTTGTTC	39397
5772	CATTGCAAAGAGTTCAGTGAACA	17430	GGAAACCACTTGGAATCTGGTAGT	28414	CTGCAGTCAGACATTGCAAAGAGTT	39398
5773	GGCATGGGACTTCACTTGACA	17431	GGGAGCAGAAAGAGGAGACTCTTAG	28415	GGGTGAGGGCATGGGACTTC	39399
5774	GCTCTTCAAAAACATTGCCACATATC	17432	CCTGGTTTTAGGGAGGGAAGA	28416	GGTCCACATGGCTCTTCAAA	39400
5775	GGACTGCAGGATACCTGTTGCTT	17433	TGCTGAGGGGCTGTCTCT	28417	GGAGCTAAAGGGAAGTGCAGGATAC	39401
5776	CCACTAGAAATTGGATTGACCCAACA	17434	TGGCGGGGAAGACTAACGTTTC	28418	TGCCAACCAACCACTAGAAATTGGAT	39402
5777	TCGATGCCAATCTATCCATGAAG	17435	GCTTCTACCTTCACTAGTATCAGTAGT	28419	CTGATATCCAAATCGATGCCAATCT	39403
5778	GGACTGGCTACAAAGACTGCCTAAT	17436	TGGGATCACAAAGGACGAAAG	28420	CGGTGATTAGGACTGGCTACA	39404
5779	GAGATGGATGGATTCTACCCCTAAAGTAAG	17437	AGCCCTCACCCATTTCTGGAT	28421	GGAGGAGAGGAGAGATGGATGGATT	39405
5780	GCCTTAGACTCACTGGTCCAA	17438	CCCACTGCTAACACTGACATAGAA	28422	TTCCCAAGATGCCTCTAGACT	39406
5781	CCGGACTTGATGTCAGATTCAAGCTA	17439	GCAAGCTCAGAGGGCTTATCAAG	28423	TGGATTACGCCGACTTGATG	39407
5782	GACTTCGACAAAGTTTCTTCTAT	17440	GGAAGGAAATGATAGAGAGGCTTG	28424	CTCTCAGTGACTTCGCACAAGTT	39408

5783	GCACAGAGGAAATGGGTATAGGACTTA	17441	GAGGGTAAGTGGCTCAGAGAGT	28425	GTCACGCAGCACAGAGGAAA	39409
5784	GCCAGTGGGAACAATCTGGAGAA	17442	GCTTTCTATCAGGCTCCAGTT	28426	AGTAGAGAGCCAGTGGGAACA	39410
5785	GGCTGGAGCATGTTCTTCAATCT	17443	GGCTGGGCTCTACCTTTTGAA	28427	ACGTGTTGGCTGGAGCATGT	39411
5786	CACCCAACCTTTTGTGGAGAGCATT	17444	GCTCGGGTTAAAGTTTCACTGAATAGT	28428	GGCAACATTTTCCAACCCCAACT	39412
5787	CTGTCCACCGTACAGGATCGTT	17445	CGGTCTATCCATTAGAAGGGAGTCT	28429	ACTCGGGCGTGGAACTGT	39413
5788	GTGCTAGTGAGAGTGCTGGTTT	17446	GTGCTGAAAAGTCTGTGCCTAAG	28430	AGGGGTACCCATTCTGCATGT	39414
5789	CCTGGCCCAAGGTGAGAATGTAG	17447	GGTGTGCCCTGCTTGGATACT	28431	TCTCCAGCTGGGTGTCTCTATC	39415
5790	CTGGGGCTTTAGTCTTTTGCCATA	17448	CTGCATGCATACCTTTAGGCACATATC	28432	AATTCCTCATCTGGGGCTTTAG	39416
5791	CCCAACAACCTACAGAAAAAGAATCGAACT	17449	AGGTAGGTTGAGGCCAGATTGT	28433	GAGGTCTCCCAACACCTACAGA	39417
5792	AGCTGCTAGAGTGCCGATGT	17450	CCCATTCAGCCACACGCATTAC	28434	AGCACTCAATAAACTCAGCTGCTA	39418
5793	ACCATACCCAGCAAAGAAACA	17451	CAAGGTGGTTTAATCTTCACTGGATGT	28435	CAGTTAGGACCACAATCAAACCATA	39419
5794	CTCGGCCCACTTAATCTAGATGTTT	17452	TGGTAGGCATAGCGGCAGTT	28436	GTCTCTCGGCCCACTTAATTC	39420
5795	GGGAATTTCTACTCTCTTCAGCAA	17453	CACCTCGGGGATAGGAAGGTAA	28437	CACTGGCTTCTGGGAATTTCTAC	39421
5796	TGGGATTCACAAACTTTGGTT	17454	TGCCTTCATCTCCCTGTCTCT	28438	ACCAGATGGCATTTGGGGATTC	39422
5797	ACACCATCTCTGGAAGTAACAGT	17455	GGGCGATGTGCTCAGTTTC	28439	CCCCTGCTCCAAACACACCAT	39423
5798	GCCCTTTGCTGGCTGACACA	17456	CCATGATCTCCAAAGACCTTGCTT	28440	TTGTGGTTGCCGCCCTTTG	39424
5799	CTGCTTTTGTGGATTCAAGGTGACT	17457	TGAATGCCATTACCTCTCTGTGTT	28441	CAAGGATAACTTTCACTCTGCTTTG	39425
5800	GCCATCTGCCATATCTCAGAGAGTCAA	17458	GGACAGCAATTTCTGGGTTAAAGGAT	28442	CGGAGAGCCATCTGCCATATCT	39426
5801	AAGGGAATTCCTAGATGCCAACTT	17459	GCTTCTGTACCAGGAGTGGCTTAC	28443	CGCCTCTTAAGCCAAGGGAAT	39427
5802	CGCGAGTGATCTTAAAGCAGACAA	17460	TTCCCTCCAATCTCAAGGTTTAC	28444	CAATCCCGCCGAGTGATCTTA	39428
5803	AGAATCTCGGGTATGTTAGTGATTG	17461	GCAAGTAAAGGGCTCAGTGGCTAT	28445	TTTCTAGATAGAACTCTGGGGTATGT	39429
5804	CGAGGCTAACCAAGTGCAGATAATA	17462	AGATCTAGGCCCTCTGGTTTCA	28446	AAGACACAACGAGGCTAACCAA	39430
5805	CCAGCTTGCTCATCAAGAGGACTGA	17463	TCCCTGAGCTTCCCTCCAA	28447	GTGAAGCATTTTCCAGCTTGCTCA	39431
5806	CCTGATGATGGCAGAGTCTGAAG	17464	CCCCAGATTGTACACAGAAATCA	28448	TTGACAGCGGCTTCTGATG	39432
5807	CCATCTCTACTTTAGGGTGACTTAAACA	17465	CCTGTAGGAGAAAAGCAGTCAGT	28449	GGATCAGGTTTGCATCTCTACT	39433
5808	GAACTGCTCTCGGCTTCCCT	17466	CAGCTGAATGCATGAGGGTGACA	28450	GCTGCTTTTCAAGTCTCTCT	39434
5809	GAAGCAGTCTGCTCTCAAGATGATA	17467	CTCTTTGTGAGCCAAGCTGCTAAA	28451	AGGGCACTCCAGAAGCAGTT	39435
5810	CGGCGAAGCACTAAAATGCACTA	17468	CAGCAGGAGAAATCTTGCTAACA	28452	GAGCATCGGCGAAGCACTAA	39436
5811	CCTTAGCTTAGATATTACGCTCCAGCAT	17469	GGTTATTGGCAATTGCTGTGGAT	28453	TCCAGCTGCTCTTAGCTT	39437
5812	CACAGAGTCTGAAAAGCAGGAA	17470	CGGACTAATACACTCAGACAGACTTC	28454	TTGGCCAATGGAATCAGAGAGT	39438
5813	GAGTCCAAGCAGATCATGTGTGT	17471	CCTGTTCCCTCTTGCACTGCTT	28455	GGACAGCAAAGAGTCCAAGCAGAT	39439
5814	GCGAGAACGCAATCTCAAAATCA	17472	CCCTGTAAGCACTCATCACAGTT	28456	TTCCAGCGAGAACGACCAT	39440
5815	GCCTATGTCACTTCTCTCCCTTGAAC	17473	CCCCAATACACAGACTCTCATGTCA	28457	CAGACTTCAATTGCCTATGCTACTCTCT	39441
5816	GGCCAGAAATGGTCTTGACGCTT	17474	AGCTAAGCAGAGCTGGGGATTC	28458	TGGGACTGTGAGGCCAGAAATG	39442
5817	GCATTAGAGTTGTACCGCTTTC	17475	CTGCTACAAATTACTGGGCTAGTTGATCT	28459	TCTAAGTCTGTCTTGCTTAGAGTTG	39443
5818	GGCAATAGGGCACTCACAAAC	17476	GCCTCTGTGAAGGATGTTGGAA	28460	ACCGGGACACCATAGGCAATA	39444
5819	TGTCACTTGCCCAAGGTT	17477	TGAGCTGAGTTTACCTTGGTACAT	28461	CGTCACATTACACCTCTGTCACT	39445
5820	CAGTGTGCTGGTTCTGGTTGAGT	17478	CAAGTGAAGACTTGGTTGTGACA	28462	GTGGTGCTACAGTGTGCTGGTT	39446
5821	GCAACACAGCTTGTCTCAGGAT	17479	TCCTAAGTGCAGTGGTGTGATAAG	28463	CCACTCTCTATTAAAAGCAACACAGCTT	39447
5822	GTGTGAAGTCAAGTGTCTAGGAAGTATTG	17480	GCTGCCTTGCAAGGTTTCTT	28464	CCTTACTTGTGTGAAGTCAAGTGTTC	39448
5823	ACAGGGACCTCTCAAACTCAGA	17481	CAGTACATTTAAACCCAGGCAAGAA	28465	GACCAGAACAGGGACCTCTCTA	39449
5824	GCCAGATCCTGCTTATAGTTTAGATGTTAC	17482	TGAGTCATTAGGCAAGGCTCTA	28466	ACACCCGCAAAAGCCAGAT	39450
5825	CCCCAGGCTTCATGGTTTCATCA	17483	GCACTGGGGCAAGGCAGAA	28467	ACAGAGGCCCCAGGCTTCAT	39451
5826	GGTTCACCATGAGCCTTT	17484	GGCTTGACACACTTTAATGACACT	28468	CCCACTCGTTACAAATTGTTGGTT	39452
5827	GCCTTAGTCCAAGTGTCCAATG	17485	TGCAAGAGAGGAGGAGAGATGAA	28469	GGGGTCGATTTGGTAGCCTTAG	39453
5828	GCAGGTAGCGAATCTAAGACAATAAG	17486	CAAAAGGCAAGTGCACCTTGAA	28470	GACAAAGTTAGCAGGTAGCGAATC	39454
5829	GTCCCTTTGGGCTAATTTTCTT	17487	GGTAGGTATGAAGTCAGGGGAAAG	28471	AATGTTGGAACCAATGTCCCTTTG	39455
5830	CCCACAGCAACTAACTCTTCAT	17488	GGGTAGCTCCAGAGGGCAAT	28472	CTGAGATTCCACAGCAACACT	39456
5831	CCACCCAACTGCAATCAAG	17489	CCATGACCTGGGACCGTTT	28473	TCCCTTACCTCCACCAACACT	39457
5832	CTTGCTCTTTGCTGTCGAA	17490	GACAACATTTCCCAAGTCCCAAC	28474	GCCAGCAGACTTGCTTCTTTG	39458
5833	TGTGTACAGACATAAGCGTGT	17491	GATTTCACTGTGTGCTCTGAAA	28475	CCTGTCACTGCTTGGCATG	39459
5834	GGGCGGGACTAATAGAGCTTAC	17492	GGGATACTCAGTCTGCATTGCTT	28476	TGGTGGATGGGCGGGACTAAT	39460
5835	CGCGTTTTCCACCACGGTAA	17493	GGCCTGGGCTGACTTTCATAAG	28477	ACAGCTACACCGGCTTTTC	39461
5836	GCATTCCTTAACATTCACAGTTG	17494	TGTGCGAGGGCTGGTACATA	28478	GGTGGAAAGGCTTGCACATTC	39462
5837	GAAGTGTCCATTACAGAGCTAGAAAAG	17495	CAGGAGAGGTTGGGATGCTTAG	28479	GGAAGCAGAACTAGAACTGTCCAT	39463
5838	GTGCTTCTTATCCCTCTGACCTCAT	17496	GCTCAGAGCTTACTGGGGAAAGA	28480	GGTTCTGAATGGGCTGTGCTTACTTAT	39464
5839	ACCTAGAGAGAAAGTGGAGGAACT	17497	GAGAACAAACGGGTCTGAATGACA	28481	GTGCAGCTGAAGTAAAGTAACCTAGA	39465
5840	GAGAGCAACTCAGCTCGCAT	17498	GAGAACTGAACGGCCACACT	28482	CTCTGTTCCGTGAGAGCAACT	39466
5841	AGCGGTTGCCATGGACTAATAC	17499	CGGGCACTTGCTTCTGAGATTA	28483	GACATTTGGTGCAGCTGTGTT	39467
5842	CATCTGAATTTGCAACCACTACCTTTT	17500	GGCTTGCAGGAAATGGCATCTA	28484	CACCTCATCTCTCTTCCATCTGA	39468
5843	CAGTTGCCCTTTCACTGCTT	17501	AGGCTCAGCTAGAGAAAACCACTAG	28485	ACTGTAACCTAGTTGCCCTTTCA	39469
5844	CCTGACAATGCAGCACTCT	17502	GGCTGCAGTAATGAAGGGTAAGCTA	28486	TCCACCTCCAGCCTGACAAT	39470
5845	AGGGGACACAGTCCACAAAAC	17503	GGGGAACCCCTTGACTTGTAGTTG	28487	TGGAAGTGGGAGGGGACACA	39471
5846	CCTCATTTCTGCCAAGCTCGTT	17504	GCTCAGAGAAGCTGCACGTA	28488	TGCCGTGAACCTCCATTTCT	39472
5847	GCTAAGTCCCTAAGAGAAAAGCTTTGTGA	17505	CTTCTCACTCACCATGCCAGAT	28489	GGGAGAGACAGTAAGTCCCTAAG	39473

5848	GTGTTCACTCCAGGGCCTCTTATC	17506	TTCGCACTTCTCTCGGAAAAT	28490	ACACAGGGCTGCAGTGTTC	39474
5849	GCTGGCCCTGGATTTACTTCACA	17507	CAGATCTCATTTCTGGCACAGTTT	28491	CTCATAAAGCTGGCCCTGGATT	39475
5850	GCTCAGTTGTATGGTTTGAACAAGA	17508	GGCCATTAAAGATGGCATGCTGATAC	28492	CCCCAGGAGCTCAGTTGTATGGTT	39476
5851	TTTCTCACATTGCCTGAGACAGATA	17509	TCTCAGGATCACAAATCCACCATA	28493	GACAAACCCAGTAAAGTTGTTTCTCACATTG	39477
5852	GGCCTATAACTGCCACTCAGTCA	17510	CTGATGGTGAAAAGCCAGGTATAGTT	28494	GTCCAGTGGGTGAATGGCCTATAA	39478
5853	CTGCCCTTTGAAGCAACATGCTTTT	17511	CAGGATACCAGGCTGCACCTTCA	28495	GCCTTGGATGAAGCTGCCTTT	39479
5854	GTGGCTGCCATCAGAAGCTAAG	17512	GCCAAGATCTCGGGACCTTTT	28496	AGGAACCAAGTGGCTGCCATCA	39480
5855	CTCTGCCGATCAACACATGATTTT	17513	AGGCTTCCACACCCTGAGTTA	28497	GCTGGTAAGTCTCTGCCGATCAAC	39481
5856	GGACATGTTACACCTGGGCCAAAT	17514	AGACATGAGAGTGGCGCTTTG	28498	TGGCTGAGGAGGGGACATGTTA	39482
5857	GGGTACACCATGAACAGGACCTT	17515	CCCTCAAATCCTGCCACACAA	28499	GCAGGTGGGGTACACCATGAA	39483
5858	GGCTGATTCCAGAGTCAGAACTTCA	17516	GAGTCCATCCTTTGGGGTGTGTTG	28500	AACGCAGGTCTGGCTGATTTC	39484
5859	GGTGACAGCAATGTCAGGTGCTA	17517	AAGTGCAACCTTGGAGAGTAACA	28501	GCTGGTTGGGTGACAGCAA	39485
5860	CCACCGTAGACCATATTGACTTCATTT	17518	GCAACTTGTCCAAGCATAGTTTCA	28502	GAGTTTTATACACCGTAGACCAT	39486
5861	GGATGGGGTCATTTAGGGACTTAAAC	17519	GTCCAAGATCAAGGCACCATTTTGT	28503	GTGGATCATGTTATAGGATGGGGTCAT	39487
5862	ACATGTAGTTTCCAGAGGCAAAGAA	17520	GTTTCTGGCTTCAGTGCTTGT	28504	TTGGCCAACTGTAACTGTAGTTTC	39488
5863	GACTAAGGGGAGGCCATGAAAG	17521	GCAGGGGATGAGGCTCTGT	28505	AGGCCAGGGTGTCTGTGTTGA	39489
5864	TCCCTGGTTTCATGAGTGACAAG	17522	CCGATTTGGCATCAGTTGAACCTTA	28506	GTAGACAGAGCATCCCTGGTTTC	39490
5865	TCTTACTGATTCCTTCCGTCAGTA	17523	TCCGCAACTGGAGAGAGATTGA	28507	GGGGCTTCCACAGCTCTTT	39491
5866	GCGATGCCCTCTGCTCAGTA	17524	CTGGGCTGAGTGGGTGGAATAA	28508	TGGCTCGCGATGCCTTCT	39492
5867	AGGGGAAAGCCACAGAAAATGT	17525	AGCATTTCTCTGCTATGTTAGT	28509	CTTGCAGCTACATCAAGGGGAAA	39493
5868	CAGCTGTGTGACGCTTCTAGCCATA	17526	GGGGCTCAGGAACTTTAAGTGACA	28510	GGTTTCTAGCCCCAGCTTGTGT	39494
5869	AGAAACTCCAGCTGTCTTGACTTC	17527	AGTGTGACAGCGCATTCTATGA	28511	CTTGCTCTTGTCTCAAGAAAC	39495
5870	GTCTCTGGGAACCAAGTCCATATC	17528	TCTGAGTCATGTACCCTTATCTAGCTT	28512	AGTGAGAGTCTCTGGGAACCAA	39496
5871	AGTCAGTCCCGGATCTCTGAA	17529	CACAAGGAGCCACATTTGATGTACT	28513	CTGTACCCAGCTCAAAGTCAGT	39497
5872	CGCTTAGTCAATCCTCACCCATTC	17530	GGAAGTATCTTCCACCGTGCTT	28514	CCCTTCCACTTCTCGCTTAGT	39498
5873	GCCCTCTTATAGCAAGCCGTAATTC	17531	GCAACTGCCTCAACCAGCAT	28515	CCAAGATACACCTTGGCCCTCTT	39499
5874	GGTCAATCTGGAACAGGGTGAT	17532	TGGGGCTGGAATTCCTTGT	28516	GCACCTGGAAGTCTGGTCAATC	39500
5875	GCTCGTGTTCTGTGCTGACTTAT	17533	GGGAGGCAAACTCAAATCTACTAAGA	28517	GAGAAATATCTTAAAGGCTCGTGTCTGTCA	39501
5876	CCCAAGCAAGGAGGATGATTACTGT	17534	GGCTCTTGGAGTCCATTCTCTCT	28518	CTTCTCCCAAGCAAGGAGGAT	39502
5877	CACCCAAAGTGCAAAGGATTTC	17535	TCCAGGAAAGTTCATGGTTTACA	28519	CACCAATGTTCAACCCCAAAGT	39503
5878	GAGTACACAGTCATGGGCTAGAGT	17536	GCAGGCACAGCCTTTTACATTG	28520	TGTATAGACCTGGAGTACACAGTCA	39504
5879	GAGAAGGCTTTTCAAGCAGAAGATT	17537	CTCATGTCTCATCTTCCACCACT	28521	GCAGCTAGGCAAGAGGATGAGAAG	39505
5880	CCCTTAGAGTTGCTGGACTCATTTG	17538	GGAAGCATGGTCTTCTAGTGGAT	28522	GCATAAACCCAGGTCCTTTAGGTT	39506
5881	GTTCTTTCTGTCTTCCAGACCAA	17539	GGATAAGGAGGCCAAGTCTAGA	28523	CCACAGCAGCCACTGTTCTTTC	39507
5882	CCGCAATTATCATAGCAGTTCATCT	17540	ACGTGATTTCATCTGCTTACA	28524	TCGTCTCTATGGGCCGCAAT	39508
5883	GAGATGCATGGATTGGACTAGAGGAA	17541	GTGGGAATAGCAGGGAAGCAGAT	28525	CTGCAAGCATGCACTCATAGAGA	39509
5884	GGACACACTCCCTACACATTTGA	17542	TGGTGTGGCTTGCCATTCT	28526	GGGGATACTTGGTAGGACACACT	39510
5885	GCACAATAGAACAAGCTAAGCCTACA	17543	TCTTAGGCTTCCACACCTCAATG	28527	GGATAGCAAATACACTGCAGCACAA	39511
5886	CCTTACTGTCCCGAGAAGCAATC	17544	CTGGAGTCACCCCAAGACT	28528	CCCTTTTGAGGTGTCCTTACTGT	39512
5887	CAGAGCCATGGAACACAGACA	17545	GTCCCAAGCTCCCTGTTGTTTA	28529	CACATGGAACAGAGCCATGGAA	39513
5888	GCACGTTTATGCATGACATCTCTGT	17546	CTGCTCCCTCTCTGAGTTTATC	28530	GGGAAAGGTACAGCAGCTTTATG	39514
5889	CCTCTGTGGGAACCACTCCACTCTAC	17547	CATATTGTGACGGGCTCATTTGT	28531	CTGACCACCAACACTCTGTTGGAA	39515
5890	CCCTCACATGAATAGCCTACACTCT	17548	GGGACTCAGTAGTTTTGGAGCCCTTA	28532	GTGGAACGTGTCTAATCCCTCACA	39516
5891	GGAACGCTGTGAGTCGAGAATTT	17549	GCAGTCAATACTCTGGGGTGAA	28533	GCTGAGATAGGAACGCTGTCACT	39517
5892	CAGAGACTTGATGAGACTCAGGTTTG	17550	AATAGAGTGGCACCCATACTCTTG	28534	TGACAGCAGTATCCAGAGACTTGA	39518
5893	GGCGGATTAGTGGCTGTCTACATTATTC	17551	TCAGATGGGCAACCCCTAC	28535	ACAGGATGACAAAGGCGGATT	39519
5894	GCAAGTCAACAGAGCCGTTTATC	17552	CCGATGTACCTAATTTACAGAGCAAA	28536	GACATGAAGGTAAGAGCAAGTCAAC	39520
5895	GCATCAGCTTCTGAGTTGCCCTT	17553	CCACTCCCACCATCACCTTGT	28537	GACATTACCTAATCAGAGCATCAGCTTCT	39521
5896	GACTTGTCTGCTCCGTTCTTC	17554	GCCAGGTGCCTACCTAAAGCTA	28538	GGGAAGGTGGCAAGACTTGT	39522
5897	CCAGTTGTGGATGTGGCATTG	17555	GAGCACTTCCCTCTTCCCATCA	28539	CCACTGGGTCCAGTTGTGGAT	39523
5898	GCAGACGTCTCGGCTGTGT	17556	CCTGCAAAGGCAGTCCACAT	28540	AAGTTGTCTGCCACTTCCCTAAG	39524
5899	GTGGGTCTAACTGGCTTGATCTT	17557	CAGGGAACCTAATGTAGCAATACAGA	28541	GGAAGTTTTTGAGTAGTGGGTCTAAC	39525
5900	AGACCCTAGCAATGACACAAAT	17558	CTGAGTGTCTCAGTGGATGCTT	28542	GGCTGCATTACAGACCCTGA	39526
5901	ACTCCAGAGTGATTTTGGTTCACTT	17559	AGCACAGCCTGGCACACA	28543	GGGACTTGTCTACTCCAGAGTGT	39527
5902	GGCTCTCAGGAGACTTTATGGTCAGA	17560	CAGCCCTGGTGAAAAGGAACATTAG	28544	GTGAACATGGCTCTCAGGAGACTTT	39528
5903	TGGGGCTTAGGGCAAGTTTAAAT	17561	GAGGGCTCTCTGCTGCTGTA	28545	TGTCTCCCCAGTTTGGGGCTTA	39529
5904	CCACACCTGGTTCCTAGCTCTATTTG	17562	GTGTCAGGTGTGCTTTACACTTCA	28546	TGCCACCACACCTGGTTCCTA	39530
5905	ATGCTGGGAATATGACTGTGACT	17563	GTGTGCTGAACATTGTACTGTCTATGTTA	28547	ACGAACCCATGCTGGGAATATG	39531
5906	GAGGAAAGGTTTATCCCTCTTCA	17564	GACCTTAAATGCCCTGGACTTCT	28548	GCAGGGAGAAGAGGAAGGTTCA	39532
5907	CCAGAAGCTAAAGTAGGCAGAA	17565	CTGGTTGTATTGTCAGTCAAACTCAA	28549	CAGCAATGTTCCAGAACCGCTAA	39533
5908	CCCCTCTAGTGAAGAGCTAAGTTG	17566	TGCTGGTGCTGCAAGCACTT	28550	TCCCTACCCCTCTACTGGAA	39534
5909	TCCGCAAAACCCCTGTGT	17567	AATGACACCACCCCACTAAAT	28551	GGGATGTGAGGGAACAAAAGCAATC	39535
5910	TGCTAAGAGGGGAGTCTGTCT	17568	TCACAGCTGCTTATATGCTTGA	28552	CCAGTGGGTGGAGATGCTAAGA	39536
5911	ACAACACACTAGGTCTCCACAGA	17569	GGTATGGAAGTATGGAGCTTGAGTT	28553	CCAGATGCCACTTGATAACAACACA	39537
5912	CCCTCTGGACCTCAGTCTCATCTTT	17570	GAACATACAAGCGCAGGCAAT	28554	AGCCCCCTGTGACCTCAGT	39538

5913	AGGGGAAAGACCTGCTTGT	17571	TCACCTGCTTCCCTCTTGAAAA	28555	ACAACCCCTGTGGGCTCCAA	39539
5914	TGGATACCTCTGAGAAGCTGATGAT	17572	CCAGTTTCATGTGTTTGCTGCTTT	28556	TTCTGTAAGGGGCACATGGGATAC	39540
5915	CAGGACTGGAAGTGAGGGTATTC	17573	CCAGTCTTAACCTCTGGCTCTCT	28557	GGGGCCATCAGGACTGGAA	39541
5916	GGGGCGTGTCAAGGTATTGATTG	17574	GTTACAGAAAAGTGGCTTGCTTTAG	28558	ACCTCTGTGGGGCGTGTCAA	39542
5917	CCAGTAGGTACAGCAGAAGAAAA	17575	CAGGATGACACTGGAGTTAGCTT	28559	CCTTTACATTTCTCCAGTAGGTCACA	39543
5918	GTGGGTATGTACCTTAGGCAAGA	17576	GGGTCCCCAGTCAGACCATCT	28560	CCTCAAAGTCTAGCAATCAGTGGGTAT	39544
5919	ACATGCCCGATGCCAGGTA	17577	AGAGGAAACATTCAACTGGAAGTGA	28561	AGCTACGAGCTGAGGATCACA	39545
5920	GCTACAATTAGGCACTGGATCTGGTT	17578	GCCTGAAGGTTCTTTCGTCACCTC	28562	GTGTGTTTGTCTGTGAGGCTACAA	39546
5921	CCTTACCATCAGTTCAAGTAGACATAGAT	17579	GGCACCCTGTATCATGTTACTGCTCTT	28563	CCCTGTCTTTTAAAAACCTTACCATCAGTTT	39547
5922	GGCGGGAGGAAATGTGGAATG	17580	CCTCCAGAAAACGAGAAGCAATGAT	28564	TGTGAGGAAGGCGGGAGGAAA	39548
5923	GAGCCCTAGTTTAAAAATGTCCTGTAAG	17581	GTGGAGCTCACTGCTTTAATTGTGA	28565	CCCATACAACCTCCGAGCCCTAGTTT	39549
5924	CTGAGCCAGAAAGACTTATTTCCAGTTT	17582	GGAGGCTGTCCCTGTGGTTTC	28566	GCCTCCAAAGGCAAGACTGA	39550
5925	GGGTCTTCATATTAGGCTGTGAGATAGTGT	17583	CGCTTGGTTCATACAAAACCACT	28567	GAAGTCTTGCAAAAAGGCTTTCAT	39551
5926	GGCTTAAACCTCCGTTTCTGTTC	17584	CACGTCCCACTAGGGGTTAAGTTC	28568	CACCTTTGCAACCGAGGCTTA	39552
5927	CTGAAAGCCTGGATCTTTCATGGGATAG	17585	GTGTGTTTCAAGACAGCAAGGAAAG	28569	GCTGCCTGAAAGCCTGGATCTT	39553
5928	CCGTGCAGGTTGATATGGTTCTCT	17586	CCCAGTTAACTCCTAGAGCCAAAC	28570	GCACACCGTGCAAGTTGATA	39554
5929	CCAGCCAGAAGTGTTAGTGAGAAG	17587	GGCAACATCCCTCACAGCTTCTT	28571	CAGCAACAGCCAGAAGTGT	39555
5930	CGGCATTGTGTTGAGCACAAAG	17588	CGGTGGGATCTGTTTGGCTTGA	28572	GCCTGAGAGTGGCAATTTGGTT	39556
5931	GCAGAACCTATGGCAGCTAAAC	17589	GCAGTTGGAATCGAGCAGTAAAG	28573	TTTGCCATCTTTGAGAACCTATG	39557
5932	GGATCAGAGAGAACCAGACTCACTT	17590	TCTCAGGAGCGGTTTGTATG	28574	GGCAAAAGGTGAAAGGATCAGAGA	39558
5933	CTGAGTTATGTACAGGGCAGAGATG	17591	TGAGTGTGTTTGAAGTGCAAGGAT	28575	GCTGGGACCGAAACTGAGTTATGT	39559
5934	AGGAGGGCACCTGTAGATTAACAA	17592	TGCCCCACATTCAGCTGTT	28576	TGTGAAAGGAGGGCACCTGTA	39560
5935	GGCAAAAACATTATCATTGAGCCTGGATTC	17593	ACACCACTGAGGAGGCCATA	28577	GGCTGGGAGTGGCAAAAACA	39561
5936	ACTGTAGACTCCATCCACCATTACA	17594	GGTCTGAGATGTTTACTTGGTTTCCAAA	28578	CCAGAGGGTCTGAGTTCTACTGT	39562
5937	TTGTTGGGTTGATGGCTGTCT	17595	AACTGCCGGGACTGTACCAT	28579	GAGCCTTCAAGTTGTTGGGTTGA	39563
5938	GGTGTGGCTTGGTTTCTTTTGAAG	17596	GGAGACCAATGCCTTCTCCTCTT	28580	GAAAGTTTGTGTTGGCTTGGTT	39564
5939	CCATGGGCTAAGAACCAGGTGAAAG	17597	GAGTGAGCACAGACAAAGCAAGT	28581	CGAGCCAACCATGGGCTAAGAA	39565
5940	AAAACCTGCTGCTGTAACCTGAATC	17598	TCTGGGCTGTCCGGGTGTCT	28582	GGCAGTGAAAACTGCTGCTGTA	39566
5941	CCCCAGCAATCTAACTACCCAGAA	17599	GGGTGCATTGCATTGTCTCTTC	28583	GGGGTCCCCAGCAATCTAACT	39567
5942	GAGCCGTGTAAGAAGGAAGGATCT	17600	TGTGTTCTCTCTACCTAGCACAAATG	28584	CCTCTCTGTGTGAGCCGTGTAAG	39568
5943	GTGGGGCTTAACAGCCAGTAGA	17601	CCCCAGCTGCCAGCCTTTATTT	28585	GACAGACCTTGTGGGGCTTAAC	39569
5944	GGAACCCAGAGATCCCACTTAGCTT	17602	CTGTTTCTGCGGAGGTTCAACT	28586	AGGAATGGACTGGAACCCAGAGA	39570
5945	CAGTAAGATGTGTGCTTTGGATCT	17603	AGCCCCACAAACCCCTAAGA	28587	GGCATGGTTTCATCTGGTCAGT	39571
5946	TGTGTCTGTTGTCCTAGGTTGA	17604	GCCTGAGTGACCTGTGCAT	28588	GGCCAAGGACTGGTATGTGTCT	39572
5947	CCTCCTGCCACTAGGCTTTGAAC	17605	GGGAAGGGTTACAAATATGTCTACAGAAG	28589	CCATGCTTCTCTCGCCACTA	39573
5948	GGGTGACAAGATGAAAAAGCTCAAC	17606	GGGCTAGTAAGACAGATTCAGGAGAAG	28590	GGGTCTCGGCTGACAAGATGTA	39574
5949	GCAAGGGAGTCTGACCTACATGA	17607	CCCTAACTGTTTCCCACTCTACT	28591	GGAGAGTACAGCAAGGGAGTCTGA	39575
5950	GGTTCCTTCTTACCTTGGAGTGAA	17608	AAGTCCCATTGCATGATAGTTGAGA	28592	TACCCCTGCTCCCTCTGGTT	39576
5951	CAGCCTGCTTAAGATGGTGAGA	17609	GCTCCACTGCACCTGGTTAGTT	28593	GTAGTTTGAGACCAGCCTGCTT	39577
5952	CTCCAACATCAACTCCTACAATTCTCTT	17610	GTGAAACTGGCATGTCCAGAGA	28594	TGACTCTGGCCTATTCTCCAACA	39578
5953	CCCACAGCTACACAAGGAGATTC	17611	TGAGCAGTTTCAAAGTCGTGTCA	28595	CCAAGATTTCCCAACAGCTACACA	39579
5954	CAGCAGCTCTTTCCCTCTTTC	17612	GGAAGCATCCCAAGCTTCTTGA	28596	GGTGGTTTTTCTCTCAGCAGCTCTT	39580
5955	GCAGAAAATCAAACCTGGCTACCAA	17613	CCCTCCTTCATCAGCCAGAATC	28597	CACCAACGACAGAGCAGAAAAATC	39581
5956	CAGCTAAAAAGAGGCTGGGAAAGAA	17614	GGAGGGAAAAGATTCAAGTGTGTT	28598	CAGCATCTCTCAAGGTTTCAGCTA	39582
5957	GGAACAGGGGAATGAGGGTAGAAG	17615	CTGAAACCATCGTGCACAAAATTC	28599	GCTCCTATGGGAAACAGGGAATG	39583
5958	GCTAAATGGCAAGTGAATCCCTAGA	17616	CTGCTTGTCTGCATCTCT	28600	CCAACCAAGACTAAATGGCAAGT	39584
5959	GGGGAAGAGTGCACTTATCTGTGTTT	17617	CTTCCAGAAAGTAGGCACAGTTTG	28601	CCCAACACACTGGGGAAGAGT	39585
5960	GGGTGAAGCTGGGAATATCATAAGT	17618	CTGTTGATCCCCTTTGCACATCT	28602	GGGATTAAGATGGGTGAAGCTGGGAAT	39586
5961	CCCCTCTGTGGGTAACCTGTCTAT	17619	CACGTGAAACCATGCCATGCATAA	28603	ACCACTGAGTCCCGTCTTGT	39587
5962	CAACATGGAGAGACACTGTTCTCTA	17620	CCCTGTAGTTGAAGCTGCCATAACTT	28604	CCAGATTTACCAACATGGAGAGACA	39588
5963	CCAGTTGTGTGGTCTCAGGGACATAA	17621	CCTCTCCTCATTTTGTAGAGAAGGTA	28605	ATCCCTGCCACCAAGTTGTGT	39589
5964	GGGGAACCTTGAACCTACCAGCGAAAG	17622	CTGCAACTGCTTTTCTCCACAACCTAC	28606	GTTCTCAAGGGGAACCTTGAACCTAC	39590
5965	CATCAGCCATATGTATGACGACTGT	17623	CTCTTTTGACACAAGCCTTCTCTTTG	28607	GGAAGGTCAACAAGATCAGCCATA	39591
5966	CTGTCCACTTCATCTCTTTCTGTT	17624	CCAGATCGGTAATACCTGGAAATGGTA	28608	GTCTCTCAAATCTGTCCACTTCATCT	39592
5967	GGATGGGACAGATATGCCTGAGA	17625	CAAGCACTTGTGGCTGTCTGA	28609	GCAGACCAGGATGGGACCATATA	39593
5968	ACTGCCCTTGTGACTGAAAAACA	17626	GGACGGGAACAACACACTGGGATT	28610	GATTATGCTGAAAACTGCCCTTGT	39594
5969	GGAGCTGTCTCTCTCTGGATGTAG	17627	CGTGACACGACTTTTGGAA	28611	ACCAGTGTGTCCCTGGACTGT	39595
5970	TCTCTTCTTCCACAAAGTGACA	17628	AGTGAGCAGGACCTTGCAAAAT	28612	CAACAATGGGCTAACCTTTCTCTTC	39596
5971	CTGCTCCTCTTCTTGGGTCTGA	17629	GAGCTGTGGGAATTCATCTCTCA	28613	TGGCTCTCTGCTCCTTCTCTT	39597
5972	AGGGGAGGAGTGAGCAAGAAAGT	17630	GCCCCCTGCATGGTGGTTA	28614	TGGGGTTTAGGGGAGGAGTGA	39598
5973	GTCCAAACAGAGCCCTGGAAAAA	17631	GATGCAGGAGATGTTAACTCCAATC	28615	GCATATACGCTAAACCTTAGTCCAAAC	39599
5974	CCCTCAATCCCCTTCTGCTT	17632	GGGTTCTGTAATCAGGGCCATACA	28616	CACACAGGCTTCCCTCAATC	39600
5975	CCCCTGAACCAAAATCTGAGATACT	17633	GGGTTTGGGGTTCAACCATTT	28617	GCTGCTTCTTCCCTGAACCAA	39601
5976	CCCAATGAAGAAGATGCCAGTCA	17634	GCAGCTGCCAAGCAGATGTT	28618	CAGTGTCTTCAATACCACCAATGAAG	39602
5977	CGTGCTTTGTGAGAATGGTGAA	17635	CACATTAACTTCCACTGGTGCCATTA	28619	GTGGCTTTGTCTGACGTGCTT	39603

5978	AGGGTATCACACAGTGGAGACAT	17636	CAATTTTGGGTGGAGTTAGAGAGAACA	28620	GAGCATTAGTGTTAGAGGGTATCACACA	39604
5979	GTGCGGGGAAAGTGAAAAGAGTTG	17637	TCCTGTGACCCATTATCTCCCAT	28621	GTGTAGGAGTCGGGGGAAAGTGA	39605
5980	GGCTCCAATAAAACCCCAACAGT	17638	CAAGGTCTGTCTCAGAAGAAACT	28622	CCCAGGTAGGTTAGGCTCCAAT	39606
5981	ATGGTGAAAGCTGACCCTTGAA	17639	CTGTCTGCATTGGCTCCTTGT	28623	GCCAAATCCTCTGGAATATGGTGAA	39607
5982	GCTGTTTGTCTTGCCCACTTCTA	17640	GGTGAGTTGGAAGCACATGTGGAA	28624	CGTGCAAGAACTAGCTGTTTGTCT	39608
5983	TGTATCGTAGTTCCCATTTGTTAT	17641	GGCCTGGGCATTAGGTAGCATT	28625	GGGAGACAGCATGTATCGTAGTTC	39609
5984	GGCCATTGAGCCAGTCATACA	17642	CCATCAAGAGGTACAGGGGTCTTC	28626	TCCACCTGCCTTTTCAACT	39610
5985	CCTCTCTAGATACAAGCCCCAATCA	17643	GGCCCTTTGGGTTCAGAGCTT	28627	CTGGCACTGTTTACCTCTTCTAGATAC	39611
5986	AAGTGGGTGTCTGGTCTCTCT	17644	CAGCCTCTTCCCCTTTACCTTGT	28628	CCCAGGCAAAAGTGGGTGTCT	39612
5987	GCAAGGGGTGAAGATACTCACTGT	17645	AGTACCTGCCAATGTCTATCAGTCT	28629	GGCCAGCAAGGGGTGAAGAT	39613
5988	GGGGTGAGAAGGGAGATGTAGTAG	17646	AATCACCTGTGGCACTTGTTTAAG	28630	TGAATCCAAATCTTGGGGTGAGAAG	39614
5989	TCTCAATCTTCCAGCTTCTCATTGT	17647	GCTAATAGCTGGCATCTAGGGGAAA	28631	CTCCATGTGTTTGCTCTCAATCTTC	39615
5990	CAAACCCCAAGCCAGTTTCAGT	17648	GCAGATGCATCTCAGAGCATTAC	28632	TCTACCCGTCCAACCCCAAA	39616
5991	CTGCATTCTGTCTCAAGGAAGAAATAG	17649	AACTCTGATGGAGTGATTTGCCTTA	28633	CCTCATTTATCAACTGCATTCTGTCTCAAG	39617
5992	AGTGGGTACTTGGATACTCCATCA	17650	GCTGCTGATCACACAGAATGAAAAAC	28634	CCTACTTCTCTCCCTTAGTGGGTACT	39618
5993	GCCACTGTTTCTGGTCCAATGAAG	17651	GCTCTTTGACTCTGCCATTTTC	28635	CAGGTGTGAGCCACTGTTTCT	39619
5994	GTCAGTAGTCTCTGAAGGGATTATTTGT	17652	ACTGTGGTTTTTACTGGAGGAAAGT	28636	CCCCACATGTGAGTCAGTAGTTC	39620
5995	TGAGTGAAAGATGGCACTGATCTAC	17653	GGGGACTGAGGGCACTTCTCAAC	28637	TGCATAAGGCCACTTTGAGTGA	39621
5996	CCACCTAAGCAGTCTGCATGT	17654	CAAGGATGCTGAGTCCAGGTTCA	28638	GCCCACTTTTCTCATACCACCTAAG	39622
5997	TTCTGTGGGGCTCAGTTTTGT	17655	GGCAGAAAGAAAACCTTCGAGATG	28639	GCTGTCCAGCTTTCCACATTCTGT	39623
5998	GCAAAGCTAGGCAAAATGTCTAATGGATTG	17656	AGCAGTGAGCAGCCTCTT	28640	GGCCTGAGTGGATGCAAAGCTA	39624
5999	GCACCGTGAGTCTACCAGAAAC	17657	GCCACAAAGCCAAGTGCAAAG	28641	TTCCCTAGCACCGTGAGTCT	39625
6000	TGAACATGGGGTCAATCACACTTG	17658	GAAAGCCCTGCAGCTTTCTGT	28642	GCCTTGGCTGTGATGAACA	39626
6001	CTTCAAGGCAGTATTCTGGCAAGT	17659	CCTTCAGCCCAAGAGAAGAATTTATCA	28643	GGTTCTGGGCATAGAGACTTCAA	39627
6002	GCAACTAGCTAACTGGCCACAA	17660	GCTGTGTGGGGTACAGTAGACACT	28644	CCCAGGAACCAAGGTTTTTGCAACT	39628
6003	CAACTCCAATCAGGGTGGTCTCT	17661	GACTTGGACTAGAGACATGGAATCTT	28645	GGCCTCCCTCAACTCCAATCA	39629
6004	CCACTGTAATCACCAACACGTT	17662	GGGGATGGTTCAAGTAATACCTACTCTGT	28646	CCAGAGCTGCCACTGTAATCA	39630
6005	GCTTCTTAAGCACATTCTGGCAAAC	17663	CACACTGATGGAGACCCAGAGT	28647	GTGAGGTTTGCTCTTAAGCACATT	39631
6006	CAGTAGGTAAAGAAGGGATTGTGGATAG	17664	CCAAGTAAGTCTGCAAGAAAACACA	28648	CTGGCTCAGTAGGTAAAAGAAGGGATT	39632
6007	GCTTTTGCAAGTGTGGTGCTAAAA	17665	GGATCTCATAAAAAGTAACTCTCTGACA	28649	ACACAGAAGCTTTTGCAAGTGTG	39633
6008	GGGAGTTGATCTGTGTGGACAA	17666	GCACCATATTTAGAGGGTATCGATTTCTGA	28650	GCTCTGTGTCTCTGGGAGTTGAT	39634
6009	CCCAGGCAGTTCTGAGGTAG	17667	CAGCTCTAGCTCTCAAGTCCCAAA	28651	AGCAAGAACCCAGGCAGTT	39635
6010	GCAATGTCTAAGCCTCAGTGGTT	17668	CAAGAGAGGAAAAGCTCTACTGGAA	28652	GATGTCTGCTGTTGGGCAATG	39636
6011	ACCACAAGTGGCTTGATTTCTT	17669	CCATGCTGGCCTAGAAAATGTTA	28653	GGTGTGCGCTACCACAAT	39637
6012	AGAACTGTAGAAGGAGGAGAGTCA	17670	ACCTGCTGGGAACAGGATGA	28654	GTGGGTCTCTTTGGGAGCATAAAG	39638
6013	GGGTGTGATTCTGACCTCCCTAAG	17671	GACTGCGTCAATCTCTCTCTATC	28655	GGCAGCTCAATGGGTGTGATTC	39639
6014	GGAGTGTCTTATAGGGGCAAGAAG	17672	TCTACTTTGGGCTACTGCAAAAG	28656	GGCGAGGTTACAAAGGAGTGTCTT	39640
6015	CCACCAGTAAGCAGAGAAATACAGTCT	17673	AGCCTCCACCTTGTCCAT	28657	TGCCCCACAGTAAGCAGAGA	39641
6016	GCCTCTCTTCCCTGATCTTCTTTC	17674	GCTGTAGGTCACTGTGCATGT	28658	GGGTTGCCTCTCTTCCCTGAT	39642
6017	AGCATCAGACACTCGGTGTTAC	17675	GGAAATCACTCTCGTAGGAACTTG	28659	TCCAGGACCAGCATCAGACACT	39643
6018	GTCCCTTCTCCATCATGAAGTGT	17676	GGCCATCCCTAACCTTGACCTATG	28660	TGTGCTGTCCCTTCTCTCAT	39644
6019	GGAGTTTGTGTTAGAAGCAGGTAAGA	17677	CAAGTTTTGTGCAAAAGGGGAAGA	28661	GGATGAAGTGTGAGTTGAAAGGAGTTTGTG	39645
6020	GTGGATGCTTTGAAGGTTTGGTTT	17678	CGCTCCAGTCAATGGCAATGT	28662	GGGAGAGCTGTGTGGATGCTT	39646
6021	CACAGAGTTCTCATCTCAGTGTAG	17679	ACCAAAGGTCTTGAATGTAGTGA	28663	TCTCCATTGGCCACAGAGTTC	39647
6022	CTGCATGATCGTATTGGAGTGGTT	17680	CTGCATGACTGGAAGAGCCAAAC	28664	CCACAGGAAGTGCATGATCGTA	39648
6023	GCTCAGAAATCCAAACCATAGCTTTC	17681	GGTCTGCACTGAGCTGGCAATA	28665	CAGTGGTTGCTCAGAACTCCAAAC	39649
6024	CTGACTGCCTAACTGGGTCTCA	17682	GAAACCAACAAAGAGGAATCT	28666	GTCTGCTGACTGAGTGCTTAAC	39650
6025	GGGGCTGACTTACCAGTGAAGTCTA	17683	GGAGGTGAGACTCAGAGACATACA	28667	AATGGAGACGGGGCTGACTTAC	39651
6026	GCCAGGGACTAAAGTCAAAAGCCTTA	17684	GCCAGCCACAGTGTAAACAGA	28668	CTTCCAGGAGCCAGGGAAGTAA	39652
6027	GGGAGCCAGGATTGGAAGTCT	17685	ACTTCTTTACCTGATCCCTCTCA	28669	AGTAACGGGGAGCCAGGATT	39653
6028	TAATACCGCCCGCAGCCTCTT	17686	GGCGCGCAAACTTGAGTTACTT	28670	CCAAGTCGCTGCAAAAGCTAA	39654
6029	CCCAGGCAACTTTCTGGAAGTGT	17687	GAGAAACCTGAGTTAGAGGAGATGAAAA	28671	GTGAAAAGCACCCAGGCAACT	39655
6030	CATTTTGTATGCATACCACCTTGT	17688	TGAAACCTTACACCTGAGTCTTG	28672	CTGGGTGGTTCCAACATTTTGATG	39656
6031	CGAGGTGCTAAGGGAAGACAAT	17689	GGCAGGTCAATTGAAGGAATGAATGT	28673	CTTGCCAAACGAGGTGCTAAG	39657
6032	CCATCCCAGAATTGAGAGAATAAGGTGTA	17690	CCACAGCACCTTCTTGTGTAT	28674	CATGATCCCATCCAGAATTGAGA	39658
6033	GCCATGCCTATACAGTGCTTTC	17691	CTACAGCCGGTTTCTCTGAACA	28675	CCTGTTTTGGCCAGTGCCTAT	39659
6034	GCCCAACAAACACATCTTTCATC	17692	CGGACAGGGGAGACCTCAGT	28676	CCAGCCCACAAACACACA	39660
6035	GAAACCCAGTGAACATGAAGGAAGA	17693	TCTCTGTGCTTATGCTGTGTAA	28677	GCTGAGTAGAAACCCAGTGAACA	39661
6036	CGAGTTCATGGTTTTGTCCAATC	17694	CCCAGTGACAGCCATATCCAT	28678	ACCTTATCAGAGTTCATGGTTT	39662
6037	CAGTTGCTTTGTGGTTAAGACATAC	17695	CAAAGCTCAGCAATGGTGGAT	28679	CTGCAACAGATGCTTTGTGGTT	39663
6038	CCGATTCTTTGCAAGTGTGACTTG	17696	GACTAAGCTGTATCTACCACTT	28680	AGCAGCCACCGATTCTTTT	39664
6039	GTTGCTGTTTGGGAGATCACT	17697	CCAGTCTTGCCTCTCCAACCTA	28681	GTCGGACAGAGTTGCTGTTTG	39665
6040	TGCCATTAGTCATGCTGTCACT	17698	CGCCCATGAAACACAGCCAAT	28682	CCTACCAGGAAAGTGCCATTA	39666
6041	CTGCAGGTGAACAGACAAAATCATGT	17699	CAGCCTTTCTCAGCTCTCCAA	28683	GGAAGTCTGAGGTGAACAGACAA	39667
6042	GGGAGGAGCTGACACAGTTCTCTA	17700	AGATTCCCAATTGCCCTTCTGGAT	28684	GCATGGGGAGGAGCTGACA	39668

6043	AAACGCTTCCTCCTCAAGTATCA	17701	CAGACACAGTCACCCAGGAAGT	28685	GTGTATGGTAAACGCTTCCTCCTT	39669
6044	CCACTGTACCTTCACACAAGT	17702	GGCTTCACACGCTTAGCCAAA	28686	GGAAGACCTACACCAGTGCACCTT	39670
6045	CAGAGCACTCTATAAGATGGAGGCAAAAA	17703	GTTTTTGACAGACACCCAGTTTTT	28687	GGTCAGAAAGGCAGAGCACTT	39671
6046	CTGGGGCTCTGCAAGCACTAA	17704	CGTGGTGTGGCAATGGGTATG	28688	AGATAATCCCTGGGGCTCTTCT	39672
6047	ACTGGATGGATTCCCAATGAACCT	17705	GAGGTAGAAGACCCAGGAACAAG	28689	ATCTACCAAGTGTACTGGATGGATTC	39673
6048	GGGCAGCTCAAACTAAGCAGTGTAG	17706	AGGCAGCCTAGCCCTAAAGT	28690	GGACAAAGATGGGCAGCTCAAAC	39674
6049	CCTCACTCTAACAGCTGCTCTTTCA	17707	GAGTCAGCCTATGCAGCTATTGAATC	28691	GTCTCTGCGCTCACTCCTAACA	39675
6050	GTCCAAGCCCAATCACTAGTTCTT	17708	GCTCAGGCAGTGTGTTGTGGAT	28692	CCTAGTGGTCCAAGCCCAATCA	39676
6051	ACGGAAGCATCTCCGACTCCTT	17709	TGAACACCACTGTGAGGACTTC	28693	GCTGTTTTAGATGGGAACGGAAGCAT	39677
6052	GCTCTGCTCCAGTAGGGCTTAT	17710	TGTTTTTCAAGGCTACAGGGTTTCT	28694	ACCACGATCAGGCTCTGCTT	39678
6053	GCAAGCACTGGATTCAACATGTGTTTC	17711	ACTGTAGCTAATCTAGCTCTGCTCTT	28695	AGGCAAGCACTGGATTCAACA	39679
6054	CTAACATAGGAACTGCCAGGAGAT	17712	CAGAGACCTTCCTCTCGGAGTAG	28696	CCCTCCTGGGCTCTGAAACTAAC	39680
6055	GGTGTGGACAGAGAAGGGTGAAAA	17713	GGGGCTGTAGAGATTGGTGAAC	28697	AACCTGGGGTGTGGACAGAGA	39681
6056	TGTCAGATGTTTCTTGGTTAGGACATC	17714	GGGCAGAGATGCCACCTGTT	28698	CACCAGAGTGCAATTGTCAGATGT	39682
6057	GGAACCAAAGCCTTCATAACATCTTC	17715	GGGGCAATTGTGAACAGTGGAT	28699	TGGTTAGGAACCAAAGCCTTCAT	39683
6058	GCTTAGGGGTAGTGCAGGAATAAG	17716	CACAGGCTTCAGGTGAAAAGAAAG	28700	CACATGTGTGCTTAGGGGTAGT	39684
6059	TTTTGGAAGTGCACACCTGTG	17717	GGGGACAACTTCTCTAGTCAGCTT	28701	GGCCCTCCAGACTTTTGGAAGT	39685
6060	TCCTCTCCATTACAGTGACATTTAG	17718	CCCATGTGCTCCATTAGGGCAAAC	28702	GGTTACATTTCTCTCTCATTTACAGT	39686
6061	CCAGGAAACCAATGACACCTTGT	17719	GATGTTCTCTTCTGTAGGGTGAAG	28703	CTTGCACTCCAGGAAACCAATG	39687
6062	CAAGAATAAGGACAGGCTGGTGAAC	17720	GTACCAATGTGCAGGTATGAGTACA	28704	GGAAGCCTGCCACAAGAATAAG	39688
6063	CCCCACCTTGGATTGCTCTAAC	17721	CTGGCAGAGGGACCTTCTGCATT	28705	AGGCTCCCCACCTTGGATT	39689
6064	TGGGAGTGGAAATACAGGAACATCA	17722	GGAGCGGCTCATCTCCCAAT	28706	GGCCCAGAACATTGGGAGTGAATA	39690
6065	ACACTGATACCTGAGAGAGAGGTGATA	17723	GCAGAGCTGCCTAAGAGAAGAAAA	28707	GGAAGCAACACTGTACTGAGAGA	39691
6066	GCTGAAATTCTACATGGGGTTCTAGGTT	17724	GGGAGTGGTCCACATATTGCTCTT	28708	GCAGCTCGAATAAAGCTGAA	39692
6067	TGCTGCTTCACTGGGGTAAATG	17725	GCCCTAAACCTCCATCCAGTTC	28709	TTGCTGGAGTGTCTCTCA	39693
6068	GGCCACTGGAACACACCATGT	17726	ACCCAAGTCCATCTGCACAAAG	28710	AGTCACAGCCCACTGGAAAC	39694
6069	CTGTTTCTGCCATGATACTGGTAATTG	17727	TCCTGGGACTTAAAGCTTGACTT	28711	CAGAGCTGTTTCTGCCATGGAT	39695
6070	CACGTGCTTCATGTAGAGCTGCTT	17728	CGCTGTATAACCCATTCTGGTT	28712	TGCAAGTTACAGTGTCTTCATGT	39696
6071	CCTGTTGTACAGGAAGTGTGT	17729	TGTCCCTAAGGCCATCTGT	28713	GGTTCGCGAGTTCCTGTTGT	39697
6072	CCAGCCTGCATGCTCTTACT	17730	TCATCCCTGCTCTGTGTGT	28714	TCCCTCACCAGCCTGCAT	39698
6073	CCCACATTTATTAACCGTGTGCTTCT	17731	GAGTGAAGGACTGAGTTAAGTGAAGA	28715	TCACACCTTCTGAAACCCACATT	39699
6074	CTGTAGCTTAAAGTAGGGGAGTCTAGA	17732	GGCAGACAGCACTAGTTCACTT	28716	CGAGGACTTAGAACTGTAGCTTAAAGTAG	39700
6075	CAGAGATAGCCCTCTTACAGATCAAG	17733	CCCGGCTTTGTGAGAGTAGAGACA	28717	GGCACTACAGAGATAGCCCTCTT	39701
6076	GCTCTACAGGCATGGTGACAAG	17734	TTTCTCTGGCCCTGTTACTTTGA	28718	TGACTTGTCTTCTGCAAGCTCTA	39702
6077	GCACTGCAATATCATCATCCTAGCTT	17735	CCAAGTCTCGCTCTTGCTT	28719	GAGAGTGGCACTGCAATATCATCA	39703
6078	CGCACATGGACCATCACACA	17736	GAGGGTCAGCACCAACCCATAA	28720	AGGGCCTTGACGCACAT	39704
6079	GACAAAAGGCCAATTGCAGGAA	17737	GCCAGTGCCTTTTGCTTCT	28721	CTGGAGAAGGAAGCCGATGTTAG	39705
6080	TTGGGTAATACAGGACTCCCAT	17738	CAGGGGCAGAAAGTGAAGACT	28722	GGTGTCTTGCTTGTGTTGGGTAA	39706
6081	TGCCTAAACCAAGTCATGGAATTC	17739	GCCAGAAATAGGATATACTGTCCCTTAA	28723	CCTTGAACCTTGTCTGCTTAAAC	39707
6082	CCACACGTCAAGCACTTTCTAACTTTC	17740	CCCATGAGGACTGTTACTTACT	28724	TGTACCACACGTCAAGCACTTT	39708
6083	GATGCATGGCAGAACCCCTAAAC	17741	CCTTGACTTTGCCATGACCTTTTC	28725	TCAAAGCTGCTGGGAGATG	39709
6084	CGGGCTGATGAAGAGAAGGTACA	17742	TCTCTGTCTCTCTCCATCAATTCT	28726	GGAACCGGGCTGGATGAAGA	39710
6085	CTCAAGTGAAACTGCCTTTTGGAT	17743	GGGCCGGTAATCACAGTCTGTTT	28727	CCTGCATACCAAGTCCATTCTCA	39711
6086	GCCAAAGAACCTACTCTCATGATGTTTT	17744	CTGTACTCCACCTCTCTACT	28728	TCATGGTTGCCAAAGAACCTACT	39712
6087	GGCTATGGCAGACAGTAGGTT	17745	TGAGAGGAGAGTAGAGTTGCAGTTAAT	28729	CACCATGGCTATGGCAGACA	39713
6088	CGCCACAAAGACGATTTCGAT	17746	GGTAGTGGTACGGGACAGGTT	28730	CACAATTATCCCTATTATCGCCACAAAGA	39714
6089	CTTCTCTCCAGGTAAGGCTAACT	17747	GAGAAAGGGATACCTGGAGGAATGATTGAAG	28731	GCTGTTCACTTCTCTCCAGGTA	39715
6090	TCCCTGTGTTGCTCCTCAACTTAAA	17748	GGAATTTGAGGCAGCAAGATTCAA	28732	GAAGAGGCTCATTTCCCTGTTTG	39716
6091	GGGTGACAGAGTCTTAAACATCCACATT	17749	GGCCTAGGTGCTTCAACA	28733	GAGTCTGGGGTGACAGAGTCTTA	39717
6092	CCTTGCCAGTTTCCCATATTTTC	17750	GAAGGGATCACCCGATTTACT	28734	CCTCCAGTGAATTTACCTTGCCAGTTTC	39718
6093	GGAGTAATCAAGTGCCATTGGGGTTTTT	17751	GCCTTATCTCTTGTGCTCTTGCTGTT	28735	GATGGCTGGTGGAATCAAGT	39719
6094	CGCCCCCTTACCTTTTCTCT	17752	GCCTATAGACACCAACTCTGACTTT	28736	TTCTGGCTACACGCCCTTTAC	39720
6095	CCATGGGCCAATTCTGGGTCTAA	17753	GCCATCCTCTGGATCTCAGAAGTAATGTT	28737	TGCTGTCCATGGCCACATT	39721
6096	AGGTTTGGGGTAGGTTCTTTCTTAG	17754	TGGGTGATGAGAACTGAGCTTTG	28738	CATCAGAAAAAGGTTTGGGGTAGGTT	39722
6097	CCAGAAGTCCCCAGAGACAA	17755	GTGCACAGTGAGGAGAGTCTGT	28739	AGGACCTGAGGCCCAAGAT	39723
6098	ACTTCCCTCCAAGTTAAAGTGTGAA	17756	CAGGATAGGCTGAGGCATGATTG	28740	GCTAAACACAACTTCCCTCCAAGT	39724
6099	CTGGTTTGGGGTGTGCTCTTTAGT	17757	TGGAAGCCCCAGCTGTCTAA	28741	TCAGTTGCCTGGCTGTTTG	39725
6100	GCTGTGGGTGTGCTGCTCTTA	17758	CAGCTCAAAGGTTCTGAAGCTCATT	28742	AATCAGGAGCTGTGGGTGTTG	39726
6101	AAGCTCTGCCACCTGTAGT	17759	GTTGGGACTACCCAAATAGGAACTT	28743	CCACCTGGAAGCCAAAGTTGA	39727
6102	CCCTGCTCAAGCCACTCTTTTC	17760	GCCAGGGCCCTTACTCACTT	28744	TCCAAACCTCCCTGTCTAAG	39728
6103	TGGATGGAATTTGTTGGCTGTCA	17761	GGGCTTTAAACACGGAAGCAGAA	28745	TGGACATGGCAAACTTGGATGGAT	39729
6104	CTGTGCAAGGTTAGAGGCAAAAG	17762	TTCCGTTTCTCCCTCTGTCT	28746	GCCTGTCTTTCTGTGCAAGGTTAG	39730
6105	GAGGCCATCAGCTTTTCTCTTTG	17763	GGGCTTTTAAACATCCTTCGGGTTA	28747	GTCAGGAGAGGCCATCAGCTT	39731
6106	TGCCCTGGCATACTCTCTCATAG	17764	GCATTGCCAGTCCCACTGAT	28748	TCCACAGTGCCTTGGCATA	39732
6107	CGACAACAACATTGCGAGGTCTCT	17765	CGGAGGAGGTGTTAGGAGCTACA	28749	CTTGATCAACTTTCCGCAAC	39733

6108	GACACCACTAAGTACAGACAATGCTA	17766	GCCACCTGTGTAGAAGGTAGAAC	28750	TGGACCGTAATGACACCACTAAC	39734
6109	GTCCTGGACACTGATGTTTTGTGA	17767	GGGGAGCTGAGGGAGGTTAGAAT	28751	CCACCAGTCTCGGACACTGAT	39735
6110	AGGAGGAGGATAGCCTTATTTCTCT	17768	CAGAATCAAACTGCGTGTGACAA	28752	GGTGAGCTTAAATAGGAGGAGGATAG	39736
6111	CTTCAGGCCACAGAGTAAACCTT	17769	AGCTGGAGTGCTTCCCAATG	28753	GTGACCTTCAGGCCACAGA	39737
6112	GGGGTGCTGTTAATATCCTCCGTTT	17770	GCTCAGGCTTTACCTTGGTT	28754	ACCCTGTGATGGGGTGCTGTT	39738
6113	GGACAAGCGACACTGGAGATAAG	17771	GTCAACATCTGTGTCTCAACCTT	28755	AGCCAAGGACAAGCGACACT	39739
6114	TTGACTAACACGCTCACGACACT	17772	CCTCAGGCTGTCTTGCTAGGAT	28756	CCTGAATGGCATTGGGCTTGACT	39740
6115	TCATGGGGTAAGAGAGTTCTCA	17773	CCCATGGGTTGATGCAATCTGT	28757	GGGTTACAGATTATGGGGTAAG	39741
6116	AGGGCTTTTGGTGCCACGAT	17774	CTGCAGGACTCTAGCAGACGATA	28758	CAAGCTGGGATAGAGGGCTTTTG	39742
6117	GCTCTTCTGCTGTTTATCCAGAGA	17775	CCTGTGTACAGGCTACTGTGTGA	28759	GCAGGTGCTCTTCTGCTGTT	39743
6118	TTTCACTCGCAATCCACAGA	17776	GCCCTGACACTTGGAAAGTTGTT	28760	GAATGGGCAAAAGCACTGGTAATTTT	39744
6119	CTGCCAATCCATCAGTCTCTTCT	17777	CCAAGTACAAGTGCAGCAGTTTGT	28761	GCTTGAGGGTCTGCCAATCCAT	39745
6120	GGGGAGAAGAAGTTGAGTTCTAGATGCTT	17778	GGCTGACACTGCACACAGACT	28762	GGGCTTACTTGGGGAGAAGAAGT	39746
6121	GGATGCAATGCACTAAGCATGT	17779	AGAGGCACATTTGACCTCTTTAC	28763	AGGTGGCAGAGGATGCATTG	39747
6122	CAGCTTGACAGAGGCTAGTCTTTCT	17780	GGTAGGCAAACTCGTAGTGAATAAG	28764	TTCTGCCTCACCCAGCTT	39748
6123	CGAGGTACTGTGGGTCTGGAAA	17781	TGAGTCAACATCGACCAGTT	28765	TCCCTTCACTCGAGGTACTGT	39749
6124	CTGTATGGGCTCTGTGCAGGAT	17782	GAGGCTACTATTGAGAACTGGAGAA	28766	CCAACATGCAGTGATGCTGTA	39750
6125	CCCTGTAAGCAAGAACCAATGCCTTCAT	17783	AACTCCTCCTCAGCTGGGCACAAG	28767	CCCTGCAACTATCATCCCTGTAAG	39751
6126	GAGTCTCTCAAAATGGTGGTCTCA	17784	TGCTCTAGGAGAAATTGCCAGGTA	28768	GCCTGCTGGAGTCTCTCACAAAT	39752
6127	GCCACCATGCCCTTATCTGTTTG	17785	GGCAGGTAAAGTAACTGGGAGACA	28769	ACGAGCCACCATGCCCTTA	39753
6128	CTGTCTGGCTAAATGTTTACTTGGCTAT	17786	CCCCTGTGGTAAAGGGACCTTAGA	28770	CTCCATCCTGTCTGGCCTAAAAATG	39754
6129	GGAAACAAGTCTGAGTGCAGAT	17787	CAAGTGTGGCTACTGATCCAT	28771	CTTCTCTTCACTCAACAGAGGAACAA	39755
6130	CGTTAGCATGTATAAGAGCAGTCTTC	17788	AGACTTCTAAAGTGGAGGAGTTGA	28772	GTGGTTGGACCGTTAGCATGT	39756
6131	GTTGATGACACCTCAACTGTGACTT	17789	TTTTCTTGGCTTGGCTGACT	28773	GGGAAGGCTTCTGGAGTTGATG	39757
6132	CCATCCAGATCTTAGAGAGAAACAAGA	17790	GCTGGGAGTGGAAAGGAAATCA	28774	TGGAGCCCCATCCAGATCTTAG	39758
6133	GGCACATCTCAATAGCCCCAGACA	17791	CAGGCCCTTAGGCTTCTGATT	28775	GCTTGGCCAGGCACATCTCAA	39759
6134	GGAGGGCCATCAACAATGTGAA	17792	CTGCAGGACAACCTTGCTTTCT	28776	AGATGGGGAGGGCCATCAA	39760
6135	AGGGGCCCTTCTTGTGGAGAA	17793	GCCCATATCCGACATTGAAGCAT	28777	CAGGCTTGGCATTGTGACTTG	39761
6136	CTCAGGCCCTTGTAGTCCAGTT	17794	GGGCTTCTCACCAAGTGAATAAAAA	28778	GCCAAGTAACTCAGGCCCTTGT	39762
6137	GCCAGGCACATGATGGCATT	17795	TCTCTCCACACTCTCTGTTG	28779	CCTGGGAGCCAGGCACAT	39763
6138	CCCTTTCACGACACTGGCATCT	17796	GCGTAGAATATGTACCCAGGGCTATAC	28780	TACCCCACTGTGCCCCTTTCA	39764
6139	GGCTTGGCAGTTTCAGCTATGTGT	17797	GAGGTAAAGCAGGACAGTGT	28781	GGAATCATGGCTTGGCAGTTTCA	39765
6140	ACAGGTACTTAGAGCACTCCCTTA	17798	ACAGGAAGGACAGGGTGTCTCA	28782	GCCCAGGCAGATCTACAGGTACT	39766
6141	GGGGAGTGAATGGGGGTGTAGAAG	17799	TCAGCCCCGTCAGGATAGTAAC	28783	GCTTGGTCCATGGGGAGTGAA	39767
6142	GGTTCCCTGAGAATCCATTGAAGATA	17800	GCTTTGACATCACTAAACGATCCTGAGTT	28784	CTCAGAGTCTGGTCCCTGAGA	39768
6143	CAGCCCTGGATAAGGCAAGAGA	17801	GTCCCAATTCTGCACTAACTCTGT	28785	CAGACAAGGAACAGCCCTGGAT	39769
6144	GGCTAGAAAGTTCTTCAAGGCAGATA	17802	GCCACTGGGGCCACAAACAT	28786	CCCTCCCTGGCTAGAAGTTCTCT	39770
6145	GGTAACGATTACAGTGCCAACTA	17803	CTAAGCTAAGGCTGACTGAGACAA	28787	GCTGTTTTCAAGGCTAAAGGTAACGAT	39771
6146	CCTTGGGTGCTTCTCCCTGAA	17804	CACATTGAGAGTGGTAAGGGTATAGA	28788	CACCTGTACCTTGGGTTGCTT	39772
6147	GGTAGCATAATCCCCGCTTATC	17805	TGCAATTCTCTGAAAGGCAGTA	28789	CCAGATCTAGAACCTGGTAGCAT	39773
6148	AGGAATGGGATGGGAGAGGAT	17806	TGCAAAAGTCTGTGAAGGTACA	28790	ACTCCACAGGTGCCATCTTA	39774
6149	CTGCCTTGTCTTTGCTCTCACTCT	17807	TGTTGCTGTGTGGGTGTA	28791	CCTTCAACCACTTCTGCTTGT	39775
6150	GGGCTGGACTAAAAGGTAACAGT	17808	CATCTAAGGCTGTAAAGACCTTGT	28792	GGCAAAAGCAAAATAGGGCTGGACTA	39776
6151	CCTGCAGCTGATACAGTAGATGGCTAA	17809	CCTTCGAAGTACGGGAATAGTTAAACA	28793	TCCTCTTCTGACAGCTGATACA	39777
6152	GCCTGTCTTAGGGAATTGTGTGGTT	17810	AAGCAGTTATGTATGCCTGGAAT	28794	GGTCATTCTGCTGTCTTAGGGAAT	39778
6153	GGCCACGGTTTACCAGGAACA	17811	CTGTGAAACCTGGCTCTGCACATC	28795	TTTGGGTGGCCACGGTTTA	39779
6154	CTCCCAACACACAAACCCATCTA	17812	TGTGAGGGAATGAACCTGAGGAAATC	28796	CTGAAGAGCCTCCCAACACACA	39780
6155	CTCATCATGGGTGATTCTTGTGGAT	17813	CCAGTGGGAAAAAAGTCAAGATTC	28797	CCGACTTGCTCATCATGGGTGATT	39781
6156	GCACAGTCAATATGGGCGAGAA	17814	CTCAGTGAACACACACCTTGT	28798	ACACGGCCAAGCACAGTCAA	39782
6157	GCCATTTCACTGATCCCTTGTGTG	17815	TGCCCTCAGAGTGGGATCGTT	28799	CCCAGCAGCCATTTCACTGAT	39783
6158	CAGCACCTGGATCCAAGACACTT	17816	GGGAGGAGGATGAGATGTGAGGAA	28800	GCCAGGCAACCTGTGCATC	39784
6159	GACGAAGCAGAACCCACTCAT	17817	TGGAATCATGTTTACGGGGTTCA	28801	GGGACATTCTCTGGTTATTGACGAA	39785
6160	CCTGTGAGACACAATATCCAACA	17818	GAGGTGCTAAATGGATGTTGAGAGA	28802	CCTAGCTCCTGTGAGACACAAC	39786
6161	AGGCAGTGACAGAATCGAGACTA	17819	TGGAAAGCCAAAGGTGTTTTGATG	28803	GGCTTCAGAGGCAGTGACAGAA	39787
6162	GAGGGTGAGGAAAACGCTGTGA	17820	GGAGGCTCCCATGAGCCTAGAAA	28804	AGTGTGACGAGGGTGAGGAA	39788
6163	TGACCCCTTGGGCATCTTGA	17821	TGTCCCACGCTCAGGTCAACT	28805	GAGGGCAGACACAGGGATGA	39789
6164	CCCTTAGCTTCCCATTTGTTGTGT	17822	CTGATGGTGTCAAATGGGCTATTTTCTTC	28806	ATTTGCATCACCTCCCTTAGCTT	39790
6165	CACAGAAGGCTTTCCAGATATCAAC	17823	CAAGGGAAGCTGTGCTTAGACTTAC	28807	CGGATAAAGGCTACGAACACAAGAA	39791
6166	CCTGCTGTAGTTTCCACCACAA	17824	GAGAAAAGGCATCTCCAAATGTGCTAA	28808	GGATACTCTGACCTGCTGTAGTTT	39792
6167	GGGCTTTGGAAGACACTGCAA	17825	GCTGAAATAGGACTCTAGGCAGTT	28809	GCTAAGTCCGAGGGCTTTGGAA	39793
6168	AGTGCTGTGCTACTACTAATTGCTTT	17826	CTGCTGCTCTGAAACAGAAAGTTG	28810	CAGCAAAACCAAGTCTGTGCTA	39794
6169	GTGCCGATCTAATCGCAAGTGA	17827	CCTGCTGCTTCTGCTGTTA	28811	AGGCCTGAGTGCCGATCTAA	39795
6170	GGATTTTGGTTGCTTTTCCCACTA	17828	GGCAGATGCTCAGAGGCATTAAACA	28812	CTCCCTCTTGGCTACTCTTGGAT	39796
6171	CCAGCAGCAACAGCACACATTTT	17829	GAGAGCATGAATGTGCATCTGTGT	28813	CACCTCTTACCAGCAGCAACA	39797
6172	GTGGCAACATACAACAGCACTAA	17830	GGGCTATGAATTAGCTCTGCATTTG	28814	ACTACATCTTTCAGTGGCAACATAC	39798

6173	GCTGTCATCAGACCCAAGCCAAA	17831	GGATGCTGGGAGCAATCAGTTC	28815	CAGAGAACAGGGCTCAGCTGTCA	39799
6174	TGGCAAGAGCTGACATTACCAA	17832	CTCATCCATTGATTCCGTTCAAGTAAAG	28816	GATGGAGAGAGTGATTGGCAAGA	39800
6175	CCACCTATACTGAACCTTAGGGGAAGA	17833	CTGGTTTGTAAATTTCTGAAGGCAGTGGTT	28817	GACTGATTCTGCCACCTATACTGAAC	39801
6176	ACCAGGAACCTCTTGGGCATA	17834	CTGCTCAGATGCCATAAATGTTTGAGA	28818	CCTGGACCTTTCTTAATACCGGAACCTT	39802
6177	CACCATGCAGGGGTTTATTACTGA	17835	CTGCAGCATGGCTTCCATTTC	28819	CTCATTGTCCACAGATTGATCACCAT	39803
6178	GTTAGCGTTTTGGGGAGGTAGT	17836	CTGATCTTACAAGTATTGCTTCCCTGACT	28820	GAAAGGAGAGATAGGTTAGCGTTTTG	39804
6179	CCTTGCTGAAATTTCCCGTATAGATG	17837	AAGGGCCGATCCGGAAACTT	28821	GGGTGTCATTTTCTTGCTTGAA	39805
6180	CAGGCCAGAGTTAATCAGATTTGGAA	17838	CAGCAGTTGCAAAAAGCACATTC	28822	CAGGGTAACAGGCCAGAGTTAATCA	39806
6181	GGGCTGGAAGAGGCTGCAAA	17839	AAGCTGGTGGTGCTACTGT	28823	AGAACCCATGGGCTGGAAGA	39807
6182	GGTTCCTGTGTAGCTGATCATT	17840	GCCAGTTTGTAAACAGCGGCTTTG	28824	GCTGTGAGCAAGGTTCTGTGT	39808
6183	GCCTCAAGTCAGGAAAGACA	17841	GCTGTATGTGTCTTTCCGTATG	28825	CTGCAGTATTCACAGAGCCTCAAGT	39809
6184	GTGCCTGCTAGTACATCTGGTGTTAG	17842	GCATGGGCATTGGGAATCAAAGAT	28826	AGAAGTGTGCCTGCTAGTACATC	39810
6185	GGTGCCACTGACTCCAAGGAAA	17843	AGTAAGTAGAGAGTAATGGAGTGTGA	28827	TTCCAAGGTGCCACTGACT	39811
6186	TCTTCTTCTGCAACTCTGTTCCAA	17844	ACTGTTGAGGGAATGGTTTGTGGAAT	28828	CAAGGGCTTTTGGCTCTTCTTC	39812
6187	GATGGTGCTTGTGTCTGAATC	17845	CCACTGTGAGGACACAGCATT	28829	CTGTCTCGAAGATGGTGCCTTGT	39813
6188	CTCTCTGCTTGTGAGTGGTGACA	17846	GAGAACCAGAGCTGTGCTTCATAG	28830	CCTCAGTGTGCTCTCTGCTTGT	39814
6189	CCCCACCAAGTATTTTGTCTCT	17847	TGGACTGGGAAAGAAGACACTAGA	28831	CCTCAAACCTACCCACACCAAGT	39815
6190	GGATAGTGCAGTTAATTGGGATTGAGA	17848	GGAGGACAACTGTGTTTGTGGAAT	28832	GAGCTGGACTTGGATAGGTCAGTT	39816
6191	TTGCAGGAGCCCTTCCAAT	17849	GGGAGCCTTGTGGACCAGAAAT	28833	AGCTAGTTTGTCTCTACGCTCTG	39817
6192	GGGTGCCAGTTCTGTGTCAT	17850	GGCCTAGAGTTGCAACCTTACGAAT	28834	GTGGCTTGGGTGCCAGTT	39818
6193	GTGAGAAGGGGTCTAGTATTAGGGAAAAA	17851	CTGCTACCCAAGGATCTACCCAAA	28835	CAAGAGGTGAGAAGGGGTCTAGT	39819
6194	CACCAAGCTCATTCTCTGCCAAT	17852	GGCGTGCTACACATGTCCACAA	28836	AGTCCATGTATCACAAGCTCATT	39820
6195	GGTGGCCAAAGTGCAAGAAGACA	17853	CTTGTTCTGTCTATCCTCAGACTTC	28837	ACAAGGTGGGTGGCCAAGT	39821
6196	CCTGAACAAATTTCAAGTGGCAGACAA	17854	GGAGCTCAATCAAGGACCACAGT	28838	GGCCTTGGACCTGAACAAA	39822
6197	CCCTTCTCTTCTCTGTCTCCAAGT	17855	GCAATGAGATCACGCTCTGTGTT	28839	CCCTCCTAATGTCTCCCTTCTTTTC	39823
6198	GAGATAGCAAGTACAAACCACACGTA	17856	CAGCAGCAGCTGAAGTCAAC	28840	GGTCACTGACTTTGAGATAGCAAGTA	39824
6199	TTGACACGCAACCCACACA	17857	CTGGAGCTGCATCCATACCCATAC	28841	CCAGAAGCTCCAGTGTTTGACA	39825
6200	GCTCCTTTTCTCAGCACATAAACATA	17858	CTGGAGAAGGGTCTTTTAAAGTGCAA	28842	GCTGCTCTCTATTAGCTCCTTTT	39826
6201	CGGCATGAGCGAAGAGGATCT	17859	GCACGTGAGGGGACACTCT	28843	AAAAGAGGAAGAGCGGCATGA	39827
6202	GCAATCTCCAGGACCCCTAAAATTC	17860	GGGGTCATTGAATCATGGACTGT	28844	CAGGGATTGGCCACAAAGCAATC	39828
6203	TGGAGAAGGGCCAACATCAGT	17861	CGCATGGAGATTGTGCTGCTAAC	28845	CTGACATGTGGCTGGCATTCT	39829
6204	GCAGGTTTTTGGTTGCTTGA	17862	AAACCCACTCCAACAGCCCTT	28846	GGCACAGCAATATGAGGTTTTT	39830
6205	GGGTCTCTGTGCGCATCTTTCT	17863	GAGCCCTGATTCTGAAGACAATGAGA	28847	ATCAGGCTGTGGGTCTCTGT	39831
6206	TCGTGAGTGGGTCAATTATGTCTTAG	17864	CATAGATTCTCACCCAGTTGTTCT	28848	CCATTTTCTATCGTAGTGGGTCTAT	39832
6207	GTCCTGACAAAGCAGGACATACA	17865	GAGACTTATGGGAAGATGGAGCAGTATA	28849	AACTGGGACTGTCTCTGACAAAG	39833
6208	GGAATCAATTGTTTGCAGCACAGT	17866	TGCAAACTAAGCCAGTCTAGTCAA	28850	GCCCTGCAGGAGGGAATCAAT	39834
6209	TTGCTCTCTCTCTCTCTCTCTCT	17867	CTGCTTCTGCTCAGGCAATTACA	28851	GCCAGAAGCTTGTCTCTCTCT	39835
6210	TCTCTCGGGCAAACCTTACATTTCA	17868	GCTGTTCTCACTGGGTAACCTTCT	28852	CAACATGTATCTCTCGGGCAAAC	39836
6211	CCCACAGTTTGACAAGCAGACTT	17869	CTGGGCCCTAAATAGGCATTCA	28853	GTAGGTACCCACAGATTTGACA	39837
6212	AGGGAGCCTCTCTCTCAGATGT	17870	GGCTGTCAGGCCCTGTATCTTGA	28854	ATGCCACAGGGAGCCTCTT	39838
6213	GCTGGGGAGTGTCAATGAGCAA	17871	AGGGACACTTGGGCCCTCTT	28855	TTCCATAGAGCTGGGGAGTGT	39839
6214	GGAGTGCCTTCTCATGAGTCAAGT	17872	GAGTCTCTCAGTGAGATTAAAGTCAAGTTG	28856	AGCCAATAAGGAGTGCCTTCA	39840
6215	GGGCTAAAGGGCACACTGTA	17873	GAGCACACAGATGGACAGGTATAG	28857	TGCGGACAGCAGGGCTAAAA	39841
6216	GAAACCAAGACTGTGAAGACCATTAAAC	17874	GTCCACACTAAGCTTCAGCAA	28858	GCAGTTGGAACCAAGAGCTGTAA	39842
6217	TGGGTGAAACAGGGCAGTCTTG	17875	ACAGGCGGGAGCTCGGATCA	28859	CTGTCCGACTTGGGTGAAACA	39843
6218	GCTCACAGGGGTTTGGGGTTATTG	17876	GAGCAGCAAGGATAAAACGCAAAAT	28860	CACACAAGCTCAGAGGGGTTTG	39844
6219	GATCCTAGTGATTCTTTGGGACCTAAC	17877	CCCTGTGGAAGCTAAAGTGTGGAA	28861	TCTGTGTCGTGAGATCCTAGT	39845
6220	CCCTGGAGGAAAACGGTACACA	17878	GGTTCACATGCAGTTGTGAGAAAC	28862	GGATGCTACCCCTGGAGGAAAA	39846
6221	CATGACACCAAGTTGCCACAAATC	17879	TGTCTGTGGTGGCAAGAAATAGA	28863	GGCTTCAATCATGACACCAAGTTG	39847
6222	GCTCCACCACTTCTTTGAGTTTC	17880	TTATCAAGGCCCATTTCAAGGTATCA	28864	CTGATAGAAAATTGAGCTCCACCACCTC	39848
6223	GAGGTCAAGTTGGACCCCTCAGA	17881	ATCAGTGGGTCAATTTGTGGTACT	28865	GCCAGGTATGTGAAGAGGTCAGT	39849
6224	ACTCATCTGATGCCCCCTAGT	17882	CAGAAACAACCCAGGCTCACA	28866	TCCCATTCGCCCACTCATCT	39850
6225	GAAATGTCCTTCTCTTCTGCACTT	17883	GGCCAATAACTCAGCTTGCAGAAG	28867	GTCTCACTTACAGTGGAAATGTCTT	39851
6226	GGATTCTCGGGCTACTCCATTTTTC	17884	CACATTTCAACAGGTGCTCTTATCTT	28868	TCCAAAGGATTCTGGGCTACT	39852
6227	GCCTGCGCACTCAGCTTTCTATC	17885	GCCTCTTATCTAGAGTCAGCCAGATG	28869	ACTGGAAGCCCTGCCACTCA	39853
6228	TGCACTCACCAGACCCCAAGT	17886	GGGTGGCAGGAAGCCCAATAT	28870	CCCAGCAAGCTGCACCTCA	39854
6229	TGTTCAATCAGTTGGCAGACTTTC	17887	ACTTTTGATCTAAACTCGGCCATA	28871	CACCCCTACGTGTTCAATCAGT	39855
6230	GGTGAGAGTGTCTACTACTGTTGAGAAG	17888	CTCCTGTACGGTTCTTCCCTTT	28872	GGAAGGTAAGGTGGAGAGTGTCTACT	39856
6231	GCCTCTTCTCTTCTAACAGTCTCTTC	17889	GCTGGAATGGAAGCCAGCTTAG	28873	GTGGTTGATGCCTCTTCTCTTTC	39857
6232	GTGGCCAGGTGAGGATACATT	17890	TGAGAGAATGGGAGAGAAGTGGTT	28874	GGCCTGTGCAACCCCTTTAG	39858
6233	GCTCTCTGGGAAGACAGATTTC	17891	GTCTCTTCCACTGAAGTAGTAAATAGTTG	28875	CGTAATAATGCCCTGATGCTCTCT	39859
6234	GGGTGCTGATTGGAATCCTTAGT	17892	GCCAACAGCAGATCTAATGGGATGTA	28876	GTGGGAAAGAAGGGTGCTGTATTG	39860
6235	GGGGTTGAAGAGAAAGGTTAGACAAG	17893	GTACATATAGGCTGCCATTCTCTAA	28877	GTTTAGTAGCTGGGGTTGAAGAGA	39861
6236	CCCTCGGCATAAACCCCTACTCA	17894	CTGCTACCCAGGCCACATTTCA	28878	GGGAATTACAGTCCCTCGGCATA	39862
6237	GCAATGTGACCCTAGGCAGAAAC	17895	CCCCTTCTAGCTTGATCATCTGCTTT	28879	ACCCAGTGCCTGCAAAATGT	39863

6238	CGGCTCAATCTTGAGTTGTTGAAG	17896	CCAGATGTCATGCCCAATAATGACT	28880	GTCAAAACCCAAAATGCGCTCAA	39864
6239	GCTGCTTGACAACTTTGTGCTTCA	17897	TGAGGAGAGCAGGGGACTTG	28881	GATGCAATATGAAGTGCTGCTTGA	39865
6240	GCCAATCCTTTCTCAGGATACCTA	17898	GCTGGTGTCAGTTTATCATCACT	28882	TGTGGTTATGGCCAACTCTTTCT	39866
6241	CGCTTTGGAGAGCTATTGCTTAAA	17899	GCTTCCCTGGACTTCTCTTT	28883	AATTGTCCGCTTTGGAGAGCTA	39867
6242	TTCTGGGCGAGGGATGGTA	17900	AGAGCTGGGCACAAGCAAAG	28884	TTTGAGGCCCTGGCCTGCTT	39868
6243	GGAACATCAAGGTAGTGTGGATCA	17901	GACTGGTGATTGGGGCTTACA	28885	GCAGGGGAGGAACATCAAGGTA	39869
6244	CTCTTGACACTTGTGGCCAAGTTAATC	17902	GGTTGTGGCAGATCCAATAATCA	28886	GACACGACCTCTCTTGACACTTG	39870
6245	GGGGTGTAGGAGCAAGATAAGCAA	17903	GGGTATCTCACATCTAAGACTCAACATC	28887	ACAGATGGGGTGTAGGAGCAA	39871
6246	CTTCTCAGCAAGTGGGAAAGATGTT	17904	TCCCTGGCCCTATACAAGATGT	28888	AGTAGGCCCTCTCAGCAAGT	39872
6247	CCCAGTGTCTAACAGGCACTCT	17905	CTGCAAGCAGGAAAGGCTATTCA	28889	TTGGCCTTACCCAGTGTCTAAC	39873
6248	GGGAGGAGCACATTAAGTGGAA	17906	TCTGACTTTCAGGAGCCTACACT	28890	TGTTTCTTTGGGAGGAGCACATT	39874
6249	CCTCCCATACAGGGCCAAACT	17907	GCAGCCTGAGCCAATTCTGA	28891	ACTCCTCTGCTCCCATACA	39875
6250	GCTGCTGATGAAAGAATCACATCATCT	17908	GGGGTAAGAGCTCTCTGCAT	28892	TCCGTCCTTTGCTGCTGATG	39876
6251	CCAAGAACCAAGAGCTCAACCTGAA	17909	CTAACATCCCTGCCATCTCTCGTA	28893	AATCCCTTGTCATACCAAGAACCA	39877
6252	CTGGCTGGCACTAAGGAAGCAA	17910	CCTGGGCCCATCTGTGACATTT	28894	TAACGGGCTGGCTGGCACTA	39878
6253	GCATCCTGCAATGCTGGGAAAG	17911	CCTTGGCCCATGATTCTTCCAT	28895	TTGGGTGGCATCTCGCAATG	39879
6254	CCAACCTACTTAGCATTGCTTGTGT	17912	CCCATTATGTCAACCCTCCAACCTA	28896	CCACACATTGCACCACTCACT	39880
6255	GGACGTATAGAGAGCTGAGACTTTG	17913	AGGCACAAGCAGATTACACACA	28897	GGTCAACTTAGCTGGAGCTATAGAGA	39881
6256	GGGCTTACACACTTTACTGTCACTT	17914	GAGATTTTCATGACAATGGTCTCAGT	28898	GCTGGATGGGCTTACACACTT	39882
6257	GGCAGTGAAAAATGCCTCACAGATG	17915	GCCAAATACAGCAACTCCTCTTCA	28899	GTGAGCATGTTGGCAGTGTA	39883
6258	TCAGGCTTTTAAACCCACAGTATT	17916	CTCCCAGGATTGAGCACATCTTAC	28900	GGGGAGGGGATTTCAAGGCTTTT	39884
6259	CTGCTACAACCTAGCAACCTCTT	17917	GGTGTGGCTGCAACTATAGACA	28901	GCCTGGGTTTTCTGCTCACAAAC	39885
6260	CAGCAGCCAAACCGTTTAAACCAT	17918	GCAGTAAGCTATGATTACACCACTGT	28902	AGCTCAGCAGCAGCCAAAC	39886
6261	CCTGAACCTACTCATCTGTTCTTA	17919	CTGCCCATAGACCATGCAAGT	28903	CGGTGGCCATTTTCTGAACCTA	39887
6262	CCAACCTGCCTGAAGGTCTGTTTTTG	17920	GTCAATACAGCCAAGGTGAGAAATG	28904	GCACAGTCTTCAAACCTGCTGAAG	39888
6263	GCACCTTACTCTCTAGCCCCAAGTT	17921	CAGACGAATCTGGACACACTTGGAA	28905	TCACCTAAGTGCACTTACTCTCT	39889
6264	CAGATTCTTAACCTACCTTCAGCAA	17922	CCATCTGTATTGGAAAGTGTGGTTCA	28906	GCCGCCCTACAGATTCTCTAACT	39890
6265	CCCGTCACACGACTAGGAAAGA	17923	TGCTCTCTCACCTTTCAGTGT	28907	CTAAAACTGGGTTCCCGTCACA	39891
6266	GCAGTTACTCTCTTCCCCACTT	17924	TGGGTTACACATGGGACTTCTT	28908	GGTTTACCACCCGTGCAGTTAC	39892
6267	GCCTGGTTTCAGCAGTCTCAGTT	17925	CTCCTGCACCAAGATATCTGCAAAAG	28909	GAACCTGCTGCTGCTGTTCA	39893
6268	GACTGCCCTTTTCACTTGGTGAT	17926	GCCACAAAGAGACATGGAGGAA	28910	TGTAGTCTTTTCAAGCTGCCCTTTT	39894
6269	GCTGACACCCGTACCCAGAGA	17927	CCACCTTTTGGCTTGGGATACAT	28911	CCACAGTTTATCCCAAGTGTCTGACA	39895
6270	GAACCCAGGACATCTATTGGTT	17928	GCTCTGTGATATTGTCTGTCAGGTA	28912	CCTCCAGAAGAACCCAGGACAT	39896
6271	CCAGGTTTCCCTTGCAAGTTTCAGT	17929	GGTGACAGTATTAGCATTAGCAAGT	28913	TCACCAATTCTAGTCTCCAGGTTTC	39897
6272	AGACACCATGTCTCTCACAGA	17930	GGAAATGCTACGGAGGCTGTGT	28914	CCATGGAAGGGAGACACCATGT	39898
6273	GGGCTGACCATTAACTTAGGTTTACACT	17931	ACTCTTTAGGTGAGGACTTCTCTGA	28915	TCATGTGGGCTGACCATTAACTTAG	39899
6274	CCATGTCTCAGGAAAGTCTCATGTTTC	17932	CGAACTTTGGGCTGCCTTCA	28916	GAGCAGAGACCATGTACAGGAAAGT	39900
6275	GGGCTCTCCATGTCTCTAACAAAC	17933	CATCAGGTGATACGGCTACATTCA	28917	ATGGGGATGGGCTCTCCATGT	39901
6276	TGGGATAGAGTGGGAAATGGAT	17934	TGACAAATGCCTCTGCCTGTT	28918	GTACCCAGGCTGTGGGATAGA	39902
6277	GGGCACATTTAAGAAGCCCTGAT	17935	GATTGGTCCAAGCCTGATCTGA	28919	CCATCTCCAACCTTGGGGCACAT	39903
6278	GGCATAAAAAATAGGATGGGACCATTA	17936	GGCACAGCTGAAAGGCCAAACA	28920	TTGGGACCCAGAATATGGCATAAAA	39904
6279	TGCGGTGACAGAGTAGTCAGA	17937	CCCAACTCTCACCATGGCTTAT	28921	TCTAGGCTGCGGTGAGGACAGA	39905
6280	CCCCTAGTTACTACAGAGCTAAGACAA	17938	GCCTTACAATTTCTACCTGGAAAAGA	28922	GCAGAACATAACCCCTAGTTACTACA	39906
6281	GCCTTGGCAAAGGAGCTGTCTAT	17939	CCAGGGCCTATTGGAACCCCTAAAC	28923	GACACATTAGCTGCTGGCAGAAA	39907
6282	CCAGTTGCTCTCAAGTTTGCTTTTG	17940	CAGCTTTCTGCCCTTTTCTTTTAG	28924	GCTGCCAGTTGCTCTCAAGT	39908
6283	GACTAACCAAGCAAAACAGCAAGT	17941	TCCATCTCTTCCATCTTTTAGACT	28925	CATCACAGAGTGTGGGTTGACT	39909
6284	GTCTGTGTCCACAGGCTATGA	17942	ACCAGGTGCACGTAACCTGTAA	28926	AGGCGGCCTAAGTCTGTGT	39910
6285	ACGACCTTGGGGGTGATTCT	17943	ACATCCACAATGGCAGTTCTCA	28927	AGCTGGGGTTTACGACCTT	39911
6286	GCCACCAACATGCTGGCTAAA	17944	CCAGACAGAAGGTGTTGCTTAACCTA	28928	CACCACTGCCACCAACAT	39912
6287	CCCTGAAGCGTTCCAAACATCTCA	17945	GGGACCAGCTCCTCACATCA	28929	TGCTGCACCTTCCCTGAA	39913
6288	GCAACTTGACGTAGATAGAGGAGAT	17946	GCTGATCCCTGGAGACACCTGTT	28930	TTGAGAGAAGCACTTGACGTAGA	39914
6289	GGGCCCACCTTTCTGGTTCATAG	17947	TCCCACACCCATTCCACCAA	28931	GTCTAGTGAGGGCCCACTTTCT	39915
6290	GGTAAGAACAGTGGATGAGAAATGGAT	17948	GGCTTATGGCTCAAATCCAAGCAA	28932	GGCTCAGGGGTGAAGAACAGTGGAT	39916
6291	TGGAAGTCCCATAGCCTTACTGA	17949	CAAGCCAGTCTATGTACCCATT	28933	GCAGCTCTGGAGCTCTATGGAAGT	39917
6292	CTGTCTCTCTTGCCAAATCCTTCA	17950	CCCTTACCATTGAACCCGTAAGAA	28934	TCTCCTCTTACTAGCTGTCTCTTC	39918
6293	CCTGATTCTCACTTACATGGAATC	17951	GACCTTCAGCGTCAGGAGAACAA	28935	GCTCCTTCCGATTCTCACTTCA	39919
6294	GTCACTCATGGGCTCGGAAA	17952	CAGACTTCAGCTCTTCTCTCTTCA	28936	TGCAGGAAGCCGTCACTCAT	39920
6295	GGCCTCCTAGACCACTTCAGA	17953	GGGGATAGAGCCATGCTTTCATTG	28937	AGCCTGTGGGCTCCTAGA	39921
6296	CTGACATCGCACTGGCCAAAAC	17954	GGACTTGCTTAAGGCTGGGAATAA	28938	CCACCGTTTTAACTTGCACTGACATC	39922
6297	CAAATGAGGGTCCCAGTCTCT	17955	CAGTTGATTGTGAGTAGCAGTCACGTA	28939	CAAGCAAAGGCTGAACCAAGTGA	39923
6298	GACATGCTTCAACCAACTTCAGACTCTA	17956	GACCAAGGAGGCAGAAAGGAAA	28940	CCTCCTTGACATGCTTCAACCAA	39924
6299	GGCACAAAGAGGCTGTCTTGAA	17957	CTGAAGTCTTTCAACAGAGGAGTAAGATCA	28941	GGCTACCAAGGCACAAAGA	39925
6300	TCACCGAAGTCTCTCTCATCA	17958	CTTTTATGACTCCATTAGAGGTAGGGGATA	28942	ATGCTGCTCACCAGAAAGT	39926
6301	GTGGGCGAGGAAAAACACTTC	17959	CCTGAACCTTGGATCATCAGTCAGATA	28943	CCTTCAAAGTGGGCGAGAGGAA	39927
6302	CTATTGCCAGTTACATAAACCTGTGA	17960	AAAAGTGTCCCATGTGTCTCAAAAC	28944	GGCCACAGATATCTCATTGCCAGTTAC	39928

6303	CCCCCTTCCCTCTCAACTGGAAGA	17961	CAGTAACTCTCTCTCTGCTTTGT	28945	ATACGCCCCCTTCCCTCTCA	39929
6304	CCTCCAGGCTAAGAACCCCTTTTG	17962	AGGTACACTTCCATGCCAAGAAAA	28946	CGGAGCCCTCCAGGCTAAGA	39930
6305	ACTTTGCCTGGGGAAGTCAGT	17963	CCAGCTCTAACCCTTACCCATTCTTC	28947	GGCCCCAAGCAAGGGTATTTTCACT	39931
6306	TCCCCAGCTGCTAGTGGGTCT	17964	GGAGGCTGTGGCCATGATTAAAC	28948	AGCCTTTCCCCAGCTGTCT	39932
6307	GGGCTTGGTGAACATCGTCTT	17965	TCGCTGGACTAGATGGCTACT	28949	ATCCTCTGGGCTTGGTGAA	39933
6308	CTCGGTGGCTTTTAAAGTTCATGT	17966	CCTTCTGGTTTCCACCACAAAGAAG	28950	GCATATCTTACTTCTCGGTGGCTTT	39934
6309	GGTGAGTTGTGGAAGGCTCATT	17967	GGGCCCTTCTGGAGCTTTTAAC	28951	GGGTTGCAGAAACTTGGTGAGT	39935
6310	GAGCAAGCAAGAAGTCATTGAAACT	17968	ACAGCTCCCTGTCTGCAAA	28952	GGAAGGAAGAGCAAGCAAGAAGT	39936
6311	GCAAGAAGTACAGTTGAGACACAAACA	17969	CCTGTCCCGAATTTCCCTCTCTCT	28953	GCTGTGGAAGCAAGAAGTACAGTTG	39937
6312	AGCCAAAACCATTTGGAACCATTG	17970	GTGGTTGGCCAGGCAATGAA	28954	CAGGCAGCATCGTCTTCTCT	39938
6313	CCTGACTTATTCCTCAAACCTCTAC	17971	GCCTGAAAGTGATCATGCCTCTTCT	28955	ACCCAACTCAGCTCCTGACTTAT	39939
6314	GGGGCATGCTAAGAGTCAGGAGTA	17972	GGGAACATACCACAGCATTGCTTA	28956	AGGTATCAAGGGGCATGCTAAGA	39940
6315	GTGAATCATGGGCAGGACCTT	17973	AGTCAAGATGAGGAGAATCCAGTTC	28957	TGCCCCAAGAACAAGTGAATCAT	39941
6316	GTTCAGACTGGTATGGACAGTAAACA	17974	GCCACTGGAAGGACCAATTTCTGA	28958	TCTCTTCCAGCTTAGTCAAGTTCA	39942
6317	GCCTTGGATAAGCGGTAATCCTGACA	17975	GGCTAGAAAAGAACTCCACTGCTT	28959	CATACAACATGGAAGCCTTGGATAAG	39943
6318	CACATGCGCTGGGTGGAATCA	17976	GGCACAGAGAGGTTCAATCCAT	28960	GGGCTAAGAGGCGAGGAACACA	39944
6319	GACATATCATAGGTGTCCAGCACAT	17977	TTGCAAGGCCACTGCTTT	28961	GACATAGTTGGAGAGCGACTGACA	39945
6320	GGTTATCCTCTTCCGGTGGAGTTG	17978	GTACGCCATTGTGTCTGAGAGA	28962	GGACAGAGCTTCCGGTTATCCTCTTC	39946
6321	CTCATCACACAGAGGGAGAGCTT	17979	CCGGTCAGTTGTGGACTTTTGT	28963	CGACACTGCACGTCTCATCACA	39947
6322	CCCTTCATGGCTCAATCTGGCATT	17980	GAGGTCAAGAAAGACCTCCATGAT	28964	CCTGAAGCCTTATTCCTATCCCTTCAT	39948
6323	GGTAACATGGACGAGAACAGGTTAG	17981	ACTCAGACCCCTCCCTCGTGT	28965	TTGAGAGTGACCTGCTGAGGTA	39949
6324	TGATCACCGGCAGATTCAATTAAGA	17982	GCTGCCTTGTCTCTTGTGTTT	28966	CCTTTCATGATCACCGGCAGATT	39950
6325	TGTCAACCCAGAAAAGCTCAGT	17983	TGGGCCCTTCCCTCACACT	28967	TGGCGTGTGTCAACCCAGAAA	39951
6326	CACTCCCTGTGTTAGGCATCCAA	17984	TGAAGGCCCCAGCCACATTAC	28968	TGCTACCCACTCCCTTGTT	39952
6327	GCCAGGGCCCATATTTCACTCT	17985	CGACACCACCACTGTCACTGT	28969	TGGTGCCAGGGCCCATAA	39953
6328	CTACTTGCTGTGTGGACAATACT	17986	GGCAGCAAGAGTGAATGTGTG	28970	TCCATCTCCGGCTTCTACTT	39954
6329	AAGCAGCGGATCAACTTCTTTTC	17987	CCCAGTACCACCACAGAATAAACT	28971	GAATGGGAAGCAGCGGATCA	39955
6330	GCTGAGTGCAGTGATAAAGGACAGTTGTA	17988	CTTCACTGTGTCTCACCTTGA	28972	CCTCAGTTGCTCAGTGAGTGATAA	39956
6331	TCTTATCCTGTACCTCCCATGCTT	17989	CCAGACCAAAATCAAACCTCAAGAGCAA	28973	CACCATCTGCCTTGATCTTATCCTGTA	39957
6332	GGGTGATGCGCTCTTCCAAA	17990	GGAGTGTCTCAAACCTCCCAAA	28974	CCTGTACCAGGTCTGGGTGATG	39958
6333	TGCCACCTATTTCCCAAGTGT	17991	CCGCATTAGGCCTAGTCTCTGTTT	28975	GACCTGGGTCAAATGCCACCTA	39959
6334	CGTTGTGTACAACAAGAGGAGAGAAG	17992	GCTCTTAGGTCTGGGCTCCCTAA	28976	CCCCTGTGCTCAGTGTGTGT	39960
6335	CCTACACCTGCTTCTGTCTT	17993	GCCTGCCTGGAATCTCAGTCT	28977	CAGAGCTTCCCTACACTGCTT	39961
6336	CTGTCACTGACCATTTGGAGTTTTG	17994	CCTGTGTTGCTTGACTTTTCTT	28978	GGTTATGCCTGTCACTGACCATT	39962
6337	GGTGGGGAGGTGAGATTTTGTGATG	17995	TCAGGAAGGTCTGCTCAATGTAAG	28979	ATCAAGGTGGGGAGGTGAGAT	39963
6338	TCCGTTTGGGCTCACCTCAGT	17996	GGGATGCCAAAGTGACATACGAA	28980	GCAAGCAGGCTGTCTCCGTTT	39964
6339	GGCTGTTTTTCTCAGGGGAATAAG	17997	CGTATATCTTCCCGCCATAGGTTGA	28981	AAGGGGCTGGCTGGTTTTCT	39965
6340	CGCATCCATTACACCTGGGACATT	17998	CCCCTTACGCAAACTACCTTGTA	28982	CTCTAGAGATCCCGCATCCAT	39966
6341	TTCAAGTCTTGGCTTAAATGTCAAC	17999	TGAGTGGGGCTGTCAGGAAAAAC	28983	CACCACTGACATCATTTTTCAGGTCTTG	39967
6342	GTTGGGCAGTGACTTGCTTTTTT	18000	GGAAGGGTGAGGGGAGATACTGA	28984	ACATCACTTGTGGGCAGTGA	39968
6343	GTGTCCGAAAAGAGAGCAAGGAGTT	18001	GCAGGGAGTAGCAGCAAGTT	28985	TCAGGCCCTGTGTCGGAAGA	39969
6344	GCAGGGAAACAGGCGAATGTGTA	18002	AGGGGCCACTCCCGTAGATAAA	28986	ACACTCCAGGTAGCAGGGGAACA	39970
6345	CAGCAATTACGCCCCAGTGT	18003	GGCCAGCTGGTCTGCAAATAAC	28987	GCTCTGCAAGGCAGCAATTC	39971
6346	GGCTAGTCTCTGTGGAGTTGAAG	18004	TTGGAACACTTAGGGAACCCCAACA	28988	GGGAGAATGGCTAGTCTCTGT	39972
6347	GCTGGGGTTTGAACCTCAGGTCTGT	18005	GGTCACAGCAGTCAGCACAAAT	28989	GCAGAGCTGGGGTTTGAAT	39973
6348	GTGCTGAATGCTGTTCTCAGAGTTTG	18006	TGATGGGCAATCACTCCACACA	28990	GCCTTAGTGCTGAATGCTGTTT	39974
6349	CGAGGACCATCCAGTTTTTCCAAAG	18007	CATCAGCGCAATCAGGTTGAAAG	28991	TCCACGAGGACCATCCAGTT	39975
6350	GGAATGCCTGGGATGATTACTAAGAGA	18008	GCCGATCCAAGTTGCCATCCTT	28992	CCTGCTTAGGAATGCCTGGGATGA	39976
6351	GTCCCTCCTAATCCAGATACTACA	18009	GGGGAAGACAGGTGTCTGAATG	28993	CATTGCCCTTAAGTCCTCCTAATC	39977
6352	GGTGCTCTGAGGATCCAATGGTA	18010	CCTCGGTTGCTGTTTCAAGATT	28994	GAAGTTGTGGTGCTCTGAGGAT	39978
6353	CTCCAGGAAACACAGCAATGA	18011	CATGACACTGCAGGACTGAAGAAG	28995	AACCAAGTGCTCTCCAGGAA	39979
6354	GCAAAAGGATGTGAGCAGAGCAT	18012	GGAGGTACACACTTCCCGAAAAAC	28996	GGATCCTGGCAAAAGGATGTGA	39980
6355	TCTCTGACTCCCAATCCCTAAC	18013	CCTGTGCTTCTGAGCTCTT	28997	CCTGGGCCACTTCTCTGACT	39981
6356	GTGGTGGGTGTGATGAGGACAAG	18014	GAGCCCAAGTGAAGCAGGAAATG	28998	GTAATGCTGGTGTGGGTTGA	39982
6357	CACCCAGCCGATTTAGGGTAAT	18015	CCAGCGCTCATTTGACAATTCAAA	28999	CCTGCACCCAGCCGATT	39983
6358	CCCAATGTCAAGTTAAGCAAGTTTCTTA	18016	AAACCCCTTCCATCCGAGAATC	29000	GGAGCCTTCTCCCAATGTGAGT	39984
6359	CCATACAACCTTGTGGGATACAATCT	18017	ACCCATTTCCAAGGTCCAGGTA	29001	GCCACAGCCTGGAACATCCAT	39985
6360	CACATGCAAATGCAAACCTGCAGAAAG	18018	CCTCTGCCATTTGTAACTCTCTA	29002	GGCAGGTGTGCTGAACTGGTTA	39986
6361	GCATCATTTCCCTGTGGCGAGTT	18019	CCCAACAGAAGCAGGAGGATAGGAT	29003	CTTGCAACACACAGCATCATT	39987
6362	GCACATTATAAGGATCCTGGCTTTGA	18020	TGCAGCTGCCTCTTTCTGTT	29004	GGCCTCGCAGAACAGAGGTA	39988
6363	CAGTGGGAAGGAAATGGGACAGA	18021	CTGATGGTCAACAGCTCTCATAG	29005	CTGTTTGTACAGTGGGAAGGAA	39989
6364	TGTGGAAGAAGGATCCTCATGGTA	18022	CCAAAGCTTTTGCTTTGAAGCTACT	29006	TCTAGTCTCACTGTCTCCACTGT	39990
6365	GCCTGTAGATCCATTGGCCTTT	18023	CCCAAGACAGATTGACAAGTAGCTTAA	29007	GTGCTTGGTAATTAATGCCTGTAG	39991
6366	CCTCCAAACTTCTGAGAGAGATG	18024	GCCACGCTTCTGCCGTTAG	29008	CCCCACATGTCTCTCCAAACTTC	39992
6367	GAGCTGGGGAGACTTAGTCAGAT	18025	GGACCAGCCTTGGGGAAATG	29009	GAGGTGAGCTGGGGAGACT	39993

6368	GTTAGAGACTGGAAGATGCCATACA	18026	GATGTACACACCCACATGTAGCAA	29010	GACACACATCCTCAAGTTAGAGACT	39994
6369	CCTCTTGAGTCTTTACCTGTGTGT	18027	CTGGGTCCAATATGTGTACTGCTTCT	29011	CTGTTTTCCACCTCTTTGAGTCTTT	39995
6370	GCATTGGGTGCACGTTGAGA	18028	TCCTTTGCAACTCTGAGCTTTGT	29012	GCACGTGCGAGGCAATTG	39996
6371	CCGAAGATGGCAATGACGTTGA	18029	GACTGGTCAACTACTTGTGAGTGTT	29013	TTCCCGTCTGCTACCGGAAGATG	39997
6372	CGCAGGCTCTGGAATCTTTACT	18030	GCAGCTTCTTCCACAAAGCTAGA	29014	AGAACACGCGAGGCTCTGGAA	39998
6373	GACCTTGCCCAAAAAGTCAATGTTCT	18031	AACATTGCGGTGCAGCTATGTA	29015	GAACAATTAGACCTTGCCCAAAA	39999
6374	TGGGTCTCAAGTGCCCAAAA	18032	ACCTCCCATTTGCCACTCGAT	29016	CCTCCTTCTTTGGGTCTCAAG	40000
6375	GTGGGGATTATCTGGGAGTGTGA	18033	GACTAGGAAGTGTCTCTCTCTGA	29017	AGAGCTGAGCAGTGGGGATT	40001
6376	GGGCAAATAGCTCCTTCGATCCTA	18034	TCTTGGACAAGGCATGTTTTGATG	29018	CTGCTAGGTTTCCAAGGGCAAA	40002
6377	GGGCAGGTATGAGGCTGACA	18035	CCTGACCACATGCCTTCATATCTCA	29019	GGGAGCAAATGGGGCAGGTAT	40003
6378	GGCTATGGCTTCACTCCATCTTTC	18036	GACTGTTTGTTCAGCCTAAGTCTAGA	29020	GCAGGTGGCTATGGCTTCACT	40004
6379	GTTGAAGTTCCTGCAATTTACA	18037	GGCTGACCTCTCTCCTGTGTT	29021	GTTTGGGACAAGCTGAGTTGAAG	40005
6380	GACCCTGCAGTAGTACTTTTGTCT	18038	AGCTCATCAAAATTCACCTGTGTCT	29022	TCATGGATAATTGACCTGCAGTAG	40006
6381	GCCTCATGTAACTCTCTGGGTATGA	18039	AGTCATGAGACCTATTGCTACCCCTTA	29023	GCAGATACTGCCTCATGTAATCT	40007
6382	CCAATGCCTCAATTTCTCCAGGAAAC	18040	TGCCTAGCCTGGAGCATGAA	29024	GACTCAGCCAATGCCTCAATTTCT	40008
6383	TGATGCTTCTAGTCCACAGACTTTC	18041	GCTTGGGCTGTGGTTTTCTCTA	29025	AGCTCCAGATGATGCTTCTAGT	40009
6384	GGTGGCTGGAAGTTTGTGAAGA	18042	CCACTCACCACCTCTCACCAGAT	29026	GCAGTGTGGTGGCTGGAA	40010
6385	TGTTTGTCACTAGCTGGAAATGCTT	18043	TACCCATTATCTTGGACCTTTTC	29027	GGGGAGGGTGTGTGTCATCAGT	40011
6386	GGAACCGCATTTAGGTCGTGTTG	18044	CGCGTTTTGCCGGGAGATG	29028	GAGATGCACGGAACCGCATT	40012
6387	CTGAACCACTAAAAACAGGTGGTGTG	18045	GGGATATGAATTGCCTCTTCCACATA	29029	AGCAGCTGAACCACTAAAAAC	40013
6388	GGGCCCCATAGCTTGCAAAT	18046	GGAACCTTTGTCATGACTCTCACA	29030	GGAAGGGAGCCCTGTGAAT	40014
6389	CCCTGCTTTTCTAAGGGCAGATTT	18047	GGAGAAGCAGTTTCCAAGACATGA	29031	AGTGGGATCCCTGCTTTTCTTA	40015
6390	GCCCGGTGCTTTGTTTTACTGTGA	18048	AGGAAGAGGACTTTGTCTTTCAACT	29032	TCTGCCGGTGCTTTGTT	40016
6391	GGGTCATGGTTTCAAGGAAATGGATTG	18049	GCTACAAGCTCTACTCCACTCAGAT	29033	CTCAACTGGGGTCATGGTTTCAAG	40017
6392	GGCTATGGGAGAAACAGTACCATGT	18050	CCAGAAGGCCATGTATGCTCTGAA	29034	CCGTGAATCCTGGCTATGGGAGAA	40018
6393	CCTGCCCTGTAGTCTTCTGTCT	18051	GAGGGAAAAGGGAACATTTCAAGTAT	29035	AAAGGCTCCCTGCCCTGTAGT	40019
6394	CTGGCCTGTGTTTTAGGCCATTT	18052	ACTCAAGGCCTGGGTTCAAG	29036	ACCCACCCACCTTTCTCT	40020
6395	GGAAAGACAGTTAAGGCTGGCTCTA	18053	GCCCAAGGCAGACCACTCTA	29037	CCCTGCTAAGGGAGGAAAGACAGT	40021
6396	GGGAGTAGGTGCTTCTTGCTA	18054	GGCTGAGGTTGAGAGAAGAGAAAA	29038	GTATCTCCAGATCTAGGGAGTAGGTT	40022
6397	CCTGAAGAAGCGGATGACCCATT	18055	GGTGAAGAAGACTTAGGAGTGACAT	29039	CCTCGAAAGCACCTGAAGA	40023
6398	CTCACCTGCTTGTGATTCTCCTTA	18056	CTCTATCTCAGCTTTGGAGGCAACA	29040	GGTTAGGATCTCACCTGCTTGTGTTG	40024
6399	GCGGAATTCAAGTCAGACAGTGAAC	18057	TGAAGCCAAAGTCTATAAGGACGTTT	29041	TCCCGCGGAATTCAGTCA	40025
6400	ACACAGGCTGAAGGAAATGATGT	18058	CCCTGGTGAATCTGTTTTCCATCAAA	29042	GTGCATGAAACACAGGCTGAAG	40026
6401	CGGTTATCAGCCAGAAGGGGTTT	18059	CCCCACCAGCTGTTTCTGACA	29043	CCCTGCCGAATTTGCGGTTATC	40027
6402	GGGTGGATGGAAGGGATGTGA	18060	CTCAGAATCTGTTGGGAATGATTTCTCCAT	29044	CCTCAGGGTATTGAGGGTGGAT	40028
6403	GTACCAACCCGTAAGTTCCTTAG	18061	GTCACTCAGGAAATGGGTTGAACA	29045	GCTTTTCTGAGTACCAACCTCGTA	40029
6404	GCACCAAGACACGACCAAA	18062	CCAGCTGGTGCCTTCAACAGT	29046	ACTGCTGAATCCAAGCACCAA	40030
6405	GCCCTTGGCTTATTTTCCCTTTC	18063	GGAAAAAGTCACCTGGCAGTTTTG	29047	GCTCCTACAGCCCTTGGCTTAT	40031
6406	GGGCTCCCTATTTTCCAAGATCAGA	18064	GGTGGGAACAGATATTTCTGGTGAA	29048	AGAAGTACAAGGGCTCCCTATTTTC	40032
6407	GTTGCCCTGAGATGTTCACTGT	18065	CAGTAAGCACTGTAACACCCCTCTCA	29049	GGGGCATCATAGTTGCCCTGAGAT	40033
6408	GGCACAAGTGAGCTGAGTTTCAGA	18066	GTAGCTCTAAACACACAAGTACCAT	29050	AGGAGGACTTGGTAGGCACAAG	40034
6409	GCTAGGAGGTCCGAATCTTTTGAAC	18067	CCTCACACCATAGTCTTTCTCTA	29051	GGAGAAGCTAGGAGGTCCGAAT	40035
6410	TGCCCTTGAAAGACTACAGA	18068	TTGTGGTCCCAACAGGGTATATTT	29052	CAGCTTGTGTTGCCCTGGAA	40036
6411	GGGAAGTTCAAATGCTGAGCTTGTAG	18069	CCCAGCCACTCTCAATGGAATA	29053	CCCCAAGCTAAGCATGGGAAGT	40037
6412	CAAACCACTATGCTACCATTTCTAC	18070	GTGGAAAGTCCTAAGCCCTCTTAG	29054	CCACTGCTTAGACCAACCACTATG	40038
6413	GCAACAGGAGATTTTGGTTGTTG	18071	GTGCTAGTCAAGCAAGGAATACAT	29055	GTGTTACTGAAGTGCAACAGGAGAT	40039
6414	TGTGTACGTTTTAGGCTGCTT	18072	TCAGGAAGCCATGGTTTTTGAGAT	29056	GCTTGCTCAAGTACATTGTGTGAGTT	40040
6415	AGGCCACAAAGCCTCACATC	18073	GTGTTTAGGATTGAGAAAGAGCTGAGT	29057	AACAAGCCCAGGCCACAAAG	40041
6416	AACAGGAGTAGCAGAAAGGCCAAA	18074	GGCTGCAGAGATGATACCTGAGCTT	29058	TGGGGTATGTCTATGAACAGGAGTAG	40042
6417	CAGCAGCTTAAACAACCATGAGAAAT	18075	CCAGGTGAGATTTTCTTGTCACT	29059	GACAGTGAATCAGCAGCTTAAACAAC	40043
6418	CCTTCATCATTGGTAGCCTAGCTGTA	18076	ACTTGGTGTAGGGGCTGAGT	29060	GCCAGTGTGGTTGTGTCTCTT	40044
6419	GTCAACCCGAATAGCTCCTTCT	18077	ACAAAAGGAGAGGTAACCCCTGTTT	29061	CCCAGAACTTGTCAACCCGAAT	40045
6420	CCCCACATCAGAGGGCTTTAGA	18078	AACCAAGTATAGCCTGGCAACAA	29062	CCCCTCAACCCACATCACA	40046
6421	TCCGCTCAAGCGTCCAAGT	18079	GTTACCCCATGACAGCAAAATCAAG	29063	GACTTATCATTTCACTCCGCTCAAG	40047
6422	CCTGGAATGGTTTTATCTGACAGGTT	18080	CGCCACCCAGACTTATTCTCA	29064	CTCCAATTCATCCTGGAATGGTT	40048
6423	GGCCCTGACTTTTGTCTCAAGAT	18081	TGCTGCTGGCTTCTCTCT	29065	TGGGCTTGGCCCTGACTTTG	40049
6424	CAGGCGTTATCAACTTTCCCACTT	18082	CATAAACACTCTTTGCCTCAGTCT	29066	CGGAGGATGACACAGGCGTTA	40050
6425	CCCTCTGAATCACTCTCTGCTCTTCA	18083	TGGAGACATCCGCCCATATCA	29067	GCCCACTTGTGTCCCTCTGAAT	40051
6426	GCTGTCTTCTTAACACCCAGTCT	18084	GGTCTGAGGACCTGGGTTTTCTT	29068	TCTGGGTTGCTGTCTTCTTAAC	40052
6427	CAGGCATGGTCAGAAGGGTTAAG	18085	CAGGAGGTAACACCATCCCTGAT	29069	CAGATTACAGGACATGGTCAGA	40053
6428	GATGCTCTTAGGCATGGGAAGT	18086	GGGGTGAGACCCATGAGTGACATT	29070	GCTTACATTCCTGTGATGCTCTTAG	40054
6429	TGTGTGTTTCTGCTCCTTCTT	18087	CCACTAGTTTATCCACCTGTGTAAC	29071	CCAGGTTTTGTGTGTGTGTGT	40055
6430	TTTTTCTGTGCTGCTGACTCACA	18088	ACCCAGACAAAGCTCTCATCTGT	29072	GCCCAACAGTGTCTTCTGTT	40056
6431	GGGGCTGTTAAATAGAATCCACTCCTTG	18089	TGCGAGTGGCAGTGCTTAG	29073	CCAAGCTCACTGGGGCTGTGA	40057
6432	GGCTTCTGTGAGGCGCATGTT	18090	GCATTAGTGACAGGATCCAGGAA	29074	TGGGACTTCAGGCTTCTGTGA	40058

6433	GGGGTGGAACGTTGGAAGCTA	18091	CCGATGCGTGACAGGTTTGA	29075	AAGGGCTGGTGGGGTGGA	40059
6434	GGACACTGTGAGTTACTGAGGT	18092	GTCTAGAGACAATGGTTCTCACTGATG	29076	GGTGATTGGACACTGTGAGGTT	40060
6435	CCGCCTCCTTACATTCCACTAC	18093	TTGGATGTGGTGTGAGAGAAG	29077	CTGATAAGTCCAACCGCTCCTT	40061
6436	GTACACAGGCTAAGGGTCTGAAG	18094	CTGGGCCTCCATTGTTTGTCA	29078	GAGGCAATGAGTCAACAGGCTAA	40062
6437	GTCGAGCTAAGAAGGTGTGGA	18095	GTTTCATCCGTTTTTCCCTGTAGTT	29079	GCCTGTCGAGCTAAGAAGGTT	40063
6438	CTGCGTCTGAATGGAGATGTGCTA	18096	TGGAGGGACCGTCTTGGAGTT	29080	CACGTAAAAATGCTGCGTCTGA	40064
6439	TTTGATACAATCTGTGTGGGATGA	18097	GGACTGGTCTGTGCTGGTGATAC	29081	CTACCCAGTTTCTTGGCTTT	40065
6440	GGAAGGGATCTGAAGAAGGGGCTA	18098	GTAAGTCGTGAAGTTAAGGTACCTAGT	29082	GGCGTTGGTGTGTTGAAGGGATCT	40066
6441	CCAGTCTCACTCACCCAGATAGT	18099	CTGGAGGAATCGCAGACAGTTTCA	29083	TGATGCCAGTCTCACTCACA	40067
6442	GGGCATCTGAATTGCTCTGGGAAT	18100	CTCATTAAGAGGTGAGGACAGGTAA	29084	GCAGCAACTAGGGGCATCTGAA	40068
6443	GGTCTCATTAAATTCATCCTCCATCA	18101	GGGTCCAACCTGCTTATTCTGTGTG	29085	AAGGCTCTGGTCTCATTAATTCAT	40069
6444	GGGTGGGCATAAATTTGCTCTTC	18102	CTCATACATTAGGGCTGTGTGTTCA	29086	TCTTGGTTTACTAGGGGTGGCATA	40070
6445	CCTCCAGTTACCATTTTGAACCTCTT	18103	CTTCTTGGCCTTGTGGGACTA	29087	GGAAAAGATAGCTTTGATACCTCCAGTTAC	40071
6446	GGTGACTGGCAGCTCTTAGTGGAA	18104	GTGCTCTTCAGGGAGGGTGAATC	29088	TTCTGGAGGTCTGGTGACT	40072
6447	GCACCTCACTTGCCTTACCTT	18105	AGGAGACTGCAGTGGGAGAAA	29089	ACATCAGAGATAAGCACCTCACTTG	40073
6448	GCTTCTGAGAGGGCTACAGTTG	18106	TGTTGCTGATGGGACATTGAGTAT	29090	CAGCTACCACCAAGTGCTCTGA	40074
6449	CACACTCTGGGCAATGGTGTT	18107	GGAGGCTGAAGTCACTGGTTCAA	29091	GTGTGAAGTAGCACACACTCT	40075
6450	CACTCCTGAATCCTCTCCCTAACAA	18108	GGACGGGTACACAGCAACTTG	29092	CCATTCTTCCCCACTCTGTAAT	40076
6451	GCACCTCAATTGAGCATGTCCAAA	18109	GAGGACTTAGGTTTAGGGTGAATG	29093	GGGGTTTCTAAGGCACTTCAATTC	40077
6452	CATGCAGATTCATAGCCACTCCTAGA	18110	CCCACTCCTACAGCTGGTCTTC	29094	GGGACAAAGTCTTTACATGCAGATTG	40078
6453	GGGCAGATTTTGTATGTAGGTTCTTAG	18111	CCAGTCTTCTATGGGTCTCCAGTT	29095	GGTTAGGATTGAGTTGGGCAGATT	40079
6454	CAAGCATCTACATCCCTTCCAGAGA	18112	GGACACCACCTGTAACCTCTGA	29096	CCCCCACTCAAGCATCTACATC	40080
6455	ACAGACAGAAAGCATGGTCTTAGGTA	18113	GGGGTGATGGTAAGGAGGTTTAC	29097	TTGGAGAACTTACAGACAGAAGCAT	40081
6456	CCACGAACCTGTCTTTGCCATT	18114	CCCCGAAACTGCATGTCACATTAC	29098	AGGCACACCAGAACCTTGT	40082
6457	GGAGCAGTGGAAAAATCCACATC	18115	GGGCTGGTTGTTTAGAGGTTCAA	29099	GGATTGCACAAGGAGCAGTGGAA	40083
6458	GCACAGCTTTTCTCGGTGTT	18116	GGAGCAACAGGAATCATCTGGAA	29100	TGGGAGAGGGCACAGCTTTT	40084
6459	GGTACCCAGGATATGCAAGTCTTC	18117	GAACAGTGGGATTCTTCTTACATCAA	29101	TCTGAAGATTTGGTACCCAGGAT	40085
6460	GGTCACCACATTATTTCCGTCTTATCTCTT	18118	GGAGCAGAGCAGTTGGCTTCA	29102	CTCATACCTCTTGGTCAACCAT	40086
6461	GGGGAGCTTTGCCATCACATCT	18119	CCTTCCATAGGCTCCAGTATCCAA	29103	AAGCGAACTGGGGAGCTTTG	40087
6462	AGCCAAGACACATAGAGCAA	18120	CTGATTAGACCTCGATGGATACAGATA	29104	CGTTGCTCTTAAAGCCAAAGACACA	40088
6463	CCAGGTTCCCTGCTGGAAGTAT	18121	CCCAGAACTGAGAGGGAGATGAAC	29105	TGGCTGGGTTGCCAGGTT	40089
6464	GCATTGTGTGGGTTTGGTTTCT	18122	CTGAGAAACCCCACTATACCTACA	29106	CCTGGAGGCTGGCATTGTGT	40090
6465	CCTCCGACCAGATTGAGAAGTTG	18123	GGGTGGGATCAATAAGAGGAAAG	29107	GCTACAAGTTAAATCTCCGACCAGAT	40091
6466	GGAACACCTCTGGGCACTTG	18124	CTGGCACAAGCATCACTGTCA	29108	CCAGCTCCAACACAGGAACA	40092
6467	GCAAACTGGCAGGAGTTGGAATG	18125	CACTGCTTGTACTTGGTCCCTTTG	29109	GCTTCAAATGCTTCTGCAAACT	40093
6468	GGGTTTCGCTGTTAAGAAAGGACCAAA	18126	CGAAGATTCACTGCGTGCACTTCT	29110	CGGAGTGTGAGGTTTCGCTGTTA	40094
6469	GGGAAGCTATCTCTCAAGCATTACT	18127	CAGTCCGCTCTTCTTCTCTT	29111	TGCCTATTCTATGGGAAGCTATCTCT	40095
6470	GCCACATAAACATAGCCACAGAGGAT	18128	GGGACACCGCTCATTTGGAA	29112	ACAGCCAGAATGCCACATAAACA	40096
6471	GTGTGGGGTCTTCTATGATCACT	18129	TGCCAGCCAGACTGCCTAA	29113	TGCAGGGAATGGGGTAAGGAA	40097
6472	ACCTGACCTTCTGCTGTTTGG	18130	CCATAATTCAAATCCAGCCTCAGGAATG	29114	CTTTGAGGCTAGAAAACCTGACCTT	40098
6473	GAGGGAGGACTTGATCATGAGGT	18131	CCCATACTGATGCAGTGCTAGAGAT	29115	TGTCCTTGAGGGAGGACTTGA	40099
6474	TCATCTGTGAGCAATCCTGCTT	18132	CTCGGTGACAAATTTGGTGAAGATGTTAG	29116	GTCCTCTAAGCTTCTATCTGTGA	40100
6475	GCGTGAACAGTTAGGGACCTT	18133	AGGGCCAAGGCTACCAGTGAA	29117	TTTCTCTTTGGAGCGTGAACA	40101
6476	CCAGGTGCGCTCAATCCCATTT	18134	GGGGACTGGAAGTCATTTCTGATG	29118	GCAACCTGAATGCCCTCTCCTT	40102
6477	GCATTACAGGACAAAGACCATTAG	18135	GGTGTCAATGGTGCTCACA	29119	GCTCAATGCATTACAGGACAAA	40103
6478	TGACAGCTCCACCATTAATTACTGA	18136	GGTACTTCTCTTATGAGGATGCTACA	29120	GGGTGTAATGACAGCTCCACAT	40104
6479	CCTGTTGATAAGGCCAGGACAAAA	18137	CGTGTTTCCAGCAGGTGTGT	29121	CCCTTTCACCTCCACCTGTTGAT	40105
6480	TGGGCAGCCATAGCTGAAAGT	18138	GGGGACACAATACTGATGGATAC	29122	TGCCAGTGGCAGCCATA	40106
6481	CAGTCTGTTACAGTCTCAGTCA	18139	AGGTGAGAAGCAGGGCAAAG	29123	TGGACTTCCCAGCTCGTT	40107
6482	CCCTGCTTCTCTGTGTCATTG	18140	CCCATGCATGCAGACACTCTTTC	29124	GGCAACATCCCCTGCTTCTCT	40108
6483	TCCCACTTTGGTGAGACAGGAA	18141	CTGGAGAAAGACATTGCTCCCATCA	29125	TGCATAGCTCCTTATCCCACTTG	40109
6484	GGCAGTAGTAGGGTGCTGATTC	18142	GACCTGGACATAAGAAGGAAGTTCT	29126	TCGTGGGCAAGGCAGTAGTA	40110
6485	GGTTGCCATAGTCTCTCTCAA	18143	CCAACAGGAATAGAACTCCACATC	29127	CCTGGGAACCTTCTGTTGGCATAG	40111
6486	CACAGTGCTGTCTTAAGAATGTGT	18144	GAGCATCAAGTCCCATGTTCA	29128	CAATTAAGCATCAGAGTGTCTGCTTA	40112
6487	GTGGGCCACTTGCTCTTT	18145	GACCACTGACAAATGCGTGAAG	29129	TGTCAGCTGCGGTGAGT	40113
6488	GCTCTGATCTGAGAGAGAAAGTGTG	18146	TCCGCTAGTGCTCCTCTGTATG	29130	GCCAGTGGCTCCTGATCTGA	40114
6489	GTGGTGAAGTGGATTCTCTCTGAT	18147	GGGTGCTCCAATGCCTGAA	29131	GCTCCCCTGAGATTGTGGTGAA	40115
6490	GCCTCAAGGCCTAAGAAATATCAGT	18148	CCTCAGCTGACATTGTGTAATGCTA	29132	TCTTCAATTGCCTCAAGGCCTAA	40116
6491	GCCCTCTCTCTTACATGGATAAC	18149	CCATGCCCGGCTGTTTGA	29133	CCAAGTAATTCTGCCCTCTCTCT	40117
6492	CGCAACCAACACCTTATTACTAGAGA	18150	CCTTTAGGGAGCATCGGGAATC	29134	CCCTCGCAACCAACACCTTTA	40118
6493	GGAAAGTCTATTGTTTGAAGGAAAGCCAACAT	18151	GCACAAGCAGCAACATTTCTT	29135	TGGTGTTCGGAAGTCTATGTTGA	40119
6494	CAGGTGTAGGTAAAAATGGGGTCAGA	18152	TTGTCATACCATGCCGTTCTGA	29136	GCTGAGTAGAATAGCTCAGGTGTAGGTA	40120
6495	GCCCATCCCATTTAGGATCACA	18153	GCTGGAAAAAGGCAACCTACTCT	29137	TCCACAGCCCATCCCATTT	40121
6496	GCTAATCTTACAGGAGAGTATGGGAAAC	18154	GGACAGCACTGAAGGACAAGGAGTA	29138	GAAGGCTGTCAAACCTGTAATCTTAC	40122
6497	GTGAGCCATTGAGACTGGAAAAA	18155	TGAGATGGTCACATCCTGTTCTCTAA	29139	GGAGCATGTAAGCTAGTGAGCCATT	40123

6498	GGTCCGCTCTATGTCCTATTCCAA	18156	CTCCCTGTCAAAACTTCCTCTTGA	29140	ATGCGGAGGTCCTGCTCTATGT	40124
6499	GGTAGGCTTAGCCGTGTTCT	18157	GCCTGACACCTGAATTTCTACCTTGT	29141	TCAGGAGTCCAGGTGAGGCTTA	40125
6500	GCAGCCCTCTACTGTTTATGGAA	18158	CCTTCTGGCCCTAACAGGTTCT	29142	AGCTGTTGCAGCCCTCTACT	40126
6501	ACTGCCGTGGAAACATCAAGT	18159	CTGTCAACCAAGCCACCATCA	29143	GGATAGTGGAAACTGCCGTGGAA	40127
6502	GACCACCTAGGGGATCAAGGAA	18160	CCTAGGAGATGCTTTAAGGATGATG	29144	AGGCTTGAAGATATGACCACCTA	40128
6503	TTTCACTACTGCTGTAGGTATGCTT	18161	GGCTCTGGACAAGGAAGACAGA	29145	CCAGAGCTGTAGCATTTTCTACT	40129
6504	CCACACTCTCAAGATCCTGTTGGTTA	18162	GAGGCTCTGCAGAATGTTCTTAA	29146	AGGCTGTACCACACTCTCAAG	40130
6505	GTGTCAGACATGGCGGCAAT	18163	GCGGCTGCACAATTAGAGTAGAGA	29147	GTCCCCAGGAGGTGTGAGA	40131
6506	GTGAGTGCTCTATCTGGAAGGAT	18164	CTCAAAGGCCAGGTCTATCTGATG	29148	TCACTGGAGTGAGTGCTCTAT	40132
6507	GTTGGATGCCTAATGATTTCCCTTCA	18165	TCCTCTCTCAAACAAGGGATATTTTG	29149	GCCAAAGCAGCACTGTAAGTTG	40133
6508	GGTGGGATGCTTTACGCAGAGA	18166	GGGAGACTGCATGTATTTCTGTCTGT	29150	GGAGCCAGGTGGGATGCTTT	40134
6509	GGGGTTCTGTTTTCTCCATTCTTC	18167	GTGATGGGCTGAATCCAGTATTATG	29151	CCATGACCTGTGGGGTCTGT	40135
6510	CCTGGCCATCAAAGTGGGACTTC	18168	AGGAGCCCATACATGGGGAAT	29152	AGGCCACTCTGGCCATCAA	40136
6511	GAAGAACACCATTTGGATCAGAAAC	18169	CTGGGCTTGTGGCCATTAT	29153	GGAGAAACCGTGGGCAGAGAA	40137
6512	GCCACTCTGGGCTGATACATT	18170	GCACTGAATCCCTGCAAACT	29154	GCCAGATGATCAAGCCACTCT	40138
6513	CTCCATCTCTCTCAGAACCTCAGTT	18171	CTCATCTGGTCCAAGCTTCTGT	29155	CTGGAGCTCCATCTCTCTCA	40139
6514	GAGACGCTCTCCCATATCCAGTCTA	18172	GGCATGTACACACTCTACAT	29156	CACGGAGACGCTCTCCATA	40140
6515	CCGTGGCAGGTAGCTTACTGAAG	18173	GACTCTGCTTTACGGATGGGATT	29157	AGAGAAACCGTGGGCAGAGAA	40141
6516	GCCAAGACTAATCCTGATGGAGTGAT	18174	CCTCAAGGGACCAATTGAAGA	29158	TGGTCAAGGACTGCCAAGACTA	40142
6517	GGAGAGTAGGGATTTTACCTTTGCATT	18175	TCCGTTTTAGGGCTGGGATA	29159	AGCACAAGGAGAGTAGGGATTTTAC	40143
6518	GTTTCACGAACCTAAATGTGGTGAT	18176	GGAGGCGAGAGTCTTCTCTTTTG	29160	GTTTCCAGGAGTTTACGAACCTAA	40144
6519	CCCAGCTCCATGGCAAACAT	18177	CCCTCTGGTGTCTTCCAGAAA	29161	AAGACTGTGGCCAGCTCCAT	40145
6520	AGGGCCAGGTAGCTTACTGAAG	18178	GACTCTGCTTTACGGATGGGATT	29162	AAGTGGTGGGAAGGGCCAGGTA	40146
6521	CCGCAGTGTCCACCTCAGT	18179	AGGCTGAGGACTAGGCTCTGAT	29163	AACCTCACAACCCGAGTGT	40147
6522	ACAGGTACAGCCATCTCAAAAAGTAG	18180	TCCCTGGTACACCTTTACACAAATC	29164	ACAGAGAACAGGTACAGCCACT	40148
6523	GCCACTGGGAGATGTGCATAAAC	18181	ACAGCTAGGCCCTGGGAAGAT	29165	TCAGCTAGCCACTGGGAGATGT	40149
6524	AAGAGAGCTTGGGTAGACAGTTTC	18182	GGAGGAGGTGGTGACACAAAT	29166	CGTGTGCTAATGAGGAAAGAGAGCTT	40150
6525	GGCCTTTGACGCTGGAGTTT	18183	TGGAGCTGAGACCTGCTGGAT	29167	TCTAATGGGGCAGGGCCTTTG	40151
6526	TCTCAGTCCCAGGATTCTGT	18184	GAGGAAAAACACAGGGTGAGGGTTT	29168	CCACTCTCTCTCACCTCTTTCT	40152
6527	GGTGGGAGTGATGGGTTAGTGA	18185	GCAGGACTGCCACCACCAAG	29169	ATGGCGCAGGTGCGGAGTGAT	40153
6528	GCCCAGGACTGATGACAGGTA	18186	TCCAGGCTCCAGGACTTT	29170	TGTTGGAGGCCAGGACTGA	40154
6529	CTCTGCACTTCTACCCAGGCAAT	18187	GCCTACTCACTCAAGACTCTGTCAA	29171	TCCCGAAATTCATCTCTGCACTT	40155
6530	GAGGACTATATGTGGGAGTGCTTGA	18188	GGGAACCAATTTCCGTGTGTTG	29172	TGATCTGATCTTGGATGTGAGGACTA	40156
6531	GTTGCCTCTTAAATGCTCTGCAAT	18189	GCACTCAGAGGAGGGGTGTGTTAT	29173	GTCCCTAACACCATGTTGCCCTT	40157
6532	CCTTTTCAGTGATACCCAGGATTCT	18190	ACATGGCAGGCTCCTTCACT	29174	GCTTCTGAGTGCTTCTTTTCAAGT	40158
6533	TCATGTGCCTCAGAAAGTCATTGT	18191	GTGTGTTAGATTCTTCCCTGACATTGTTT	29175	AATGGGATTATCATGTGCCTCAGAA	40159
6534	CAGATCCCTCTGCTGGTACAGA	18192	AGCATGGTCTGGAAGTGAGA	29176	TGGGGTAGTGAAGGATTGATTACAGA	40160
6535	GGCTTTAGTTGGGTGGCGTAGT	18193	GCATTATGCCAAGCTGACGTT	29177	GGTCAGGAACCAAGTTTAGGCTTTAG	40161
6536	CCCATAGCACAGACCAAGTTGGATGA	18194	AGGCACGCACCAACATGA	29178	GAAAGAGTACCCTATAGCACAGA	40162
6537	GCAGGGGTGTTTCTATTTTGGAT	18195	CAAAATACACCACTGGCCATAACT	29179	TTGTTTTGACGGGGTGGTTTC	40163
6538	CATCACTCTGCTCGAGTAGGTT	18196	GCCACCACACCAATCTCAT	29180	CTGCAGAGAAATCTGTCACTCTGT	40164
6539	CGAGAAGAAGTAAGCTGGGATACAGA	18197	GGTGACAGGTTAGTGATCGTGTGTT	29181	GGACAAGAACAAGTGCAGAGAAGAA	40165
6540	CTCTGGTGGTTTACTCATCTA	18198	GCCAAGAGCCAATGGCAAAAG	29182	CGGTTTTCTCTGGTGGTTTGA	40166
6541	GTCTCATCAACAGTCACTGTCA	18199	CGCTAGTTTATTCACGCCCTTCT	29183	CACGGCTGGATGTCTCATCAAC	40167
6542	GTTTTAAGAACCCAGTGAGTGACAAGA	18200	TCCACAACCCCATGTGTTAC	29184	CTGGGGTCCAGTAAGGAGTATGTTT	40168
6543	CTCACACCCCTGTGAAGCATTG	18201	CCAAAGCAAAAGCCCTTATGAAC	29185	CAAATTTCACTCTCACCCCTCTGT	40169
6544	GGGGCTAAGATTCTAACCCAGAGTTTGT	18202	GGATTCTTTCCAGTAACCAAGACAAT	29186	CCGGTGGGGCTAAGATTCTAAC	40170
6545	GGCAATAGACAGCATCTAGATCCAT	18203	CAAGTTGCTTTATTGCTGCTGCTT	29187	TACCGCAAGGCAATAGACAGCAT	40171
6546	CCAGCAGGAATGTTAGCACTCACCTA	18204	AGGTTACTTACAGTTGGAGGCTTAG	29188	GGCATAGCCAGCAGGAATGT	40172
6547	GGTCTGCAGCAGTTCTAGCTCTCA	18205	CGACACACGTCCACGAACACAA	29189	TCCTGGGGTCTGCAGCAGTT	40173
6548	GACCTCTCTGAAGATGTTTCTACTCT	18206	GGCAGCACTGTCTGCTGTGA	29190	GAGCAGACCCCTCTGAAGATGT	40174
6549	TTACATTGACAGCAGGGAACAGAT	18207	GGGCTGTGCATCTTAGGGTCAT	29191	GCTGAAGTGCAAGAGGATCGTA	40175
6550	CTGTGTCTCCAGTTTCAAGCAT	18208	CATGACCACTGTGACAAAACAAGACT	29192	CCTGGGATGGGAAACTGGTGTT	40176
6551	CCTGCCTGAAGGTCCCTCTCTTA	18209	GTGTGCTCTAAAGTGGTCTGTAAGTGA	29193	GTTAGTTAGTTCTCTCTGCTGGAAG	40177
6552	AGACCCAGACACTGAAGGAA	18210	GCCCCGAAACCTAGTCTTTCT	29194	CAAATTTGTGACTAGACCCAGACA	40178
6553	GGCTCAAGTCTGGAGGATT	18211	CAGGACGCAAGTGGGTTTCA	29195	GAGTTGTTTCTATTGGCTCAAGTCT	40179
6554	CTCTGGCCCTGGTAGTAAATGAGT	18212	ACAGCAGCCTTACATAACCTTTCA	29196	GCTCATGAAGTGTAGGCCCTTCT	40180
6555	GGACTTTCTTTACCCTCATCCCTTGT	18213	GGTTACAATATTGTCAGGAAGCCAAGA	29197	TTAGCCCAAGTACAGGACTTCTTT	40181
6556	GCACCTACCAGTTGTGAGAAACA	18214	GCCATTGCTTTTGCCTCAGTA	29198	CCACTAGATAACAATAGCACTACCAAGTTG	40182
6557	GACCAGTTCACTGTCCACTGTA	18215	CTGTTCTATTGGCCCTTTTGTATGA	29199	GCCCTGTAGGACCACTTCACTT	40183
6558	CCTGCTCATGGAAATGTGGTTGA	18216	GCAATATACTGAGAGTGACTTGGGTGATT	29200	CCACAGTTAAACCTGTCTATGGAA	40184
6559	CAGCGTCTTTTACGTACGTTTGTTC	18217	GGGGCTGCTTCCAGGTTTAT	29201	GCTCCTGATGAAATTTTTCAGCGTCTT	40185
6560	GGTGTACAGACATTTCTGGTACT	18218	GAGGTCTCTCCGTGGATTAAATAG	29202	AGCCGATTGGTGTGAGACATT	40186
6561	GTCAGATCAACCAATTTATGCTGAGA	18219	GCCAAGGTCTGATCACAAAATTCA	29203	GATGAGAAGAGTCAGATCAACCCATT	40187
6562	GGAGAAATGCTGTTGCAGACTCTA	18220	AGAGCTGGACCTAAAGCAAACA	29204	GGGCTATGAATTAAGGAGAAATGCTGTTG	40188

6563	GGGGCTGTAGGTGGCACAA	18221	GGGTCTGCATGATATGCTGGTA	29205	CACCTCTATGTGGGGCTGTAG	40189
6564	GAGAATAACCATGATGGAGGGGAAA	18222	TCACAGAGACTGGGTGCATCT	29206	GCTTAGGTGAAGGAGAAATAACCATGA	40190
6565	GGTTCGCCAGATCAAAGAATCGAAGA	18223	AGCAGAGAACAGAGTAAATGACCTATC	29207	TCAGAGGGTTCGCCAGATCAA	40191
6566	CTCTATGCCCCTTGCCCACTCT	18224	GATCTCTGGGAGTTGAGTTGTGA	29208	TGTCTCTCACTTACCTTGACTCTTA	40192
6567	CCTGTATTGGCTGCGTGAGT	18225	ACCAGGTGGCTGGGTGACAT	29209	GGACCAAACTGAGTAAACCTGTA	40193
6568	GGGTAGAGGGACTGGTCTACCAA	18226	ACTGACCCAGAGATTTTCATCT	29210	AGAGGCAGGGTTTGGGGTAGA	40194
6569	CCACTGTTTTCTCAGAGCTTCACTT	18227	TGGCCTGACTCTCCGATTG	29211	TTGACTCCATGTCCTACTGTTTTCT	40195
6570	GAGTTGATCCAGGATTCGGTATTTTG	18228	CCTGGGGTGCATTTGTGCTA	29212	TTGAGTGGGAGGAGAGTTGA	40196
6571	GCTTCTCCAGCATCACGTCTCT	18229	CCTCACTCAGGAAGAATGTGCTCTT	29213	CCAGATGACTGCTTCTCCAGCAT	40197
6572	GACGAGGTTTAATCACTAGCTGTGACATT	18230	GAACGTTTGGTAAGGCAGACATACA	29214	GGAAAGACAGAGGACGAGGTTT	40198
6573	ACCAGGGGAACTAAAGATGACAAG	18231	GGTGGGTAGCCATCTAGGCTTTTG	29215	GCTGGAACACGAGGGGAACT	40199
6574	GGGGAAGGCCTAACCTAAGGTGAT	18232	CCCAGGAACAGTAAAGCATCATTC	29216	TGCAGACATGGGGAAGGCCTAA	40200
6575	TTCTTGGTCTCCGAGGCATA	18233	TTCTGGGCTGCTTTTGACT	29217	GCCAAGATTGAGCAGCATTTCTCTT	40201
6576	AGATTATCTCTCGCTTGGATACCGATTCT	18234	GCAATTTCACTAGAGATGTGGGCTTCA	29218	ACAAACACTGTGCTACACTGAGAGA	40202
6577	GGTGGTGTTCGGCTGATCTT	18235	GCACGGTGATCACTAGGCTGTT	29219	TTGTCACGCTGGTGGTGTT	40203
6578	CGACTCTGAGCCAAAACCATAG	18236	CACACAGTCTGCTGAGTACA	29220	CCACTGGGAACGACTCTGA	40204
6579	GTGGGAGGATGACTTTGGAGCTATG	18237	CCACAGAGCTAGGAACTCGTGAA	29221	GGCAAGTACTATTCTGTTGGGAGGAT	40205
6580	TGATAAGTGCCCTCTGCAGGTTTT	18238	GCCTTCCCAGAGGAATGTTGT	29222	TTTGTACAGGGCTGGTACTATGATAAG	40206
6581	GGACTGAGTAGGGGATGGCTTGA	18239	CGACCAGCCCCATCCTGTTTTT	29223	GCTGAGGTTTTACATTGGGACTGA	40207
6582	GACCCGTTTAGTCTAACCTCAATC	18240	TGTAAGGCGAGGAGGACGAT	29224	GCTGCGGACCCGTTTAGT	40208
6583	GCCCTACTTTGGGACAAGAAC	18241	GCCCTAAAGATTAGGGTGAGCATGT	29225	GCTGCTTTATTAAAGCCCTACTT	40209
6584	GGATACAGAAGATGGGAGGCATAG	18242	CAGTCTTCTTTGCTCCTAACCA	29226	GTTAGCAGCTGACCTAGGATAC	40210
6585	TGTAAGTGGCGAAGAAACAGAAAAGT	18243	GAAATTCCTCTGACGTTCTTTCCAA	29227	AGAGAAGAATGTACTGGCGAAGAAA	40211
6586	CCGGAATAACAGGGCTTGGTATCT	18244	GCTTCCCCTCTCCCAACAA	29228	TGCCAAGGGCCGACTAACAA	40212
6587	GGCCTCCTGTGTTTACTTGTG	18245	CATGTGTCTGGACTGTGAGATGT	29229	AGTATCGGGCCTCTCTGTGT	40213
6588	CAGCCAGTGATTGTCCATCTTC	18246	AGCGGGTAGGCCATGATAGAGA	29230	GAGGCAAAATACAGCCAGTGA	40214
6589	CTCACCTGTCTTGAACCTTTGGTT	18247	GGCTGTAAACAGAGCATTTGGTA	29231	TGGGAGCCTCACCTGTCTTTG	40215
6590	CAGTGTGGGTAGAGGGCAAGAA	18248	GGAAAGGCTAGTATTGGGATTACAGACA	29232	CATTTCAAAGGCAGTGTGGGTAGA	40216
6591	TCCACTGGTCTATGGCCTGACA	18249	GCACCGGTGAAGAGCAAA	29233	CCTTCCACGTCATTCCACTGGTCTA	40217
6592	CCAGGGAAAGCTACTGATGTGGAATTA	18250	TGGGGAGGAGCCAGGATCT	29234	GGAATTGCCAGGGAAGCTACT	40218
6593	GCCAAGGACAGATGTGATCTGATGTA	18251	AGTCGTGCTGTGGGACAGT	29235	ACATAAGGCCAAGGACAGATGTGA	40219
6594	ACCTCTGCAAAACAAGGATTGA	18252	GCTGGAAGATTTCTGCTTTTGA	29236	GCAGCAGCCCGGTTAAA	40220
6595	CTCCTAACCCACAGAGGAGTCT	18253	TCTTTTCCCTCTCTGGGATCA	29237	GCCACAACTCCACTCCTAAC	40221
6596	GCTGGTTCGTCCTTATTCATC	18254	AGCCTTCAAGGAAAGAAAGGAA	29238	CCTTCTAGGCTCTAAGCTGGTT	40222
6597	GAAAGAGCCAGAAGACTCAGCAT	18255	GCTGGAAACAAAGAAAGCAGGAGAA	29239	TCCTGCACGTGAAGAAAGAAAG	40223
6598	GGCCCAATAGGTGCTGACCTT	18256	GCTGGGTTTCCCTCTAGCTGTT	29240	CCTCTCTGGAAGAACTGGCCCAATA	40224
6599	AGTTGAGAAGTGGGACATTTAAGGTATG	18257	AATAGCCATTGCCCTGAGCTT	29241	GTCCCTGGGGCAAAAGTTGAGA	40225
6600	CCAGTTTTGAGGATCACAGTGACA	18258	TGGAGTCCCAGCTGGTATAA	29242	GGAGCTTCTGGCATCCAGTT	40226
6601	GCACCAGGATGATGATGGGAGGTA	18259	GCCTGCAGCTGGCTCTCTA	29243	ACTATGGAGCACCAGGATGTATGA	40227
6602	CTGGAGACATCCACGCCATTCA	18260	GCCCTTAGAGTATACTGGGCTCTTC	29244	TCGACGACACCACTGGAGACA	40228
6603	CCCTTGAACTTGAGCCCTTTCCAA	18261	GTCAAAGCTGCAAAAGGGAGATAAC	29245	CTGCAGAGTGCCTTGAACCTTG	40229
6604	ACCTTCTCGGTGCTGTGATG	18262	TGTAAGGCTTTCTGGGATAGGAGAT	29246	GCTTTAGCTAGTGTGCTACCTT	40230
6605	GCGTGGAGATCTGGGCATTAAG	18263	CCACCCAGGATGTAAGGTACTCA	29247	AGCCAGCAGAGCGTGGAGAT	40231
6606	GCACTCACCCATCTTGAACCTTC	18264	GACGTGAGCATAGTATGGAT	29248	GGCAAAGCATCCACCATCTT	40232
6607	GCCACCATGATGGATGGCTATTCT	18265	GAGGCCAGTGCTGATCACTAA	29249	TGAGCCTGCCACCATGAGT	40233
6608	AGCTTCTGTGATGAGAGGACACT	18266	AGGGCAGCGGAATGAACCTTCT	29250	GGGGAGAAATTCAGCTTCTGTGA	40234
6609	TAGGAAGAACCAGGAGACTCA	18267	AGGTCCCAGGAGAAAGGATCT	29251	AGCCATATGTCTCTTGGAGGAAGAC	40235
6610	CCCATGCTACTCCTTTTCGTTCTA	18268	GCATGTGCCAAGTCTGTAAAC	29252	CCCCTACTCCCATGTCACTCCTT	40236
6611	GAGTCCCTGTGTGAAGAACCATCTTC	18269	CACAGCCTGTGCGCATTTCTA	29253	CCCTTGTGAAGAGTCCCTTGTGTAAG	40237
6612	GAGTCATGAGGTCTGTTTCATCT	18270	CCTACAGTTGATGCCAGGTGTTG	29254	CTCCCACTACTGGAATGAGT	40238
6613	CCCTCTGATTATGACATCTAGGGAACA	18271	CTGTGGAAGGGTATGCCTCAGAAG	29255	GCCACATTTCTACCTCTGATTATG	40239
6614	GCTCTTCGAGTCAATTTCTGGTCATTC	18272	GGGTGCTTTCTATGGGCAAAAG	29256	GATAGTAATGCAGCTCTTCGAGTCA	40240
6615	GGCCACAAGGCTGGTGTCTT	18273	CAAACGTATCAACCTAAAGTCCAGAAG	29257	GCCAGATTCAACTGGCCACAA	40241
6616	TGGGACCTGAACAAACAGGTA	18274	CAGCATAGATTGAGGTGGCATTTT	29258	ACAAACAACTGGGACCTGAACA	40242
6617	CCTGAGCGAGTTGAAGGAATTGTGT	18275	CTCCTGAGTTCTGCTTCGTT	29259	AATAGGACCTGAGCGAGTTGAAG	40243
6618	CCACGACGTTTGTCTTAGTAGGTA	18276	ACCACTGTCTTTTGGGTAAACT	29260	TCACCCAGCAGCTTGTCTT	40244
6619	GGCTAGTCCACTGCAGACTGA	18277	AAGCAAGACTGGGAGAGAGGTA	29261	CACACACACCCAGGCTAGT	40245
6620	GTGCCAACCTTGAGATGGTTA	18278	CTGGCTCCACCACTCACTAT	29262	TCCTAGCCTGTGCCAACCTT	40246
6621	CTGGGTCTGTGACCTGTCTGTA	18279	CCATTTAAGTGTGGGCTTGTGT	29263	GCACCTTAAGAGCTGGGTCTGT	40247
6622	CAAACCCCAAGTCTCGTTTTT	18280	TGGGACCTTCCACACCA	29264	TCCACACCAAACTCCCAAGT	40248
6623	CCCTCCTAATTTGGGTGCTGAA	18281	CAACCAAGGTTGAGAACTACTGAGTTTG	29265	AGGCTTCTTGCCCTCTCTAA	40249
6624	CCAATCTCAGAGCTAACCTGCTGTA	18282	GGGAATGGGACCTTGAGTTTCA	29266	TGTCTACCTCTGTCCACTTCT	40250
6625	CTGCAGATCGGACCGGATAC	18283	GGGAATTCGACGAATGGATGAAAG	29267	AGGGTGTGGGGCTGCAGAT	40251
6626	CAAGGTCTGCTTGTGTGTGATG	18284	GCAAGTGGAACTAAAGCTCAGAGATG	29268	CTGTGTCTGAGCAAGGTCTGCTT	40252
6627	GGACTGGAGTTTCTCAGAGTAGTTG	18285	CCAGAATCACTCACCAGAAAAATG	29269	CCAGCAGAGATGGACTGGAGTTTCT	40253

6628	TGTGCGTGGATTTTCAGTCATGT	18286	GGTCCCGTTTTGTGAACCAATAG	29270	GGATTCCAGAATGTGCGTGGAT	40254
6629	CCGTTTGCCCTCAACCCCTGAGA	18287	GACCTTAAGGGCCACCCCTAACT	29271	CGAACCCTGTTTGCCCTCA	40255
6630	GGCATCAGCAGTATCCGTTCTCTT	18288	ACCAGAGACAGGCCTGGAACA	29272	CCGAAATCAAGGCATCAGCAGTA	40256
6631	CCCACATCCAGCCACCATTT	18289	GAAGGTGAAGCAGGAGCAAGTATTAAG	29273	AGTTACAGGTTCCCCACATC	40257
6632	GCTGCATTTGGGTCGTTTTGTTTC	18290	GTCAGGCGGTGGAATTTTCTGCTA	29274	GGAGGCTCCTAAGCTGCATTTG	40258
6633	GGACTCTGTGCTTTGGCCTGAA	18291	AGCCGCTCTCAGACTCAGGAAT	29275	GTCTGTTGGACTCTGTGCTT	40259
6634	GGCCTCACACGCACGTTTT	18292	GACCTTTGAACAGCCTGACTGTAG	29276	GGTAAGAACCCGGCCTCACA	40260
6635	CCTGACCACGTTATTTATGGTTGGAA	18293	GCCTGCATCCTTTGTTAATGTTGGTT	29277	GAATATTCCTCTCCTGACCAGGTT	40261
6636	GCTGGAACAGACCTTAAAGGCAATG	18294	GGCCTGTTTGAATGCAAGAAAAAG	29278	GCTAACGCTGGAACAGACCTT	40262
6637	CTGGCTTTGGAATCGGTCTTTG	18295	ACCTGCAACCAAAAAAGTCATGAGA	29279	CGGTGTTACACTGGCTTTGGAA	40263
6638	ACAGCGAGGAAAGGAAGGAAATAG	18296	CAGGCTGCCTTTGCGAGACA	29280	GATGAAATCCTAACACGAGGAAAG	40264
6639	GGAAACAAAGCTTGCCTAGAGTTTCT	18297	CCCCAGCTTGTTCGAGAGAGA	29281	CGTTCTCCCGTGGTGAAACA	40265
6640	GTCGCTGTGAGTGTGTGACT	18298	CAAGAGAGTGGACTTCAAGACAAAAAC	29282	CAGTCCTAAAGGAGTCCGTGTCA	40266
6641	GGCAAAAGCCACGTAATTTCTCTCAA	18299	CCACAGAATGCCACGGTAACT	29283	TGCTGGCAAAAGCCACGTA	40267
6642	ACTGTGTGGAGAGTAAATGGGATTC	18300	ACACTAGCCATTTCCAAAGGTAAAA	29284	GACATCCAAACTGTGTGGAGAGTA	40268
6643	AGCCATTGCGAGACCCGTATG	18301	CCATGCTGTGTGTCTGTCAT	29285	TGAAACTGGGGCAGCCATTG	40269
6644	GAGGCCCTGAAGCTGAGAACAA	18302	GCCTCACACCACCTTTCTAGAACACA	29286	AGAATTTCAAGTGAGGCCCTGAA	40270
6645	GTGACCCCTCTTAACCGCAATG	18303	TCCAGGGAATGGGGTAAATCAAA	29287	GGCCAGCTGACCCCTCTTA	40271
6646	GGTTTACCTGTACTAGAGGCATTC	18304	CACCACTCCTGCCATGAAGAA	29288	GCTGACTTGGTTTACCTGTACTA	40272
6647	CTACCCACTGTGGACACATGTAA	18305	TTGGGGATGCTGCGTTGT	29289	GTGTGAGAAGGATTCTACCCACTGT	40273
6648	ACTCAGGGGCCCTTAGTTATGATG	18306	GGTGTAACTGAGACTGGGAATACTTG	29290	GCTAGAACTACTCAGGGGCCCTTT	40274
6649	GCCTCTGTACCTCTCTGTCATT	18307	CGTGGGGAACCAAGTGTGTGCATAA	29291	TGTCTCTGAGATGAGCCTCTGTA	40275
6650	GGCCAGCCTTAAGTTTCATCA	18308	CCCAGGCTGTGTGCTTTCAA	29292	GGGCTTCACTGTCCACCTCAGAAA	40276
6651	CTCTGTCGCTGACACTGGATGT	18309	TCTGGCGATGGGAAGACCAT	29293	AGCTCACTCAGGGCTCTGT	40277
6652	GTGAGAATGATCCGAGAGTGAGTT	18310	CTCAGCCTCCGAGTCTCATCTAT	29294	ACGTGCTGTCTGTTTGTGAGA	40278
6653	GCTCACACACTGTCTCATTTCAAC	18311	GTGGGGTGTATCATAGCATCTCCTT	29295	CCCTCATGCAAGCACTGTCTCACA	40279
6654	CTCCCTTTTCTCCACGAGGATT	18312	ACGAGCAGAGCACCTGTGA	29296	TTCTCTGGCCCTCCCTTTT	40280
6655	CTATGGGCCATTTACCCATTGAAC	18313	ACCTTCACTGCAGTTTGTCTAGTT	29297	TTTGGTTTGAATGAGGCCATTAC	40281
6656	CAGGGAGTGTGTGGGTTTGGTT	18314	GCATGGGCCAAGACATACACAAG	29298	TAGACTGGCAGGGAGTGTGT	40282
6657	GGGGTCAACCAAGGGGATTGA	18315	CCCCTACTACTGAGAACAGACCGTTT	29299	AGGCAGGGGTACACCAA	40283
6658	CCCTACATTCAAGGACCAGGTTGA	18316	CACTACTGCATCTCAGTTCCTGTCA	29300	CCCTGTGGAATCCCTACATTTCAAG	40284
6659	CGCTTGCTGACTGCTTCTTTG	18317	CTCAGCCATAGACTTCGTGTGT	29301	TGGATGGCGCTTGCTGACT	40285
6660	GGCTTACAGCTGCAGCAAA	18318	TGGTCAGAGGGCAGACGAAT	29302	ACACGGCCATGGCTTCACA	40286
6661	CCAGCACTGAAAAGAGTAAGTCATTG	18319	TCCAGTGTCCACCTTGGTA	29303	GGCCTGTTAACCAGCACTGGAA	40287
6662	GCAGCTGAACAGTACAATACCATGT	18320	GACAGTTTGCCAGTCATTATCCACTTC	29304	AGCCAGAGCAGCTGAACAGT	40288
6663	CACGTGGCTTTGCACACAGT	18321	TGGAGTAGGTGAGCTTGTGGAT	29305	TGCTGGACAGCTGGCTTT	40289
6664	GGGAAGTTTCACTTTCATGGGTTTG	18322	CATGCTCTTTTTCCACAGGACATTTG	29306	GAGGGAATGATTAGGGAAGTTCACT	40290
6665	GGAGGCCAAATGCAGATGAGT	18323	CCCTTCCACTTGGGGCAGAATA	29307	CTGATGTGCATGGAGGCCAAA	40291
6666	GCTGGCAACTGGAATGGGAAATG	18324	GCAGAGAAGGGATCAGAAAGACTGT	29308	GCAGTGTGGCAACTGGAAA	40292
6667	CCTGAGAAGCACTCTCCCTTGT	18325	GAAGGCAGTGGGTGATAAAGATTTG	29309	CCTCCCTCCAGCACCATCT	40293
6668	TGAAGGAGCACAAATGCAGGAT	18326	GTGCTGTGGCAAACTTTCCATCT	29310	CCTTTGGGTAATATGAAGGAGCACAA	40294
6669	CACGTGATACCAACAGTGGATGT	18327	CCCAGCTCCAGATTCTCCTGAAC	29311	GTCTCAGGAAAACACGTTGATACCAA	40295
6670	GAGCTCACCAGGAAGTATAGCATCT	18328	GTCAGTTTAACTGCCAGAAAAGT	29312	GGGGAGCTCACCAGGAAGT	40296
6671	CCCTGTACTCTGCGTCTGTCT	18329	GTGTGAAAGATTGGGGATTGTGACAT	29313	GGCACTGTCTAGATTCTCCCTGTA	40297
6672	GTCATCCCTCATCAAGGGCAGAA	18330	AGGATGAAGGCAGAGAGGACAT	29314	CAACCTGGTTGCTCTGTCA	40298
6673	CGAGGGGTATGGGCTAATAGTTG	18331	GGTACCACCTCTTTCTTTCCAA	29315	GTGCTGTGATGCGAGGGGTAT	40299
6674	TGTCTGTGTCCAGCTCTAGT	18332	GCATGGGGCATGTGGGAATTGA	29316	CACAAATTAGGTAGCCTGTCTGTGT	40300
6675	CAAAGTGTCAACAGCAGAGACAT	18333	CCTTCCCATATTGGGTGAGTGTCTGTA	29317	ACCTCCAGGATGCAAGCCAAAG	40301
6676	CTGGGGATGAATCTGCTTTACCAT	18334	CCAGCATCCCTACCTTCAGAAAC	29318	GGGGACATCTGGGGATGAATCT	40302
6677	CAGCGATAAATTCCTTCCACTCAA	18335	GCAAGACAAAGTCCACCCCACTTT	29319	AGGCTCCAAAGCAGATAACTTC	40303
6678	GGACCAAGCCTCTACTTGTACTGT	18336	CCCCATGTTTGCAGTGGAGTTT	29320	TCCAGGACCAAGCCTCTACT	40304
6679	TGTAACCTAGATGACCATGCGTTT	18337	CGAGGAAGCTCTCATCTCATTAGT	29321	GCCCTGATTGCTGTAACCTAGATG	40305
6680	GCCAGCTTTTGTCTATTTCTTCCAT	18338	GCAAGCATCTGTACTTCTCCAT	29322	GACTTCAGAGCCAGCTTTTGTCTA	40306
6681	AGGGGTTAGGCGGAAAAAGTATG	18339	CCTGTTTCTGCATCCTTGGTCAT	29323	CCATGATAGGAGTTTGTATAGGGGTTAG	40307
6682	GGAGAGACAATCACTATGTCTCTGTGA	18340	GGACCAAGGTTTCCAGCAGCTAT	29324	GGACTAATAGGATGGAGAGACAATCACT	40308
6683	GCTCTTTTCCCTACTTCCCACTTC	18341	GCCTTGGGAGCATTTGCACTT	29325	TCATGTCACTCCCTCTTTTCCCTACT	40309
6684	CACCTTGGCCATAAAGCAATTTCAAC	18342	CTGTGATTCTGATGACTTTGGGCTTT	29326	TCAACCAACACTTGGCCATAA	40310
6685	GACGGCAGCAGAGGATTTTGA	18343	GAGCTGTCTCAGGCTGCTTTA	29327	TCCCGGTATTCTGTCGCTAGA	40311
6686	GAATGCTGCCAAAGGGAAGTGA	18344	CCAGCTTTGATTCCACACTGATTT	29328	GCTCAGGTGAATGCTGCCAAA	40312
6687	GCAGAGGAAGTTAGAGTGGGATATT	18345	GAAGCAGCTGAGGTTCTACCAA	29329	GCTGGGCTTGTGTGAAAAAG	40313
6688	GTGGACTTTTCCAGCGCAACT	18346	AAGCAAAACCGATATCACTCTGA	29330	GACTGGGTGTGGAATTTCA	40314
6689	CTCTAACTCAGTCCGGGTAT	18347	AGGAGCCGGTCTCACTGTAG	29331	TGCCAAGGTCATCTCTTAAT	40315
6690	CAAAGGGGACATTTAACGCTGTGA	18348	GTGGATCCCTCTTCTGAGTCAT	29332	ACATTCTGCCAAGGGGACATTTA	40316
6691	GACTTTAGAATCTCTGCTACCAACATT	18349	GACCTGATTGTCTGGTGGAGGTA	29333	GGCTAACAGGAAACCTCTAAGACTTTA	40317
6692	GGGAGTGGTAAAGGCTTGGACTTC	18350	GGCCCAATCAGATGCTTTGTCTAT	29334	GCAGGGCTGGGAGTGGTAAAA	40318

6693	CAAGGTGTCTAGTCTGCTTGT	18351	CACCCCTTCTACCTTGCCATTAGTAT	29335	GGAGAAATGTCCTCACAAGGTGTCTAGT	40319
6694	TGCTCTGAGAAAGGGGATGTGA	18352	CCAAACAGTGTGCGGTGTTGA	29336	TGGGGAACACTGCTCGCAGAA	40320
6695	AGGGGAGGAACATGAGGCTGAA	18353	GCCAAACGTGCTGAGTCTTG	29337	CCCAGGGTAAGGGGAGGAACAT	40321
6696	GGTGGCTTCAGGAATAGGGGACAA	18354	GGAAGGGGAGGAAAAAGGGAAA	29338	CAGTGGGTGGCTTCAGGAAT	40322
6697	GGTCTAGGATCTGTCTGGGAGATCAA	18355	AGATACGAGGCTCGACATTTTACTAAG	29339	GCCCTGTGGTCTAGGATCTGTCT	40323
6698	ACTGCTCCTAAGATAGGCGATTTC	18356	CAGCTGGACGCTTGATTAGTCT	29340	GACCTGATAGCAAACTGCTCCTA	40324
6699	CACCAAGCATACCTGAGTCATACCTA	18357	CAGGCAGGGCGTGATATGT	29341	CCCATACGTGCACCAAGCATAC	40325
6700	AGCTTCCATCCGTCCTCAT	18358	CCCTGCATCGGTGGCAAAAT	29342	CAGGGAAATCCCAGCTTCCAT	40326
6701	CGATAGCTACCCTTGCTTTTCTCTT	18359	GGCCAGCTTTGAGTGTACAGAAC	29343	GAAACCGATAGCTACCCCTTGCTT	40327
6702	CCTGCTCTAGGCTGCAAGTGTT	18360	CCAGCAAACACACCAAGGAAGT	29344	ACCCTCGGCTCTGCTCTA	40328
6703	CTGACTCCTGCTGATAGAGTCTTG	18361	CAGGGATCAATAAGGCACCTTGGAGTA	29345	CCCCTGGACTCCTGCTGAT	40329
6704	GCCCTTGATCCTCCTAGGCTATTG	18362	GAAGAAACAGAGAGCAACTGAGACTT	29346	CCCTGCAAACTACTGCCCTTGA	40330
6705	AGTGGCTGAGAAATGAGACCTCTA	18363	TGCCCTTAAACCATGGCAGATG	29347	GGGTGGCAGTGGCTGAGAAAT	40331
6706	CCTGTTGGTCCAATCCTTACTGA	18364	GAGCAGTTTGGGAAGAAGTCTATCAT	29348	TGCAGTGAGGGTTCCTGTTG	40332
6707	GACTGTGGTTTCAACACCTTATACCTA	18365	GTGAAAGATTTACCCTTATGGTCCTA	29349	TGCTGTCTGACTGTGGTTTC	40333
6708	CCTTCTGGTCAATATCTACTGCTCTTC	18366	GGCTGAGGCAGTCAGAGTGT	29350	CAGGTCTCTCTTCTGGCTAAATC	40334
6709	CCATGTGAGGTAGATAGGATTGCTCTAGT	18367	GGGACCTCTAGGTTTCAGCTTCT	29351	CTGCATCATAACCATGTGAGGTAGA	40335
6710	CTACAGGCCAGGGATTTCAGA	18368	AGTGGGAACCTCAGAGCTAGACTT	29352	CGGCAGCCTTCATTCTCACA	40336
6711	GAGCTTGAGATCCTTTCTGAAGAAGTT	18369	CGAATTCCTGTCTGTAGCCTTTC	29353	CAGCTTGAGCTTGAGATCCTTTCT	40337
6712	TGTATTTGGGTGCATGAGTTGGTT	18370	CTGAGATAGGTCATCTCTTGAAGACAGAGT	29354	GGGGAACCTGCACCTTGATTTG	40338
6713	GGGTCCCTAATTTTGGTGATGACT	18371	GCTAGCAGAGCTCAGGAAAGTTG	29355	TGCTGCTGATGGGTCCCTAA	40339
6714	GCAGCCATTGTCTGTAGGACTTGAT	18372	ACACATGACTGTAGCCAATTCCTT	29356	ACTTCAAAGCAGCCATTGTCTGTA	40340
6715	GCAAGCTCATTGCAAGGTAGAGAAC	18373	TGCTCTTGAAGAACCAACCAACTCT	29357	CTGTTTCAGTGGTTGCAAGCTCATTTG	40341
6716	CCTTCTGAGTCTGATCACTCGTT	18374	AGGAGACATGGGACAGGTATGTT	29358	GGGGTCTCCTTCTGAGTCTGA	40342
6717	GGGATTTCCACACTTCTCCTCTT	18375	CCAGGGCTACACAATAGAGGTTTCT	29359	CCTGGAGGGATTCCACACT	40343
6718	CCACCTCGAAGCTTTAGTACCCTAAG	18376	GGAAGGAAGAGAGAAGCCTCAGTATC	29360	GTACTATCCACCTCGAAGCTTTA	40344
6719	GACCATCCACAGACTTAAAGAGGAA	18377	GCTGAGGACGGCTGCTTGATA	29361	GCCTGTGATGGCTTCTGTGTA	40345
6720	GCTCCAGCCTAGATACAACACTTG	18378	CACATGACCCGTTCTGGGTAAAC	29362	GCAGTTCAAGTCTCCAGCCTAGAT	40346
6721	GACAGCCAGCTAACACTGTGGAA	18379	GACCTTGAAGGAATGTAGGCAGTA	29363	GCCTCAACAGACAGCCAGCTAA	40347
6722	CCACGAAACAGGACCATGACA	18380	GCATACATGCTTCACTGCATCTC	29364	AATGTTGAGTCCATCCACGAA	40348
6723	ACCCAGACACGGCTTGACTCT	18381	CCCCTTGTCAATTGAGGAAAGAGTTT	29365	ACTGAATCCACCACCCAGACA	40349
6724	CCACCGTCTATGTCAACGCCATT	18382	GAAGTCTCACTCTGGCTCATTGT	29366	GACATGAGGACCAACCGTCTATG	40350
6725	TGGAGGCAGAGGTTTAGAGAGAA	18383	CCTGGGTTAATTCCTTCCACTCT	29367	TGGAGAAATGGAGGCAGAGGTT	40351
6726	CTGTACCTCTTTCGTGGTACAGT	18384	CACGTTACATAGCTTGTCAACACT	29368	GGAAGTGGATGCTGTACCTCTTTC	40352
6727	GAGGCGAGATAGAAAAGTAGTTGGTGAA	18385	GGTTCCTTCCCATGGGTACACT	29369	GCTCACACTACTGAGGCGAGATAG	40353
6728	GTGGTACTGAAACCCAGTTTAGCTT	18386	GAGGAGTTCACAGTAATGCAACTAT	29370	CTGCTGGTGGATGTGGTACTGA	40354
6729	TGCCTTAGTGCTGGCCTCTCT	18387	CCACTTAGAGTGTGCTTTTAACTCCATT	29371	GGGAAGGGCTTATCTGCTTAG	40355
6730	ACCAAAGCCGTGATTCTGTTTATTC	18388	GTTTACACCTCAGTCTACACAAGAA	29372	AACCCAACCAAGCCGTGTA	40356
6731	GGACAGGTTTCTAGCAGTGAGA	18389	GATTTACGGGCAGAGGTGTGT	29373	CCCTGTCTGTAGGACCAAGTTTCT	40357
6732	CACACAGCCATGGACATTTCAGA	18390	ACTAGCTGGAATGTGTGTAAGAATAC	29374	GGACAGCAAAATACGCCAATATCACAA	40358
6733	GATGTAATGCTCAAGAGGCTGAGA	18391	TCTTCTGACAGCAGTGCTACTCTA	29375	ACCCAGTAAAGATGTAATGCTCAAG	40359
6734	CACCAGAAAGCAGTTTGTCTTCACT	18392	CCCTGAGTTAGTTCACTGAAGGTTGATTG	29376	TGGTAAAGATCACAGAAAGCAGTT	40360
6735	GCAGTCACACCAGGCTCAAAATC	18393	CAGGTTACTACTGCTGGTGTGCTT	29377	AAGGCCTGGGCAGTCACA	40361
6736	CTGGCTGCAAAATATGTGCCTGTAC	18394	CTGGATGAATGGCTGTACACACAGA	29378	TGGCAGCTGGCTGCAAAAT	40362
6737	CCCAAAGTCATCAATTTCTCTGAGA	18395	ACTGCTGTTTGGGGATAAGCAT	29379	GGGCTCCTCCAAAGTCATCAA	40363
6738	CCCTACCTGCATCTCCTCAAC	18396	GCAAAACATGGGTCTAAGCCTGTA	29380	GCATTTTACTAACCCCTACCTGCAT	40364
6739	AGAGTGGCAGCAGTGGGAATAG	18397	GGCTTCCAAACACGCTGGAGTT	29381	GGCCCCGTGGTGATATGATGAGA	40365
6740	CGGTTTTACCTGAAAAGAAACCAAC	18398	CTCCCTGCCTGTGCCTCTATTT	29382	GGCCTAGAATAACGGTTTTACCCTGAA	40366
6741	ATCTGAGAAAGTAGCACTAGGGAGAA	18399	CCAATTTAGTCTGTCAAGGTCCCTTTT	29383	GTGAGTCACTGGCCAATCTGA	40367
6742	GCCTTGACAAACAATGTGAGCAAT	18400	GGGATGGGGAAGAAGGGCTTACTA	29384	CACGAGAAAGCCTTGACAAACAA	40368
6743	GTTTGCCTCTTGGGCTCATTG	18401	TGGACCTGGAGGCAGTAACCTTG	29385	GGCCTGACAATGTTTGCTCTT	40369
6744	CAGAGGGTCTGGTAAACTCTGGTA	18402	TGAGGCTGAACCCATCAGAAGA	29386	GCAAGTTGTCAGAGGGTCTGGTA	40370
6745	CCTGTCTTTGAATGGCTCTCCTCAGA	18403	TCCAGACCTCGTGCTGCTT	29387	CACCGGATCATTGCTCTGTCT	40371
6746	TGGGAGAAATAGTGGTCTGCCTAT	18404	CGTTCCTTCAAAAAGCAGACTGGACCAA	29388	GAGAAGGAATGACTGTGGGAGAATAG	40372
6747	CACCCATGCTAGGGAATCTTGA	18405	GGTTTTCAACATGCCCCCTTCA	29389	TGTGTCTCTCACCCATGCTA	40373
6748	CAGCAGAAACAGTGGGATGTAGT	18406	CTCGCTTAAGATCTCACTTTGAGTAAC	29390	GGTGTGGCAGCAGAAACAGT	40374
6749	ACCTGTGCATCTGCCTCTGTGTTG	18407	GTCTGTGGGTGATGAGGACCAT	29391	GCTGTCAACACCTGTGCATCT	40375
6750	GCCTGCTTACATCCCACTCAAAAG	18408	GGGAGCTGGGATCTGAGTAAGACT	29392	TGAAACTTCACAGCCTGCTTACAT	40376
6751	TCTGAGTCTCTCTTTTCAAGACAA	18409	GGCATTTCTAGACCCACCTTGATATC	29393	GTGGATGATGTCAATTTCTGAGTCTCT	40377
6752	CCCTTCACTATTCTGGGGTTAG	18410	CGCTCCAGGAACCAAGGTATT	29394	GGGCCTCTCCCTTCACTATT	40378
6753	GCATGGCAAGAGACCACTTCTT	18411	GTGGTAGGAGTAAGGAATTTGCAGAAAAC	29395	GGCTTACACTGCATGGCAAG	40379
6754	GGCAGGGTGTAGGGAGAAAAAG	18412	TCTAGCTCATCCCCAATGTTCTTTC	29396	TGGGCTTGGCAGGGTGTAG	40380
6755	CTGGCTGTGATGAGGAAAAGGGTAT	18413	CCCGGGATTGTCCCTAAACA	29397	AGCTGGCTGGCTGTGATGA	40381
6756	CACAGGGTGTGAGACTTTAGGGAGTA	18414	GCCTGGGGTAATGAATTTCTGCTGAT	29398	ACCCACAGGGTGTGAGACTT	40382
6757	GTGAAAGGAGGTGCTGTTAGTAATTG	18415	GCCTCAGACCTTGGCACTCA	29399	TCGGGGCCCTAGATAGTGAAAG	40383

6758	GTGCCATATTGACCATCTTCCTTTTAC	18416	CCCAACCTTAACCAAGGAAGCAA	29400	GCTGTCCCAGTGCCATATTGACCAT	40384
6759	CCCACCTTCAGGGTGTGTGATG	18417	AGCCCCCTCACGGGAAGTCTTATC	29401	TGGAACCCCAACCCACCTTCA	40385
6760	GGTGGTGGAATGTTCCGATGA	18418	CCTAGGTGGAGTCTTCATTCTCTCA	29402	CCAAAGGAGTAAATGGTGGTGAA	40386
6761	GTCCTGGACCATGGGCAGAT	18419	GTCGTGAATCTCACACTCTCACA	29403	TGGCCAGCTCAGGGTTGA	40387
6762	CTGTTTCACTTGCACTGTGTGT	18420	CAGTTAGGGCTGCTTGCTTAGTCT	29404	TTGTGAGGACAGCAGTCTGTTT	40388
6763	CCGTAGACTGTCCAGAGAGATGACA	18421	GACTCTGTCAATCAAGAGAAGGAATG	29405	TGGGGCTTTCCGTAGACTGT	40389
6764	CAAAGCACGAAACGCTTGT	18422	GGCTCCCCAATATCATGTATGTCAAATG	29406	AGCAAGGGCCAAAGCACGAA	40390
6765	TCCATGCTACAAGGGCAGAGT	18423	GACTTTGAAGCCATACAGCTTCT	29407	CAGCCACACTTACTTCCATGCTACA	40391
6766	GGACACAGAATGAACCACTGACTGA	18424	GGGCTCACACAAAGCTGACTTC	29408	GGGGAGGGAGGACACAGAA	40392
6767	GACAGCTTAGACAGAAACCTCTTTTG	18425	CCCCTGGAGCTGCTAATTGGA	29409	CACCTGGAAATTGACAGCTTAGACAGA	40393
6768	GCCGAAGATCTCTGCATTTTACA	18426	GGAAAGGAGAGAAATTGAAGGCATTTG	29410	GGAAGAGAGCACCTGGAGTTTC	40394
6769	TGCCGTGGAAACGGTCTGTTT	18427	TCACTGAGATTACAGAGCCCTAAGA	29411	TAAGTCCTCTGCGGTGGAA	40395
6770	GCAGAGACAGAAGGCAGGTAAGAAA	18428	GCAGGAGATCCCTTTACCCAGTT	29412	AGGGTGTGGCAGAGACAGA	40396
6771	GGGATGCAACTATCTCCTTCCATT	18429	GCCAAGTTCACAGACCATCACA	29413	CACCTTTTCTGGGATGCAACTATC	40397
6772	GTGTGTGGATGAAAACTCTGGTCTCTTA	18430	ACATCATGGATAGGCTAGAGGTTATGA	29414	TGGGTGGAAGTGTGTGGATGA	40398
6773	GCATCTGGCATGCACTTCTACTTAG	18431	ACAAGGCAGGAGGAGCATTAC	29415	AAGGGGCAGGACAGCATCT	40399
6774	CTCCAGACCTCTTGAATTGACTGA	18432	GCTGCTCAAGCACAGACCTA	29416	GGAAGGAAGCATCTCCAGACCTCTT	40400
6775	GTTCCAGTAGAGCTGGATACATACAA	18433	CTCTCCACCTTCTGTACTCT	29417	CCATGGAGGATTTCATGTTCCAGTAGA	40401
6776	CTGGGCCATTACCATATGTCAGGAA	18434	TGGACAAATTCGAAGTCTCACA	29418	CCTGCTTAACCTCGGGCCATTAC	40402
6777	CCATGTGGCAGGTGAGGATGT	18435	TGGAGCAGGATTCCGGTAGGTT	29419	AAGGTCAACTTTCACCTCCATGT	40403
6778	AGGAAGAGCGTATGTAGAGAGCAT	18436	CCCAGTTCATTTCTCGTGTCT	29420	GTGAGGAAGAAGGAAGCGTATGT	40404
6779	CCCAGAATCCCTGCTGAAGA	18437	GCATGGGTACTGACCCGTTTCT	29421	GGAAGGGAAGCCTTTCCAGAAAT	40405
6780	GCTGTGGTTTCAGAGTCTACCCCTAA	18438	CCTGGAACCTCGAGAGATGCTT	29422	GGCTGGCTGTGGTTTCAGAGT	40406
6781	CACTCCAATGCCTCTGTGGTT	18439	CCTGGATCTGGAACGTGTGCTT	29423	TGCTCACCTCTCACTCCAATG	40407
6782	CCCTGTGAGACTTCATCCCTTCA	18440	GAGGAAAGGATTACATTCGGGAGAA	29424	CCCAACCCCTGTGAGACTTCA	40408
6783	GGGGAAGTTTTGAAGGCAAAACAA	18441	GCCAAAGATAACGGATTCAAGGCAAT	29425	AGGTTACAGGCAAGGGGAAGT	40409
6784	AGGGGATTAAGAGGCAAGGAATG	18442	CAGGGACTGGGCAGAAAACA	29426	TTCTGTACAGCAAGGGGATTAAG	40410
6785	CTGGGTTCAAGTTTTGGCTCTTC	18443	CCCAGACAGCTCGCGCTAATAA	29427	CCCAAGTCTTTTCTCTGGGTTCAAG	40411
6786	AGTGCCCTCGTAAGCGATTCA	18444	GGGTCTTCATTTCTGCCGTACCTATAAAC	29428	GTATTTCACTTCTAGTGCCTTCGTA	40412
6787	CTGTAGACTTTGGCTTATTCGACCTT	18445	CAGCACAGAGTTTTATCCTCTCTAC	29429	GCTCCATCTCTGAGACTTTGGCTTA	40413
6788	GCTGGTCTCTGGTTTTGTAACCCATT	18446	CCCCTTACTCACCTGGCCAAAG	29430	CTTTGCTGGTCTCTGGTTTTG	40414
6789	CCATGGTCAGCATGATATCCTCAA	18447	TGCACCAAGTTCTCTCGTGAGA	29431	CGGGGCAGTGTACAGGAGTA	40415
6790	AGGCTCGCCCTCTCTCTT	18448	GGAGCCAATGGTCAGAAGACA	29432	TCCTCTGCCCTCCCTGCTA	40416
6791	GCTCTCTAGAAGCGCTTTCCCAAA	18449	GAAAGCAGACCCTGAGACCAA	29433	TCCCTGCACTGTCTCTCTA	40417
6792	CTTTCAATTCAGAGCTTGTCCATA	18450	ACAGAGATCATAGGTGGCATCCTT	29434	AAGCAAGAGTGGCTCTTCAATTC	40418
6793	CGAGAACTACGGTTTCAAAGGAAGAAG	18451	GCTTCCACTCCACATTCTGACT	29435	CCAATCTCGAGAACTACGGTTTC	40419
6794	GCGCAAATGCAGCACAAAATC	18452	GAATAAAATGCATCCAGCTCACT	29436	TGCCAGATACTCGGCAATG	40420
6795	CCTGGTTCAAACGGGAGCGTAT	18453	AATACGCCCCAGCCCTGTCA	29437	GGTTGGCTGAAAAACCTGGTTCAA	40421
6796	GGATGCTGTGATGTCACTCT	18454	CTGTGTACCAAGTGGATGGATGA	29438	TGGCTTAGGGCCAGAGGAT	40422
6797	CTCCACCATAGGGAGTGACTTTG	18455	GGGCAAAATTTAGCCACCATGAAAG	29439	GCAAAAGCTGTCAACTCCACCATAG	40423
6798	TGTTCCCACTCGCCACAAA	18456	GCGTGAATGCGTGGGAAACA	29440	TGCCACTGATGGCCACTGTTC	40424
6799	GGAGTCTTTTTCAAAGCGTGGTAAC	18457	ACACAGCCACATACCACATC	29441	CCCATCTCCACTTTTGGAGTCTT	40425
6800	GCAGTAAGCACCAAGTGAATATCTGATT	18458	GGGAGTCAACAGCAGAGTCATA	29442	GCTGCAGTAAGCACCAAGTGA	40426
6801	CCAGAGATACTGAGATGGTCAACT	18459	TTGACAGGATGACAGACCAAGTTA	29443	ACGAGAACTCCAGAGATACTTGAGA	40427
6802	TTGCCAGAGTGCTGTCATGT	18460	CCGAGCCTATGCTGAGGTGTAAG	29444	GGGCTTTGATTGTCAGAGT	40428
6803	AGGATTGGCATAGGAACAAAGTAT	18461	GAGACTCTATATGCTAGGCTCATAACCAA	29445	TTGCCGGAATGAGGAGGATTG	40429
6804	CCGTCTTTGTGCCACCTGTTG	18462	GGAATTCTCCAACCCATTCT	29446	CTCTAGCCTTTCACTCCGCTTTTG	40430
6805	GGCAGAGATTAAGTCGTCTGACT	18463	TGGCCATAGAGGCTGAGAGCTT	29447	GACACACAGATAATGAAGGCACAGA	40431
6806	CGGTATCTTCTGCATACACTAGCTT	18464	TCCAGTGGCCACTTCACT	29448	CCACGTGGCGTATCTTCTGCAT	40432
6807	AAGGCGATGGGAACCTCAGA	18465	GGCTGATTATCGGCAGAATTTGGTT	29449	CCTCAGCTGTGAGCCAGCAA	40433
6808	GCCAGAACCTGGTCTGAACTCCAA	18466	CCACACTAGGAATGTGGACACAA	29450	GCACTAAGCTAGTAGGCCAGAAC	40434
6809	GGGGAACCATGAAGGCTTGAA	18467	TCATATTTCTCATCCAGCTGTTAC	29451	ACACTGATCCTTATTGATGGGAAAC	40435
6810	GGCCACCAATTGGCAGTATCATC	18468	GCTAGATGATGATGCTCTTACCAAA	29452	ACAGCACGGCCACCAATTG	40436
6811	CGTGGGTGAAGCGCAGAGTA	18469	CATCCAGCGTCACATTCTGTCT	29453	AAGCATGGCCCGTGGGTGAA	40437
6812	TCAGGGCATAGGGCTAGAAG	18470	GGTGTGGGGCAAGACTTGTTC	29454	TGGCTGGCTTCAGGGCATA	40438
6813	GCCACAGAGACCATCCATCT	18471	GCTCTGGGCTGATTGAGTTGCATTC	29455	ACAAAGAATGGAGGCCACAGA	40439
6814	GTGGGATTACAGCAATTCCTGCTA	18472	CCATACCCGAAGCCTCACTT	29456	GAGCTAAGTGAAGTATGAGTGGGATTCA	40440
6815	CCTCAGACAGAGCTGGGTTTAAATTCT	18473	GCCTTAGGCCATGTACAATGTGA	29457	GGCTTAGAGCACTCTCAGACAGA	40441
6816	GGGGACAGCAGCTTCTCTT	18474	GGCTGCACAGACCACTCAATTATC	29458	GGCCCTTGGCCACATCTTAGT	40442
6817	TGCTACTGGGTGCCAGGAA	18475	CTGTATTATCCATCATGAGGGTCTTG	29459	ACCATATGCGGGTGCTACT	40443
6818	CCTGCCACATGTTCTATCTGTGCT	18476	CTCACCATACGGTTGTACTACA	29460	TTTTCTTACTGATCCTGCCACAT	40444
6819	CAGTGATTGTCTAAGGCCAGGT	18477	CATGGAGGATTTCAAAGCAAGGAAGT	29461	GGCCAGCACAGTGATTGTCTTAA	40445
6820	GGGATTCTCTAGGAGGAGATAACTTTCTGA	18478	GCTGTACAGACTGCATGGAA	29462	TTGAATGGGATTCTCTAGGAGGAGAT	40446
6821	GGAGCAGGTTGGAGGTTAGCAT	18479	CACCATCTTGGTCATCTTTCTTTC	29463	GCTCAATTGGAGGAGCAGGTT	40447
6822	GCTGTGGAATGCAGTTGAATGACTTTCT	18480	GGTAGTAGTACCCTAGCAACCAGAA	29464	TGGCTGTGGAATGCAGTTGA	40448

6823	TGCTGAACGTCACACAGTGAT	18481	ATGGCCCCCTGGAACGGAAA	29465	TGGGGAGTGAAGATGCTGAAC	40449
6824	GCAATCTTGGCTAATGAGACCATTT	18482	CATGGCTTCTCGACAGCATTTT	29466	GCCCATGGCAATCTTGGCTAATG	40450
6825	GCCCTTCTATTCTACACTGACGTAAA	18483	GTGATATGTGTGCAGGTTTCTGTTT	29467	CAGCTCTGAATTTGGCCCTTCTATTCT	40451
6826	GGAGAAACAAACCACCATGGGAATGA	18484	TGAATGCTGCGAAGAGGAAATGGAA	29468	GGAGCAAAACACGTGGAGAAACAAAC	40452
6827	CACAGTGCTGACTTCTTTCTACT	18485	GACGCCATGTGCTGTAGATTACT	29469	GGCTTGATCACAGTGCTGACTTC	40453
6828	GGGCCACCTGGATGTAGACTTTTG	18486	CCCACAGACTGATTAGAGTCGTTAC	29470	TCAGGGCCACCTGGATGT	40454
6829	GGGACAAATCTTCTACCCCATTC	18487	GAGGCCGAGCAGCATTTGAT	29471	CGAAGTTATGGCTGGGACAAATC	40455
6830	AGTACTGGGATTTGTACAGAGAAG	18488	TCAGTGGTGCAGCATGCTTAG	29472	TGCAGCACAAAGTACTGGGATTT	40456
6831	GGGGAGGTATCAGAGCCTTTTCTGA	18489	GGGTGGCACAGATATGAGGAAACA	29473	GGGGTCTGGGGAGGTATCA	40457
6832	CCATGAAACTCAATGACACTGTTTCTGTA	18490	GCACAACCATGTACCTTTGGAAATC	29474	GCCCTCCATGAAACTCAATGACACT	40458
6833	CTGATCTTGTACTGTAGCCCTTAG	18491	TGCCTCATACAGACCCGACAT	29475	GCCCTTTGAAAACGTATCTTGTACTGCTA	40459
6834	AATGGCAATGACCAACATGAAG	18492	ACATTGCGCAACCCCTGCTT	29476	GGCTGCTTCCCTAGAAAGACAACA	40460
6835	GGAGGAAAGCAGGGATGCATGT	18493	GAGGCAGTGCCAAATATGAACTGATAC	29477	TGGACACCCGTCAGGAGGAGAAA	40461
6836	CTGTGCTCAAGGAGACAGTGA	18494	GAGATCCCAATGCCCTCCAACA	29478	ACGCTGCTGTGCTGCTCAAG	40462
6837	CTGCTGTCAACAGGCAGTGAAA	18495	GCTTCTTGAGGCTAGGCTTGGAACT	29479	TGGCCAACAGACTGCTGTCAAC	40463
6838	ACTTCGGGAGCCACAGTCCAA	18496	GTGTGTTGCATCTCCAGCTAATG	29480	GGACAGCAAAGGCTGCTTGACT	40464
6839	CCACCTGTTTTAGATTTTGGCTCTGA	18497	CAGCCTCCAAGTTGAACCTAGT	29481	GTGGGATGCCACCTTGTGTT	40465
6840	CAGACAGGCACCTTCAAACTCTTCT	18498	AGGGCCACCTCTCTGGGTTTTA	29482	CCCATCAGACAGGCACCTT	40466
6841	TGCTGATACACTGACTCGGTACT	18499	GCATTATGGGGTTGTGGGTTGT	29483	GCAAGACACCTGAGATGCTGATAC	40467
6842	GGGAGCCAGTCATTAATCGAAATGT	18500	CCCGAGGAAGCATTTGCTGTGA	29484	ACAGCATGGGAGCCAGTCAT	40468
6843	GTGCCCTTACCTTGGCAGTTCTGT	18501	GGCATGTGTTCTTCCAACCTCCAAGT	29485	CCTGCAGACAGTGCCCTTACCTT	40469
6844	CTGAGACTGGATTGGGATAAGGAGATG	18502	GCCTGGCCACCTATCATTGT	29486	GGCATGGTAGACTGAGACTGGATTG	40470
6845	CCCAGCTTCATCTCCTTGGAA	18503	TGTGGCAGTGGAATCCCAAA	29487	CCTTCTGCCCCAGCTTCATC	40471
6846	GCATGATAGGAAGTGTGCGTGATAG	18504	GCCAGACCCCCACAATGTTAC	29488	GCGTGATAGGAAGCTGTCAT	40472
6847	CACCTCTGGTTAGAGGCCATT	18505	TGCAGTTCATTTCCAATAGTCACA	29489	AGAGAGCTTTCACCTCTCGGTTA	40473
6848	ACACTGAGGACAGGAACTACTGA	18506	CCCCAACTGGATGTTTTCCCTCAT	29490	GCTTCCGAGAGGTTACTGATACACTGA	40474
6849	GTGAGTGTGGTTAGTACCTCCTAATCTT	18507	CCCACCATGTCTGTCTCTATT	29491	CCAATTGATCCAGTGAGTGTGGTTAG	40475
6850	GTCTGGCCATTCAGGGAGATT	18508	TGAGGGAACTCCCTGACCTTT	29492	CCCACCATGTCTGGCCATT	40476
6851	CAGCCTGTGCTGGAGGGAAT	18509	CCACCTGTTCAGGGCCACTA	29493	AGGTTACGCGAGCCTTGTG	40477
6852	CGAAATTAACAGAGTTCTCTGTTTCAA	18510	CTTCAACTCTACATTTCTGAGGGTAT	29494	GGGCTCCAAAGTCGCGAAA	40478
6853	CTGGAGCAGGAAGGCTTGTTAC	18511	CCCCTACACCCCATACAGACA	29495	ATCCAATGAAACTGGAGCAGGAA	40479
6854	GTGTTCTGGACATGTGTTGTACCTA	18512	GCAATTTGCTTAAGGACAGGGATTGTATC	29496	GCGTGTCTCTGGACATGTGTT	40480
6855	ATGGCCAGCCTCTGAGTGA	18513	CTCCTCAAAATTCCTGGTTCT	29497	GTGGGCAACACCGAGAGATG	40481
6856	GCACCAGGAGCTTGGACTTTCA	18514	GCCTCAGCTCCCAACAA	29498	CCCACAGCACCAGAGCTT	40482
6857	GCGATGCTCTGGATCTGCAA	18515	TCCCTGGTGTGGATCTTATTTTCATC	29499	CAACCGCTTGCATGCTTCT	40483
6858	CCAGCCTCTGAAGGAATTGGTCTATG	18516	GCTTCCCTGGAGACCACAGT	29500	CCTTTTCCAGCCTCTGAAGGAA	40484
6859	TCCCTGTAGGAGAGTTGCAT	18517	GGGTCTTCGACTTAGCATTTAGTCT	29501	TCCACAGGAAACCTCCCTGTAT	40485
6860	GCAGTGGAAGATAGGCAAGAGGAA	18518	GCTAGCTCCTGTTCCATCAGCAT	29502	CTTTAGCAGCAGCAGTGAAGA	40486
6861	CAAACAGGATTGTCGTTGAATTG	18519	GCTTGGTCCAAACCTCATTGATTAC	29503	GAGGAAGAGGCCAACAGGATTGT	40487
6862	CCACCTGAATTTTCTAGGTGTGAAC	18520	ACACGGTGTACATGCGTAAGA	29504	AATACCTTCCACCTGGAATTTTCT	40488
6863	GCTCACTACGAACCTGAGACCTA	18521	GTGTGGAGGAAGGGGAAGAGTTC	29505	CGGAGATACAGCTCACTACGAA	40489
6864	GACCAGGAACACATCTTGAGAGTTAAG	18522	CCCTTGCTTTTATGGTAACACT	29506	GAGAGATGACCAAGGAAACATCTTG	40490
6865	CCTGCAACTAGCAAAATCGGCTTTT	18523	GTGGCTCTTTTACATAGTTGTTT	29507	GGATGCCCTGCAACTAGCAA	40491
6866	TGAGATTCACTCTTCTGTAAC	18524	GGACATGGGAGCAGATTTTACACT	29508	CCCCAAACCTCTCTGAGATTCT	40492
6867	GGTGCAACAGACTGAGAGCAATCTA	18525	GCACAGTGCGGTTCTCAGTGAT	29509	TGCAGGGTGCAACAGACTGA	40493
6868	GAGCAGTGGGTGAGATATAGGATGAT	18526	CCCTAAAGCCATTGCGTTCTTC	29510	CTGTGAAGCAGTGGGTGAGAT	40494
6869	AGTGAGGCTCAGTGCCATCTTG	18527	ACATGGATAGAAAGGCTGCGCTTAATG	29511	CATGTTTGGTGTGCAAAGGATGA	40495
6870	GGCCTTCCAACCCGATTGAGTA	18528	CAGTTTGGCCATGCTGATG	29512	AGTTGTGTGGGCCTTTCCAA	40496
6871	GGTCCATGTAGGGAAGTCTCTT	18529	CAGAACCCCTCCTGAATAATGGAAGT	29513	TGACCTGTCTGGTCCCATGTAG	40497
6872	ACGCAGACAGGGACCAGAT	18530	ACCAGGCCACTCCCTTGTGT	29514	GGAGGTGAGAGACGCAGACA	40498
6873	CAAGTTTCAAGGAACAGGCACCTAAG	18531	GGCTTCTCGGATGGACAAACAGAT	29515	GGATGCACAAGTTTCAAGGAACA	40499
6874	CAATGCTGGGATCTTCTCTCAA	18532	AGAATCCTGTCTATTACAGGGGTAGA	29516	CACACTTCTTCAATGCTGGGATCT	40500
6875	CCGTTGGGTCAAAGGACATGCAA	18533	CAGTTGGCCAGTCAACCAA	29517	GGCAATAGACAACCGTTCGGTCAA	40501
6876	GCTACTCGGGTGGTTCTAACTGTTG	18534	CTGGCAGTGATCTCTTTTCTCT	29518	TCAGGCTACTCTGGGTGGTT	40502
6877	CTGCCAATAGCTAGGGGAGCAT	18535	CCCACAAGACACTACCACTCCAT	29519	GTGTTTGTCTTCTGTCTGCCAATAG	40503
6878	CCAGGTTAGCATACAGAAGGCCAAT	18536	CTCAGGAACCTTGGAGCATAGATCA	29520	GGCATCCAAGAGTTTCCAGGTT	40504
6879	CTCCCTAGTGCTTGGTGCTACT	18537	CATGACAGTTAAGGGGAGAAGGAAAA	29521	CTCCAACCTCTCCCTAGTGCTT	40505
6880	CGGATTTGGAGTAGTGGGCAATG	18538	GGCATGTTTACTCCACCAACAACA	29522	CCCACTTGGTTTGGAGTTTGGAGTAG	40506
6881	CCCATCGGGAGAATCACACACT	18539	GCTTGAGAACTGAGGTGCCAAA	29523	GTGTTGAACCCCATCGGGAGAA	40507
6882	GGCTCTGGAAGAGAGTAGGCAAAT	18540	GCCATCTGCTGCTGTAGCAT	29524	AGCGCTAGGCTCTGGAAGA	40508
6883	CCGTATCTCTCCAGTCCATTACTGT	18541	GACCTTAGGCAAGAGGTAACACAAAC	29525	TCAGTTGGACTACACCGTATCT	40509
6884	ACACCTTTGCTGATCTCTGCTATAC	18542	GAGAGCTGAGTTAATGAGAGTTGAGGTT	29526	GGGCACATTCATCAACACCTTTG	40510
6885	CTGTTCTGCGAGATTACTTGCTACTGT	18543	TGGAGATACAGTGTTGTGTTTGA	29527	CAGTGTCTCTGTTCTGCGAGATT	40511
6886	CCTGTGGTTCAAGCCTCCAAT	18544	GCTTCTAAAGGATACGGTGAAAGTGATG	29528	CTCATCCTAATACTGACCTGTGGTTCA	40512
6887	AGATCAGGTTCTAAGGGTCATACCAA	18545	ACAGTGGTAGAGATGCAGAAAGATG	29529	CCCATAGCCAGTCAAAGATCAGGTT	40513

6888	GGAGAGAGGCTAACTGACATATACTGGTAA	18546	GAGGTTCAAATAACCAAGTGGAGAAG	29530	CTGAGGAGAGAGGCTAACTGACA	40514
6889	GCCAGTGTCTGATGTGTAGAAAG	18547	CCCAGATTCACTCTGTAGTGTAAAC	29531	GGGAAAAGCCAGTGTCTGTATG	40515
6890	GAACAAGGGATGTCTCTCTTCAA	18548	GGGTGAGACAAACATAGGTTCTTACTTG	29532	TGGCATTGTCAAGGGGAACAA	40516
6891	GCAAGGACACAAGCGAAGAGACT	18549	TCGGACCCAGCCATCACT	29533	AGGGAGGAGGCAAGGACACAA	40517
6892	GCACCATGGGTTTGCCTCTACT	18550	GCACTGTTCCAATGTCCAGGTT	29534	TGTGGGGCACCATTGGGTTT	40518
6893	AGCCTCCTATGATTCCAGAAGT	18551	CTGGGAGTAGGCATTAACCCATTG	29535	CCACCCACAACAAGCCTCCTATG	40519
6894	GCAGAGGTTGAGAGGAAAGATGTTT	18552	TCCAGCCCCACAGAATTCTATTTTTT	29536	AAGGAAGGGGCAGAGGTTCA	40520
6895	GTCATCATGTGACAACCTGTGACT	18553	GCTCAAGAGCCACACGAATCT	29537	CCATTGAGCCAGGTCATCATGT	40521
6896	GGCACGAGTAAGTGTGTCTGA	18554	GGGCTGTACCTCTTCTGTGA	29538	GGGGTGAAGGCACGAGTAA	40522
6897	GGCCTGCATGGGTCACTATT	18555	ACGCTTCATTCCTCAGTCTCA	29539	GCAGTGACATGGCCTGCAT	40523
6898	CCAGTCTGTCTTGTAAAAACAACA	18556	GTCTGGTTCGCGAGTGAACA	29540	CCGAGACTCATCCAGTCTGTCCCT	40524
6899	GCATCCGCCTTAGATAAAACAAAGAA	18557	GCCCTGCTACCCCTTTCTCTATT	29541	AGCTCTTCTGCATCCGCCTTAG	40525
6900	CACATTGACTTCTTCCATGCCCTAT	18558	GGGATGCCAGGAACATCTCT	29542	CCTACTCGTTAACTCATTGACTTCT	40526
6901	CCCTGAAGTGAGTCAGGAGCTGTA	18559	TGGCCACACAGCCTACCTT	29543	ACCTGCTGTGACCCCTGAA	40527
6902	TGCCATCCCATGAGGAGTGA	18560	CTACCTAAACCTCTAATCACCTAAGACTTG	29544	AGGCCACTTGCCATCCCACT	40528
6903	CCATCTTTTTAGAGTGGGAATTGTCT	18561	CCAGAGCCATGAGAGGAAAAGGATT	29545	CGGCATCACTACCATCTTTTCTAGAGT	40529
6904	CCTGGCCTCTGATTCCATCCAAAC	18562	GGGTGATGTGAGATTCCCTTAACTCT	29546	GCCACCTGGCCTCTGATTC	40530
6905	GGGTTTTGCTTTGTGGTGGTGTG	18563	GCACTCTCAAGGCGTAAGACCTTTT	29547	GTGGCAGAAAAGATGGGTTTTGCTT	40531
6906	AGGCACCCATTCTGTCACTTG	18564	ACATAAGCCCATGCCAGGATAATAAG	29548	GCCCTTTCCAGGCACCCATT	40532
6907	CGAATGGGTATCGATGTCCTTGA	18565	CCAACCGCCAGTCCAAAAAG	29549	CCTCCCAAGTCAACGAATGGGTATC	40533
6908	TGACTGCGTTGAGCTTAGAAGTTA	18566	GTCAAGGCTGCGTCATTGCTA	29550	GTGACAAGTTCAAATGACTGCGTTGA	40534
6909	GTCCAAGTCCAGCCTTACA	18567	CAGAAGAACGAGGAAGGAAGTCT	29551	TCCTGAGCCTGTGTCCAAGT	40535
6910	GCTGGGAACCTTGGCCTGTATATC	18568	GGAGGAGCTGGTAAGAACTAGTCA	29552	AGGCCACGCTGGGAACCTT	40536
6911	GCTCTCTGTTTCCAGTAGGTTTC	18569	CCACCAGACAACCTTCTCTCTT	29553	CTTCGCTCTGCTTCTGTTTTT	40537
6912	GGCTGGAAGGATGGTGTCTAT	18570	GAGCAAGAATGTGTATAAGGGAGAT	29554	GCTGTACCTTTGGCTGGAAAG	40538
6913	GAGTGGCTAACTGGTCTAAATTCAAA	18571	GCATGTGGGTTTTCCAGCAAAT	29555	CAAGACAGATCCTGAGTGGCTAAC	40539
6914	GCCTCAAACCTCTGGGCTCAA	18572	ACTGTCTTGTCTACTTGAGAGACT	29556	CCTCACTGCAGCCTCAAACT	40540
6915	CCCTCTGGCAGTGTGTTAGCAGAT	18573	ACAGGTTTTCTTCAAGCAGGATTTC	29557	TGGGTCCCTCTGGCAGTGT	40541
6916	GGCTTACACTGCCCTCTGAGATAC	18574	GCCAAGCACATAAGCCATGCTA	29558	AACGCTTCAGTGGCTTACACT	40542
6917	CCAGAGTTCCTCTTTGGGAATCAGA	18575	TCGCTGGATTTTCCAGGATTAC	29559	TCCCTCCAGAGTTCCTCTTTG	40543
6918	CAGGACTTGTGTCTGTGGCTAAAC	18576	GCCCAGATGGAGACACAGCTT	29560	GAGCTGAAAGGCACAGGACTTG	40544
6919	GCTTCTCGTGACTCATTCTGTTT	18577	GTACACAGCTCTTCTGCTAT	29561	AGGAAATCAATTGCTTCTCGTCACT	40545
6920	CCCTGTCTCCAAGTGAGCTATTC	18578	CAGAAATAGGAGCTTTTGGGGTTCATT	29562	TCTGACTTCCCTTGTCTCCAAGT	40546
6921	CGTGGCCTAAACTTTTCCAAGACAT	18579	GAGTGGACACAGATCCACACA	29563	CCACCACAGTGGCCTAAACTT	40547
6922	GGTGATGGCTGATGAGTGGTT	18580	GCCTCCTGTGTGAAGGTCGAAA	29564	CAGTTCAAGCCCAGAGGTGATG	40548
6923	GTCACTTGCTCACCCCAATGA	18581	CCTGCCCCAACTCCAAAGA	29565	TGGCCCTGAGCTTGTCACTTG	40549
6924	CCTGTGTGGGACAGTAAATGTAGGTA	18582	TAGGTGCCCGAGGCCAAAC	29566	TGCCTTCTGTGTGGGACAGTA	40550
6925	CCTTCAGGTAAGTGGGTGTCTCT	18583	GGAGGACAAAAGGAGCTCTATTCAA	29567	GCTGCTGCCTTCAGGTACT	40551
6926	GTGAAGGGACTACTGAAAACGAAGA	18584	CCTGGAGTGTGGGAGGATTTTTC	29568	TTTTGGATGTGAAGGGACTACTGAA	40552
6927	GGCTCCATCTAAGATTTTCAGGAGTCA	18585	CTGGTGATCACTTTACCTTCTGTGA	29569	GTCTGGCTTGATAGGCTCCATCT	40553
6928	GTGTTCCCCAAAACAATCCCAGTT	18586	TTCAAGTCCCGTGAGTTATCCTA	29570	TGGGGTGTGCATCAGTGTTC	40554
6929	GCAAGTCTCCTAGTTACGCAAGTCA	18587	CAGTTAAGCCTCTTTGATGGGAATG	29571	GGCAGATTGTGGAGCAAGTCTCCTA	40555
6930	GGTGAATCTCAGCTCAGTTCTTCAGATT	18588	TCTTAGGGGAGGCCAGACCAA	29572	GGTGGGCAGCAGGTGAAATCT	40556
6931	AGACGTAAAGACTATGTGGCAAA	18589	GGTGGAATGTCTGTGAATGTTAGTGA	29573	GCAAGCTGGAGACGTAAAGAGCTA	40557
6932	GCTTCTGTGATTGCCAATACCATT	18590	ATGAGACAAGCAGCTCCGTTTA	29574	CCTAAGACATGTAACGCTTCTGTGA	40558
6933	GCACACAATATGCCATTTCTCTGAA	18591	CACCTAGTGCCCTCAGGAA	29575	CAGGGAAAGCACACAATATGCCATT	40559
6934	TGGGAAATGGTGTTCCTCATAG	18592	GACTTGAACATGTCTCTCTACCTA	29576	GTGCACAGAATGGGAAATGGTGTT	40560
6935	CTGACATGCCAAGTGCCAGAA	18593	CTGTTTCAATCCTGGAGCTGTCTGT	29577	TCCTACACGTGGGCCTGACAT	40561
6936	GGCAAAGACCTGAAGAATGACGAT	18594	ACCCCTTCCCTGCTTCTGT	29578	AGGAGATAGAGGCAGGACTGAA	40562
6937	CGCAGCTACAACATAAGCCAAA	18595	GGCTCTCAACATGCAGACCTTGAT	29579	CCTGTACTCAGAAACGCAGCTACA	40563
6938	CGCACATGCATCCTCTGGTACT	18596	GGGAGGAGGTAGGAGTTGTAAA	29580	GGTGGCAAAGCCGCACAT	40564
6939	GGAAACTGTGCATCCTAGTTCTGA	18597	GCCCAGGGGACTATTTTGTCTGT	29581	GGGCTATGGAGTCAGGAACTGT	40565
6940	AGCTGAAGCTGCAGGAGGAT	18598	CCCTAATGGTCCAGCCAACATAC	29582	GGAGGAAAAAGGCTTAGGAAGCTGAA	40566
6941	TGCTCCAGATCTAGTAATACTGCTT	18599	AGCGCTGTGAACTCAGGAATG	29583	TCCTGTGGTTGCCTCCAGAT	40567
6942	CCACAACCTTTAGACTGAGGTCTT	18600	GTAGTCCACCATCCTGATAAGGTTAAG	29584	TGCCGATTGCAGACCCACAA	40568
6943	GCAAAGCACTGGCCACATTG	18601	CCTTATACCCCACTCCACGAA	29585	GCCTTCAAGTGAGAAGCAAAG	40569
6944	CACACTGGTTAAAAGTGGCATGTATGA	18602	CGCAAAGGATTTTGTCTTCACT	29586	ACCTCACTATGACACTGGTTAAAAG	40570
6945	GGAAAGCAGCTGGCAGTATGA	18603	CAGCAGCAGCAAACTGTCTATT	29587	GAATGTTCTGCCATCTTGGGAAAG	40571
6946	CTCCCTTCTATAATACCACTCACAGATAG	18604	CACCGGTGGGTTTGTAGCAGAT	29588	GGGAGACGGAAGTTCTCCCTCTATAATAC	40572
6947	GCCGTGTTTACGCTCTTCTTG	18605	TGTCCTTGGGAGGAGAGCTAGT	29589	TCTTGAATGCAATGCGGTGTTTAC	40573
6948	GCCATTTTACACCGCTTCCACAGT	18606	AGCTACCGCCCATGACAGA	29590	CCAGTGCAAGGTTGCCATTACA	40574
6949	CCGAGAGGCACAGACCAATGAAGA	18607	CCAGCTTAGCCCTAAATAAAGCACAGT	29591	CAGAGTCCGAGAGGCACAGA	40575
6950	GGATAGTGAGTTCTCGTGGATGA	18608	GGTGTGGGACCATGGAGACAAAT	29592	CCATACCTCTTTACTGGATAGTGAGTTT	40576
6951	CCTCCCATTTCTGAGGCACTCTTA	18609	CAATTGACAGTAAGGGAGAACACAAAC	29593	TGCCTTGACCTCCCCATTCTGA	40577
6952	GCCCAGGAGTTGACCTTTCAAT	18610	GGCCTTATCATGATCTGAGGATGAAGTTT	29594	CTGCAGAAATGCCAGGAGTTG	40578

6953	AGGAGTATAGTAAGTTCTCGGTAGCAT	18611	GTGCAATCTAGTGGCAGTTTCTAAG	29595	GGGTTAGGTGACTCTAGGAGTATAGTAAG	40579
6954	TGAGCTTGTTCTGGTCCTTATCTTT	18612	GATTTGTGTTAGTGCATCCAACTTC	29596	GCCCCCTCAATTTGCTATGAGCTTGT	40580
6955	CGGGTAGTAAGCACACAGCAA	18613	CGCTCTGAGACAGCCATACATTTG	29597	TGGCAACGACGGGTAGTAAG	40581
6956	GGAGAGTAAAGCCACCATCTAAGGGTTA	18614	CCAAGGCTAGTGCCTCTCATGT	29598	ACTGTCTTGTGACCAGGAGAGTA	40582
6957	AGGGGCACTTCCAAAAACATAATCT	18615	CAGCTCCGCTCTTTCATTCTTACA	29599	CGCATTGAGGGGCACTTCCAAA	40583
6958	CTGGGAAACAGTCATTACCAACATAC	18616	CTGTCTGCTGGGCTGTCTTA	29600	TTCTCTGACAAAGACTGGGAAACA	40584
6959	GCAGTGACAAAGAAATTAGGCCAAGTCTA	18617	CAGGGATCAGACAGAGACATTGTT	29601	GTTCTTGACAGCAGTGACAAGA	40585
6960	GCACACAGTGAGTTCTGGCAAAG	18618	AGTACAAGACTGTGAGTCAGGAGAT	29602	TGGTTGGCAGCACACAGTGA	40586
6961	TTCTCTCTGAAAACGGAAGAATGA	18619	GTGAAGCCAGAGGTGCTCTT	29603	GGAGGCATCTCACTTCTCTCTGAA	40587
6962	TGGAACCTAATCCTGTTCACTA	18620	CTCTGAGCAACAGAATCCACAGAT	29604	CACCTACAAGTATGGAACCTAATC	40588
6963	CTGTCTTAGCTGTGAGAATACCAACTGT	18621	CTGTGCCACCGTCTATGTAATTATGT	29605	GCATCCCTATTACTGTCTTAGCTGCAGA	40589
6964	CAGTGCCACAGCACTTCTCA	18622	CAACAAGATTCACTGCCAGGAACA	29606	GAGAGTTTGGGCACTGGTGAT	40590
6965	GCTACTCTCAGGCCCTCTTCTA	18623	GAATATAGCGGCCAGGTGATGA	29607	GCCTCCAGGGTGCTACTCTCA	40591
6966	CCTCTCAACGAAGGCATAATGCTA	18624	AGAGGACGTGGTTATCTTGTCAATG	29608	TCATCTCTCCCTCTCAACGAA	40592
6967	GTCACCATTTCTGGATAGTCTGAGGAA	18625	GGCTCATAGCCATCTTCAAGGACCTA	29609	ACTTTACAGTCCACCATTTCTGGATAG	40593
6968	TGACCCAGAAGAGTTTGGAGTTG	18626	GCCTACTTCTCATACACAGCTCTCTA	29610	GCTGAGCTTTCGTTTTGACCCAGAAG	40594
6969	AGTGAATTGAAGAGGGCAGGAAAT	18627	CATGTAAGAGCCTTCAGATCCTGTCT	29611	AGCCAGATTGCACTGAATTGAAGA	40595
6970	GTGGCAGTGCCAAAAGAACACAA	18628	CGAGTCCATGTGCAGAAAGAAC	29612	GTAGTGTTGGCAGTGGCAAA	40596
6971	GGTCTGTGCTCGTTGGTTA	18629	GGCTGTCTGCTTCCAAACACT	29613	CTGCCTCATTCGAAGTCTGT	40597
6972	GAGTAGTCCAGGTTATCCTCAGAGTCA	18630	GGAGAAATCCCTATTCTCCCTGTTG	29614	GAGGGAAGAGAGTAGTCCAGGTTAT	40598
6973	GCTTCACCTGGCAGCTGTTTC	18631	CTGTGTAAGCAGGATCACCGATCT	29615	GGTTTGGACACCATTGCTTCACTT	40599
6974	GCTGGGGAGATGCTTTGGATTTTG	18632	GAAGTGGTCCGAGGATGAGA	29616	GAACCTTGTCTGGGAGATGCTCTT	40600
6975	GCATGGCAGAAGCTAGAAAGAAAGGAT	18633	AGGGAGAGGCAAAATAAGTATGTGTAAC	29617	CAGCCAAGAGCATGGCAGAA	40601
6976	CCTAAGTGTTGGTTGAGAATCACT	18634	AGGGAGCTAGTATGGTCTTAGAGTAA	29618	GGGCATACGGACCTAAGTGGTT	40602
6977	TCAGCATGTAGCCTTGCCAAA	18635	CCTAATCGTCTGCTGGTGTCAT	29619	CAGGTTTGGGTTATCAGCATGTAG	40603
6978	GCCCATTAATTTCCCACTACTCTCT	18636	TCCTCTCCCACTCTCTTAAAA	29620	TGTCCTGACTCCTGCCATT	40604
6979	CCAGCTAGACCGGAAAGTACAGGAT	18637	CACCACCAATCAGAGAATTGCCTTT	29621	TGCTCCAGCTAGACCGGAAA	40605
6980	TGCTGCTCAAGTGTTTCCTCT	18638	TGGAGACTGGTCACTGACACACA	29622	CCCTTCTGACCATTTGCTGCTCAA	40606
6981	CCTTTCTAGAGTGGTCCATTATCTCA	18639	TGGTTTTCCATCTGCTCACTTTTC	29623	CAAGGACTTTGGCTCCCTTTCT	40607
6982	GGAGGCCTTTCTGAACCATCTT	18640	GAATGGTGGAAAGGGTAAATGTCAATG	29624	TCATCTTCAAGGAGGCTTTTC	40608
6983	CTGTTGAGGCCTGAGGCATTG	18641	GTGATAATCTGCTCCTAGCTGAACA	29625	ACTGAGCCTGGCCCTGTTGTA	40609
6984	GGGCTACACTGATGACAGCTT	18642	AGGAGAGCAGAGGATTTCATGCTAATG	29626	AGAGCCCTTGGGGCTACACT	40610
6985	GCTTTGGAATTTGGGGTGACCTTTC	18643	AGACTGGATGTGAAATCCTTGAA	29627	GGAGAACCCTGAAGCTTTGGAAT	40611
6986	GCCCTGTTTCATGGATAAAGAGCATTG	18644	TCATGGCTCCCTCACTTCTTA	29628	GAGCAGCCCTGTTCATGGAT	40612
6987	CCAGATGCCATGATAGTCCCTTTTC	18645	CCAGGCCAGTTCTGAGAGGAAACA	29629	GAAAGTGACCAGATGCCATGAT	40613
6988	GAGGCTGATGGAATGGTAAAGCAA	18646	GGGTGACAGCTTCTTCTAATGT	29630	TGGTGATGAGTATGAGAGGCTGAT	40614
6989	CCCTCGGTTACAGCAACAGTTC	18647	GCATCCAGTTATCCAGAGAGCATGAGT	29631	GTGTGTGTAGAGTTCCCTGGTTAC	40615
6990	GGGGATCAACGAGAGCCTAGAGT	18648	GTCAAGGGAGACTAGTAAGTGGGTCTT	29632	TAGCACCCACACGGGGATCAA	40616
6991	CCCAGAGATAGTCTCTACTGACCACTT	18649	CAGAGAAGCAAAATGTGATCTGTGT	29633	CTGAGGACAGACCCAGAGATAG	40617
6992	CGCCAACAGGGTTTGGAGTAGT	18650	CAGGCCTGAGAGAAATTCACAGTTG	29634	CCTGTGACAGGTTTCCGCCAACA	40618
6993	CCTGACCATCTTTGCAAATCAGGCTTTA	18651	TGCAGAGGACCACTAGTCCAA	29635	CGTGACTGCCCTGACCATCTTT	40619
6994	GGGTACAGTCCCTTCCACTTTTG	18652	GTGTTAGGCGATGATGATTGTA	29636	GGCCTGGGTACCACTCTT	40620
6995	GCTTGGGGCAAGAGTTGTTTAC	18653	GCGGTTTGAGGTATAAATGGAAGTGA	29637	ATTGCCCTGCTTGGGGCAAGA	40621
6996	CAGGGTGACTGACATGGGTTT	18654	GACATGAAGACTCGCTTGAATTTGATTCT	29638	TCGTGCCACAGGGTGACTGA	40622
6997	AGGAGTTGCCTCTGGGTCACTT	18655	GGCACTAGAGGCTTAAGCACAACTT	29639	AAGCCTGCTTCTCCTAGGAGTTG	40623
6998	GGAAGATTGGGCATGGTTACATCCATATAC	18656	GGTTTAGGAAGCTCTCTCTCCAA	29640	AGTGAAGATTGGGCATGGTTACA	40624
6999	CCTGCCTCACTGCTCCTTCT	18657	GACAGTTTTCACTTTGACAGGAAGTA	29641	TCACGGTCTGCTCACT	40625
7000	GGGAGGAACCAAGTCCCATTG	18658	GGCCAAATTATGGGTGGGTTAGCAA	29642	TACCCCTCTGGGAGGAACCAA	40626
7001	CAGTATCACAAAGCTCACTTTGGTTTC	18659	GGTACTGGGCATTGTACTTGACT	29643	CAGAAGGAAGCTACCAGTATCACAA	40627
7002	CAGAAGTGGTATTCTGGGCATGAAC	18660	GCTTCCATGAGCTGTCTCAATCT	29644	CTGCAGTTGGATCAGAAGTGGTATTC	40628
7003	GCTGCTACTTCTTCTTTTGGCTAACTTTC	18661	ACCCTCTCCAGCCCTGAAAA	29645	GGCCTGATTTCATGCTGCTGCTA	40629
7004	CTCACACAGCCTTCTGGGATCA	18662	GGGCTCTCTGAGTGAAGGATGT	29646	CACTGAAGTATGTTGTTTCTCACACA	40630
7005	CCATGTAAAGTGTTGGTGGAAGGAA	18663	GTGGCCTTCTCTGAATGAAGT	29647	AGCAATGGAACCACTCCATGT	40631
7006	GGGATCTCTCACTCCACACAGT	18664	GACAGAGCAGAGGTAATGGGTACTTG	29648	TGCAAAACATCTTTGGAAGGGATCT	40632
7007	GGCCAGGTTTAGGAAGGCTTTA	18665	CCATCCATGTCCCAATCCAGAGTT	29649	GGATCTAGTGATTGTTAGGCCAGGTT	40633
7008	GGAGGCTGTAGTTGCTCTCATATCTA	18666	GCACACAACACTACCCATTTTCTGA	29650	CCCCACAAGTAGGAGGCTGTAGT	40634
7009	CAGCTTGGTAACCCACATAAATACTCAAC	18667	CGATTGTATTGCTTTGCTCCTTTGT	29651	TCAAACAGCTTGGTAACCCACAT	40635
7010	CCATAACCACACAGGAAGTCTGATG	18668	GGCCAGAGATAGCATCCTCTGAAT	29652	GGAATGTCCACTCCATAACCCACACA	40636
7011	GAGGAGCCTGGAAGTACCAAA	18669	CGAGCCTGCTCCCTTACA	29653	GCCCGAGGGAGAGATTGAAGA	40637
7012	GGGAGGAATGTTTACTTTGCCTTGACA	18670	GCCTCAAAGTGACAGGAGTGA	29654	CCGTAGCCTGGGAGGAATGTTTAC	40638
7013	ACTCGCTATCTTTTCACTGTTGAT	18671	GGTGGGCAAGGATGCTACTCAA	29655	CCATTGACGAAACTCGCTATCCTT	40639
7014	GCAAGAGGAATGGACAGTAGAGAAG	18672	CCTGGGCAGTTTCACTGTTGT	29656	GTCAGCTACTGGGCAAGAGGAA	40640
7015	CTTAGCGTCAACAGCAGACA	18673	TCTGCTAGAAACGGGCTGA	29657	GTCAGCTGCTTCTAGCGTACA	40641
7016	GACCTCAACCATCATCATGTGTTT	18674	GCCCTCAAAGACCTCACAGATT	29658	TCTCGCTCTGACCTCAACAT	40642
7017	TGCTCCCTGAGATGGAGACT	18675	GCTCCTGACCTCACAACAACCTTCT	29659	TGGTGACGGGAGTTGGAATG	40643

7018	AGCCATCTACCACTGTTCTTTCAAT	18676	GGCACAAACCTGAGAACTTGAAC	29660	CCATTTTCAGCCATCTACCACTGT	40644
7019	GGGCAAATTCCTCCGACATCAGA	18677	CGCTAGCCAGGTTTCGTTTAG	29661	CCAACCTCAGAGGGGCAAATTC	40645
7020	GGTATCCGAATGGAGGACCAAGTAAT	18678	GCGAAGGACGTCAGCGATGTAA	29662	GTTCCTGGAGGATATCCGAATG	40646
7021	GGCCCGCCTCAAAAATCTACCAA	18679	GATTGTGGTATAAGGTGGTTAGTTG	29663	CCTTGGCCCCGCTCAAAA	40647
7022	TGGCCAATAGAAATGTGTGAGGAAT	18680	CTCTCAAAGGCTTTTACCTGGGAGTA	29664	GGCATGGCTGTGACTTGTCTTG	40648
7023	GGGCGGAAAAGATACACCCATAA	18681	CCAACCTAGCCCCACTAATTTCT	29665	CACACTGAAAATAAAAGGGCGGAAA	40649
7024	CAGCATCGCAGTCTGTATTTC	18682	CAGAAAGTTCAACGAGACACAATC	29666	CGGAATGAGGATGGCAGTTACA	40650
7025	CACGCTTAGATTTTCAGTGAGCAAGA	18683	GGGAGTATGCCCTTTGCTGTT	29667	GCCTGTGCCATCACGCTTAGA	40651
7026	CACCTGGTTTCTAGGACCATGTTAAAG	18684	GTCAGCAAGAACCCTTCAAGT	29668	ACAAGGAAGCTGTCACTGGTTT	40652
7027	GTGAAGATCCACAGCTCGGAATAC	18685	GCTGTGGTGATCGTGGTTGT	29669	AGGAGCACGGCTGTGAAGAT	40653
7028	GCTAGGTGTTACTTTAGGTTGGATAG	18686	TCCTTCCCCTATAGAAATGCTCTTTT	29670	GCTAGAGGATCGCTAGGTGGTTAC	40654
7029	AGGTAACGCACTGACTTTTGAGT	18687	CAGGCTGCTCTTGGGAAGTT	29671	GCTCCGGGCTTCAGTTTTAGGTA	40655
7030	AACTCGCCAGGGCTGTTGAT	18688	CTCCCTAGAGAATCCTAAGACCAACCA	29672	AGGGTTACGGGCAGAGAACT	40656
7031	CCTCCTCAGATGACCAGAAATC	18689	GCATGGCTGAAGCTGAATCTTG	29673	CCCTCTCCACCTCTCTCAGA	40657
7032	CCTCAGTCAGGTTTCCAGAAGGTACT	18690	GCCCCAGTGGTTCAGTCTTAG	29674	GTGTGAATGCCCTCAGTCAGGTT	40658
7033	GCAACCGGTGCCACCATAGA	18691	GCCGGAGAGCAACGCACAT	29675	ACACAGTGCTGGCTGCAA	40659
7034	CCCCTAACCTGATTGCCAACAGAA	18692	GCAGGCTAAGATTACTCGTCTAAACA	29676	GAAGCTCTTACCCTAACTCGATTG	40660
7035	CCTGGGAGGTAAAGCCATTGTAAG	18693	GAACCTGAATCTGAAGGACTATGGAT	29677	TGATGGGCTTCTGGGAGGTAA	40661
7036	CCAGACCTCAGAAATGTCCTGTTT	18694	GCAGGCTGTGAGACCATGAAAAC	29678	TGGTTGACTGCCAGACCTCAGA	40662
7037	GGAGACTGGCTTTGGCAACACA	18695	CAAGGAGACAGATCCTTGGGAAAG	29679	TCTTGGCAGACAGGAGACT	40663
7038	TGCCACACAACCTGTGTGCTT	18696	GGCAGGAACTCAGGACTCAAGA	29680	GCAGCTTGCTGCCACACAA	40664
7039	GGATCTTGCCTCCAGGCCTTT	18697	GCCACCTCCACTACACTCCAT	29681	TGAGGGCTGCTAGGATCTTG	40665
7040	TGGGTTTAGGCGGCATCCTT	18698	CCAAGGAGAACTTTTGGCACTGA	29682	GCAGTCGCAACTCTGGGTTTAG	40666
7041	GGCTGTCATCAACAGGGAAT	18699	GCCCACCTTTGGCCTCTCT	29683	GTCAAAGCTGGCCTGCATCA	40667
7042	GCTGGATGGTATGTAGCCAACT	18700	GGGGAGAGGCACTGAATACCTT	29684	ACTGCTGCCCTCTGCTGGAT	40668
7043	CCCCAAAGTCTGTGCTTTTCTACT	18701	GCTTACAGTAGATCGCGGAAGA	29685	CCTCTCAAACCCCAAAGTCTGT	40669
7044	CCTCTGGAGCATTGCAGATCA	18702	AGCTGAGCATCGGTAAATTCCAA	29686	TGGTCTTGCCCTCTGAGACT	40670
7045	GGATTTCCAGCAACTTTAGCAGGTA	18703	CCATGGCTGACCATGAACCTCTAC	29687	GGCTTAGAAGGATTCCAGCAACT	40671
7046	CGCTTGCTCCAGGATGGACTTAG	18704	CACCAGATGGCTGATTGTCTCTTC	29688	GCAAGGAGCACATCGCTTGT	40672
7047	AGGGCATGTCCACTGCATTTC	18705	GCATGCCTGGGAGGTAAAGAATTG	29689	TGTAGTGACAGAGGCGATGT	40673
7048	AGTGGGTCTGTTCTCAGTAATTC	18706	CTGCTGGGGAACCAAGTTGCATA	29690	ACTTCCGGGTAGTGGGTCTGTT	40674
7049	GCAATGGCCTGGCTAGAAAGGAA	18707	CCACGCTCTCAGTGGGTAGAAT	29691	GGGTTTACAGTGGGAAGGCAAA	40675
7050	GCTGTGTACCAGAATCTCTGTTTTGT	18708	CTGGCTCATATCTACGAATCCATCT	29692	AGGACTAGCTGTGTACCAGAATCTT	40676
7051	GTCTGAGAGCTGTCCCTTATG	18709	GTCTACACTGATTTCTGGAACGATGA	29693	CAGCTTACTGGCTGTCTGAGA	40677
7052	CCAGACTTGCTTCAAGCATGTTA	18710	GCAGTTATCAGAAAACAGACAGTAGGTA	29694	CCCAACCAAGGATATCCAGACT	40678
7053	GTCCATCTCACTGCGGAGAAGTT	18711	CCTGCCGACTCATTCTCCCTATG	29695	CCATCACAGCCTGTCCATCTCA	40679
7054	GGCCGAGTCAAAACAAACGATGTTG	18712	GCCCAACTCAGTAGCCCTTAA	29696	CACAGAGGCCGAGTCAAAACA	40680
7055	GCAGTTTATCCTTGGGACAGACAGT	18713	GCATGCAGGAAAGTCAAATCCAT	29697	GGAAGGGGCAGCAGTTTATCCTT	40681
7056	CAAAGGCCAGGAAGAGGGTAT	18714	CCAAATTTCTGGCCTCCACTTG	29698	TGGGGAAAGTGCTGCCAAAG	40682
7057	CTGAGGAAGTCCATGTTTCCCCTTA	18715	TCTCTACGACAGCAATTGGTTAT	29699	GGGTCAATCGTTGGCATTATCTGAGGAA	40683
7058	TCGCCCCCTGAGTGAGAGAAGA	18716	CAGCTGTTGCCAAGCTTTCATC	29700	TTACCACCTCGCCCCCTTGAGT	40684
7059	GCACCTTCCAGTTGTCAGATACCTT	18717	GGCCTGTAGTGGGAAGAGTGAA	29701	CATTTCATACCTTGCACTTCAGTT	40685
7060	CCACCTGATTTCCGCTTTGTGA	18718	GGTCCAGGTCTGTGCAGGAATC	29702	CCAGCCACTAATTTTCCACCTGAT	40686
7061	CATCCCTGAATGTGCAAGTTGTTCCAT	18719	CTAACACAATGTCTGTACACA	29703	CCATGTCTGTATCCCTGAATTTGT	40687
7062	CGGCTCCATCAGTTCTCTGAGAGT	18720	CAGTGAATGGCATGGGAGAAATGT	29704	GCAGCCGGCTCCATCAGTT	40688
7063	GCCTCTGGCTCAAGATGTCTACA	18721	ACCACAGCCCTGCTGACTT	29705	AGGTAGATGCCTTGGCTCAA	40689
7064	ACCGGGAGAACGCACCTTCA	18722	GTTCACTGACTCTCACCCACAAGT	29706	CCTGTGCTGATACCCGGGAGAA	40690
7065	ACCTCCTTTCCCAGCATGAAG	18723	GCCAGTGACTTTGATGGGAGAAGA	29707	CCGATGCTGCCTTAACCTCCTT	40691
7066	CCTTCCAGAAAGCCAAACACAATCTCA	18724	TCCAAGGCCCTTCTAGACTTG	29708	CTGCTCCTCCAGAAAGCCAAAC	40692
7067	GTCTCGATGTAAAGTTGAGGACTCT	18725	AGCCTCCTGAGGCCAGAAAA	29709	GGACAAACCCAGAGTCTCGATGTA	40693
7068	GAGGCTAGTTAGCACCAAGTCTGA	18726	TGTCCTAAGCCCAGTGCAAGA	29710	CGAGGTTTTAAGAAGTGAGGCTAGTT	40694
7069	AAGGATGTACCTGCAGGGTTATCTAC	18727	CTGCGATGTGCCAAGTATTTGAT	29711	ACAGAAGACCCGAGAAGGATGTA	40695
7070	CACCAAGATGGGTGATGATGGTT	18728	CCAGTGAGGAACATTGCCTGGAT	29712	GCAAGATGCTGTTTCTTACCAA	40696
7071	CGTCTCAGTACTTTGGCAGTGAT	18729	AGCCGGCAGGAGGAGGAAGA	29713	TGAACCCGCTCTCAGTGACTT	40697
7072	GACTGTTGTGGTGACGCTTGT	18730	GACCTGGCTGAAAAGTCTGTAAGT	29714	AAAGAAAGGCCCTGTAAACAGACT	40698
7073	GCTTCAGGAAGCCTTTAGGAACT	18731	GGTCTAACTGCCCTGTTCA	29715	AACCGGGACAGACGCCCTTCA	40699
7074	GATAATCAGGTAGATAGGATGACCTGTTT	18732	GCTGGGGAAGAGGCTGAGTAA	29716	GCAGAGGAGGATTTTGATAATCAGGTAGAT	40700
7075	GGGCAGCTCTGAACCTGTCATTG	18733	CCTTGCAGTCACCAATGTTTTGT	29717	TGATATCGGGGCAGCTCTGAA	40701
7076	GCCAGAGAAACCTTAAGCTGAACATA	18734	GGGTTCTGGTGCTTGGGGTTTA	29718	GGCTGATTGCCAGAGAAACCTT	40702
7077	GCAAGCACTGTGTGAAGTATCCAA	18735	CAAGTGTTAATTGACCTCTCTGTTGA	29719	CCAGAAAAGCAAGCACTTGTGTGAA	40703
7078	CCTTTATTCCTGAAGGATCTGGGTTGT	18736	CAGTCCCTGGGATTAAGGTCAA	29720	AGCTACCCAAACCTTTACTCTGAAG	40704
7079	GACAGGTGTCTAAAACCTTCTCTGTA	18737	CTGCAGGTAACAATGCAACACAAG	29721	GGCCATGCTTGACAGGTGTCTAAAACCT	40705
7080	GCTGGCCCTTTAAATATCCAGAGA	18738	TGCAACGAACTTCTCTCCAT	29722	GGGAAAAATAGGTGCTGGCCCTTTA	40706
7081	TGGCCCTCAGAGTCACAGTGTA	18739	CCTTCTGGGACATGAATGTGA	29723	CTAGAAGGGTGGCCCTCAGA	40707
7082	TGACTGAAAGCACCTAGCAACA	18740	CGGGAGGGAAGGGGAGAAATTAG	29724	GGTGGGCTGCATATGACTGAA	40708

7083	AGCAACTGTGCTTTTGAGAGGAT	18741	GTCTCTGAAGTCCAGGCTAGTGAT	29725	GGCAGTGCCTTTGGGTAAAGCAA	40709
7084	CCAAACCTCAGTAAATGGGGAGATT	18742	GCAGTGAGGGGCGAATAATAGT	29726	ACAACCTTTGACTTCCAAACCTCAGT	40710
7085	GGAAAGCCCAACCTCAAGGTAAGA	18743	CTTCTTCTGACTACAGGGCTTGTT	29727	CCTACAGAGGGAAGCCCAAC	40711
7086	GTGCTTGGCGCTTGCAATGA	18744	TGGCAGACTACTCAACACATTTTC	29728	AGCAGCCGGGCAAGGGAAAT	40712
7087	CCCCTTTTGAACAGTGAGTCAATTC	18745	AGGGCCCAACAGTCTGGAAGA	29729	GTTCTTACCCTGTTTGAACAGT	40713
7088	CAAATCTCTGTGTACTGCGGAACA	18746	GAGATGTTTATGTATGCGATGGTTTC	29730	GCTTATGTCTCCCAATCTCTGGTGAT	40714
7089	TCTGGGCAGAGTTAAGAAGGAAGA	18747	TGGCTGTGGCAGGCTATTCT	29731	TGTTCAGGATCTGGGCAGAGTT	40715
7090	CAGTTCCTCATGTGTCTGTAGA	18748	CCCTGAATCTGAAGAGCCAAATCT	29732	ACAGCCCCTCAGCCAGTTT	40716
7091	CCAGGTACCGATTGGGCAGTTT	18749	GGCGCCCTGCCATACAATAAG	29733	TGGGAGGACCAGGTACCCGATT	40717
7092	CCTTCCAAGGAGACTCTGGTACT	18750	AACAGGCCGCTTAAGAGTTACA	29734	GGAGCCTTGCAATTCAGATAACCTT	40718
7093	CAGAGTCAGGTTAGAAGGGCTGAA	18751	CTCAAGGTGACAGCTAATTGCAACA	29735	GCTGTGTGTAGAGTCAGGTTAG	40719
7094	GGGGTTGGGACTATGAGGAAGTGT	18752	CCTCTCAATCTGCCCTGCAA	29736	AGTTGAGATGGGGTTGGGACTA	40720
7095	TCCAAACACACATGCCCTTTCTCT	18753	CGGGATCTGTAGTAAGAGCCAAT	29737	TGCTGGGTTGCTCTTCCAA	40721
7096	CCACCTGGCCCTGTAGACATTTGA	18754	CTGGCCTTAGAGAAATTCACAGT	29738	AATGACCACCTGGCCCTGTA	40722
7097	GGCTGCCAATGTACTGGAAC	18755	GCGCTGAAGCCAGCAGTAA	29739	CGCAACAATGGCTGCCAAT	40723
7098	CTGTGACAAAGCTGGCACAAC	18756	GCCAGAAATGGCTTGTAGGTTCCCTTG	29740	ACAGGACAAACTTGCTGTGACAA	40724
7099	GACACCACCATGAATTCAGCCCTAA	18757	GTCACTTGATCCAAGAGTCTTCATT	29741	GGCCCAATAGACACCACCATGA	40725
7100	TCCAGTGGCTCTCCTTTCA	18758	CGTCTGTGGTGAGGAAGTACTGT	29742	CCACAGCCAATCAATCAGGGAATC	40726
7101	AGGTGGACTAAGTAGAAGTAGGGTATC	18759	GGAAGCCAATACGCACCCCTAAC	29743	GCGGAAGCTATAGGTGGACTAAG	40727
7102	AGGTGTCAAGGCTCCATGTCT	18760	GAGAGCATCTCTCAAGCCAACA	29744	CAGCCTCCTGTCTCTGGAAA	40728
7103	CCTCCTAATCTGACCCAGAGAGCTAA	18761	CTGCTTCTCCCTTGGGAATGT	29745	CAAGGACGACATTCTCCTAATCTG	40729
7104	GCAATGAGGTGAAAAGCTTCTGTTCATAC	18762	GCACCTTGACGCTTAGGAAT	29746	GACTCGTTATGCAATGAGGTGAAA	40730
7105	GCGTGTAGCTTTTCACTCACTCT	18763	ACTCAATTCCTCAACCTCTTCT	29747	GCTTGAAATGAGCGGTGTAGCTT	40731
7106	GCTGGCTGTAATGAAGGAGGAT	18764	GGACACCTGAAGTCTCTTGACAT	29748	CCTCTCTTCTGTGCTGGCTGTA	40732
7107	CCGTGAGTGGCGTCACTCTGTGA	18765	GTGCCAGGTATGCTGGAAGACA	29749	TGCCACAATGCCGTGAGT	40733
7108	CCTGTCTGTCAAAAGTCTCTTGCTTTG	18766	GCTTCAGGGTCAGTGCAAGGTAAC	29750	CCTCCACCTGTCTGTCAAAAGTCT	40734
7109	GGATTTTCGAGCGCATCTTGAGA	18767	GCAAGTCCAACAATTCGAAGACTAC	29751	AAAGCACACGCCGGATTTTC	40735
7110	CCCATTTGTGCTTCCACATACTCT	18768	TGGAAATGCTGACTACTACTGCTCTA	29752	GCTTTCCCATATGTTATCCCATTTGTGCTT	40736
7111	CCCTTACCTGGAGCATGGTGAATC	18769	GTGGGAATTCAGCTCCACATAGA	29753	TCTCTGTGGCCAGTCCCTTA	40737
7112	TGGGCCTGTGTGCTGCTGATT	18770	GGGAAGTGACATACTACTGCTCTGA	29754	TCCCTCAGTGGGCCTGTGT	40738
7113	GGCTGATGCATATTTGGGAGTACA	18771	CCAAGGTGACATAGGCGGAAAG	29755	AGGGCGATTCTGTGGCTGATG	40739
7114	GGCCAGTCACCCCAAAGACA	18772	CACAAAGGGCAATGTCAAAATGTGT	29756	AATGGGAGAGGTGGCCAGTCA	40740
7115	GGGAAAAGGCCATTAGGCAAGT	18773	TGAACAATCCAGTTGTCTCAGTTT	29757	AATCTTGAGAACAAAGGTGGGGAAA	40741
7116	CCAGGAGAAGAAGGCCAGTGATG	18774	TGCATGATGGACAAGGAAGGTTAG	29758	GGAGTTCAACTTTCCAGGAGAAGAA	40742
7117	GGGCCATGAACAGTGAAGGATT	18775	GCCCAACCTGGAAAGGCTTCTT	29759	GGAATCAGGGCCATGAACAGT	40743
7118	CCCACTGTAGTCCAGTTGAAGGAAA	18776	GCAAGCGCTGAAGCTTGGA	29760	AATGCCAGGCCACACTGTA	40744
7119	GCAAGTGTACTCGTTGGACCAT	18777	CCCAATGAAGCAGGTCAAGTACAGTTT	29761	TGATCGTCTTGAGCAAGTGT	40745
7120	GGTGAATCCGTGAGCACAAC	18778	GCAGGAATGGACATGGGTTTTAGT	29762	GATGAGAATGAGGAGGGTGGAAATC	40746
7121	CTCACATAGAGAAGAAACAGAGCAAGA	18779	GGGGAGACCAAGGACCACTACT	29763	GGAAACAAGCTTTACTCACATAGAGAAG	40747
7122	GGCTAAACCTCCTGCTGCAATC	18780	GTGATTTTTCCCAAGGTCCCTAAGA	29764	CTTTTAAACAGCGTGTGGCTAAAC	40748
7123	CTCCTATGCAAGTCTCAACTGGTA	18781	GCTTATTTAAGGAACCAACCGGCTTT	29765	CCAGCCACCTTAGCTTCTCCTATG	40749
7124	GCCATCTGTGTGTAGCTGGTAAG	18782	GTGGCTGGCAGTACAGACACAT	29766	TGGACAGCCATCCTGGGTGA	40750
7125	GCACCTATGCCATTACAGCAGGTA	18783	CAGAGACAGAAGGAAAACCAGACTT	29767	GCCGTGCACTCATGCCATT	40751
7126	CCGTCTGTGTGTCTGTTGTGA	18784	GGGAAGGCTCAGGACATCTTC	29768	AATCTTTTCTCAGGATTCCGTCTGT	40752
7127	CCTGGGGCAACAGATCATCA	18785	GAGAAAGGAGGAGCTGCTATAGAGT	29769	AGGGAAACACTGGGGCAAC	40753
7128	GGGATCCTTCTTGCTTCACT	18786	CTGTATCTCTGAAGTTCCCTTGTGT	29770	GGCTGTCAATTTACGGGGATCCTT	40754
7129	GCAGAGAGATGGAGAGAGATGGTCTT	18787	GGACTCCTTTGAGGTGTGGGTCTT	29771	GGGAGCAGAGAGATGGAGAGA	40755
7130	CACCCTCCTATAGAGCTTCAGA	18788	CCTTGACTGTGGGAATGACATTGA	29772	TGGAGTTAAGCACCTCCCTAT	40756
7131	TGAGGGCAATGTCTAGAAAAGCATA	18789	CCTCAGACCTCATCATCCAT	29773	CAGCTACATTGAGGGCAATGTCTT	40757
7132	TCTGGAACACAGCAAGACTCAAG	18790	GTGACGTCCACCTGATGTCACAA	29774	GGGGAGCATGGATTCTGGAACA	40758
7133	GAAAGGTGTGTCATTTACTCTCGTATG	18791	ACAGCTGAGGTAAAGCTTGTTC	29775	GGGCAAAACAGACAGAAAGGTGTTG	40759
7134	GACTAGAGGAGGGTAGGAGGAAGT	18792	CTGCCTGAAGCTCTGTTCTCTTC	29776	GGAAGCGATGTTAGGTTAAGACTAGA	40760
7135	GCGTCATCCCTAGCACATTTTAGACT	18793	CCTCTCCGACTTCTCTGATGT	29777	CTGCGTCATCCCTAGCACAA	40761
7136	GGCTGTGAGGTTTATAGATACACCTTT	18794	GCACTGGGAATTTGTGGTTAACATTG	29778	CCCTGGCTGTGAGGTTTATAGT	40762
7137	GGCAGCCAGACATCTTCTAAAT	18795	GGGACACTGTAGATCAGTGGTTAAA	29779	TTTGCTCGGCAGCCAGACAT	40763
7138	GCATCAGCTAAATGATGGTCTT	18796	ATGGCCCATGGGGTCACAGT	29780	GCACAGCAGAGCATCAGCTAAA	40764
7139	TCTGACTTAGGTTTTCTTGCTGTAG	18797	TCCTGCAAGGAGACTGGAGGAA	29781	GCCCTTTCTCTGACTTAGGTTT	40765
7140	GCCTGCAAGTTCAATAAGGCTACTGT	18798	TGTGCAAAACATTATCTGGTAAC	29782	GCCTCATGCCTGCAGTTCAA	40766
7141	ACTGAGCATGCTTTTGCTCTCAA	18799	CCAGAGGGTGACATATTTCTCATGT	29783	GCCCCAATCACAACCTGAGCAT	40767
7142	CGGTCAAACATGAGGATGAGAAAAT	18800	CCTTTCAGAGGACACCCCTGATG	29784	TGAGGGATTAAACACGGTCAACAA	40768
7143	CACCGTATAATTAGCGGGAGTGT	18801	CATGGCTAAACAGCCTGGGTATTG	29785	GAGGTCCAGTCTTTTACCCGTAT	40769
7144	TGGAGGTGAGTGCTGAGACAGA	18802	GACTTTCAGTAGGGTACCCAGATTCT	29786	GCCACCTGTTTGGAGGTGAGT	40770
7145	GGGGAGGAAAGATGATGAGGGAAGT	18803	CAGCTGCTGTCTAAATACTCCTTTGT	29787	GGTTTGGCGGGAGGAAAGATGA	40771
7146	GGGTGGCCTAGTTTGAAGAGTGAT	18804	GTCTGTCATCTCTCACCATTAC	29788	GGGATTGGGTGGCCTAGTTTGA	40772
7147	GAGCAAGCAAGCAGCACACT	18805	GTGTGGAAAAGGTTAAGGAGACAGAA	29789	GAGGAAGGGAAGAGCAAGCAA	40773

7148	CCTGTAGTGATTTCCAAGACCTCACCAT	18806	TGCCTCCCAAGTAGGATAGAACT	29790	GCAGCACACATCCTGTAGTGA	40774
7149	GCATGTTATTCTCTCCAGGTCAGAA	18807	CCCGCTGAACAGGTTCTTGAGT	29791	GCAAGCTGAAACTCTGGGCATGT	40775
7150	GCAGTGTCTAGCACACAATGTCA	18808	CCATCTAACCATCCACCTCATTTTTCAAAC	29792	CATCCCTGGAATTAGCAGTGTCT	40776
7151	CTTGACACAGTGTAGAATCTGAGGAT	18809	CAGAGCACTCCTCTCCAAAAAG	29793	GAAGAGTGAGCTTCTTGACAGT	40777
7152	CCAACCTGATTCAATCCAGTAATGTT	18810	CTTCTCAGTCTGTATGCCTGACTCT	29794	GCCCAGGTTCCAACCTGATT	40778
7153	CCCTTCTGTTTTCTCAACCTGTGT	18811	GTATTACCGCAAAGGGAGCAAATG	29795	GCTTCTAGTATTAGCCCTTCTGT	40779
7154	GGCTTATGAACCAAACCACTTGCT	18812	CCAGTATCCACTCTAACAGTCAAAGGAA	29796	CCCCTGGGCTTATGAACCAAAC	40780
7155	CAGTGTCTGTACTGACAGGGAAAAAG	18813	CTGCACACTGTTGGCAATGACTT	29797	CCACCACCACACTGTTCTGT	40781
7156	GGGCCAGCTTGTGGAGAGT	18814	AACCCAGGAGCCTCAGAGATGA	29798	GCAAAAGTGATTGGGGCCAGCTT	40782
7157	GCTGATGAGTCAAGTGCTATCTGT	18815	CAGATCCACAAAATCAGGTCTCACATC	29799	GGCTGGGAAGCTGATGAGTCAA	40783
7158	CTCTTGCTACTGACCAATTGCAGTT	18816	GGAAAGAAAAGGGTGCTCTGGAT	29800	GGACCAGCTCAAATGTTCTTGT	40784
7159	AGGAAGCACCAGGAACCCATCT	18817	GGACAGATCCTGCCTGTACCATTG	29801	CTCTGGAAGATGGTGGCATAAGGAA	40785
7160	CACCTTGGGCTCCTCCTTCTTT	18818	CTGTAACCTCCATCGTAGCCTTCT	29802	AGATTGCCACCTGGACACTTTG	40786
7161	TGGGGATGACTACTTTTGCTATTGT	18819	GGGGAGAAAGAAAGGGAGGACAAA	29803	GGGATGGTGATGGGGATGACTA	40787
7162	GGGAAGGATTCAGTGGTCGAT	18820	GTGATGCACAAAAACAGGCACAA	29804	GGGAGAGCAACAAGAGGGAAGGAT	40788
7163	CTCTGGAAAAGTGAGAGCGTTTTG	18821	CAGGGCCTCCTGACCTGTTT	29805	GCTACACAACTGCATCTCTGGAA	40789
7164	CTGGGGTAGTATGTTTGCCCTTCTA	18822	ACTTATCCCTCGAGTTGTGTATC	29806	GGTGACCTAGCTGGGGTAGTATGT	40790
7165	GGTACCCGAAGAAGGCTATTCCAA	18823	AACGTGGCCAGGCCTTCA	29807	CTCTGCAGGTGGTTCAAGGTA	40791
7166	GGGCAGAAGAGTGGAACAGCTA	18824	GCAGCGTGAACCGGACTAATAACAAAC	29808	TTAGAGGCAGGGGCAGAAGA	40792
7167	GGTGGTGCTTATTGTCTGCAT	18825	CTGCATTGTGAGGACACAGCATTC	29809	CTCTACTTCAAAGGTGGTGCTTA	40793
7168	TGGAGTGGCAGGAGTCTTCA	18826	GGATATCAGTTTGTTCAGGCTT	29810	GAAATTCAGTGGGCTGAGAACCTT	40794
7169	TCCTGCTAGGAGGGTGATCTCT	18827	TCCTTCTCCCTGTCTGTGAAG	29811	TCAGCCCTCTGCATCTCTGCTA	40795
7170	GGTGGTACTGGCCCTGAACA	18828	GGAGATGAGACTGAAAATAGGTAGGTT	29812	TTCCACAGCAGGGTGGTACT	40796
7171	GATTCCAGCTACCCAGCTTTT	18829	GCCTAGGATTTCTCGAAGCAGGTA	29813	GTGAGGCATGCGCAGATAAGATTCT	40797
7172	GATGAAGATGGCACTGGATGTTT	18830	TCGGTAGCTGTGGGAGGTAGA	29814	CGTGCTCTGCAAGATGAAGA	40798
7173	GTCCAGCATAGCCAGTCACTT	18831	CCTTGGCACCTCCAAATACTCT	29815	GGTGAAGGACTCAGTGTCCAGCATAG	40799
7174	CAGCAAAGCTGCAATTTGTCTATCT	18832	GAAATGGAGCCATTAGGTAAGGTGT	29816	GGTGACACTGCCAGTAACAGCAA	40800
7175	CCTTGATTCACTTCCATACCTGCTCTTG	18833	GCTGGCATAGGTAGCCAGGAAAC	29817	GCCCTCCCTTGTATTCTATCCAT	40801
7176	CCCAGACCCACCTTACAGGTTCT	18834	AGGGGACAGGTGAGCCAGAAAT	29818	TGAGCCCAGACCCACCTT	40802
7177	TCTTGAATCAGACAAAGAGCACCAT	18835	TTGCTGGGCTGTGGGCATTC	29819	CTGGAACCTGTGGTTAATCTTGAATC	40803
7178	CATGGACTCAAGACTCCACACA	18836	GGGGATCCACATGGTGAATGT	29820	TCTCCAGCGTCATGGACTCAAG	40804
7179	GGTCAGAGCAGGCATTGTTGT	18837	TCCACAGTCAGCAAGACTCA	29821	GGTAGAAAAGAAACAATTCCAGGTCAGA	40805
7180	TGGGTTTGAGGCACAGTTAGATG	18838	TCCAACTGCTTGTGAGGTT	29822	GGGTTTTAGGGGTGGGTTTGA	40806
7181	TGTGGACAGAGCCTCATGTA	18839	GGAAGCCATGACTAGGCTACAGT	29823	GCAGATGGAGGTTACCAAATCTGT	40807
7182	GGGGTGCCATTTGAGTACCAT	18840	CGCAGGCATGTCTCCGTATAG	29824	TGCTCTGTGGGGTGCCATTT	40808
7183	TCTCAGCTTTAGGCAGAAATCTTAC	18841	CCAATGCCAGGGACACTTCT	29825	CCCTCTTACCCCACTTCTCAGCTCTT	40809
7184	TCTGCCCTTACCTCCTTCTCT	18842	CTAGCTGTCTTCTCCAAGAGTAAGT	29826	TCCCTCTCTCTCTGCCCCTTA	40810
7185	ACCGAGTTAGAGCCTTGACTTTC	18843	GGTGATTGTATGGGAAGCGAATCT	29827	AACATCTGCCGACCGAGTTAG	40811
7186	GTCCAGGTTAATGAGTCTAGAGGAA	18844	CACAATTGCCTCTTTGGCAGTTC	29828	CCCTTAAAGTCCCAGGTTAATGAGT	40812
7187	CCCCTGATGATCCACACCAT	18845	CCACCTTGCCAGTGAAGAAGT	29829	ACCTGGATGCCCTGATGAT	40813
7188	CCATTGAATGTAGAATGCCTCTCT	18846	TGCAACCTGGTAGCTCAGAGT	29830	GCCTTTGCATTGTTTTGGCCATTG	40814
7189	GCCAGCACTTCTGGATGTTACATTG	18847	GGTAGATCAGCCTTCACTGTGTGT	29831	AGTTTTGCAGACCTCTCGGAT	40815
7190	AGGTTTCAGGCCATCCCTCTCT	18848	GCACCATGGCAGGTCCAGAA	29832	GGAGTTTGAGAGCCAGGAGGTTTC	40816
7191	GAGACTTTCGCAAGGTTTTAGCAAT	18849	GGTGTGCAAACTGTGTGCTA	29833	CTGATCAAAGGGCAAGGAGACT	40817
7192	GGAAGGGCTGTTTACAGAACAAAGTACA	18850	CCTGCTTTGCCATGTCCAGAT	29834	GCTAAGGTGGGAAGGGCTGTTT	40818
7193	GGTGCCATAGAAATTAACCAAGGCTCTT	18851	GTGTTTCTCACAATGTTCCGTGCTT	29835	TGGGGTAAACGGTGGCCATAGA	40819
7194	GCAAGAGTCCATGATAGGCATGT	18852	CCCAGTGAAGGAAAGGGTAATG	29836	GCCTAGAATTGCAAGAGTCCATGA	40820
7195	GCCTACACTATTTATCCCATGGTAAAC	18853	ACCTTGACATAGTTGCATGTTG	29837	GGGATGGCAGCTTATGCCTACA	40821
7196	ACTTGTGATGTGTTCTACCTCTT	18854	GAGGAAGCAAGGGAGCTGTA	29838	CCCTAGGAGAGAAAGACATTTGTGA	40822
7197	GACAGAAACCTGTTTGAATCATGGTA	18855	GCTAGGTTACTGTATGCCCTTGAAC	29839	CCACCATAGACAGAAACCTGTTTGA	40823
7198	GCTCTAGAGTATGACGGGGACACA	18856	GACCTTTTCACTAACACTGGTGAGACT	29840	CCATGCAACCCGAGGCTCTA	40824
7199	GAGTGCTCAAAGCTATTCCAGTT	18857	GCCTTCCAGCTCTCTGTTCT	29841	CCTAGGCACCTGAGTGCTCAAA	40825
7200	CCTTGGCCTGAATCCTCTACA	18858	TGTGCAGTAGAAAGGGAGACAAG	29842	GATTTGCCTCTTGGCCTGAA	40826
7201	GCAGCAGCCTGTGCTTTCAT	18859	CATCTGTTTTTCTCCCTCCATTCA	29843	GCTCATGGCTGATTTCACTCACT	40827
7202	ATGTGAGGTACACTTCTTTTGAT	18860	TGGTAGGTTATAGTGAAGTTCAGT	29844	CCCGTCCCAGGTGTCTATGT	40828
7203	GCCTGCTTTAAGACTTTTTCAGTTT	18861	GTATCTGGAGAAATGACTTGTCCAA	29845	GGCTGAAAAGGTGCTGCTT	40829
7204	AGGTGCAAAGGTAGAGGAACAAC	18862	GCTTCGGTAATGCTTCAGGTGTGA	29846	TTGGTAAGAAGAAGGTGCAAAGGTA	40830
7205	CCAGGACTCTCTCGGTTGAGTT	18863	GGCCAGGGACAAATTTGAGA	29847	GGACTGTAAGCCAGGACTCTCT	40831
7206	CTTGTCTTCTCAGGTGCTGTTT	18864	GCCTGTCAGTCACATGCTTCT	29848	CCCTGCCCCCTAAACTTGTCTTC	40832
7207	GTGACTGTAGCATTTCCAGTTCTCT	18865	GGACAATGATGGAGAAATCCCTGTA	29849	GCTGCCAACATCTGTGACTGTAG	40833
7208	CCCTGATCAAAATCATACCTGAAGTCAA	18866	GGCCCAATAACAGGAAGTGCCATAAT	29850	GGAGAGAGAACCTGATCAAAATCAT	40834
7209	GGGACTTTGGGAACACACAGCAT	18867	TTGGGCTCGTGGTCTGCTTCT	29851	ACGAACGCACACGGGACTTT	40835
7210	CAAACACTAAAAGCAACCGTTTGAA	18868	GGCTAGTGACAGAAAGTGTCTATAATG	29852	CTGGTGCTTCCAACACTAAAAGCAA	40836
7211	GGGGCTGTATTGCAAAAGATGCTACT	18869	GAGGGTTCAAACCTGACAGCAGGATT	29853	AGAATAAAATCTGCAAGGGGCTGTA	40837
7212	GGATGGGAAAGAAATTTGGTCTGGAAAGA	18870	GGGCTCCAAAAGCAACACACT	29854	CGAAACACACAAGGATGGGAAAGAA	40838

7213	CTCCAAAGGAACCTTCCAGTAAA	18871	TCCACAGGCTAAGGGTAGAAGAA	29855	GTGGAGCTCATCTCTCCAAAG	40839
7214	CCTTCAGCCTGTGCACGCTTCT	18872	CTGAGCATCAAGCTTGTCTTCTC	29856	GTCTTTACCACTTCAGCCTTGT	40840
7215	ACACTATGTGCTTTTGGCCACAGA	18873	CCAGGCTGGGACCTAATTTGAGCTA	29857	GGGCCAGACACTATGTGCTT	40841
7216	TGGACTGTGCAGGTGTCTGA	18874	GAGAGACCTGAGAAACCCGAATC	29858	GGATCAGGCTGTGGACTGT	40842
7217	AGTCCCCATTATTGTGCTCGTT	18875	AGCTGAGAGCAGTCTCTGGAT	29859	GGTTGTAGAACTACAGTCCCATT	40843
7218	CAGGGTCTCCTACTCTGTAACTTT	18876	GGTTGTAGTCATGATACTGTGTCAT	29860	GGGTTAATTCAGGGTCTCCACTCT	40844
7219	GTGGGCTAGAAATTTTGGCTCTGACA	18877	AGGAGCAAGGCGCAAGCAAT	29861	GGGGTCAACAAATGTGGGCTAGA	40845
7220	ACAGTAGTGTGAACACAGGGAAT	18878	CTCAGAGAATAAGAGGTGGCTTTCA	29862	CGAGAAACGGATCATTAAACAGTAGTGTGA	40846
7221	CCTCCGATTGCTTTTTGTGTTCTTA	18879	CTCTGACCTCAGACGTGCAGGATT	29863	CCTAAAATACCTTCTCCGATTGCTT	40847
7222	CTGGCTTCAGAACTTTCTCCTCTAT	18880	GGCAGACAGGATATTTTAACGCTTGT	29864	CGCTGGTTTCTGGCTTCAGAACT	40848
7223	CAGGCAGGGAGCTTATTAGATCTAC	18881	GCAGAACCCCTACAAAGAAGGTA	29865	AGACTTCAGGCAGGGAGCTTA	40849
7224	CCCTCAATAAACTGGGAGACCCATTG	18882	GCTAATGACTGGACAGAGATTTCTTAG	29866	TGCACACACAGCCCCCTCAAT	40850
7225	GAAGGCTGAGGAGCTCTGATTTTA	18883	GCTTAGCGTGGTTTAGCGCAATG	29867	AGGGTCTCCACCCTCTGA	40851
7226	GTAGGTGCAAAACAACTGGGTTTT	18884	TCCATGGGGAGTGAAGTGATCTT	29868	GGCAGAGAGTGAAGGGGAAGTAG	40852
7227	TACTCCCAAGCTCCGTTCT	18885	GATGAAGTGGGGATGGTTGCAATAA	29869	CAACTTCACAGGGGTTTATCACT	40853
7228	GCCTGGGTCCAAAGGTAGAAGA	18886	CCAGTCTCTCTGCTGTTTTCAAG	29870	AGTCCAAGCCTGGGTCCAAA	40854
7229	CTGAGGTGAATTTGTAAGGGTCAATG	18887	GGTCTGAAGGCGGTATCAGTTCT	29871	CAGACCTTCATGCTGAGGTGAATTTG	40855
7230	GGGGCTATAAAAGTGATTACAGCTCCTA	18888	CCAGCAAGTTTGCACAAGACATTICA	29872	CCCATCCAAGGGCTATTAAAGGTGA	40856
7231	CCCAGCAGATGGGATGAAACT	18889	CCCTCTAGCTCCTTCACACA	29873	AGTAGGGTGGTTCAGCAGAT	40857
7232	CAATAGCATGGTGGAGTGCACATA	18890	GAGTGAACCTTGCCTTACCTTTCT	29874	GTGCTCATGCCAGCAGCAATAG	40858
7233	GCATATCCTGCCAACTGTGTCA	18891	GAGGGCGAAGGGGAAGTTTTGT	29875	AGAGGAACAGAGCAGTTTTGCAT	40859
7234	TGCCAACAAAGGTGAAATAGCAGAT	18892	CAGAGTGCCATGCATTGTGGTA	29876	GCCCATGCCAACAAAGGTGAA	40860
7235	GCAGAAGGGAGAGTTTTGAGAGACT	18893	GTCACCTCTCCATGGGTCATAA	29877	GGGGATGAGCAGAAAGGGAGAGTTT	40861
7236	GGCTAAGCTGTTGCCAGGTTCT	18894	CCTGAAAGGGTTAATCAGCTTCCAT	29878	TTTCTTTCAGTGGCTAAGCTGTTG	40862
7237	ACCTGCATTTCCGTGGTGAA	18895	GGACTAGCAGATGGAAACAAACACA	29879	GGTTGTGGCTGTAACTCTGCATT	40863
7238	CAAGAAAGAGGAGCCGGAATGATT	18896	GGTGATTATGGGCAGCCATACATTG	29880	CCTGGATATCGAGCAACAAGAAAGA	40864
7239	GCATGGAATCTCAATATGGCTTGGAA	18897	AGAATGTCACAGAAGGGGAGAAAC	29881	GAAGATGGCAGCATGGAATCTCA	40865
7240	GCGGGGCTGTACCACTAGA	18898	CTGTTTCCCTCAACCAAGACAGAACA	29882	ACAAGTATGGCGGGGCTGTA	40866
7241	AGCCCCAGAGATGTTAGGATGT	18899	TCCAGGTCCTGTTGGAGATGT	29883	TCCGCCAATGGTGAGAGAAAG	40867
7242	GGTAAACAGGAGGCAGAACTGT	18900	CCACTGCCCATTTTTCACATC	29884	CCAAATCCTGGGATCCTGTGAGGTA	40868
7243	GCAGGCCAGAGTAAGAGCTTCA	18901	GCTTGTCAACAAAGCCGGAACA	29885	TCACGGGCAGGCCAGAGTA	40869
7244	CCCTCTGTGGAATGAGGGTAGA	18902	TGTAACAAGGGCCATGAAGACAAG	29886	AGCAGCACCTCTGTGGAA	40870
7245	GACAGTGACCTGTCCATTTTATTAAG	18903	CCCTCCCACTGGCATGTAAA	29887	ACTAAGACAGTGACCTGCTCCAT	40871
7246	CCCACCAATGAGTCACAAGCATCA	18904	GCCACTGGCTCTATCCCCTAGA	29888	CCAAACCATATCAATGACCCACCAA	40872
7247	CCCTAACATGCCAGTTTCTACCATCT	18905	CAAAATGTCAGACCTGGAGAACA	29889	AGCTTCCCTAACATGCCAGTTT	40873
7248	ACCCAGATGTTCCAGACAGA	18906	GTCATACTACAGGTGAGCAGCAA	29890	TGATGTCAAGTAACCCAGATGTTT	40874
7249	CTGCCAGGTTTTGCAGGAAGA	18907	GCATGCCTGCAGGAGAGATT	29891	CCTGAGCTGCCAGGTTTTT	40875
7250	GCTGGATTTTGGGAGAGACAGGTT	18908	CAAGCTCTGCTATTAGAGGAATCTGAA	29892	GGAGGAAGGTGGCTGGATTTTG	40876
7251	TGTCCACAGAAACCCGATCTGA	18909	CTCTGGGCAGGGAATCTCTGAAAG	29893	TTGCCCCAGGTGCTCTGT	40877
7252	GCTCCATCCCTTTCTAGGGCAACA	18910	GCACGGTAAGAAAATGAGGCTTAG	29894	TGTCCAGCTCCATCCCTTTCT	40878
7253	GGACTGGACACAGGAGCATCTT	18911	CCTTGGATTTCAAAGCCTTCTGATCTT	29895	AAGCTGTGGGACGTGGACACA	40879
7254	GGGTTCTTTCCCTTGGCTGATT	18912	AGGCACAGGCTAAATCACAACA	29896	CCTGCCCCAGGGGTTCTTTC	40880
7255	CCTCTGAGGCAATACCGTGAATC	18913	GCTTGAGCGCTGAGTGCTTCATT	29897	GCCATAAATGGGTCTCTGAGGCAATA	40881
7256	GCTGCTACATGTCTCAGATGAGTTTA	18914	CCCATGTGTCTGGAACCAATGACATAA	29898	GTATGGCTAGCTGTACATGTCT	40882
7257	GGACTACAGCCCAAGTGATGATG	18915	GGACCACACAAATCCTGTGACT	29899	TTGCTTGGGGCAGGAGGACTA	40883
7258	CAGGCTGTGATGCTGCTTTGGTA	18916	AACTAGAGCTTCCAGGAGAAAAAG	29900	TGGGTGGGCACAGGCTGGTA	40884
7259	GCACTGTCTTACTGAAGGAAAT	18917	AGCCTAGTCTCCCACTGCAA	29901	GGCTGACATAGGGCACTGTCTTAC	40885
7260	GTGCTTCAGCTGTTTCCGTCTCA	18918	TGCCTGGAGGGGAGGAGTATC	29902	ACTGTGTGTGCTTCAGCTGTT	40886
7261	GGGTACGGTAAATGATGATGTGCTT	18919	GGCCACCAAGTCCACTGAGAAA	29903	CGCAAAATCAGTTAATGGGTACGGTAA	40887
7262	AGAGCATCCCTAATCATGGTACAGA	18920	CAGGTGTTGAGCAAAATCCTCTTTG	29904	TGCTGGCAGAGCATCCCTAA	40888
7263	GTGCAAGCCAGACATGATGAAACA	18921	CCTGGCTCGATATCACGGTTT	29905	CCTCAGTGCAAGCCAGACAT	40889
7264	GCACCGTCCACATGTTCTCTTC	18922	AGAGGCTCTGTAGAGTTCAGACTT	29906	TCTGGGCGACCGTCCACAT	40890
7265	ACCTCCAGCCTTTAGCACTTAC	18923	AGGGTGAGGTACCATCTTCCAT	29907	CTGCTTTCTCATACCTCCAGCCTT	40891
7266	GTGGAACCTTCAGTGGGAGAGTAT	18924	CCTCATGGCCAGTTTTTCTCCTT	29908	GGGATTGACAGGTGGAACCTTCA	40892
7267	TGGAACCTGAGCCACCTGTAT	18925	GCAAGGCGCTCCGTAAGA	29909	CTGCAAGAAGGGCTGTGGAA	40893
7268	GCTGCTGGAAGAGCTACAACCTT	18926	GAGATCACTCTCAAAGCTTCTTCTCTAC	29910	AAGACCCAGGCTGTGGGAAGA	40894
7269	GTCCCATCACACCACAAAGGTT	18927	AGAGCAGCGTGGAGAAGTGA	29911	GCTGTGGGAAATAGTCCCATCACA	40895
7270	GGGGCATCATCCAGTTTTTCTGTA	18928	AGAGAAACCTGTTGTGCTCTTACTT	29912	GGCTAAAGTTGAAGGGGCATCATC	40896
7271	GTTTGGAGTCTTCTCCCTGTTG	18929	GGAATGCTCCCACTGAATGATGAAC	29913	GGACCAGTCTTTTTTGTGGACTGT	40897
7272	GGGAAAGAGGTGCTTCTCTGA	18930	GCCATCCAAGCAGCTTGTACA	29914	GCTGTGGTTGAGGAAGCACTA	40898
7273	GACCCACCAAAACTAGCACTGT	18931	GTGGTGTGTTCCGCTACCTAGT	29915	TGCCATTGATGACCCACCAA	40899
7274	GCTGAGATTTTGGCCAGTACGTT	18932	GACTACAGGATTCCGAGAGGGAAAC	29916	ACCCCGCCTTATGCTGAGAT	40900
7275	CCTGTGACATCTCTCTGAAACA	18933	AGAATCAAGGTGGCTTCAGACTTC	29917	CCCTGTACTTACCTGTGACACTTC	40901
7276	GTCATTGCTGAGAGACTCTGTGT	18934	CCAGTGCTGGCTAAGTGTCAA	29918	CATCTCCCCTAGTCTGCTGAGA	40902
7277	CTGGAAGGTGTGCAAAATAGTCTCT	18935	TCCTTCCCTCCAGGGATTCT	29919	TGGGGCAGCAATGTCTGGAA	40903

7278	GGTCTCACTTCACATGGGTGTT	18936	CCCCACAGGTCCTTAAGATGAT	29920	ACCTGGGAGGTCCTCACTTCA	40904
7279	GGGATGGTGAGTGGTGGAAGTTAC	18937	GGGCCTGTCGCAATCTCTTTG	29921	TGGCTGTGGGATGGTGAGT	40905
7280	ATCGCCCAAGAGGTGATAAATAAGT	18938	CCCTGTACCAGCAGGTTCAAA	29922	AATCCCACCATCGCCAGAA	40906
7281	CCTTGGAACAACTTTGTGGCAATAC	18939	CTCTGAGACAGACACGGTAAG	29923	AGCAGGTAACCTTGGAAACACT	40907
7282	GCTGCTCTTTATAACACGCTGGAAA	18940	CCTGACAGCCTACGTGCAAAAG	29924	GGGACCTAGACAAGTGCTGTCTT	40908
7283	GCCTGTTTCAGGAGTTGCATTTC	18941	GCTGAGAAACCTCGACCTTCTATG	29925	GGGTTTCCCACTTGCCTGTT	40909
7284	GCTCCGCAGTGATGTGGAAAGAT	18942	GGTCTATGCATGCTAGGCAACT	29926	GGATAGACGCTCCGCAGTGAT	40910
7285	CCAGACCTGTTCAGCAATATGTTTA	18943	GATGCCAATTGAACACGGAAGTCT	29927	GTCATATACCTTTATACCAGACCTGTTG	40911
7286	GCCTGGAAGAAGCCTGAATTGTTTC	18944	CTGAGAGCAGTTACCTTCTCTTT	29928	AAAGATTTCCTGCTGGAAAGAG	40912
7287	TGTGGGCAGAATGTGAGAAGATG	18945	GACCTCGCCACTTTCTGGAT	29929	CCAGGGAATCTGTGGGCAGAATG	40913
7288	GGCAGATACACACACTGCAGACA	18946	CAGTGTCATCTGTGAACCTTCTATCT	29930	ACTGCGGGCAGATACACACA	40914
7289	CACAGGTGCAAAACCAATTAATCACAGA	18947	TTGCTTGGTGCGCCCATCT	29931	AGGTACAGGTGCAAAACCAT	40915
7290	CTGAATCTCTCACAGTCTCAGATACA	18948	GTTAGAGCTGGAACAGACTTTAGAGA	29932	CCTGAGCTGTTTCTGAACCTCTACA	40916
7291	CCTTGCAATGCATACTACCTCTA	18949	CAGCATCGACTGTGATGGTTTAC	29933	GTTCAGGGGTTTCTACCTTGAT	40917
7292	GTGATCTCTCCAAAGTGCTATTACTAC	18950	GTCATTTCTTAGTGGGTGCAA	29934	GGCTCAAGTGATCTCTCCAAGT	40918
7293	GAGAAACCTTTTGCTAGGCATAAGTAG	18951	CACGTGACCCAGTGGAAAAAC	29935	TCACATGCCACCTCCTCTGA	40919
7294	GCTTCTCTCCGACTATCGGAATC	18952	AAGCACGGGGCTGAGAAGAT	29936	CCTCGTATATCAGGGAGTAGCTT	40920
7295	CACCAGGGTCCATAAACACTGAGAT	18953	TGTGACAAGAAACATGGGTACAGT	29937	TGTGACCACAGGGTTCAT	40921
7296	CCACCTGAGGAATGAGTAGCTGGAA	18954	GGGAAGAGCTAGGATTTCCCCATCT	29938	GGTTGACTGCCACCTGAGGAAT	40922
7297	GCTCTGCTATCCTTGGGTTCTTTT	18955	GGGCAGCCACCTTGTGAAC	29939	TCCATCTCTGGGCTCTGCTATC	40923
7298	GTGAGTTTCTCTGTGACCTAACCATGT	18956	ACGTAGGAGCTCCACAACCTA	29940	TGTGGAATGTGAGTTTCTGTGA	40924
7299	GCCACATGCACACTGAGCTTTTC	18957	TCTCCAGTTTACAGCAAGTTGA	29941	CCTCCTGCCACATGCACACT	40925
7300	CTTGCTTGGTTAGGCTTGCTT	18958	CAGTCGGAGTAAGTTTCTCAACGAT	29942	GCTGTGTTTCTTGCTTGGTT	40926
7301	GTCCCAAGAGGGTATGTGGCTAGA	18959	CAAACAGTCTTCCAAGCCTTA	29943	GGGAGGAATTTTCCCTGTCCCAAGA	40927
7302	CCCGGTCTTATTGACTGGAACCTC	18960	GTGGCTCAACACGGTAGATGTTTG	29944	AGAGCCCATATCCCGGCTCT	40928
7303	TCAACCTAGTTGGGTAGTGTTTTCA	18961	CCCCATTACATCTCTGCTCTTTTC	29945	CAGAGCCAACTGTATCAACCTAGT	40929
7304	GGGTGGTCTCTTCAAACCTGCAA	18962	CGGTGTGTGTGAGCATGAAGGTT	29946	TGTAGCCAGGGTGGTCTCTT	40930
7305	CGAGGGCCAAATGGGCAGAAT	18963	CAGGTTACTCACCCACAGCAT	29947	CCAAAATGCCGAGGGGCCAAA	40931
7306	TTGCCTCAGAGGAGCACACA	18964	GTGACCAACCCACATCATACA	29948	GGAAGGTCAATGTGCTCAGA	40932
7307	GCTCCATCCAAAAGGCATGGAAGA	18965	CAGTGAAGGTACAGTCCCCAAAAG	29949	GGGTTACCTTGTCTCATCCAA	40933
7308	GCTGCTGCATAAGCTGCAAGGTA	18966	GGAGTGACTGCTTCTGCTTGAGA	29950	CATGGCTGAGCTGCTGCATA	40934
7309	AGCTCCCTTCACTCTCTCTGT	18967	GGAGAGAGTAGGATGGGACAT	29951	GGCTCTCAGCCTCCCTTCA	40935
7310	GCCACACCATTTAACTGGCATCA	18968	GCTGTCAAAGTGGAATTCACCAT	29952	CACTGGATGATAGCCACACCATCT	40936
7311	GCTCAAAGAGCTTCCAGAGAGT	18969	TCCCTGGACACCAGCATCTCA	29953	CCCAAGCTACAGGGCTCAAAGA	40937
7312	GCGGTCCACAAAATGAATGGCTTT	18970	CCAAGCCCTCGTTCTGAAAGT	29954	GTCTGCGGTCACAAAATG	40938
7313	CACAGAGGCTCCAATGTGTGA	18971	GGGTTGGTTAGTCTTGGGGAACA	29955	TTCTCACCTCCCACACAGA	40939
7314	GGTAGGAACCTTGGAGTCAACCCTTTTC	18972	CACAGAAGAGAGGGTATGATGTGA	29956	GCAGTGAGTAGAGCAAGGTAGGAAC	40940
7315	GAACAAGTGTGGAAGAGTGTGGTA	18973	CTTTGCTTTGCTAATGTCCATGT	29957	GCAAGTGTAACAAGTGTGGAA	40941
7316	GAGGACAACACAGTGAACACAGAGA	18974	TGGACAGTGACGCTCTACACATA	29958	GCAAGGTGAGGACAAACACAGT	40942
7317	CCTCTGAGTACCTGTGGGAGTGAA	18975	CACACATCCCGCAGGGGAATC	29959	GAAAGGTGTCTCTTACCTCTGAGT	40943
7318	CCAGACCTTGTGGTAGGTACAGTTG	18976	GCATTGAACAGGCTCTTCCCTAGA	29960	GTGGCATTCCAGACCTTGTGGTA	40944
7319	GTGCGCTATGGCAGTATGCTAAC	18977	GTTGCTGTGAACACCTGCATGAAA	29961	GGTGTGCACTGTGCGGCTATG	40945
7320	GATGCTAAGGTTGTTGCGCTAGAATTT	18978	GGCTGAAAATATTTCTCCATGGTGT	29962	CTGTGAATGTGATGCTAAGGTTGTTT	40946
7321	GGATTCCGTCTATCATCCAGTGAATA	18979	GCATCTCCACACCTCCACTGA	29963	CAGGCCCTTCTGGATTCCGTCTA	40947
7322	AGGCTGGGGTAACCTTGGAAAT	18980	GGCCATCATAGACCACTCATGCTA	29964	TGCACGTAGGCTGGGGTAAC	40948
7323	AGACCCCATATTTTCCCTATTGAAC	18981	GCAGATGGAGCTGTGGGTAGA	29965	CCCGAGCCTTAGAAGAGCCCATTA	40949
7324	GGTCAGGACCAAGAGTGGACAT	18982	CCCCACAGCATTCCAGTCTAC	29966	ACAGAGCTTAAGGTCAGGACCAA	40950
7325	TGCAAGTGTCCATACAGTCTTGAT	18983	GGACAGCCCTCTGTTGTTCTAA	29967	CCTTAGTACTTAAGTGCAAGTGTCCATAC	40951
7326	AGTGTTAACTACAAGGGCTCATACT	18984	GCAGAAGTGGGAGAAGTCTGTGT	29968	TTCTGCGCAGTGTTAACTCACAA	40952
7327	GTCTCATGCAGAGTTGGTGACT	18985	CTGTCAACAGGGCTTTCAAGCTA	29969	CTCTGTGAGGACTCCAGTCTCAT	40953
7328	GGGGCAAGTGGAATGGAAGTCA	18986	CCCCAACCCCATGTATTTGTAGTGA	29970	TGGGAGGGGCAAGTGGAA	40954
7329	GGTGCGAATTAGCAGAACATTCTAAAG	18987	CGCCAGTCCACATCAGAACACATT	29971	CCGCTTGAGGAAAGGTGCAGATTAG	40955
7330	GAAACTGAAGCCGCTACTCA	18988	CCTAGTATAAAGACACTCCTTATCA	29972	CCATGGGTTGCGAGGAACTGA	40956
7331	GAGCCTCATGTCTTTGAAGCCTTTC	18989	CAAGGAAGGTCAAGTCTTCTCAGT	29973	GAAAGGTAGAGCCTCATGTCTTTG	40957
7332	GACAGGTTTTGTTCTGGACAATAGGAA	18990	GGCTGGGCGAGGCCAGATAATA	29974	GAGAACAGTTGATGACAGGTTTTG	40958
7333	CCACTCCCAACACACTTTTCTCAT	18991	AGGTTCTGGCAAGTGGAAATAAAG	29975	TGCCCACTCCCAACACACT	40959
7334	GACCTAAGCTCTTCTGACTTTGACT	18992	GCCAGGGTCGGTAAGTGTATG	29976	CGCCAGTCAGACCTAAGCTCTTC	40960
7335	CGCATCCATAAAGAGGGATCCAGAGT	18993	GGCCCCATGCTGAACAGAAAA	29977	GGCTCCCGCATCCATAAAGA	40961
7336	TGTTGGTTGGTAGAGCTTATTGCTA	18994	AGGACCAGCTTATGTCTGATG	29978	CCCTGGAACATAGATTGTTGGTTGGTA	40962
7337	TCAGGGCCTCAAAATTCCTAGA	18995	GCTGGTCAAAAGCATCTTGCAAAACA	29979	GTCCAGGATTACAGGGCTCAAAA	40963
7338	CTCTTAGCTATATCCCTCCCTCTT	18996	GAGGAAATAGTCTGCGAGGTT	29980	CCAGGTTGGCCACACTTCTCT	40964
7339	GACAGACAAAACCTCTGCGAGATAC	18997	GCTGTAAGAGCCTGGATACGAGTT	29981	GGGCTTTCCCTCAGACAGACAA	40965
7340	GAGGCTCTCATGTGCTTGAA	18998	CATGTTCTACATGTCTCAGAGCAA	29982	GGAAGTCAGCACAGGGGGAAGA	40966
7341	GCAATAAGCCAGGTAGGATTGTTCA	18999	CCCAGACCAAAGTCTTAACATCCCTTTA	29983	GCACATGTTGCAATAAGCCAGGTA	40967
7342	CAATTCTGGTAGGTCCTGAGCAA	19000	CTGCAAGGGGACCTTCCAAGT	29984	GCACCTGTCTTTTCTACCATTT	40968

7343	GGGCAGCAACTTACACTCTTAATC	19001	GCCCAGGTGGATAGTCAAGACA	29985	GGGATGGGCAGCAACTTACA	40969
7344	GGTGTGACAAGCACACCTTCA	19002	GACTGAAAAGTTTGGAAAGCATGGCTCTA	29986	CCTGCAGAACTGGTGTGACAAG	40970
7345	GGAGGAAACCTTTGGTAGGGAAA	19003	GGGCATCTGTGTATATAGTTCCCAAGTCTA	29987	AAAAAGTCCAGGAGGAAACCTTTG	40971
7346	GTCACCTTTTGTCCACTTGATTGATG	19004	TCTCACGGGAATCACCATCATTTT	29988	GCTGGTGAAGGACGTCACCTTT	40972
7347	CCACCTCTGTAAACATGCAAGGAA	19005	GGGCTGAAGCAAGACCATGT	29989	GTAATACTGCCACCTCTGTAAAC	40973
7348	CTCAGTACATGTAGTTGCTGTTG	19006	CCTGGCTTAGCAAGAATTTGTTGT	29990	GGTGTAGAGTAGGTGCTCAGTCACA	40974
7349	TGTCTCTGCTGACCCACAATC	19007	TGGGTGGGAGTGCTGTAAAC	29991	TGGCCTCAGAGCTCTTGTCTCT	40975
7350	GGCACTTGGCAACATTCACCTT	19008	ACTAATGATGTGACCCACCCAATC	29992	TCCTCCCTTTTGGGCACCTTG	40976
7351	TCAAGACATCTGTGCCCGATAC	19009	GACCCCGTTGCTCTACTAACAGA	29993	GGGCTCACCTAACCTGGTATCAAGA	40977
7352	GTGAGGAAGACTACTGCCAGAAA	19010	CTGTCCACCACTACCTCGTATCTCA	29994	CCACTTGGTGCAGTGAGGAAGA	40978
7353	CTGGAGATCTTCAGACCTGTCTTTG	19011	CAGTTACGCTCACTGGATGGAT	29995	TTGCGAGGGTCTGGGAGTCTT	40979
7354	CAGTGTGCCTTTGCTGTGAAAC	19012	AAAAATGAGGCTCTGGGAAGTCA	29996	CCGAGTCCAACACTACATGTGCCTTT	40980
7355	GGCTAGTAGGTTTTGCTGGTTTCA	19013	CCACCTTTTCTGAACCTTAGGCATGT	29997	GGTTGTGAATCAGAAGGCTAGTAGGTT	40981
7356	GGAGTAGGACTCCAGCTCAGGTA	19014	CATAGGAATTGCCGGAGACATGA	29998	CCAGGCAAGTGGGAGGAGTAG	40982
7357	GTGGAGGCTAAAACCTGGCTGTT	19015	GCATTTGTGGCTCTAGGGTAAAC	29999	GTGTTAGAACTCAGTGGAGGCTAAA	40983
7358	CTCAGGTCCACAGTGCATTCT	19016	TCCCTGGCAATTCCCCTTCA	30000	ACCCCTTGCTGTGAGTGAAC	40984
7359	CGGTTCTTCCAGAGCCCATAG	19017	GGCCACAGGTTTCTCTGCTTCA	30001	GGATGAGCTTGGATGCGGTTCT	40985
7360	TGTCTCGCTTCTCTCTGGATGT	19018	GAGTGGGAGCATGGATGGTGAT	30002	CAGTGGTTAGATTGTCTCGCTTCT	40986
7361	GTGAGAACAGGTGTCTAGGAGAGCTA	19019	GGAAATCTGTACATTTGCTAGTTA	30003	TGAGGAAAGTGAGAACAGGTGTCTA	40987
7362	GCTCACTTTGCCACGGTTTG	19020	GCAGGGAATTAATGAGGGCAATTT	30004	CGCGAGACAGATCTATGCTCACTTTG	40988
7363	GCTGGGATTGAACCTAGCTCTGAGT	19021	ACTCTAGTCACTTGACAGTCT	30005	AGGAATAATGGGGCTGGGATTG	40989
7364	GGCAGCCTTCTCTCTTGACTT	19022	GACTAGTGTGTCTGCTTTCGCTTT	30006	CCATCTGGCAGCCTTCTCTCT	40990
7365	CCTTCACTTCCAAGGGTATGCTAAG	19023	GTTTTAGCCAGAGGCTCTATATCCAT	30007	GTCTTCCAGCCTTCACTTCCAA	40991
7366	GATGGGGTTTTATGGTTGGGCTTT	19024	CTGCTACCTACAGCCAGACTTCA	30008	CTGGCCAGGATGGGGTTTTT	40992
7367	ACATACAGCCTTGACATTTCTGA	19025	GCTGTATTTTAGCTCTTGCTGGTT	30009	GGGCGGCCAGAGAAAACATAC	40993
7368	GGGGAGAACAGATGCCAACAA	19026	GGTGAAGCTTGTTAAGGGTTCAA	30010	GAGAAGAAGGAATGAGGGGAGAACAA	40994
7369	CCTGGTCAAGGATCTTATCCAGAAGT	19027	AGGGGCTCCTGAGGAAATACT	30011	TTACCCCTGGTCAAGGATCT	40995
7370	GGGCTGAAGATACAGGCTTCCTT	19028	GGAACACCCGAGCCATTCTGA	30012	TGCCAAAGAGGGCCTGAAGA	40996
7371	CGAGCTGATCTGAGTACAATCACAGA	19029	GCTACCTGGGCTGTGGTATCTTC	30013	GCCTAGACGAGCTGATCTGAGTA	40997
7372	GGCCAGATTGACAAAGGACTGT	19030	TCTCATGACTTCCCTCTGTTATTTT	30014	TTCCAGCATGGGCCAGATTG	40998
7373	GCTTGCCTCTATCCTCTCTTTC	19031	CCTCTGCTTGACTTGCTTCAAA	30015	CCCTGTACAGCTTGCCCTCTATC	40999
7374	GCCATGAAAGCCAGCATCTGT	19032	GCTTCTCTACCATGATGTAATGGTT	30016	ACCAGGATTGAAGATATGCCATGA	41000
7375	AGTGTGCTTCCACATCAAGAT	19033	AGGAACCTGGCCCTTCTCT	30017	GCCAGAATCCTGGTAGTGTGCTT	41001
7376	GGACAGACACTGATTAAGGGCACT	19034	TGAAGCCCACTCTACTTGA	30018	AGGTATTTTGGGACAGACTGATT	41002
7377	CGAAACATTCACAGCTTAACACA	19035	AAGCTGAGAAAAACAGCCATCTTC	30019	GAGGGTCACCAGAATCGCAAAC	41003
7378	CAGGTATCACTAGATTGTTCTCCCAAT	19036	GGCGTACACTATGGGAAGGTAAGTTG	30020	GAACCACTTCAGGTATCACTAGATTGT	41004
7379	ACTTGGCCAGCTCTCTCACTTC	19037	CAGGGTGGACCTCTCTGAGATATT	30021	TTTCCCTGGAGCATATCCACTTG	41005
7380	GCTGTCCAAATGATTCTGCTT	19038	GCTGCTGCTAATTACCCTGTA	30022	GGCAAAACATATGCTGTCCAAATG	41006
7381	GGATCAGCGGAGTTTGGTCA	19039	CTCATGAAATTTGTGCCGATTGCTAAG	30023	GCAAGTGGAGGAGTACTAGGATCA	41007
7382	GGTTTCTTGGTTTCAAGGGAAGGAATG	19040	CAGTGGTCAGGGACAGCTCTA	30024	GCCTGCTGCTAAGGTTTCTTGTT	41008
7383	CGGCTTGTGAAAAACACAAGGAA	19041	GGCCTGGCCACTTTAGTACTCT	30025	GATGCTGTCTACGGCTTGTA	41009
7384	GGATGTGCTGCTGATCCCAAACA	19042	CCTGAGATGAGGATGGGAGCAT	30026	AGGGAGCAGGCGATGGATGT	41010
7385	GGCATGTACAAAACAAGCCCTTGAA	19043	GCAGACTGACCTGTGACTTTT	30027	AGGCTGGACAAGGGGCATGTA	41011
7386	CCCAGAGTTTACAGTAAAGATTGT	19044	TGAAGAAAGCATCTGGCATGTGAA	30028	GGCAGTATCAGAAAACCCAAAGAGT	41012
7387	GCCAGTCTGAAAACCTTCCACTAACAA	19045	GGGGAGAGTGAGTCTAGGTTCTGT	30029	GGGAAGTTTTTCAAAAGGCCAGTTT	41013
7388	CGGTGGTAAGTACGATGGGAAGT	19046	GCTGATGACACTTTTATCCAGCTTTACACA	30030	TGCCAAGGCGTGGTAAGTA	41014
7389	CAGCTTCATTAGTACATTCCTTTG	19047	GGGGTTGAGCTGGTTGATGT	30031	GCCCATGACAGCTTCATTAGT	41015
7390	CAAAGTGCAGGGGAAATTATGATCTGA	19048	GCTGTGTCTAGGCTTTTCTGTGATA	30032	GTAGCTCAAAGTGCAGGGGAAA	41016
7391	TGACTCTGCTGGGTCAAA	19049	AGACGGACTCCCGCGCTT	30033	AACCAAGCCCGCCTGACT	41017
7392	AACAGTGGAGAGTGTGCTAAAGTT	19050	CAGTTCACCTGTCTGCTGAGGAA	30034	GCCCAGCAAAGTTGATAACAGT	41018
7393	TCCCTGGAGTTGCTCTCCAA	19051	CCAGAAGTCTCAGAAAAGGAACCATC	30035	AGGCTACATGCTCCCTGGAGTT	41019
7394	AGCCAGACTTGGGCAGAAGA	19052	CCACAGTGGGCAGCTATTCTCCAT	30036	CCCGGACTCAGCCAGACTTG	41020
7395	GGCGGAATCAGCATCTAGGATAG	19053	TCATAAGGTGGTCCCTTGATTAAC	30037	GGGTGGGCGGAATCAGCAT	41021
7396	GCAGGAAGTTAAAACAACTGAGCACTACA	19054	CAGCCAACTCGTAGGTTCAAACAATG	30038	CTGCTAATGTCTACAGCAGGAAGT	41022
7397	CACACCAAATTATCCATTGCTGAT	19055	CCTCTGAAGCTCAGAATACACCAA	30039	ACCCAGCCATCACACCCAAA	41023
7398	GTCCTCACACCTACTGTTCCTTAAGTTG	19056	TGTGGGAAGCTGTGACATGA	30040	GCTGCTCTCACACCTACTGTTT	41024
7399	AAGATGTTTTCTTGGCCTTCTT	19057	CCCCTCAGTAATTTTACCTGGGATTAG	30041	CAGTCTGCTGGCTTCAAGATGTTT	41025
7400	GAGAGGTTCTTCTGGTCTTAC	19058	CGGGGCGCAGGCTAGAAAA	30042	GCTGGTGGTAAAGAGAGGTTCTT	41026
7401	GCAATGGAATCCCAAGGAAACATAGT	19059	TCCACGGAATCAGAGGATAGTAAGT	30043	CACCGAGTTGAAAAGCAATGGAATC	41027
7402	TGATCGTGGAAATGGATCTCAAGT	19060	CTGCAATGTGTTGGCTGGGAAT	30044	CAACCAGTAAGTGATCGTGGAA	41028
7403	GAGTCAGGCAATAAAGAGAGACTTGT	19061	CAGAGCCTTGATTGGACAACCTTTA	30045	CAAAGGACTAGACCACCTAGAGTCA	41029
7404	GCCACGTTCTTCCATTGTCA	19062	CAGAACCCACTGCTCTATGAGTGT	30046	GGAGTTCTACAGCCACGTTCTTC	41030
7405	TGCCACCTAAATGAAGACCTTT	19063	AGTCCACCATCAGGAACAGTAGA	30047	TCTGAATAGTAAACGTTGCCACCTA	41031
7406	CACCCCTTGGTCTCTGTATC	19064	CTATCGAGATATTGGGGAAGAGCTTTA	30048	GGCTGGCTTCTCATCACCCTTT	41032
7407	CCAGTATGTCCAGGCAATCTGT	19065	GCAGCTCTGGTAGATAAGGCCATACATTA	30049	TGGAGGCTGTCCAGTATGT	41033

7408	GTCCTTGCTCATGACTCAGAACT	19066	GGAGGGAATGGGCGTTTTCAAC	30050	GAAAAAGGCAAAAGTCTTGCTCAT	41034
7409	GCTGGTGACTGCACATTTTTCA	19067	ACTTCTCAAGGACAAGTGTTCTCTTC	30051	CCTGTAATTCATTTGCTGGTGACT	41035
7410	GCTGAGTATCTCGGTGTCTGT	19068	CTCTTGACCACATCTGGAAGTAGAAAC	30052	GTGGTGCTCTCTGAAGCTGAGTATC	41036
7411	GCTTGGCCTTACTGTACTTCTCT	19069	GACCAAGGAAAGGTTGGCTAATAGT	30053	CCTCTCACAACTTGCTTGGCCTTAC	41037
7412	GGAGCAAGTGGGTATGTTGAGAAG	19070	GCCTCCATTTCTTGCTGGTTGTT	30054	GGCCTCTGAGGGAGCAAGT	41038
7413	GGAGGACCGGTTTACATTCTGATG	19071	AGCTTCTCCAGATGCCCTACT	30055	CTGTGTTTTTGGAGGACCGGTTTAC	41039
7414	GCATTAGCCTCTTAGTGTTCTCT	19072	TGTGGCAGGGACAGAGGTTCT	30056	GGCCGAGTCTGTCAATTGCAT	41040
7415	ACAACACTTACCTCCCATGCATTT	19073	GGCTCCTAGGGGTGGTAGATTGT	30057	AAGCCCCTACCAACAACACTT	41041
7416	CACGTGTACTGGCCTGTTCTGTT	19074	CCTCATCTTAGTGGGGAGTAACAGAT	30058	ACAGGTGTGAGCCACTGTGA	41042
7417	AGCCGTTTGGGAAAAGTGGAAG	19075	TCTCATCTCGAGACCCAGAA	30059	AGGAGGGACCAGAGCCGTTT	41043
7418	GTCCCTAAGGTAAGGATGGAAAATCT	19076	GCATGTATACTGAAGCCACACAGA	30060	GCCAGTGTTTGTCCCTAAGGTAAG	41044
7419	GCTTTCGAAGGGGTGTTCTTTTC	19077	AGGCCATGGCTCTTCTCCTT	30061	GCCTGGCCTTTGCTTTTGCTT	41045
7420	CAGCTTGTGGAGAAGCATCTTTAC	19078	GTGAGATGGTATCTAGGTCACTGCTT	30062	CCAGCCCTTTTCATCAGCTTGT	41046
7421	CTGTTTGACACCGAAACACTGCAT	19079	CCAATTGCTATAGCCAAAAGCCATACA	30063	GCTCGAGGCTGTACAGATGTTTCT	41047
7422	GTGCCTCTGTGTCCAGAGTT	19080	GCTCTGTTCTTCAGGTGGGAAAG	30064	AGCCTGTGGAGTGCCTCTGTT	41048
7423	GGGCAAAAGAGGTGCAAATGCAACA	19081	CCGTGATGCTGGATCAGCCAAT	30065	GGTGGAAGCCAGATTGGGCAAA	41049
7424	TGCAGCAGAGACTGTCCACTA	19082	TCTCAGGGCCAGCCCCACTT	30066	GCCAGAGCTGCAGCAGAGA	41050
7425	TGGACATCACATCTGCATGGAA	19083	GACTGACGAGAAGTCAATGTGT	30067	GGCTTATACTTAAGGCATCTGGACATC	41051
7426	GCTATCCCTGGACTTCTCGGTTA	19084	CTGGCTTAAGCAAAAGGGGAATTT	30068	AGTTCTACCTGAAGCCAATGCTATC	41052
7427	GGCAGCCTTAATTCACCACACAA	19085	AGTCCCTCCTCATGCTACA	30069	AGGCCCTTGGCAGCCTTAATTC	41053
7428	CGTAAGAGGTTGACAGGTGCTAT	19086	TCTCGAAGTAGGAAGATCCCATTCT	30070	AGGTTAAACACCCGTAAGAGGTTGA	41054
7429	TGGCTCTACCAACCTTGT	19087	CGCTATGCCTGGCTTAACCTTC	30071	CCTGAGTCTCACTCTGGCTCCTA	41055
7430	CACACAGATGCTACTGGAGTGAAC	19088	CGTGTCAATTTAGACAGCCCTGTTTTTC	30072	GCCGGGGAATCTTTCTTCACA	41056
7431	AGGTCGGTCTTCCAGCTAGA	19089	AGGTGACCTATCTTCAGTGCTA	30073	GCCTATCTCTCAGGTCGGTCTT	41057
7432	CGGGAGAGTTCCTTCTGTTCA	19090	CCGGTCAGCCAAAGGTCTTCTA	30074	AAGGCCATGGGCGGGAGAGTT	41058
7433	GAGGGAACCATATGCTCTCACA	19091	GGGTTGAGGGGTGTGGGTTTGT	30075	CCTCAGAAGGGAGGGAAACCCAT	41059
7434	CCACAGTGAGGTCAAATGGATCA	19092	CCGCGTCGGATGAACAAGAAAC	30076	AAACTGGCCTAAACCACAGTGA	41060
7435	CATGAACGAGACTCCAAGGTAATTCT	19093	CTCCCTCCCTATGGCTACTT	30077	GGCACCATGACATGAACGAGACT	41061
7436	CTGTAAGTAAGCTTGACTCCCTGTAT	19094	GGTGCATGATTTGAGAGGAACGAA	30078	GTGACTTCTGCAGTTACCAATCTGT	41062
7437	CTGAAAGATAGAGCTGCCACGAT	19095	CACCTTTTAGCTCAGAAAGATGCAGAT	30079	CCCACACCTTTTCTGAAAGATAGA	41063
7438	GTGGTTTACCAACTGCACTACCAA	19096	CAAGGATATGGAGGACCAGGATTC	30080	CCAAAGACCTCACCATAGTGGTTTAC	41064
7439	TGAGGCCCTGCACCTACTGA	19097	GGTCCATGGTGTTGAGGGTAATTG	30081	CCCCACTAAACCTCCAGTGA	41065
7440	CAGCTTCTGGTTACTGTGTGA	19098	CAGCTAAGGGAAAGTCAATTGAGTTA	30082	GCCATCAGACCTTCTGGTT	41066
7441	GTGTGCCAAGACCTCTTC	19099	TGCAGGGGAAACTCACATTC	30083	GGCTGCTGTGTCCAGTGTGT	41067
7442	GGCAGCATGTGCTCAGGAGGATA	19100	TGAAACGATACCGCCCTTAAAGT	30084	CTGCTCATAAACACAGGAGCAT	41068
7443	CCCCAAATGGTAGTGAACCTGCAATA	19101	TGTCAACCAAACTTTCTGTGCATCT	30085	GACTTTCTCCCCAAATGGTAGTGAAC	41069
7444	TCTGTCCAGCTGTCTAGACTTT	19102	CCAAAAGGAGCATGGCTGTCT	30086	TCCCCTGGCTCTTCCCTTT	41070
7445	CTGTACAGCATCAGACTACCTAAAC	19103	AACGCCTACTTTCCCTGTCTTC	30087	GCGGAAGGTACTGTACAGCATCACA	41071
7446	GATGTGTCTCCAGTATTGTGTCTGT	19104	GACAACAGGGCTGTCCACAA	30088	CGAACCAAGATGTGTCTCCAGTAT	41072
7447	GGAGGAGAGAGGCAGAACTGTA	19105	CGAATAGTGCTGGGAATCTCTGA	30089	CCGGGAGCTAGGAGGAGAGA	41073
7448	GCGGTTAGCGCTAGACAACA	19106	GCTTCTGATCCTTGGAACTTTGGTTTCT	30090	ATGGGACCAAGTGTCCGGTTAG	41074
7449	CCCAGAGGTTCTGCATGTTTTG	19107	CCAGTAAACCTTTTCCATGAAAGCCTGAA	30091	TCGCGAGCCGACAGGTTCT	41075
7450	CCCAGACAGGTAGTCTGAGATT	19108	TGATTGGCTCCAGAAAGTTGTAAT	30092	CCCTTTGACCCAGACAGGTAGT	41076
7451	GCTGGAAAGATAATCGTTGAGGCCAAA	19109	CTGTGAAAGATCGTGTCTTCTTTGT	30093	GCCCAATTTGCTGGAAGATAAT	41077
7452	GGCGGTTGAGAGAAATGGTAGA	19110	TGTGACGACTGCCTTCAAAATG	30094	TGACAGTGGCGGTTGAGAGA	41078
7453	AAGTATCTCAAAACAGCGGGGTTA	19111	CCCTAATCTCAAACTTTCCTTATC	30095	GCAACTGAGGGTGTGGGAAGT	41079
7454	GCCGTAAAGTCTGCCACTTAC	19112	AACAAAGGATACCTCCGGGTAATATG	30096	CATGGAGGTACACTGCCGTAAAG	41080
7455	GCCGGGGTTTTGCATAGCTTCA	19113	GCTCAAAGAGGATTAGGCTGCTTCA	30097	TTCCAGGAAGGCCGGGGTTTT	41081
7456	AGTGACTATCAGTGCCCAACAAAC	19114	CACCTGCAGACTAGCACAAAG	30098	GCCATCTCAGGGTCAGTGACTATC	41082
7457	TGTCTTGGTTGAGTCACTCTTTG	19115	CTTGCTTCAGGCCAAGCAAAA	30099	CCATCTCCTATGCTTTGGTTGAGT	41083
7458	TGGATCAACTCTCCCTTGACT	19116	GTCCATAAGGGCATATGGGTGTTTC	30100	TCTGGTACCCTTCAGTAATGGATCA	41084
7459	AGGACACAGGCTGACCACACA	19117	AACCGAGGGGAGTCCCAGTT	30101	GGGAACTGGATTTCAGGACACA	41085
7460	GTCTCTTGTTTCAATCCAAGGAGAT	19118	GCCACCTGGTTCTCATCATT	30102	CACCTCACCTCCAGTCTCTGTTC	41086
7461	GAGGATCTATCGGAATCCTCTGTCT	19119	GGCAGGTCTTAAGTGAGTGACTGT	30103	CAGCCGAACAAGGATGAGGATCT	41087
7462	TCCAGCAAAGCTACTCTGTGAAA	19120	CAGCTCCTCTCTGTGCCATTT	30104	GCGGCTCTAACACTTCCAGCAA	41088
7463	CTCTCCAGCGTTACCCGATTTT	19121	GGCGACTGCACACCTGAAAACT	30105	GTGTGCGTTCTCTCCAGCGTTA	41089
7464	CGTTCCTCTCTTCTCCCTTT	19122	TGGGGAACCTTAGAGAGCTTGT	30106	CCTGTTTGAGTCTAATCGTTCCTCTCT	41090
7465	GGGAAAGCAAGTAGAGGTACTAACATGA	19123	GCAGGTAGACGTGATTACAGCTT	30107	GGGGAGAGAAAAATGGGAAAGCAAGTAG	41091
7466	AGCACCGTTTCTGGATGTGAT	19124	CAGGATAGTCCCTAAGGCTCAAATG	30108	CCTTCAACAGGATAGCACCGTTTC	41092
7467	GAGGAGACAGGCAATTAGCATAT	19125	CTCCAGTGCCATACCCAGTTGT	30109	GCAGATCTTTCACTGGAGGAGACA	41093
7468	CCAGGTGGGACTGCTTTATCTCT	19126	GCTAAACAATGGGTAGTCTTGGGATCT	30110	TGCTCCTCAGGTGGGACTGT	41094
7469	TCACCTCGGAACCTGCTT	19127	GAGGCAACAGCAGACATCCATCA	30111	AGCACCATCCATCGGTCACA	41095
7470	CCCTACTCACTCCCTTCTCAGT	19128	TCGGATTCTTGTCTAGACCTTTC	30112	TCCCTGGGGAGACCTCTACTCA	41096
7471	CCCGCAAGGTGGAAGGTAATAGTAG	19129	AGGCTCTGTCCCCATGACCTAA	30113	TCTCACCCGCAAGGTGGAA	41097
7472	GCTAGCAGTTGATGAGAGTGGATTTCT	19130	ATCCGTGACAGGCCACACAAC	30114	CATAAGCACCCAAGTGCTGCTA	41098

7473	GGGGCCACAAATGGGGAAT	19131	CCCCAGCAGAGAGGAGACCATATT	30115	AGCTGGGATGTGGCTGTTTG	41099
7474	GGGTGGTTTGGCGTCTTATCACA	19132	GAGATCAGGACAGAACAGGTCTAAAG	30116	GAGACAAATGTAACAGGGTGGTTTG	41100
7475	CTAGCAGCTCTTAACAGATGATGTTG	19133	GAGTACAGTCAGCCTCTTGTTCCTT	30117	AACCATGCCAGCCTGCTCTA	41101
7476	GGTGGTGTGAGGGCTGGATATT	19134	CCTTCCTCATGTGTAGCATCTCA	30118	GGGGATTGTGAAGGTGGTGTGA	41102
7477	CTGGTTGGCATTATTTGCTCCAA	19135	GCAGAGCAGCATTGACGAACA	30119	AGAAAGGGCTGGTTGGCATT	41103
7478	GTGTCGTCTCTCCACATGTCTTG	19136	TAGCGGCACCCCTGTGCTT	30120	GGGACCTCCCTGTGTCTGT	41104
7479	CACACCTGAAGTCACTATCCTTTC	19137	AGCCATGTGTCCAGGATACA	30121	GGTCCAGCACACCCCTGAAGT	41105
7480	GCTCGAATTCCTACTGGGCTAAA	19138	CGTGCAATCCGTGGTGAGGAA	30122	CTGGCATCGCTCGAATTCCT	41106
7481	CCATCTTCTTTGCCATGCAGCAAT	19139	AGCTGGCCGATTCAGTTT	30123	TCGCTGGCCCTTCATCCAT	41107
7482	CTCAGAAATCACCTCTCCCTGAAG	19140	ACTGAGATTCTCGCCTGAAATG	30124	CGAGGAAGACCTGACTCAGAAATC	41108
7483	GCTGTTACCCGCACATTCAGT	19141	GCAGAGAGTTAGTTCACTAATAGAAGCAT	30125	ACGCAGACCTGGCTGTTCAT	41109
7484	CTCTGTCTCTGTCCCTGGAATAC	19142	GGCCTTCAAAAGGCAGGACTGT	30126	CAGTTTCTGTATCTGGCTTCTGT	41110
7485	GGCTCTTGCACTGCTCATTG	19143	CCTTGGACCAAGACTATGTGGAA	30127	AGGGTTTGGCTTGGCTCTTG	41111
7486	TGACCCCATGTGTCCAGCTACT	19144	TCCCTGTCTACATGAAGCAGATAAAG	30128	CCCAGTTACACTCTTGACCCCATGT	41112
7487	CATCTGTGAGACAACTGGTGAAC	19145	GCCAGAAATCTGCCTCTAGGTT	30129	GCAGAGTGCATCTGTGAGACAAC	41113
7488	GTGCAGTGAGAGGCGAAGTACA	19146	GGACAGGCTCCAGATGCTAACA	30130	GCAGGATTGTGCTGTGAGTGA	41114
7489	GAAGTACATAGGGGTGACCATGAAA	19147	CTCCCCAGACAGAGAACTGA	30131	AGGTGCTTCGACAGAAATACATAG	41115
7490	AGCGCTCTGGGATTTCTT	19148	GTACACACACAGGCTGGCTACA	30132	ACAGCGTGGCATGCTTTCT	41116
7491	TCACACCACCCATCTGGAGTCA	19149	AGGGAGGGGCATCTGCGTAT	30133	TCTAGAAGCCTCCCTCTCACA	41117
7492	GGAGGCAAGGAAACATAGTCTTTAAC	19150	CCTTTGCTTTTAGCAGGACTTG	30134	TCTCTGAAAAGGAGGCAAGGAAAC	41118
7493	CAGTTTTTCAGGCCAGTCTAAACAAG	19151	CTGGGACACCAAGGAATGATGTTT	30135	CTCATATCAGTTTTTCAGGCCACGTT	41119
7494	GCAGGCATGGTATAAAACCCATTCCATT	19152	GACCATGTGGCTTGTGCAAAAGTT	30136	GGGTGAATGTGACAGGCATGTTAAAAAC	41120
7495	CCCTCTGTGGGGTACTTGGTAGA	19153	GGTCTGTATAGGAAGGCCAAAAGT	30137	TGGAACCTCTCTTACCTCTGT	41121
7496	GGTGAGAAATGCTGTTATCCACCTTTAG	19154	AGTGCCCTCAGCACATGAAG	30138	CTGGAAGAGGTTGAGAAATGCTGTT	41122
7497	GGCAGATCACCTTGTCTCCAT	19155	GGTCGCCTTTGGAGCAGAGA	30139	ACCAGGGCGCAGATCACCTT	41123
7498	GGAAGGGGCTGTCTCTTCTA	19156	CAGACACGGCATCTTCTGGAT	30140	TCAGGCGGTTGAAGGAGGAA	41124
7499	CCACACAAACGGGTGTGAAC	19157	GCTGCGTCTTCTCGATGT	30141	GGCAACCACCAACCAAC	41125
7500	TGGATCGTGATATGGCGTTTTAAAG	19158	GCCCCAGTTATCACCTAATGAACACA	30142	GCAGTTGGCTTGATTGGATCGTGATA	41126
7501	GGGTTTTGGCTTAAAGCAGTCTGAGT	19159	AGTTTGCTCCCATAGCTCTGTAG	30143	GAGCCCTTGGGTTTTGGCTTA	41127
7502	GGGAAGAGGACAAAGTGGGACTGT	19160	CCACCCTTAAAACTCCTCTCATCAAC	30144	ACAAGTTTGTGACAAGGGAAGA	41128
7503	CCTCCAATCCCTGACCTGTAA	19161	CCACACTTCAAGGCTTCAATCATCCTT	30145	TCTGTGCTGTCTCCTCCAT	41129
7504	ACACCTCCATCTCGGCCACAA	19162	CCCGGCCACAACTGCTTTCTA	30146	TGGCTCCACACCTCCATCT	41130
7505	GGAGTTTTACCACTCCACCTGATTC	19163	GATGGAGACCCCTCTCTCCACTA	30147	GGCTCTGTAATACCAGGAGTTT	41131
7506	GGCAGCATGTGTGTGTTCCATCT	19164	CCCATTTCACCCACAGGAA	30148	GGGAAAGGCAGCATGTGTGT	41132
7507	CCTGAATGCCAATCGAGGGAAT	19165	CTCACAGCCTTCTCAGCCTTTC	30149	CAGACGCTGAATGCCAACT	41133
7508	TCTCATTTCTGACGGGACATT	19166	GCTAGGCTTGGTCTCTGCACT	30150	AGGGTGATTGCTTCTCCATTCT	41134
7509	CCAGGACCCAGACATAGGTGGAT	19167	CACGGTTATGTATAAAGAGCGAAT	30151	AGGTCCAGGACCCAGACA	41135
7510	GCTCAGACACACTCTGGAACA	19168	TGTGGCGGACGCCATTATCA	30152	ATGCTGGGCTCAGACACACT	41136
7511	CAGTTTCACCTCTGAGCATTGATTC	19169	GTTTGGTGCTGGCTTGGTT	30153	GGTGAGTGCTCAGTTTCACTCTGA	41137
7512	GGTTTCTACAGTTGCTGTTATAGAGAAG	19170	CAGTCCAGGCTGAGACATTCA	30154	CACATGGTTTCTACAGTTGCTGTT	41138
7513	AGGACAACCAGAGAGGAACAATG	19171	CCAGGCCAACCTTAGCCATATT	30155	GGGCTGTGTGAGAAGGACAA	41139
7514	GAGAGGCCATTTACGCCACTA	19172	GGAGATGGAGGGAGCTTTGTGA	30156	GGCTGTTAGTGAGAGGCCACTTT	41140
7515	GGTAGCTGGGAGAAAAGAAGGTTAG	19173	GTCTGCTTTAGGACTTTGCACTTAC	30157	CCAAGCAGGTAGCTGGGAGAAA	41141
7516	GGGATGAAGATCGAAAATAGGACCAA	19174	GAATGGGGTTGTCCACAATTAGTATG	30158	TGGAACAATGGGATGAAGATCGAA	41142
7517	GCCAACGGGAAACACATTGAA	19175	CCACCAACCCGATCAGTGCAAA	30159	CCTCAATGTATGCCAACGGGAAA	41143
7518	GTGACTTCTTACACTCTCTGATTC	19176	ATTTTTTCAGCAGCTCTTCTATCT	30160	CTGGGAGTGACTTCTCACACT	41144
7519	GTGAGACCAACCAAGCCAAT	19177	TCTTCAATCTCCCTTCCAAAATG	30161	CACACTGTACAATAGTGGAGCCAAAC	41145
7520	CAGGCTCAGTTGAGGTGAGGTT	19178	GCTGACAGACTTGTCTCCAGTA	30162	AGACAGCAGCAGGCTCAGTTG	41146
7521	GCAAAATGGCCAGGTACGATGT	19179	GCACCAGTTGGATGTGCTA	30163	GAAGACATGGGCAGAGAAGCAA	41147
7522	GTTTCCAGTCTCTGCTCATTAGGAA	19180	TCTGTGGGTGAAGGAATACACAATG	30164	ACTTCCAAATGTGTTTCCAGTCTCT	41148
7523	AGATGGGCTCTTCTGCTCATC	19181	CTGAGGCTAAAGATACCCATGGTA	30165	ACCCACACAGATGGGCTCTT	41149
7524	CCAGCCTTGATCTTTGGAATCCTGTTAC	19182	GCTCCTCACGGATGGTCTGAAA	30166	CTGTCCAGCCTTGATTCTTTGGAA	41150
7525	TCCATCCCTGGCCTCAATCT	19183	CTCACCAGCCTGAGAAAAGGAAAC	30167	TGTCGTGTTTCTCCATGTTCCAT	41151
7526	GTGTGCCAGTGATCTTCACTCATCTGT	19184	CAGGGAGTCTGTCCTTGCATAC	30168	GAGTATCTGTGTGCCAGTGTA	41152
7527	CCTTGCAGTGACTTCACTGTTG	19185	GCATCTTAGTACAGGACCCAGAAAC	30169	GCCTTGAGACCTTGCGAGTGA	41153
7528	ACGTCTCTGGAAGTCAGTGTAAC	19186	TGGGAAGTGGCGTGTGTTCA	30170	CCAAGATGACCAGTCTCTGGAA	41154
7529	GACCACCAAAAAGAGAAGTGTG	19187	CCAGTCCAGGCCCTGGTTA	30171	GCAGAACTGTCTGACCACCCAAA	41155
7530	GGGAACCAAAAACAAGCACTAAAGTGTGAT	19188	GTGGAGGGAATAGCCCTTGTAGA	30172	TCTGGGAACCAAAAACAAGCACTA	41156
7531	GGGGATCTTGCACTCACTTGT	19189	GGCCAGTCCCCACTCTTTCTTA	30173	GGTCCCATACAGAAGGGGATCTTG	41157
7532	GTCTGTAGCATCAGACCTTTAAGACA	19190	GACAGCAGAATGCAAGTGACCTT	30174	GCTGAAACCAAGTCTGTAGCATCA	41158
7533	CCCTGCATCTTTCAAAGGCATCTTTC	19191	CTGTTTCTCTGCTGGCTACAGTTTG	30175	GCTGTTGACACAGTCCCTGTCAT	41159
7534	CCAGTTCAAGGGCAAAGGCTACT	19192	CTCCCTGGAACAATAAGTCGATGA	30176	AGTTTCACTCTACCCAGTTCAAG	41160
7535	GTGACTCCTAATGAAGGCAGACTCCTA	19193	TGTGCCCAAGAAAGTAAATTGGGATA	30177	ACGCTATGTGCTGTGACTCCTA	41161
7536	GTGGGCTTTGCAGTCAGGACAT	19194	GGTGTGGCCTTACAGGTAAGA	30178	CGGTTTAGAGCATGTGGGCTTTG	41162
7537	GAGAGGGGATTGAATAGTCAGGTTAC	19195	CCTCAAGAGCATGCTACACACT	30179	CTTCCATTTGAAGAGGGGATTGA	41163

7538	TGCCTCTAGAATGGCACTGTTTAA	19196	TGCTGGACACCACAGAACCTT	30180	GTGCTGGTACCTGTTGCCTCTA	41164
7539	GTGTCAGGGGTAGTGAGTTTGGTTT	19197	GTCAACATTACACTCAGGACCTT	30181	GCTCATGGTGTGTCAGGGGTAGTGA	41165
7540	TCCTGTGGACATACCCAGTTGA	19198	TGTCTTCCATTAGTCCAGACTCA	30182	CCCCCTTGAATATTCCTGTGGACAT	41166
7541	GCCAGCAGATGAGTCATGGAGTAT	19199	CATCTCCTTTCACGCCCATCAGATA	30183	GGTCAATGCCAGCAGATGAGT	41167
7542	GTGGGATGCCAAGAAGTGTGACTTTG	19200	TGCTCCCTTGTCTATTGAGACTTG	30184	GGCTAAGTGTGGGATGCCAAGA	41168
7543	GAGCAATGAGAGAGCAATGCGTTAT	19201	CCCACACTCACTCCTCTAGTCTGT	30185	GTGCAGCATCACAGAGCAATG	41169
7544	GCCACAGGGAATCTGTGTTTGAAG	19202	GGAGAAAGGTTGAGTCTGGGGAATG	30186	GAGGAAAAACAGCCACAGGGAATC	41170
7545	CGTGCTGACTTAGGCAGATTTTG	19203	CCACATACCAAGGAGAGTTGACAGAT	30187	CTTTCAAGACCTACGTGTGACT	41171
7546	GCCAAACAAAAGTCTCGCTTTG	19204	GACGTCATTTAGCTCGGGTGAA	30188	CCAGGCAGGTGCCAACAAAA	41172
7547	CCAGGAAAAGAGGTGACTGCAT	19205	GCAAAAGATCCTGCTCTGTAGGGAAA	30189	GTGCAATTCAGATGGCCTCTTC	41173
7548	CTCAGCATGTTCTAAGGGCAGAGA	19206	CCCTCGATAAGGCAATGTATACTACA	30190	TGCAGAATCACTCAGCATGTTCTA	41174
7549	GTCCTCTGCCATGAGTGAAC	19207	GCCCCAGAATATGAAATGGAAACAGAAG	30191	GGGGCCTCGTTTTGGAGTTG	41175
7550	CCCTGGAAATGCATCCACGAT	19208	CAGAATGGATGCGTCCGCTAA	30192	GCCTGCGAACCTGGAAATG	41176
7551	GGCTTGAGTGAAATGGTAGTACTCAAA	19209	GTTCAGGGTCTCTCTCTCTCCAA	30193	AGTCTTGGCTTGAGTGAAATGGTA	41177
7552	GCCTAGTGTAGGCAAGGAAGTCT	19210	GATTTCTTAAAGCCGTTTGTGGAT	30194	AGGGGCAGAGAAGCCTAGTGTA	41178
7553	TGGGCCCTGTAGAGTGCAATTC	19211	CCCTATGGAAAGACAGACCCCAAA	30195	TCCTTCAGGATGGGCCCTGTAG	41179
7554	GTGCTCTGGGTGTGTGTTCA	19212	CCTCTAGTTCCTACTCAGCCTCTAAC	30196	TTGCAAAGCCCGGGAGTGT	41180
7555	CTCCTACTTGGGTGGAGGAAGTCT	19213	CATGCTGAGGTAAACACTACTCT	30197	GACCATAGATCCCCTCTCCTACTTG	41181
7556	GTAGCAGTACAGATGAGTGACATAGAT	19214	GTCTTGTCATTCTACCTTCAAATG	30198	GGACGAAGGTGGTAGCAGTACAGA	41182
7557	GGGTTTCTGCAAAAATGGAGAGCTTTT	19215	GCTTATGCTGCTGCCATCCTT	30199	CCTTCACTCGGGTTTCTGCAA	41183
7558	CAAACCAAGCACTTCTCCAAAAC	19216	ACTGGAGTTCATCCTTTCATACAA	30200	TGTGAAGTACAAACCAAGCACTTC	41184
7559	GCCCTCTTTCTCTGCATCTGGTA	19217	CAGAAAGTAACAGGTCAAGTCAGAACTA	30201	TCACCTGCCCTCTTTCTCT	41185
7560	CCTTTCAGCCACACCTGCTTTG	19218	CAGGCTCATGGCAGAACTGT	30202	GCACTGCTCAGCTCCTTTCA	41186
7561	GGAGACTGTATCCAGGCAGTGTGT	19219	CTCAAATAGGCCCTTGGCAGAAAAG	30203	CATCTCCTAGAGCTGGAGACTGTAT	41187
7562	GCCCTCTCTGCTGGCATT	19220	GGTTTGCCATCTAGATCAATGCAGACTT	30204	TGACACCAAGATGCCCTCTCTT	41188
7563	GCAGCCCTTTTTCGAGGAT	19221	CAATCCCTGTAAATATCCCATCCAT	30205	CATGTCTGTACAGCAGCCCTT	41189
7564	GAGCTTTGGGAAAGGGGAAAGAGA	19222	CTGAGGACCTGTGGTTGAGTT	30206	CCACATCCAAAGAGCAGAGCTT	41190
7565	TGGCCTCGGGTTTATAGATGAAC	19223	GGCTGCTTGTCTAATTCCAGAGA	30207	GCAAAATATAGGATGGCCTCGGGTTT	41191
7566	GCACCTTACAGTGCCAACTGTTTC	19224	GCCTCTGTAGAGAGCAGCATTC	30208	TTGGGGAGCAAGCACCTTAC	41192
7567	CCACTTCTCTGTGACCATTTGTTGGTA	19225	GTCTGGATTGTACTTAGAGGAAGAAAC	30209	CACACCATTCTCTGTGACCAT	41193
7568	TGGGCAGGTCACACCTGAAT	19226	ACCTCGAGTCGGAACCTCTT	30210	TAGGTGCGGGAGCTGAGACA	41194
7569	CACCTGTGCCACGCTCGCTTT	19227	ACCTTTCGGGCCCTGCATT	30211	AAACCAGCCCTGCACACTG	41195
7570	CCATCTTCACTCTTGTCTTGCTT	19228	GCAACAGGTCTGTGGCAATG	30212	CCCCAAACCATCTTCAGCTCTT	41196
7571	GGGGTCTCCTTAGTATCATCCCTT	19229	GTTTAGGACCCCTTCTGTGAACAT	30213	TTGGGTGAGGGGTCTCCTT	41197
7572	CCTTCTCGGATGTGCTTGAAGT	19230	ACCTTCTCTGGCTGACTGCTT	30214	CAGGTGACAAACCTTCTCTGGATG	41198
7573	CCGGGTACACCAACCATCT	19231	ACCATGGTAACATTGGAAGGTGAA	30215	CAATAAAACCTTTCCGGGTACACA	41199
7574	GGGTCCCACTGTTACCAACTCTTG	19232	GGCTGTTCAGTAAGGTTGTCAGAA	30216	ACTGAATGGTCCCACTGTTAC	41200
7575	GTGTGGAGTCAAACACTCTGCTT	19233	CCCCAAATCACCACTTAAATGGAATCAGA	30217	GCTCAGGGTGTGGAGTCAAACA	41201
7576	GGATGAAAGAAACCCAGACAGAGACTT	19234	CGAGGTTCCATCCTAGTCCCAAGT	30218	CGTGTCTTTAGAGGATGAAAAGAAAC	41202
7577	TGGGGTTGTCTCAGTGGTGCTA	19235	TGCCCAAGTGGATGACGGAAT	30219	TCCAATGAATGTCAATGGGGTTGT	41203
7578	GGGGTCTGCTGTAGAATCCTGTTG	19236	CGAAGCACTGGGAAGTGCAGTAAA	30220	CTGGATTTTCAGGGGTCTGTGTA	41204
7579	GTTTCTGGAAGACAAATCGGCATTAC	19237	TGTGTATGAACACACAGCAGGTT	30221	GCTGTTACAGGTTTCTGGAAGACA	41205
7580	CCCTGCATCATATTCTGTGAACACTTTG	19238	ACAGCATGGTGTAAAGCAAGAACT	30222	TCCAGCCATTCCCTGCATCA	41206
7581	GGGCAGGCAATTTCCCTAAGA	19239	GCGGAGAAAGAGAGTTCAGTTTTATC	30223	TGTCAGTGTGGGCAGGCAAT	41207
7582	CTCTCTGATAAGGCCCCGGTTT	19240	CCATGCCTGAAATCGGCTAA	30224	GTGGGGCCCTTCTCTTCTCT	41208
7583	CCACCAAGGACCTATGAGCAGTT	19241	CCTTAGGGTTGTTCCCTTCTCAGT	30225	TGGTAAGGGCTAGGCCACCAA	41209
7584	TCCATCCAGAGTCCGACCAT	19242	GTCAACGACAACCCAGCAGACA	30226	GCAGCTGTTCCCGTGACTGT	41210
7585	GAACCAGCAGATTTGGGGCTAT	19243	GCACACCTTTGGAATCAGTACT	30227	TGCTGAAGCCCCATGAAC	41211
7586	GGGCCCCGCTTTTAACACTTTG	19244	GGGGTAAGGAATGTAGTGTATTTATTG	30228	TTGCATAAGGGCCCGCTTT	41212
7587	GAGAGTAGTTGTGGATACCCGAGAAA	19245	GGGGAAACCTTGAGAACTGAGAA	30229	GGAACAGAACAGAGAGTAGTTGTGGAT	41213
7588	TGCTCAAAACCAAGTAGCACTTTCA	19246	AAGCTCCCTAAAAGTCAGCAAAGA	30230	GCAACGCAGCAATATATGCTCAA	41214
7589	CAAACCTAGACTTCCAGCGTTAAG	19247	CCTGGGCTTCGGAGAGAGA	30231	CACCAACCCCAACCTAGACTTC	41215
7590	GCAAAGGGCCCCAGTTTGTCTT	19248	CAGTACCAGAGTGAGCAGTCA	30232	TACCTTGGGGCATGCAAAG	41216
7591	GCCTTGCAAGAGAAACATTTTGGAT	19249	GCCATGGGGAAATAAGCACTCA	30233	GCCAGCCTTGCAAGAGAAACA	41217
7592	GGGGAGTATCATTTTCCAGCTCCAA	19250	CACGCCACTCAAGCTGAAGGAA	30234	CCACAGTCCCTAAATGGGGATATCA	41218
7593	GTGTGTCCGTTGTGTGCAACT	19251	CTGTGGCCCAAGGAGGAAAG	30235	GGTGGGCTCTGTGCTGTGT	41219
7594	AGCGGTGTAGCCGTCTGA	19252	TGCCAGGCTGCTCCTGCAT	30236	CCAGGTGCAGAGCGGTGTA	41220
7595	CGCTGAAGGACCTCTCTCAAAG	19253	CCCAGGTCTCCCTAAGCAT	30237	AAGCCTGGCTGGCGCTGAA	41221
7596	AGAGAGGCCCTGAGGACTTG	19254	GACACTGTCTTGGCAACCATTTT	30238	AGGAGCCGGGCATTGAGAGA	41222
7597	TGTAACCTAAAGTGTAGGCTGCGTAT	19255	GACCTTGAAGCCAGGTCCTATG	30239	GAGGATCCCTTCTGTAACCTAAAGTGT	41223
7598	GACCAACGATGTGTTGTGCTCTT	19256	GACTCCCAAGCAAGATCTGAGAA	30240	GTGTATAAAGCCAGCAACGATGT	41224
7599	GGTGTCATGCGGGCTTTAGTA	19257	CCACAACAGAAGCATGGTGATAC	30241	TGGCAGGACGTGGTGCCAT	41225
7600	CTGGGGATTGGGAAATCACTCT	19258	CTGGAGCTGAAGTTGATGGAGAT	30242	CCGCAACCTCTCGGGGATTT	41226
7601	CACGATGGGAGAGGTCTATCTTG	19259	CGCTCCGTTGGCAATCAA	30243	GGAGGCCACCATTCACGAT	41227
7602	GCCTTTGGCGACATCGTCTTC	19260	GATGGAAACCACTTTTTCACCTCT	30244	GATGCCAACCGATGCCTTTG	41228

7603	GCAAGACCCCATGAAATCAATGGAACA	19261	AGAGTAGGGCTCCCCATTCTTT	30245	GTTATGAATTGCAAGACCCCATGAA	41229
7604	GCAGCTGCACCATTTACAGCCTAA	19262	GTGAACCTTGGGCATCTCTGTGA	30246	CAGAGGCAGCTGCACCATTT	41230
7605	TGGCCAGGCAGCTCTGTCA	19263	GAACAGGCTGCTTCCGATCA	30247	TCAGCTGACAGGGCCAAAAC	41231
7606	CCAAACTCATTTGTTTCTCCTGGTTT	19264	GGGCTTGAGCATGGATTAAAGGGAAG	30248	CTCTCAGAGCCCAACTCATTTGT	41232
7607	GCTGTGGAAGGTCATCTGAGACATC	19265	GATGAGTGAGACTGGAACCAT	30249	TGGGCTGTGGAAGGTCATC	41233
7608	TCACATCCACTGGCCGATTTC	19266	GCCTGAAGAACTCGGCTCTGT	30250	AGCAACGGAAGGAACTCACATC	41234
7609	TGGCCCTGCTGAACTTTAGAAC	19267	CTGTGTGAAGGAAGGAGATGAAAGT	30251	CCAGTTGGCCCTGCTGAAA	41235
7610	CGTCCATCTCCAGGACCAGAA	19268	GGCACATACAGAGTTCAGCCTGTT	30252	TGGCCGTGAGCGTCCACTT	41236
7611	AGGTAGTCGGTGAGCAGGAA	19269	ACGCCGGTGTCTGCTACT	30253	GCGTGTAGCGCAGGTAGT	41237
7612	GGAAGTTTCCCTTGTGTGAAAGTCAA	19270	CTGACTGGTCTCTGTCTCCAAGAAG	30254	CTCCAGGAAGTTTCCCTTGTGT	41238
7613	GGTTGGCTGTACCCCTAGAGA	19271	GGAGCAGGGAAGGATGCAACTA	30255	CCTCCTGTCTTGTGTGGCTGT	41239
7614	GTGATGCTTTTGGGAATTCACCTTCT	19272	CAGGATCTAGCCCTATGAGCATGTTA	30256	CCACCAGTGCACTTAGTGATGCTT	41240
7615	CCGAATTTTCCGAGGACCAAGT	19273	GGAGCCGCGCAGGTTTACA	30257	GCTGGGACACACCTTCGAAT	41241
7616	GCTCTGCTAGATGCTGAGGATGA	19274	GTGAGCTCTGTGAGGATGGAGAT	30258	TGCCGGTGTCTCTGCTAGAT	41242
7617	CTGGGAAGAGGTGGATAATGTTC	19275	GTGATAACAGGAAGGGGATGTTTCTCT	30259	CAGTTATTTGTCTGGGAAGAGGTGGAT	41243
7618	AGGGAGGGAATGTGAAGAGAAAAGT	19276	CACTCAGCTGGCACTAGTCTTT	30260	GAGGGAGGGAGGGAATGTGA	41244
7619	GCTTCCCACTGCTTAGGACCACAT	19277	TGGGTGGTTTTGCTGTCTAAGTT	30261	ACCCGGCTTCCAGTGCTTA	41245
7620	GAGGCTTTGACTGGATGATGTTCA	19278	GGGGCAATGACACTCTCTGTT	30262	GTGAAAGAAATCTCAGAGGCTTGACT	41246
7621	GCCCATGTCAACCCCATCCAAA	19279	CTCTGTCTTAGTTGCTCTGTTGAT	30263	TCTTCTGAGGCCCATGTCAAC	41247
7622	GTTGGATCCTTTCTAGCTCCAAGA	19280	AGCTCCAGAGCCTAGCACTT	30264	GCCAACTTCTTTTGTGGATCCTTTC	41248
7623	GCCTCAGACCCTATTGTACACAAG	19281	GAGACCATTTCTTGACAGCTGGTT	30265	ACCACCTTGCTCAGACCCCTAT	41249
7624	AGAGGGGTATTGCCCTGTCTAA	19282	GGGAAGAATCTGGACCTCACCAT	30266	GGTGAAGCAGCATCTTAGAGGGGTAT	41250
7625	CGAACTCTCCATCCCTGCTTCT	19283	CTTGCTTTACTTTGTGGAGTCATTCT	30267	GGTGGCCGGAACCTCTCCAT	41251
7626	GTGGGCTAGTTTATCTTCCAAAATC	19284	GGAAGTAACACCTACAGAAGTGGAA	30268	CCGTGGATGTGGGCTAGTTT	41252
7627	GCCTGGAAGTATGGTGGTGTA	19285	ACCTGAGCCCGGAGGTTGA	30269	TCCACCTGCGCTGGAGTATG	41253
7628	GTGCCGACTGTTTTGTCTACA	19286	CACTCATGACTGAAAACCATCTT	30270	TGTACCCAGTGCCGACTGTT	41254
7629	CACTGGAGGTTGGTGGGAAGCAA	19287	GGACAAGCTTCAAGAGTTAGGTTAGGTA	30271	CCATGGAGACCACTGGAGGTT	41255
7630	GCCACAGTTGGCTCTATCTGCTA	19288	GGAAAATAGCCTTCTTCCACAGCCTAT	30272	TCTAAACTACCTGAGCCACAGTTG	41256
7631	GACTCCCAATTAGCGCTCTTTTCA	19289	GCTGGCAGGGGTGAGGATTTTA	30273	GCCAGGCTCTTGACTCCCAAT	41257
7632	GACTTTTACCCACACATGGGATT	19290	CAGTTATGTCTAAAGACCCGTATCAT	30274	GTCTGTGCTCGATGACTTTTC	41258
7633	GCATGGGCATCATTAGTCACACA	19291	GTGAACCAAGGTTGAGCAAAATC	30275	GGTTGTGGCATGGGCATCATT	41259
7634	CCCTGCAGAACCACTTCCGTTA	19292	CAGCATCGGGGAGTAGTTAGGTTTC	30276	ACCTGCGTCCGTCGAGAA	41260
7635	GCCACCTGAGACCATGCTTCTA	19293	GGAGGCAGAGAAATCCAGTTTGT	30277	TGTCTTGTGCCACCTGAGA	41261
7636	GGCTTATCCTGGCACCATTCT	19294	GCACCAAGCCTGCGAGTAA	30278	AGCCTCTCCAGCTGGGCTTAT	41262
7637	GGGAGACAACTCATTTGGAGTCA	19295	CGTCTGTCTAGGAAAGAGCTCTA	30279	TGGTGAGGAATAAAGGGAGACAAAC	41263
7638	GGAAGCACATTGTCCAGATGGTT	19296	CTCACAGAGCTATAAGCAGGCAAA	30280	AAGAAGTCACTGGAAGCACATTG	41264
7639	GGCCACACATGATGAAGA	19297	CTGGCAGGGCGTCTTTTC	30281	TGGTCCACGGCCACACAT	41265
7640	GGCTTGATCTGCTGTTACTGGAGAAG	19298	GCGATCTCCATTGCAACCAT	30282	ACAGTAATGGCTTGATCTGCTGTT	41266
7641	CCCAAAGCTCCCTCATTACCTTCTT	19299	GCTCAGCAAAATGCCTACTAATTG	30283	ACCTTCACAGGATCATCCCAAAG	41267
7642	CCAGTGGGGCATTACTGGGTTA	19300	CATGTCTGGAAACTGCTTCTGTT	30284	TACGGTGTCAGTGGGGCATT	41268
7643	GGAGGCCTTTTCAAGGATCTTGCTA	19301	TGGGTGAGTTGGTGAGGCTAC	30285	GCCTATCACTTGGAGGCCCTTTC	41269
7644	GGTGTGTGAGGCTAATCCTTGA	19302	GCTGGCTCTGCTCCATTCTA	30286	GGCAGGAGACTTGGTGTGTA	41270
7645	CCTCCAGAGAAGTCGGCAATGTT	19303	AATGAGGTATAAGGCAAGCCACTT	30287	CTTTGCAACCCCTCCAGAGAAG	41271
7646	GAGCGAAAGTGCGAGGTGATAG	19304	GCATCATTTACAGGCAGACTTACAAAC	30288	TGCGCACAGAGCGAAAGT	41272
7647	ACAGTGAAACCAAGCCCATCTTC	19305	GAAGATCATCTGAAATTTGCCGATTG	30289	AGCCTCTGGGCACAGTGAAC	41273
7648	GACCAGCTTCTTATGACTTTTGGTT	19306	GAGAAGCCAAAGTGCTACAAG	30290	GCCATCTCTTTACTGACCACTT	41274
7649	CCCATACAGTCACTGTCTCTACA	19307	GGCAGGCTTATGTACCCACTGAAA	30291	GCTGTTCTTTCCATACAGCTCACT	41275
7650	CAAGAACCCAGGTGAGAGAAC	19308	GGGGTCTTGTCTATAGAGCTT	30292	TGGAATCCGTGAGGCCAAGA	41276
7651	GTGTGTAGCAGCAAAGACTGTAATC	19309	GCACTCTAGGTTGAATAGGTGCCTAGA	30293	CTGAAACTGTGTGGTAGCAGCAA	41277
7652	GCACACACAAGGACTTGCTACA	19310	CTGCCAGGAAGTAGGATTCATTCA	30294	ACAGGGCTGGCACACAAA	41278
7653	GCGAACAGGCAGGAAAGACTCA	19311	GTCTCTGCGCACTTGAAGTCTCTAT	30295	GGGCTCTTAGCCTTGGAGGAT	41279
7654	GTTACATGAGTAGAAGGGTTGGGTTA	19312	GAGCTGGTGTAGACAGAGGTGTTTC	30296	CCTTGGAGTGTCTGGGAAAGTT	41280
7655	GTACAGCCAGCAATTCTACCTT	19313	CCTGCAAGAGAGGAATGCAAAAC	30297	AGCCCCACGTTGTCTGTA	41281
7656	GGTGTCTCTCTGTGGCAATATTGTATG	19314	GCAGTTAACTACTTCTCTAGCAGTGA	30298	CAGGTGTCTCTGTGGCAAT	41282
7657	GCTGCCGGGAAAACCATGTAGA	19315	TGCCGGTCTCTCTCTCTCT	30299	GAGACAATGCTGCCGGGAAA	41283
7658	CGCAGTGATCTCAATGACAGGAT	19316	GAACATTTGGGTGTCAGAAGTACTGA	30300	GCTTTGCTCCGGCAGTACTGT	41284
7659	GCCAAGGAAGCTCGAGGGATT	19317	GGAAAAACCGAAGGACCAAAGATGA	30301	TCCAAGCGCGCAGACTGTAT	41285
7660	CTCTCCTGCTATGTCCTGAAC	19318	CGCTGAAGTGTATTTACAGTCTATGAGA	30302	CCATTGAAAACTCTCCCTGCTATG	41286
7661	GACTTCAAACAATGAAGAGGGGACTA	19319	CCTCTTAGGTGTTGTTGGCAGAA	30303	CACCTGTGTTGATATGACTTCAAAC	41287
7662	GGTGTGTACGTGGGAAATTTGGGATA	19320	CCTCCCTGGAAGGCTGTAAAATC	30304	CCAGGAAGGAGTCTGGTGTGT	41288
7663	GGAGAGATTGAGAAGGGAACAGATGATTTT	19321	AAACCGTGTGTGAACACTGAAC	30305	GCGACTGTACGCGCACTTCT	41289
7664	GCACATCGTTTCTGCGTCTTG	19322	TGGGCTTCCCATGTCT	30306	CTACCAGAGGCACATCGTTTC	41290
7665	TCCCTCTGTTGGTCTCTCTT	19323	GCAACATTTGGAGTCAAGGGAAGT	30307	CCTGTTCTTCTCTCCCTCTGTT	41291
7666	GACAGCCAAATCCAGAGAGT	19324	TGCGTGTGGGAGAGCTAAG	30308	AGCTCAAGGGACAGCCAAATC	41292
7667	GCAAGCGGGAAGATGGAAGA	19325	GTGTGTGACGCTGAGAGATCCAA	30309	GGCAAAGGCAGGCAGAAAGCAA	41293

7668	CCGCTCAATACCAGGACTCTTAG	19326	TGGAGGCTGAACGTGCCTTT	30310	TCCCTGACAGCCGCTCAAT	41294
7669	GCTATTGTTCTCACCTATGTTGTGTTG	19327	CACCTAGGATGATGGGATGACTGAA	30311	GGGACTCACAAACTGCTATTGTTTC	41295
7670	GCTGGCTTTAGAGCTGGGCATA	19328	TGAAGAGGAAGTGGCAGAGTTG	30312	GCTCTGCCAAGAGCTGGCTTTA	41296
7671	GGATTTTCCTCTACAGAGTGGTTTCT	19329	CAGGAGGCTCACAGAAGCTTTA	30313	TCCAACTCTTAGGATTTTCTCTACA	41297
7672	CTGCTTGAGAGAAGGAGACCAA	19330	GGGAGAGGCCAGGTGGAAGT	30314	GCTGGCAACTGCTTGAGAGA	41298
7673	GCTTGGCCATGTTCTTGAAGCTA	19331	GGGCTGGAATGTTGTGTGGGAAA	30315	AGGCTGCTTGCCCATGTTCT	41299
7674	GGTTGCTTCTGCACAAATCCAAGT	19332	CACCAATATGGAAGAGGGTTCCAGCAT	30316	CCCTTGAAAATACCTGGTTGCTTCT	41300
7675	CCCCTCTGTTTGACTCAGTGT	19333	GTTCAGAGGGGATTTAAAGAAGCTGTT	30317	GAGAAGAATGCCCGCTCTGT	41301
7676	AGAGGAATTGCGAAACCATGACT	19334	TTCAGCGAGACCTGCCCTTTC	30318	CCCAGATGGAGCTGAAAAGAGGAATTG	41302
7677	TGAGCGTGGAGATGGTGATG	19335	GGGAAAAATCCTGGGTAACCTCTTCTTC	30319	GGGGTCCAGCACTATTCTCTTG	41303
7678	TCGGAAGGGACTTTCTAGTCTGT	19336	GCACAAAGACAGACGTAAGATGAAAC	30320	CGAGGTTGTGCGAAGGGGACTTT	41304
7679	CTCCAGCACCTTCTGACAAAC	19337	CCAAGCAAACAGTGACTTTCAGACAA	30321	CCAAGGACTCCCAGCACCTT	41305
7680	TGACCCGCACAGCATCTTG	19338	GCCTCCCTGCTTCTCTGAT	30322	AATGTCAGGCAGGCCAGAGA	41306
7681	GGATCCTGCTTCCAGTCTGTCA	19339	GACCTCTCTCAACTCGTGGTA	30323	AACCGGTGGATCCTGCTTTC	41307
7682	GGAGTCTTTGCTCCGTGTCTGT	19340	GAGTAACCACAGCTCATCTCATAG	30324	AGTCCCTCCCTGGAGTTCCTTG	41308
7683	GTGGTGGTGTATTAGGCTAGGTTAG	19341	GATCAAGCAGAAAGGTCCTTGTTTA	30325	TGGAGAATTTGTTGTGTGGTGT	41309
7684	CTTCAAACCCGAGATTCTTAGTCT	19342	CCTGGTATAGCATAAAGGTTGAGAGTGAT	30326	AAGTTACATCTTCAAACCCAGAT	41310
7685	TCCTGCCCTTAGAGTCAGAAAGA	19343	TCTCAATCCCTGTGTGCCAATA	30327	GACAGAATCCAAATCCTGCCCTTAG	41311
7686	CCCCTGATTGACAGCCAGCAA	19344	GCAATTCCATGGGGCTGTAGCATAG	30328	CGAGGGTGACCCCTGATTGA	41312
7687	GTCTTCTGTCTACTTGGACCTTTAAGTCA	19345	GAAGGAAGGGATGGCCATTAGGAA	30329	CCAAGTGTGCTTCTGTCTACTTG	41313
7688	CCTCAGGACCTTTGAGCAGTCCAA	19346	CACCAACCCAAACCAATCCCTTT	30330	GCTTCTGTCCCTCAGGACCTTTGA	41314
7689	CCAGCTGCTGTTTCAAGAGTGCAT	19347	CACAGCCAAACCATATCAATAGGTGAA	30331	TCCTTCTCCAGTCTGCTTTTC	41315
7690	CCCAGGTGTGTGTAACCAAAGTTT	19348	TGCTTGAACCTCCAGATCAGCAAA	30332	CTCTCTTTTCCAGGTGTGTGT	41316
7691	GGAGACAAACAAGACAGAGGAGAT	19349	CTGCACTGCGTTTCCAGCTA	30333	GGGTAGAGGCCATGGAGACAAAC	41317
7692	GGACCTGTGTGATAGCAAGCAT	19350	GTGCAATACACTGGGTTTGCTGTAG	30334	CCATAAGAAAGAAGGACCTGTGTGA	41318
7693	GGACTGGTCTAAGTGGGTGTCACT	19351	ACTGTGTGTAGAGAGACCTTGTGA	30335	GCCCAAGCTTTGGACTGGTCTAAGT	41319
7694	CAGAGCAGGACAATGGCTCTAC	19352	CTAGCACATTGACTGAAGGAGATAGAA	30336	TCTGGGTGAGAGCAGGACAA	41320
7695	GCTTCGGACTGATTCTGCTGTGTT	19353	GACAGAAATGGAGCAGGTGCTAAGA	30337	CCTGCTGCTTCGGACTGATTTC	41321
7696	GCAGTAGCGAGTTGACTCCATCA	19354	CTCAGAGTCAATATAACCATCGCTAACCAA	30338	CGTTACACGCAGTAGCGAGTTG	41322
7697	CCACAGTGCAAGGTGAATTTAGACT	19355	CGCCATGCAAGTTTCTCTCTTG	30339	GCCCAAGAACACAGTGCAA	41323
7698	GGCTGGTCTTCTTGTCTGTA	19356	GCTCAGTGGAAATGATTGTGCGTAA	30340	CCTACAAGGGTGGCTGGTCTT	41324
7699	GCACTGGCATTTCCTTTGTT	19357	AGCTGAAGGGTTTCCACAATG	30341	TGCTGTGGCACTGGCATT	41325
7700	GTCCAGAACCACTAGGGCATGA	19358	ACTCCGGCAGAGACTCGAA	30342	GCTCTAGGCCTCATGTCCAGAA	41326
7701	GAAGGAAAGAGGAGTATGTGCTTCATC	19359	GACCAACACATAGGTTAGGGCTTG	30343	TCTCAGAAGAAGGAAAGAGGATATGT	41327
7702	CTGCTTCTCTCGCTTTTGCAATTC	19360	CAGGAACGGCAGGAAATAAGAGATT	30344	TCCTGTGCGACTCTGCTCTCT	41328
7703	GCTCCCCGGTCATTCTCTTCT	19361	GAATAGGGAATTGAGGAGGAATGTGA	30345	ATCGATGGCTCCCCGGTCATT	41329
7704	CCGGGGCTATGCAATGTATCA	19362	GAGAAACCTGCCTAATACAAATCCCTTTT	30346	ACTGTACACTCCGGGGCTAT	41330
7705	CTGCCTCTTGAACACTAACAGT	19363	CGTCTGCTTTTGGAGGATCTGAAC	30347	GATCACACTACTGCCTCTTGAA	41331
7706	GCTTCACCCGAAATCAGAGACA	19364	GGAATCCGACCAAGTTCTCTCT	30348	ACAGAGAGCTTCACCCGAA	41332
7707	GTCAGACTCCATAAGTACCGTTTACA	19365	TGTCAGGTAGGATTGGGATGGTT	30349	TCCAGATTGTGAGACTCCATAAGT	41333
7708	CCAGAGCATGCTGACGCGTATTT	19366	GGGAGGCAGGACACCTTTTCTT	30350	GCGCAACACCAAGAGCAT	41334
7709	GGTTTGTGGTGAATTGTCAAGCATGT	19367	AGGGAGGCATCCCTGGAAG	30351	GGGTCACTGTACTTGGGTTG	41335
7710	GCAGCCCAAGATCACTGGAGTT	19368	CAGCCATTAGAGAACCACAGACT	30352	GGTGGGTGCAGCCCAAGAT	41336
7711	TCAGCTGTGCGGGTACTGAA	19369	TGAGAAGCGCCCTGTTCTAATG	30353	GGGTCTAGCTGGTTCGTTTCA	41337
7712	CGTACTACCAGTATCCAACCTTTG	19370	TCAGGGAGTGGTAAATAAGGCTAGA	30354	GGCCCTTTCGTACTACCAGGTATC	41338
7713	AACTTGGAGTGGAGATCGACAAA	19371	TGGGGTGCAGGACCTCTTAAA	30355	CACCTGCTGCTGCTCTTAAA	41339
7714	AACCAAGGCAAGACCTTTCTT	19372	CCTGTGATCTCACTCCCTGATTCACT	30356	TTCTGCTTAAACCAGGCCAAGA	41340
7715	GCTTGACTGCCAGTGTCCAA	19373	TCCCGCCTTTTGTGGAT	30357	GGCCACGAAATGCATGCTTGA	41341
7716	CGCTGTCCAGTTTCCCTGTGT	19374	GAATTACTCTGGCTCAGCTCTT	30358	GTTCATCCGCTGTCCAGTT	41342
7717	AGCCTTGAGAGAGGTGTGATGAT	19375	GCAGGTACAGGTTTAGGCTTCTCT	30359	GTCAACAGTACCTTCTATAAGCCTTGA	41343
7718	CAGGTAACATGCGTTCCTTTG	19376	GTCTCTTATCCATCCACAGCAAGAA	30360	GGATGAACCCCTCTACAGGTAACA	41344
7719	CAACAGCGCACTACAAGGCTAT	19377	TCCATTCTAGGGACCAATCGTACT	30361	ACCAAATTCACAGCGCACTAC	41345
7720	GACTGCAGAATACAGAGGACGACTT	19378	CAGCCAAGAGCTCGCATTTCA	30362	CCACACCTCAGTCCCTGTGA	41346
7721	CTTCCTTAGAAAGGTGGCATCAAGT	19379	AGCAAGCAGCAAGCCATTTTAC	30363	GCTCTGCACTTCATCCTTCTTAG	41347
7722	CATTGTGGGCAAAAGAGCAAAAC	19380	GGGTCACTATTGCAAGAGTGATT	30364	GGGCTTTCATGCTGTGCTATTG	41348
7723	CCTGGGACAAACCTCTTCTCTGAAT	19381	GGACTTTCAAGGAGATGAATCCCAAAGA	30365	TCTGGAGTCTCTGGGACAAAC	41349
7724	GGAAGACAGAGTGTGGGAGGTA	19382	CCTGTTTCTTTTCAAGGGAGGCTAT	30366	GGCAGCTGGAAGACAGAGTGT	41350
7725	GGGACAAAGGTAGGGGTGTGATAC	19383	CTCAATAGTATTTGACACGCTCTCTCT	30367	GCACAAATCAGCAACTGGGACAA	41351
7726	GCGGAATTCCTCAAGGCACAGA	19384	TCTGGGTGGGGCTGTGAGTAA	30368	TCCTCACTGGAGTGGCGAAT	41352
7727	CCACTGGTTTATCCCACTGGCATTT	19385	GCTCATCTGGGAAAGATGTCACTA	30369	CCTGCTCTGCAATTCACCTGGTT	41353
7728	GGGCTATTGGTCTGGCACACAT	19386	GTCTCATGGAAGCAAGTGAATTTGTTT	30370	TTTCAGGGAGTCACTGGGCTATTG	41354
7729	GGTGGGTGCTTCACTCATCAT	19387	GGTGATTTAAGAGCAAGGGTTAGCTT	30371	ATCTGCTCGGGGTGGGTGCTT	41355
7730	CTGGCTGTAGACTGTGATGAAGA	19388	TTAAGCCCCAGGCTGTGTAATC	30372	TGACCTCATCTATTCTGGCTGTAGA	41356
7731	GCAGCTTGGCCTTAGAACCTTTC	19389	TGTGTGCCATCTGCTTTCACAA	30373	CAACACTGCAGCTTGGCCTTA	41357
7732	GGGAAGGCTATTTTACTGACCCCAA	19390	CTCTTTGCTTCAAGGCTGAAATC	30374	TGATCTAGAGAAAGGGGAAGGCTAT	41358

7733	CACCCATACTTGCTGGGTTCAACA	19391	CTGGTCACAGGGCTTTCTCCTT	30375	AGCCTGCTATCACCCATACT	41359
7734	GAACCAACCTCTCAATCCATCAAG	19392	CCTGCCCGCTTTTAGATAATGT	30376	CTCCATGGAAACCAACCTCTCAA	41360
7735	GGGCTCAAGCTGTTCTATGCCTAAC	19393	GGCCATGCCCTCTCCATGTAT	30377	TCTGGGGCTCAAGCTGTTCT	41361
7736	GACCTTACCCAGCAGTTCAAGCAT	19394	AAGGGCTGACCCTCTTCAGT	30378	GAGAGTGAGGAAAAACCAAGACCTTA	41362
7737	GCCATAATTTCAAGGAGGACGTA	19395	AGAGCCTCAGGCGGACCTTT	30379	GGGCTGTGCTTCCATCTTGCCATA	41363
7738	ACCTGGCCTCAAGTGGTCCAT	19396	CGATTCTTGTTCAATGGAAGGTAATG	30380	TCTCACACACCTGGCCTCAA	41364
7739	GGTCTGTCTTGCTTTAACTGGATTG	19397	CAGGTGTAGTAAACATAGTCCTCTCCAA	30381	CCAGCCTTGGTGTGTCTTGCTT	41365
7740	TCCTGGCTCTGTGAGCAACTAC	19398	CTGAGGTGGGTTTGCTCTCTGT	30382	AGCACCTCCAGGTCACAAATC	41366
7741	GGGCAAAACACAGTCAGTCATC	19399	GGAGAACTGATCAGGTCCCTATTTCT	30383	TCCGGGACTGTGGGCAAA	41367
7742	GCTGACAATGTCCTGTTGCTGACA	19400	GCGAATCACAAAAGGAAAACACACTTG	30384	GGTGTCTGGAGGGGCTGACAA	41368
7743	GCTGAGTGTCCAGAAAGCTAAG	19401	CAGGTGAAGTTTCCCGGCATGA	30385	CTTCATACACCTCCATTTGCTGAGT	41369
7744	GCCTGACTTTGTATGCCTGGAT	19402	CCAGACCTGGGACCAAGAACAA	30386	CAAAGTTGCCAAAGATGCCTGACT	41370
7745	GCTGCTTGGTTACATGCTTAC	19403	CAGGGGCTAATTTGGATGCAGAA	30387	CCTGCTAGTGCTGCTTGTT	41371
7746	GCAGGGAGTCTGCTCCTTCA	19404	GGCTGAGAGTAAATGGTGACTTTTACA	30388	CATGTGCTTTGCAGGGAGTCT	41372
7747	CTAGCCTCTGTTCCAGCTTTACA	19405	AGTCTGGATCCCGTTCAGT	30389	TCACGGGTCTAGCCTCTGTTTC	41373
7748	GGGCGTCAATTGCAACTCTTC	19406	CCAAATCTGATGGGGTAGGCAACA	30390	TGGCCTTTGGGCGCTCAAT	41374
7749	GGGATTGGGGACCTGCTTCAA	19407	GCACAGCAGATGCTCCACTA	30391	CCTAGTAAGGAGGAACGGGATTG	41375
7750	ACTCCAGATGCATAGGACACT	19408	TGGGCACGTTTGTCCAAGAT	30392	CAGCTCAGAAGTAAGACTCCCAGAT	41376
7751	AAGGTTTGGGGACGGTCTCA	19409	AGGAGGGACCCAGGCAAA	30393	GAGGACAGCACTCCAAGGTTT	41377
7752	CACTGCAACAGTCACAGTCTAACA	19410	GGACCAGGATTCGAGGAGTTAAG	30394	TGTAGCACACTGCAACAGTCA	41378
7753	CATCCACAGTCCAGGAATAGGATTTT	19411	CCAGGTTTGTCTTTAAAGGGATGGAATG	30395	CTCACTACATCCACAGTCCAGGAA	41379
7754	GCTTTGTTCTAGGACATTGGCTGTTT	19412	GTAAGTGACTTTGAGGGAGATTGAATG	30396	TCCTTCAGAGATCAGAGAAGCTTTG	41380
7755	GAGCCAGTGTAAATGGCATGAGA	19413	GCAAAGACAATGAAAGCACCATCATC	30397	GGTGCTGCAAGAGGCCAGTGTT	41381
7756	GGCACCAAAATTCACAGCAA	19414	GCAACTGCTAGAGAGCTGATT	30398	GACATCTGAGTTAACTGGCACCAAA	41382
7757	CATGAACCTGGGGCTGTGTCA	19415	TGCCCCGGACAGACCCAGAT	30399	CACACGACACACATGAACCTG	41383
7758	CTTTGGGCAAAACACACAGACAAG	19416	TGCAGCAGCTGGTGGTTGT	30400	GGCCACATCACTTTGGGCAAAAC	41384
7759	CCCATCTCCAGCCCCACAAA	19417	ACGGTGACACTTGTGTGTGA	30401	ATGCAGGCTGACCTCCCATCT	41385
7760	TGCAGCCAAGTAACTGACTCTTC	19418	TGAAGGAATAACCATACCTTCTCATC	30402	GAACAAATGCATGCAGCCAAGT	41386
7761	GCAGACCTCTTACATGAAGTGAATG	19419	GCTGTGCAATGGGGTATGTGTGT	30403	CCACCTGCAGACCTTTACAT	41387
7762	CTGTCTCAGGCAAAAGCTGGAT	19420	GGACACCCCTGCCGTAGACAT	30404	AGGGACTGGAAGAGCACTGT	41388
7763	GGCAAGAATCAGATAGCACCCACAAA	19421	GACATGGGCCTTTTCACTGAACCTCT	30405	ATCAAAGACCTGGCAAGAATCAGA	41389
7764	GGCCTAAGGCATCTGTATCCCAAA	19422	CTCTTACTGGAATGATGGCTGTCT	30406	TGCTGGCACACCCGGGCTTAA	41390
7765	AGATGCGGGACCCACTGA	19423	GGTTTCACGGGATGCCTTTG	30407	CCCTCTGTCTGTGAGGGAGAT	41391
7766	CCCCATGACTATCGTGTGAGGTT	19424	AGGGGCTTTGCTGAAATGATATGAA	30408	AGCCACAGCCCCATGACTA	41392
7767	GTTACCGCAGCAGCATGTTTAC	19425	GTTGATGCCATGTGCAGCAGTT	30409	CGCAGCTCTCAGGTTGTGAA	41393
7768	CCCTACAAATGCCAGCAGCTTTC	19426	TCCTTGCAGACTTTGTGGTT	30410	GTCAGTCCCCCTCTCCCTACAAATG	41394
7769	CCGGATATTATTAGCCAGTTAGCAA	19427	GGGACTGCAGCAATGTGGTA	30411	GCGCCCAACCCGGGATATTA	41395
7770	GCATGGAAGAGAAATCTGGTGTGGAT	19428	CTCCATTGATTAGAGCTGATCCACTGA	30412	GGGTTTGTGTGCATGGAAGAGAAATC	41396
7771	CCTGGCAGTGATGAAGAGGCATT	19429	CCAATGTACAGGCATGGCTTCT	30413	GCAGCATTCTCTGGCAGTGTA	41397
7772	GGGGAGTGTGACTGAAGGAAAAAC	19430	CCAAGCAGGGTCTATTCTCA	30414	AGCAAGGGGAGTGTGACTGA	41398
7773	GGCAAAATGGACAGTTCAAAAC	19431	GGGGATAGGACTGGGTTTCAGA	30415	CAGAACCAATCCATAGCCCCAAATG	41399
7774	TCCAGGCTTGCCCCCTTCTCA	19432	GCCTTAAGGAGCAGCGTTTTG	30416	CTGATGCTCTCCCTAAATGTTCT	41400
7775	GGGTAATGCCGAGTAGAGAATTGA	19433	GCCCTTCACTGTCTCTGTGGTT	30417	GGTACTAAGGGGTAATGCCGAGTA	41401
7776	TGTCTTTTTTCATTGGAGGGTACA	19434	GTATGTGGCATCTGTAGCCAATG	30418	CCTCACACCAGAGCTGTCTCTT	41402
7777	TGCCCTCTCCTCCCTGCAAAATA	19435	CAGGCACACCACCAATCGTT	30419	TGCGGTCTGCTCTTCTCTTG	41403
7778	CAGTCCCAAGTCACAGTGTTTC	19436	GCTGCAAAATTAGTCACCCAGCACAA	30420	GCAAAATCAGCTCCAGTCA	41404
7779	GTCATGTCCCGCTGTTCTGATGT	19437	GCTCTTCAAGAAAGGCAAGTGAAAG	30421	GCATCTCTGGTTCTTCCCAAGTCA	41405
7780	ACCTGGAAGTTACAGCTCTTTGAAC	19438	CAGCTTTCACGGCTCAGTGT	30422	GACGCTGATGTAACCTGGAAGT	41406
7781	CTGAGGTAGAGCCTTGGACTTTC	19439	CCATTACCACAATCTGGGCTGTTT	30423	TGGTGTCACTTAATCTCTGGAGGTA	41407
7782	TCCCAAGAGATGTTAGCTTTTCTAC	19440	TGCCTGGTACAGGTGAGGCTTA	30424	CAAGGGTATCCCCAAGAGATGTTAG	41408
7783	CGGACAGGTTTCATGCGGAGTA	19441	GAGACCCAGGAGTCTTCTTGTTAC	30425	GACTTACTAGCGGACAGGTTTCA	41409
7784	GGTGTCTTCCAGAGGCTTTCTCTTC	19442	GTCAAAAGAGGGAGAGGTTTACA	30426	GCTGTAGACATGCTCTTGGTGTCT	41410
7785	CGATCCAGAGAGATGCTGGCAAAA	19443	CCTCCCTTAAAGTCTTTCCAGAAGT	30427	GGCCAGCGATCCAGAGAGAT	41411
7786	GAACTGTGTATCCTAAGAGCACTTTC	19444	ACGTGCAGCAGTGGATGCTA	30428	CTCAACAGTGAAGCTGTGTATCCTAAG	41412
7787	GGCCCTGAAATCCAGCAAGATG	19445	GCCAGGTGATCTTAGACCTGCACTA	30429	AATCCCAGGAGGCCCTGAAATC	41413
7788	GGAGCAGATAACGGGTCCAATG	19446	GCAATTACTTACTTGACTCTTAGCTTGTG	30430	GGCTAAAGCGACAGGAGCAGAT	41414
7789	TGTGGAAGCGGGGAAACTGA	19447	GTGGAGGGCTTATAATGAGGCTTGATAG	30431	CTCAAATCCTCTGTCTGTGGAA	41415
7790	GGCCTATGGTAGCAACCACTGTATAA	19448	CCTAGCAGCTGTGGCAGAAG	30432	GGAAATACAGGGCCTATGGTAGCAA	41416
7791	CTCTCCGGCATGTAATTTCTGGAT	19449	GCCTGATGTGATGCTGGAAC	30433	CGAGCTCTCCGGCGATGTA	41417
7792	TGCTATAGAGAGGACAACTTGAGAT	19450	GCATGACAGCAGGCTCAT	30434	GAGGAGGACTATGAAGGATGCTA	41418
7793	CCACATCAGACCTAGCATTACAGA	19451	CTGAAGAGGACTTCTGACTTTGGTAAG	30435	CTGGAATTAACATGCCACACT	41419
7794	CGTTAAATCCTCACACAGTTGCTT	19452	GACATTGGTGCATGTGATGTCTGT	30436	GGCTGCAGAAGTTATAGCGTTAAATC	41420
7795	GGCGAACTCGCTGTGGTATTGT	19453	TAACGCGCTGGGCTCTCCTTT	30437	TTTCGGGTCCAGGCGAACT	41421
7796	CACCTTGGCCATGCCAACATTC	19454	GCCGATGAACCTGGGTTGGAAATG	30438	GGAGCCAGTTGGCATCACCTT	41422
7797	AAGCAGGAGGAATAAGTGTGAATGA	19455	TGATCTTCTTCTGTGGCAACAGATT	30439	ACTAGGAAGGTAAGCAGGAGGAA	41423

7798	CTGCCAATCTCAGCACTTTCTCT	19456	GGAAGGATAATCCACCCAGTCA	30440	GCTCTCTCTGTACCTGCCAATC	41424
7799	GGCTTTGCAGGTATACAGCTTCT	19457	GCTGCTTTTGCCTACAGTGA	30441	AATACGTAGGCTTTGCAGGTCAT	41425
7800	GGGTGTTGCTGCTTGTCT	19458	GCCCTGCACCTCCATATGTTCT	30442	GCTTGTCACTGATGGGTTGTTG	41426
7801	GCAGGGGTAAGAGCAGAGAAAG	19459	TGGTATGGAGGAGTGTGTGGAT	30443	GATGTTGTTTTCAGGGGTAAGAA	41427
7802	GGCTCACAACGGAAGAGTATTTCT	19460	ACTACGTGGAACAGAGCTGATAGAT	30444	ACTTTAGTGGCTCACAACGGAAA	41428
7803	GCAAGAGTGCTGGAGGAACAGA	19461	GCTGGAAGGGGAGTCTGGTATTCT	30445	ACAGACAGGGATAAGTCAGCAAGA	41429
7804	GGGCATTAGGACAAAGTAGGAGGTACT	19462	CCCATCCTGTCTCAGCTCCAGAT	30446	GCAGCAGGGCATTAGGACAAAG	41430
7805	CCCTGTAGGCCCTTGGCATTCT	19463	GATGGTGCCAACATGTCTAAC	30447	GCTACCAGGTTAATCCCTCCCTGTAG	41431
7806	GCTGGCTTTTGGTTTCAAGAACAA	19464	GGCCCCAAGGAAATGATGGATTCT	30448	GCATATCATGCTGGCTTTTGGTT	41432
7807	GGAAGGCTGTGATTTTCAATTTGGTT	19465	ACATATGCCTCAGTAGCAAGTTGT	30449	GGATCAATCTGGGAAGGCTGTGA	41433
7808	CTGTAAGACTAAATAACCTCACTCACT	19466	GATTCCCACGTCCGTGATTTACT	30450	GCAACAGCAATGGCCTGGTAAG	41434
7809	CAGGATGGTGTATGGGTATACCTGA	19467	GGTGTGAAAGCAATACACATTCGGTAGA	30451	CCTGAAAGTGAAAAACAGGATGGTTGTATG	41435
7810	AGTTTGTCTAGGGCCATGCTAAG	19468	TGTTATCTGTGCTGCTTGTCT	30452	ACAGCTGAGCAGACTTTGTCT	41436
7811	GCAGGGTCCCAGATTCAATGT	19469	GCACACTGACAAGTAGGGGAGTTG	30453	TTGTCACTGCCACCCACCTT	41437
7812	ACTTGCTCTGCTCTCATTGAA	19470	TGGAGTGAGCAAAGTGTTCAT	30454	ACCGAGCAACAGGGCTTACTTG	41438
7813	TCTGGAAGCCCCAGTGTGT	19471	CACAGGGAGAGAAAAGCAGGGAAA	30455	TCATCGCATGAGTGTGTTCT	41439
7814	AGAAAAGGGCAAGTCCCCATAAA	19472	AGTTCTCACTTTGAGCTGTGGTT	30456	ATTCTAGGCAGAAAAGGGCAAGT	41440
7815	GCCTAGTGGTAAAGCCCCATT	19473	GAACAGTTGCTGATCTCTGATTCT	30457	TCATGGGATCTTGCTAGTGGTA	41441
7816	CTCTCTACCTCTGTCAAGCATC	19474	GTTGGAGTCACCTATTCAGGTAAAGA	30458	CGTCTGTGTTCTCTACCTCTGT	41442
7817	CCCACCTGCCCATATCCAAGTTT	19475	GTTATGTCTGTGCTCTTACTGT	30459	CCATCTCTTTCCACTTGCCATA	41443
7818	GGGAAACAGAGTGACCTCTATTACTCA	19476	GACAAACAGTCTCACTTGGGGAGTTT	30460	GAAATGGGAAACGAGTGACCTCTAT	41444
7819	GGTGGTTTGAGATGCCACCTTT	19477	GCCCCAGAAAGAGACCTAAGTGCAT	30461	CTTTGGCCTGGTGGTTTGAGA	41445
7820	GGTATGACAGGATGGTGTGGTT	19478	CCTATTAGCTCCTTGAGACTCAGAT	30462	CCCCAAAATGGTATGACCAGGAT	41446
7821	GGGAGAATACGGAAGAACTATTGGATTG	19479	AGGGACTGGTAACCTGAGTCAA	30463	TGACTCCAGTTGTTGGGAGAATAC	41447
7822	CCATGGTGAGCATTAAACACTCTCA	19480	GGAGTAGGGGTCAGTATAGGGATTG	30464	CTCAGCCCATGGTGAGCATT	41448
7823	ACAAGACCCAGTTTCTGCCATTCT	19481	GCACAGCAAGCAAGGAGTAAATGAT	30465	CAAGGTCCTACAAGACCCAGTTT	41449
7824	ACTCAGCCGTGTTTGTGGAA	19482	GCACAGACATCCATCTAGAAAAACAAG	30466	GGGACTTTGGGCTGGACTCA	41450
7825	TCTAGGAGCTGATCTTCTAGTGAA	19483	GATTCCTGGGAGGACAGATGCTTT	30467	GCCCATCTAGGAGCTGATACTCT	41451
7826	TCCATGCACCTTGGTGGAGAAG	19484	CCCAAGTAGGGCTCTGAAATC	30468	CCACCCCGATTAGTGTCAT	41452
7827	GATCCTGTGTGGCTTCTCACCTA	19485	GCAGCTTAACAGCACAAATTGGATT	30469	TTGCGCTCAGCCAAGTGAGA	41453
7828	ACAGACCAACTGGATCTTTCACATAC	19486	TCCAGAGAGGTACACCACTTCTT	30470	CCTGGTGTAGGATACAGACCACT	41454
7829	GAGCAGACTGCCATTGTGCCTAT	19487	AGCAGCTGGGAAGAGTACAGA	30471	CAGGGTACGTGTAGACGAGACT	41455
7830	GAAAGAAGGCCAGATGTGTGACTA	19488	CCTCTTGCTAATTGTCTATCTCCAAGTGTTT	30472	GCGGAATCTGAAAGAAGGCCAGAT	41456
7831	GCAGCCAAGATTCTAAGTCTGTCTGAA	19489	GGAGGTGTTTCTGGGAGAAAG	30473	CCAGACCGCAGCCAAGATTCTA	41457
7832	GTGGTATAGGGCTCAGATACAAAGAAG	19490	TTCAGGGACAGAGTCTGAGATGT	30474	CATTGGTGCAATGCTGTGGTATAG	41458
7833	CTGTTCATGCCAGCCAAATGTTT	19491	GGGGTAATAGGCTTTGCTGTGAAG	30475	TCTCGGTGCTCCTGTTTCA	41459
7834	CAGGTGACATCCAGGGACAAATAAAG	19492	CCTCCTTGATTACCGCTCAGT	30476	GTGTTTCATGGACGGGTGTCA	41460
7835	CCCTGGGGAGCTATGGAAGTGA	19493	CTCACTGTTGCTGTCGGTATTCA	30477	AGGGGATCCCTGGGGAGCTA	41461
7836	GAAACCCCAATTTGCTCAGGTGTT	19494	GCAGAAGAATCAAACCTTACCTGTGT	30478	CTCCCTTACACAGAACCCCAATTT	41462
7837	GAATGACCCCATACTGTGGTTTGT	19495	CAGAAAAGAAACGCTTTCTGCAAAATG	30479	GCCCCCTAATTGAATGACCCCATCT	41463
7838	CTGATGCAGCTGGGCTTCTAAC	19496	CCTTATCCGCATCCAGTTCAGT	30480	GGAAGGAAAAATGCCAGTCTTCTGA	41464
7839	GGGAATCTGAAAGTCCAAAACATGGTAAAG	19497	CACCTTTTTTCCCTGCTCCAA	30481	GGGTCTTACCGTGTTACTTGGGAAT	41465
7840	CCTCCTAACGGCCAAATAGAACATGTAG	19498	CGCTGACCTCCCATAGTGT	30482	CCTGCCTCCTAACGGCCAAATAG	41466
7841	GCCTTCTATTGATCTTCAACCCAAA	19499	GCAAGGGTGTGAAACTACACATCA	30483	GATGCTGAGGATTGGCCTTCT	41467
7842	GTGTTTGAGAAGACCTTGGAAAAAGT	19500	TCAAGTCTCATCTTATCCCCAAGT	30484	GGCACTGGTGTAGTGTGAGAAGA	41468
7843	ACACCCAGCAAATGAAGCAATCT	19501	TCCCTGTGTCAGTAAACCTTCA	30485	GCAACTCTTTCCACACCCAGCAA	41469
7844	CAGATCCGTGAGGCTCAACACT	19502	GCCGTCTTGGGTGGTTTCA	30486	AAGTCGGAGGGGCTTCA	41470
7845	GGAGGTGGGTACAGAGAAAAGCTA	19503	GCCACACACCACTCTTGAGT	30487	TGTGTGGAGGTGGGTACAGA	41471
7846	CTGTGGTTTTCAGAGCAACACAT	19504	TGGCAGTTTTTCTACTCTCTTACT	30488	GACCTTCCCTGTCTGTGGTT	41472
7847	GGAAGGCTCCAATAACACCATGAGAT	19505	TGCCAGGCTGTCCACATCA	30489	GAGGGTGGAAGGCTCCAATAAC	41473
7848	GAGAAGATCACCAAGGGCAACT	19506	TGACAGTGGCTACATCAAAGTCAT	30490	AACCTTCATCTGCTCCTGAGA	41474
7849	CTCATCACCATTGACGTCTTACA	19507	GGGGCAGGCATATAATACACAATCAA	30491	TCCAGAAAGTACTCATCACCATTG	41475
7850	GGGCGCTTTTGCCTCTCTGAA	19508	CCAGACATTGTGTTCAGTTCTGTCTCA	30492	TGAAGGCAGGGCCTGTTTG	41476
7851	ACTCTCTCCGACCTGCATCT	19509	TGGCCCCATTGGGAAGTAGGAT	30493	GCCTGTTTCCACCACACTCTCT	41477
7852	CCCTTCACTCTGTGAATTCCTTCT	19510	TCCACAGCAGGGGCTGTCTCA	30494	AGCCTCTTCCCTTCACTCTGT	41478
7853	CTGTCACTAGTACAGTCCCTCAA	19511	CGCCAGACACATCTGGAGGATT	30495	AATGGACAGCCGTGTCAGTAG	41479
7854	GAGCGATTTCCAGGGAACACAGA	19512	GCTGACTTCCAGCTGTGAGGATTG	30496	CGCAACACAGGGAGCGATT	41480
7855	CCTACACCAACACTGTTTCTCCAA	19513	CATTTGAGACTTCCAGAGGAGTTGA	30497	TCCTGACCCTACACCAACACT	41481
7856	GCCAGCCCATCTGTTTTACCAA	19514	GAAGAAGCAACGCACTGGATCA	30498	ACCTGGTGCCAGCCCATCT	41482
7857	CTGACTGCATGGACACTTCTGTT	19515	CACCCACAGCCTATGTCACATT	30499	TGACATGCTTGCTGACTGCAT	41483
7858	CTGGGTATGATGTTTATGGGTGAGTA	19516	GAAGGCAGATATAGGAATTCAGACGTT	30500	AGCCCACTCTCTGGGTATGATG	41484
7859	CGAAACATTAAATCGGCTCTGTGAAC	19517	CCAGGAGGACTTGCATTTCACTA	30501	GAGGCAATTGATGGCATAACGAAAC	41485
7860	AAGTCCCACTGATCTGTAGAGAAAG	19518	CTGCGCTGATTACCCTAAGCCAATA	30502	GTGCTTAAGTCCCACTGATCTGT	41486
7861	ACCTGATGTTTCAAGAGCTGGTTA	19519	AGGGGATTCATGCAAGTTTGATAA	30503	GCTTCTCAACCTGATGTTTCAAG	41487
7862	GAGTTCTGGCAGTCTGTGTTTCA	19520	TCACCACCAATCACAAGGAAGAA	30504	GGGGATGAGTTCTGGCAGTCT	41488

7863	GCCTGTTACTCTTGGAGACAGAGTT	19521	GTTCCATATAGGCCTTGTTCTTCTACAAAG	30505	AGGGTGTGGAGCCTGTTACTCT	41489
7864	CACCAGGCTTTCTGGCAGATT	19522	GGGTATTCTTAGGGCCTGAAAT	30506	ACTCCACTCACCAGGCTTT	41490
7865	CGTGCCACAATAGTTTTAGAGGGTTT	19523	GACCAAAATGGAATGCTCAGCTACA	30507	CTTTGCATTCTGTCACACAATAGTT	41491
7866	TTACCGCGTCCGGAACTTCA	19524	GGAATGTGTAAGAGGTTAAGATCCCATTTT	30508	ACACTTGCCTTCTTCTGTTAC	41492
7867	GGCATGCAAGTCAAGAGTCAAG	19525	AGGATGTTATGTGGCAAGGATGAT	30509	CAAGACCTAAGGCATGCAAGTCA	41493
7868	AGTAAGAGAGGGAAGGGATATTGCAT	19526	ACCACTTGAAAGCAGGGATAGTTG	30510	CCCTTACAACCTCCATCAAGTAAGAGA	41494
7869	GCCCTCTACCCCTCTCTGCAA	19527	GGCAGAACTCAAGGGGCAAAAC	30511	CAGTCGGAAGGCGAGAGAGA	41495
7870	GGAATTCAGTCTGTACAAGGGATCA	19528	CCTGGCAACCTTCATTTAACCCTAA	30512	CGGTTGATCCCATGGAATTCAGTCTGT	41496
7871	GCACGTCCAATCTTGCTCAATC	19529	GCTTTGTGAAGGGGTGCTCTA	30513	CCACATCCTTGACGCTCCAAATC	41497
7872	CCACACTGCATTGGAAATTTGGTATTG	19530	GGAAAAAGAAAGTGGAATGACATCGGAAT	30514	CCAACCTTGTCTCCACACTGCAT	41498
7873	GACACCTGACTCCCTAAAAGAACTTGA	19531	AATCCCAACCTCTGTGCTTTT	30515	GGAGAGACACCTGACTCCCTAA	41499
7874	GGCCCTCCAGAATAAGTGTGAAGA	19532	CTGCATCTGCTGTATCTCTAGTGTCT	30516	ATCCACTTGGCCCTCCAGAA	41500
7875	CCACTTCTACCTGGCCGATTTT	19533	GAAGAGGAGGGAATGTACCCAGTA	30517	GCCATGTCCCGTACCCTTCTAC	41501
7876	AGAGGGCTAGAGGGCTGAAAT	19534	CCCCAGGCTTTGGCTGTATAC	30518	AATGAACCTAGGAGAAGAGGGCTAGA	41502
7877	AGTGTCCATCCAGTCCACGTA	19535	CCTAAGAATGCACAAGGCTATTGAAGATG	30519	GCGTAGGCCACCAACAGT	41503
7878	TCTTCCACACGTTTATGGACAAT	19536	GGCCTGCATCAGTCTACTAAG	30520	TGGTGTCTTCTCCACACAGTT	41504
7879	GCAAAACAGACAGGCAGCCAATAG	19537	GGCCGGCCAAGATCATGACTTTTAT	30521	GGCAGATCTGGGGCAAAAACA	41505
7880	CCTGTGCTGCTAGACTCACCAGTAA	19538	GGAAGGCCGCTATCATCTTATTCA	30522	CAAGCCTGTGCTGTAGACT	41506
7881	CCCTATACGGCTTCAACAAAAGT	19539	GTGGACAGTGCCTTCTGAGTA	30523	GCATCTCCTTACCCTATACGGCTTCA	41507
7882	GGCAGTTCTCAACTGTCAGTAATAG	19540	GGCATTGCCAACCTTTACAGACCTATC	30524	ACCCAATTGGCAGTTCTCAACTT	41508
7883	GCATGAAAGGGGCTAAGGTCCTAGT	19541	CCCTGGAGTCAACATCAGAGTTTGT	30525	CCTGGCATGAAAGGGGCTAA	41509
7884	GGCATTGCACCATCCCTAAGA	19542	GTGGAGTCACTAGGCTGACCAA	30526	AGTGCTGCAGATGGGCATT	41510
7885	CAGAGGCAGCTTGGAGTACTGA	19543	CTCCTTTATTCCCCAGATTGGTTGA	30527	TACCTCCACAGAGGCAGCTT	41511
7886	CTGGGTTTCTGGGTTCCCTTTC	19544	GCAGAGTCATCAAAGCCACTTTC	30528	TTTGCTGGCATACTGGGTTTCT	41512
7887	GGGTTTAGGGACAGAATTCACATTTT	19545	GGCCCTCCAAACATCATTAGTCCAAA	30529	GTGCGTGGGTTTAGGGACAGAA	41513
7888	GGGAGGCTAAGTGATACACACACA	19546	GGCCTCCCTTGAAGAATCGTTGT	30530	GCTGGAGGGAGGCTAAGTGA	41514
7889	CTCCACCAAAGCGATTAGGAGACT	19547	GGCTCACCAGAATCCTAGCAAAA	30531	CCACTTCTGTACCGTCTCCACCAA	41515
7890	GGGTGACCAAAGACGGAAGTAGA	19548	TTGCTATAACCACTCAGTCCCTTGT	30532	CCCTCAAAACTAGGGTGACCAAAA	41516
7891	CTCCAAGAGGTTTCCCTAGTTGTGA	19549	GGGAATGTCTTCCAGGGGATGTTT	30533	CCCACTAGACTCCAAGAGGTTTC	41517
7892	GTCCTGCCTGATTGGGCTTTT	19550	GCATTACCATGCCCTGTGATTAAAG	30534	CCATTCTGTAGTCTGCTGGAT	41518
7893	GGTGGGCTTCATGCTAGGGTTTT	19551	GGGGACTACTACAGTGTAAAGTGAGA	30535	ACCTACTGATGGTGGGCTTCA	41519
7894	TGATAGTGAGGAGCCAAGATCACT	19552	TCCGCTGCTCTATCATCTCTCT	30536	ACAAAGGACACATAAAGGAGTATG	41520
7895	GCAAAAGATGCTGTGGACAAAGA	19553	CCCTTCAGTGTCAACCTTATGGATCTT	30537	GGCAGCAGGTCTCTGCAAAA	41521
7896	TGCATTCTCCAGTGAGAGAAC	19554	GCTCATCTTCCATCGGAGCACT	30538	CCCCACACCCCTGCACTTCT	41522
7897	CTGTACAGTACTCTTGGGTGTAATAATTG	19555	ACCAAAACGCCTCCAGAAAAAT	30539	GGACACAGATAAAGTTGCCATTCTCGTA	41523
7898	TGGGTGTTTAGTCCCTGAGAGT	19556	TCACAGGCAGAGTAGGGCATA	30540	TCAGCAGAGTCTGGCACTCA	41524
7899	GCTGGGAGAAGGTTTGTGTC	19557	AGAGAGGCATCAGGGGAACAA	30541	AGGCTCTGGGCTGGGAGAAG	41525
7900	GGCCTAATCAGGAATGGCTTCTTC	19558	GGCCATGGCAAATAGGAAAGGTTTG	30542	GTGGAAGACACATGGCCTAATCA	41526
7901	GCCAGTCACTCACAATGGGCTAT	19559	GGCCAGAAACAGGAGATGATG	30543	TGACAGAGGCCAGTCACTCA	41527
7902	AGGGGAAGTCTTGCCTTGA	19560	CATGTACCCACGCCTGAATCT	30544	CTCTTTGTTGAGAAACAGGGGAAGT	41528
7903	GGTGAAAGGTGACTTGTGGTCTGA	19561	GCAAAGATTCAAGGCATCGGAATAA	30545	ACCAACAGGTGAAAGGTGACTT	41529
7904	GACCAATTTCAACCTGTTTCCCAATC	19562	TGGAATTGGCAGGGTCTTCTCT	30546	CATGCTAAGGCAACAGCAATTC	41530
7905	AGCCTGTGAGCTGGGTTTTG	19563	CAGACGCACCTAGAGTTGTCTCA	30547	AGGAGCCACGAAGCCTGTGA	41531
7906	CTGCCATGACAGCCATTTCTCA	19564	CCAGAGTCGGTATTTTCAATCACCAAA	30548	AGGAGGGGTGGCTGCCATGA	41532
7907	GGACGCGCAAAGGTGTTTTT	19565	GTGTGTCAATATTCTCCCTAGGACTT	30549	TTCGGTGAAGGACGCGCAAA	41533
7908	CGGCAGGCCAAAATATAGCAGAGA	19566	CCGACAGATGCCCTTGACCTTT	30550	CAGAAGATAAGTTAAACGGCAGCCAAA	41534
7909	GCCAGAAGATGCTGGCAAAAA	19567	GGCTAGAACTGAAAAACAGAGGCTGTA	30551	GGAAAGGACACAATTGCCAGAAGA	41535
7910	TGAGCTGGTACTGGTGTCTCT	19568	TGACCAGGGTTCACACCTCAGA	30552	AGGAGGTCTCTGTGAGTGGTA	41536
7911	ACAATTGCCCTGAAGTTGTGTCA	19569	GGGCTATCACCAGTTGACTATTCTGT	30553	GTCCCTCACAATTGCCCTGAA	41537
7912	CCCCTGATTACAGGACTCT	19570	CCATGTAGAGGGTTAAGTCATGGAGTTT	30554	CACACTCAAGACCCGCTGATTC	41538
7913	GCGTGTGTTGAACCAACATCTGA	19571	GTAGGTAATTTGTAACAGGCAGTTG	30555	CCGTTAAATGGCCTTATGCGTGTG	41539
7914	GCCCTAACACCTACAAACCCCTTTT	19572	TCCAGTGGCGAAATGTTTCTGT	30556	TCTGTGGCCCTAACACCTACA	41540
7915	CCTGTGTTTAGCTTCTGTGTCCAT	19573	CCAGACTAAGATGTCAAGGAGACTTGGTT	30557	TCTACTCTCTGTGGTTTAGCTTCT	41541
7916	GCAAAACAGAAACTAGAGAAAGGTATC	19574	TGATTGCCACTTCCATGCCATT	30558	GGACTGGAAGCAAAACAGAACTA	41542
7917	GTCATTGCTCTCTGTAACTCCTCAGTTTTT	19575	CCACGTTGTAGGCTGTGTTATTC	30559	TGCCAAGTCATTGCTCTTCTGT	41543
7918	CCACATCAGGGAGCAAGGGATA	19576	GCCCAAACTCTCTCTCAGAA	30560	TCAAAGCTGGCCACCATCA	41544
7919	CGTCCCTAAAACCATCTTCTTCTTCA	19577	TCAGGATTTTGTGAGTGTTCGGTTA	30561	GTCCGCTCCCTAAAACCATCTT	41545
7920	CCCTCTGCATGCGTGTCTATC	19578	AGGCATGGAAGCCTCTTCTTGA	30562	TGCCCAACGATCCCTCTGCAT	41546
7921	GCCAACAGTGTAGTGGACACAAGT	19579	CCTTGTGTGAGATCCTTAGGCCAAAAC	30563	GAAGGCAGCCAACAGTGTAGT	41547
7922	CTTTGCTAATCAACCTCAGCAACT	19580	GCCCTAGATAGTCAACCCCTTATCTGTCT	30564	CGGTTGCACCTTCCCTCTT	41548
7923	CCAGACTCCCTCCAGCTAGA	19581	CTGTAGTACTCTGGTAAAGTTT	30565	ACCCTCCCTTCCCACT	41549
7924	CTCAGTCTGAACAGGTCAACATT	19582	TTTCCCTGAAATGATGGCACTACA	30566	CCAGCCTCTCAGTCTGAACA	41550
7925	GACCACCACACTGATGCAAGAGA	19583	AAGGCTGGCTTCGGGTAGAGA	30567	GCTTGTGACCAACCACTGA	41551
7926	CCTAATGGACCTAACTCAAGAGTCATAG	19584	GGTACTGCTACCGTGCTGT	30568	GCCCATGGAGTTACCTAATGGACCTA	41552
7927	TCAGCCATGACAGAAGCAAATCTA	19585	AGCACACTTGGCATGAAAAGAAAG	30569	GAGCGGGTCACTTACCTTTT	41553

7928	CCAGTGATAAGCAGCTGGGATTTG	19586	GGAGCATTGCTTGAGGAGACA	30570	CAGCTTCTGCCAGTGATAAG	41554
7929	GGCTTGTATGTGGACTGCAAGGTT	19587	GGAATGAAGAGGGCTTCTACA	30571	GCTCAGTAGCTGGGGCTTGTATG	41555
7930	GTCTCCAGCTCAATGCAAAGGAT	19588	GGGCAGCATGAATGACATTGTATCTCT	30572	CAGCTAGATTGTCTCCAGCTCAA	41556
7931	GGTCAGAGAAGGGAGTTGGAAAAAC	19589	GGATGCCATGGCTGCCAAAC	30573	GCCTCTGTGGGCTCAGAGAA	41557
7932	TGGGCTCCAAGAGGCAACAA	19590	GGAGGAGAAGCAGAGAGCATGAGA	30574	AAAAAGAAACACTCTGGGCTCCAA	41558
7933	CCCATTCTCAGTATAGGGTTTCCACTCA	19591	CCTCCTTGCTGGCTGAATTGTGA	30575	CTGCTGCTTTACCCATTCTCAGT	41559
7934	CCCTTTGCATCAAATCTATCAGGAAGT	19592	CCTGGAAACAGCTTGCTTGTAAG	30576	CCTGTCTTTTTAACCCCTTGATCA	41560
7935	CCCTCAAAAACATGGAGCTGGAA	19593	TGCCTTTTATTCAGTCTGAGGTT	30577	CTGAGATGGTCACTGTCCCTCAA	41561
7936	CATTCTGCTGGTCTTGTTAGT	19594	GTAAAGCCCGGGTCTAACATT	30578	GCCTCACTCCCTTTTTCTTTCATTCT	41562
7937	GTCTGGGCCACGACATAGAGA	19595	CCTGTAAGATGTCTGAGTGGACAATG	30579	GGAACGATGTCACTCTCTGGTT	41563
7938	GGCTGGTTGTCTTGAGGAAATGT	19596	GGCCAGCAATCTGGCTTTCA	30580	TTCTTAAATTGCTGGTTGTCTTG	41564
7939	GGCCCTTGAGAAGGTGAAGGAT	19597	ACCCACCTTCTCTGTAACATCT	30581	TTCAATCAATCAGGCCCTTGAGAA	41565
7940	GCATCAGTTTCCCTTCTCTGGTTGA	19598	AAAGCAGTTTCTTACCCTGTGAGAT	30582	CAGCCAATGGGCATCAGTTTC	41566
7941	GCCCTGTGGAAGATCTCAACAGTTC	19599	TGTGCAAAAGGGCTTGCTTATC	30583	CAGAACTGCCCTGTGGAAGA	41567
7942	GCACCACACTTCCCGAGTGTA	19600	ATGTGGTCTCAAATAGCTCCAACA	30584	TCCTACCGCACCACACTTTC	41568
7943	CCCCACAACACTCCCTTTCT	19601	GGCCACATGCAGGAACAAATG	30585	CAGGTCTACCCCACTACT	41569
7944	GCCTTGACAAAACGAATTCAGAGA	19602	CCTCTTCACTCTCGGCTCACA	30586	GCAGAGGATTCTAAGCCTTGACAACT	41570
7945	GGCAGTAGCATCACGAGAGAAG	19603	CTTGCTGGAGGGTCACTGTAG	30587	TCTGGAGGGGCAGTAGCATCA	41571
7946	TGCTTAGTGGTCATCTTTTCTTGGA	19604	GAGAAATGCATCTCCCTTGAAAAATG	30588	CGTAGCAGATGCTTAGTGGTCATC	41572
7947	CAAAGTCAGAGCAGGGAAGTTCA	19605	CGGTGTGGTTTACCCTCTTCAAC	30589	CACATGGTCAAGTCCAAAGTCAGA	41573
7948	GGCTACACAGAACCTATATAACCATCTTG	19606	CACTAAAAGGTGTGACAGGAGTATAGA	30590	CACTGTGGGCTACACAGAACCTA	41574
7949	GTGAGGTCAAATCATAGACAGGTGGAA	19607	TCCCACCCACCATGAGAACTAC	30591	GCTAGCTATGGGGTGAGGTCAA	41575
7950	CGGTAGATCTGAAACAACCAAAGATGCAAA	19608	GCAGTCACTCTCCGTCTCA	30592	CCCCTTAACATGAGTATCGGTAGATCTGAA	41576
7951	CCTTGTTAGGCAAATGATGCAGTCTTC	19609	GCTGTTCTGTCTACACAGTTTTCTAC	30593	GTGATGGGGCAGAGTTAATCCTTGT	41577
7952	GGAGACTGAATGAGAATCAAGGTTGT	19610	GCGGGGAAAAAGAGAACCATTTG	30594	GCTTGCCAAAGGTATATGGAGACT	41578
7953	CTGACACTTGCCTCTCCATGAAA	19611	TGCTCTATTCAAAGTGTGACTGTCT	30595	GCCAACTGGCAGCATCTGA	41579
7954	ACCTGTACAGTAGGGCTGCTT	19612	GCCCACCTCACTGGAGCAAAA	30596	GGCAAAAGGAAACCTGTACAGTA	41580
7955	CGTGTGCTTTAGGCTCCTCTGAAA	19613	CCAGACAGGCTGTTCAAAGAGGATAC	30597	CGAACATGGCCGTGTGCTTTAG	41581
7956	GAAGATGAGCTGAATAGCAGTCAAACA	19614	ACCCTTGTGAGGGTACGGTCAA	30598	GACCTTGCAAGAAGATGAGCTGAA	41582
7957	CGCTCAGATTAGGTATCAGAAGCATT	19615	ATAAGAGCCGGCCAGAACT	30599	GACTTGAGATCAGCCGTCTAGAT	41583
7958	CTGTGGCTGTACACAAGGACTCA	19616	ACATGTGCGCTTCTGGAGTTC	30600	AGGGAAAGGCTGTGGCTGTA	41584
7959	GACCTTTATACGAAGTCCCTTCCCTTG	19617	GGACTGGACCTCACTGTTGCTCTA	30601	CCACCTAGCTAGCGCTTGACCTT	41585
7960	GTGTAATAATCCCACTCTCCTTACA	19618	GCGAGAGGGGAATTGCTGAATG	30602	CTCCACTTGTGTAATAATCCCACT	41586
7961	GGTAGCGATTCTCAAATCACATGGAAG	19619	TTGGGAGGTGGGTGCGCTAA	30603	CACTCTGTATGGTAGCGATTCTCAA	41587
7962	GGTCAACTGAGCGGAGCAT	19620	CCAGAGGACACCAACGATCAGA	30604	TGGAGTCACCTGTGAGGTCAAC	41588
7963	GTCTCCCAACAAAATCCACTTC	19621	TGTATATTTGTGCGCTCCACGTA	30605	GCTCCTTTGTTCTCCCAACAA	41589
7964	AGCAAGCCAAATCCGGGAAGAAG	19622	GCAATCAGGTGTTTCTCACTCTAAC	30606	GTCAGCCACAGCAAGCCAAT	41590
7965	CAAAGAGCATAACCACAGAGGTCCTT	19623	GCAGTGGGGTGTCAGCAA	30607	CCCCATTGGTGCCAAGAGCATA	41591
7966	GCAGTTCATGGCAGGATTTTGAAAC	19624	TCTCTTAGACCAACCCACATTCT	30608	TGCTTGGGAATTACAGCAGTTCA	41592
7967	GCCATAGCTGGAGATTGGACTTAC	19625	GGACTACTGTTTCTTCCACCACTA	30609	GGTTAGGGTGTCCCAGCCATA	41593
7968	GGTTGCTCGCAGAGAGATGGAA	19626	CCCAGAGATAAGATCAGCCATCAA	30610	GTCCCAAGTTTGTGAGCAGGTT	41594
7969	CCACCTGAACCGTCTGTTCCAT	19627	TGGCGTGGGGTTATATAAGTTTAG	30611	CCCAAAGCATTCTTACCACCTGAA	41595
7970	CAGAGGAGAAATGTGTGGAACCCAAT	19628	TCACCCCTTGACAGGACCCTTA	30612	AAGGTGTTGAGAGGAGAAATGTGT	41596
7971	GGGCTGTGAAAGGCTTCTCT	19629	CACTCCTGTTAGTCTCCAGGTTT	30613	CCCATCCTTATGGGCTGTGAAA	41597
7972	CCTTGACGGTTGAACGGGAGTT	19630	CCTCCATTCTCTGACTGGGATGAAC	30614	TGGATATAGGCCTTGACGGTTGA	41598
7973	CTTGCTGCAATTAAAGGCATTTTC	19631	TGGGTGCAAGATTACAAACCTGA	30615	GAGAACCCCTATTTTCTGTGTCACAT	41599
7974	GGCCCTGAACACACATGCTA	19632	CTCCTTACTCACTTGCTGACTGAAG	30616	AAAGAGAGGAAGGGCCCTGAAC	41600
7975	CATCTACATGGCAGGGAAGTGT	19633	GCTGAGGCATTTTGGGACAGA	30617	ATGGAGTGATCTCCCTCATCTACA	41601
7976	GCATCTTAAGTGCCACAGGTTGT	19634	GGTGACCCAGAGACCAAGAAA	30618	CAGGATGGCTCTGGGCATCTTA	41602
7977	GGTGAGGATGCTACCCCACTT	19635	GACTGAGAGCAAGACAGGATAGATGATACT	30619	CCTCAGATGGGGTGAGGATGCTA	41603
7978	CTGCCACATTCGGAATATAAAAC	19636	GGGGCATTGCTCTCTTGA	30620	CCATTTGGTCTGCGCCACTTC	41604
7979	GAGACTAGGTCTCCCTTACATTTGTT	19637	CACAGAAAGGCATGGTCAGAAAAATC	30621	TTCTTTGATCCGGGGAGAGACT	41605
7980	GGCTAATTGGCTGGATCCCTCACT	19638	GCCCCGTGTTTCATGACAGTGTTT	30622	CCTGGATAACTATCGGTTGGCTAATTG	41606
7981	GTGACCTGCTAAAGAATACAGCCTACA	19639	CGAAGTATCATTTTCCCACTAGTCA	30623	GTTCAGGCATGTGACCTGCTA	41607
7982	CAGATCGGCAGCCACAGA	19640	CTCTTCATCGCACCAGCAACT	30624	GGTGGGAAACGGGTGCAGAT	41608
7983	CTGTGTTGTGAGAAGGGCTATAC	19641	CATGCAGTAATCTGAGGAAACCTTG	30625	GGTGGAGTCTGTGTTGTGAGA	41609
7984	GCAGACCTTTGGGCCTAGAGAA	19642	AGCCTTTTGGGGTCCACTTTG	30626	ACCACCTTCGACACCTTTG	41610
7985	GGGATCCAACTTACTCTTTTGATGTGA	19643	TCAGCAAATGGACTCAGACAACT	30627	TGAGGTAGGGATCCAACTTACTCT	41611
7986	GGCAAAGGATGATATAGAGGAGTCCAA	19644	CTAATCCCTCCAGCCTCTCCTT	30628	GTGGCTGGCAAAGGATGATATAGA	41612
7987	GCCTGGAATAGAGCTTGTGGAA	19645	GGGAGCTGCTTGCATGAGT	30629	GAGGCAGCAAAGCCTGGAAT	41613
7988	CTCCTGTGGAGCTCTCTTTCA	19646	GGCAAATCTTGAGGGACAA	30630	CAGCCATTCAATCACCTGTTTC	41614
7989	GCCAGTTGGGAGCCAGAACAA	19647	TCCTGTACAGTAGCCAAAAGCAT	30631	TGGAATGGTGGTGCCAGTTG	41615
7990	GGAGGGTTGCTGTTGCTCTGA	19648	GAGCTACCAACCTTCTCCACCTT	30632	TCCAGTTTCTGAGGCCAGAGT	41616
7991	CACCCAGGGGTATAGAAGTGTTCCTC	19649	GAAATCAGCTCACCCATTGCTACT	30633	ACCTTCAACCCAGGGGTATAGAAG	41617
7992	TCTTACTAGCAAAACAAGGGTTCA	19650	GAACCTTAAGGAGTCCATGGTCTGT	30634	CATCTCCGGATCTCCATTTTCTTACT	41618

7993	GCTGTATAAGCTCCACCTCCCAAT	19651	GCCACAGACATCACTAATGAACACA	30635	CCACAGTCCCAAAAGGGCTGTAT	41619
7994	GCACCCTTAGCACAGGGTTCAA	19652	GAGGAGCTTGTCATAATGGGGAGTAG	30636	CCATCGTGTCTCTTGCAACCCTTAG	41620
7995	AGGCCCTATACGCCCCCTGTTT	19653	GGTCACTGTTAGGCAAGAAGCCATAC	30637	CCTGTGCACTCAGGCCCTATAC	41621
7996	GGAGGACATGACCCGAACCTT	19654	CCTATACATGCAGCTTAACATGTGACT	30638	CACACACAAGTGGAGGACATGA	41622
7997	GGAAAGCCTAACTAAGCTCTCGAT	19655	GGTGGCATAGTTTTACTAGGTTCAACA	30639	GAGGCTTAAGGGAAAAGCCTAACTA	41623
7998	GACTGTGACTGGATCTGGATTTTAGACA	19656	CACTCCCCGTCCATGCTACTTT	30640	GATGTTAGTGACTGTGACTGGATCT	41624
7999	GAGAGCCTGTGATGAGGAAGACA	19657	GGAGACCGTCTGTGATACTGT	30641	TCGAGGTTGAGAGCCTGTGATG	41625
8000	TCAGCAGCTTCCCAGAGATAAAC	19658	GGTCAGCAACAGGAGCTCAAGA	30642	TGTGGGCCATCAGCAGCTT	41626
8001	CTCCTTTGCTCGAAGTCGACAGT	19659	TGAATGGAAACCCGTGCTGTA	30643	GGTTCAGGAATCTCCTTTGCTCGAA	41627
8002	GCAGGCTGTAGCTCATCTATG	19660	AATGCAGGAGACCTCACATTTTCT	30644	CACATGATTCCTGTGTGACGTTTG	41628
8003	GTGAGTGAAGTCCATGTCCACAGA	19661	GGTTTCTTCAGCCTGCAATGT	30645	CCTGTGGCCCAAGTGAGTGA	41629
8004	GCCACACACGTCCCTGATGAAA	19662	AGGGCACTGACGGTGCTT	30646	TTGACCGGAGGCCACACA	41630
8005	TCAACGCAAGGGCACTAACT	19663	AGCACTGCACACAAGCAAGT	30647	CCATGGACTCTATTATCAACGCAAAAG	41631
8006	GGCAACCCAGTCACAGATAATCTTC	19664	AAGTGAATTTCTTGGCACCTTTTC	30648	GGCTTATAGGCAACCCAGTCACA	41632
8007	CCAGTACCAAGAAGCCGCTAT	19665	CTTCCCATGTTTAGGATGGGTGT	30649	GGCTGGTCCAGTAGTCCAGTA	41633
8008	TGCAGCGATTTTGGGGAATGA	19666	CCCCACAGGGTCAGCTTCT	30650	GGTCTGTGGATGACGCGATT	41634
8009	TGAAACAGCCTCTGCTCCTTATC	19667	GGAAGGGGCAGTGGTTCAGATG	30651	AGGGCAAGGCCCTCAACATGA	41635
8010	CCAGCTGTTCTCTCAGCTCTTC	19668	AGGTGAAGTACAGATTTGCTCTTTGA	30652	GAGTGCATATCCAGCTGTCTCT	41636
8011	TGGGTTGGAAGGAGAAGATGTTAGA	19669	CAGAGCCATTTCTCAGCGTAA	30653	GTGGGAAGTGGATGGGTGGAA	41637
8012	CCGGGTGTTACAGCTTTAGTTTC	19670	TGCTCTGAGACAATGCAAAGTGA	30654	TTCCGTGGTACCGGGTGTTCA	41638
8013	GGCTCTGAGAGTCTTCTTATGTGA	19671	GGGCAGTAGGAGGAGACTTATCT	30655	AGGTACTTGGCTCTGAGAGTCTT	41639
8014	CCCTCCAATGGCTTTCCATCA	19672	GGCCTCACACAATGACAGGAACT	30656	CACCTTCTTCTAAATCCCTCCAATG	41640
8015	AGAGAGCATGTGTGAGCTTGT	19673	CGCCCAACAAGTCATGAAGCAAAC	30657	CTGCCACATAAAGAGAGCATGT	41641
8016	GCTAGGAGAAAGCAGGTGGAAGA	19674	GCCGGAAGACTCAGCAAGTCTAGT	30658	AACCAGGTGCCAGTGCTGCTA	41642
8017	GCCAAGGAACACACAGCAAGTT	19675	GACTCCTTCTGAAGGACTGTGAA	30659	AGATGACTTGCCAAGGAACACA	41643
8018	CCTCATTTCTACTGTTGGACGTTCT	19676	CCAGGAGGCAAGCAGGTAGTTT	30660	GCCCATGAAATTGCACCTCATTC	41644
8019	CTCTGCCTACTTTCTTGTGGCAA	19677	CTCCAGGCTCTGAGAATGACA	30661	CGATGAGCCTCTGCCTACTTTC	41645
8020	CCTCATACCTAGGTGCAGAGACA	19678	GGGGTAGAATCCAGGCATTGGGAAT	30662	CACCACACAGGTCTCATACCTA	41646
8021	GCTCTGTAATACCCCTGCAA	19679	ACGGTGTCTAAGAATGAGCTTGT	30663	GCAGATGCTCAGGCTCTGTCAATA	41647
8022	GTGTGTCATCAAGGAGTCTGAAG	19680	GGGGCAGATTCCGTTCATTCA	30664	CCAGGGCTGAGTGCTGCAT	41648
8023	AGCCTGAGTTCAGCCTTTG	19681	CCCTTCTCTACTCAGAATGGAACAGT	30665	TGGGATCAGAAGCCTGAGTTC	41649
8024	CCCACCTCTCCAAATAAAGGAGATT	19682	CTAGGCATGGCATGGTAACAAG	30666	GCCCTTCCCACCTCTCCAAATA	41650
8025	GGCCATCCTCTTCAATTCAGATCAGTT	19683	GCAAACAGTAAGCAGCTTTGAGA	30667	TCCTTGAGGCCATCTCTTCAT	41651
8026	CAGAGAGTCTCGAAATTTGGTGAA	19684	CTTGAGATTTTCTCAGGCTCTTGAATC	30668	GGGAATAATGGACAGAGAGTCTCGAA	41652
8027	GAAGCAACTGGAGCAGGCTTA	19685	CTCCCTAAGTGTTTTATGGGTCTCTGAA	30669	CCTGTGGGGAGTAGAAGCAACT	41653
8028	TGGCCAATGAGATAAAGGAGTTGA	19686	CTTGAAAGCTTTATGACCAGGCTTAG	30670	GATTGGGTTCTGGCCAATGAGAT	41654
8029	GAGAGGATGAGCAATGTTAAAGACTGA	19687	GGGACACTCACTGCCTTTGTT	30671	CGGTCTCTTGGAGAGAGGATGA	41655
8030	CGATGAGACAAATACCGGCTGAA	19688	ACCTGCTTCAGATCCTACAGGAAA	30672	AGGTGCAGCCTTCGATGAGA	41656
8031	CAAACCTCTGAAAGGTGCTGTGGAA	19689	TTGGGGCACCAGGAGGATTGT	30673	GAAACAGGCATCATACCAACTCTGA	41657
8032	CGTGTGCTAGGTACTGGGATTCT	19690	TTGTAAACCGTGAGGGAGAGATG	30674	GCCAGGCGTGTGTCTAGGTA	41658
8033	GGAGCCTTTGATGGACTGGCATT	19691	GTTTCATGCTGATGCCGCTTTG	30675	GCTGCTAACAAAATCAGGAGCCTTTG	41659
8034	AGAGCTGGTGAGAGAGGAGTCA	19692	AGGTGGAGGCCAGGACCAT	30676	GGACATTTGGGGATGTGAGTGTTA	41660
8035	CCAATCTCGGGTGAACAGTACATA	19693	TGGTAGGTACCAATAGGAAAGTCTTG	30677	ATCCTCCCCTCTCGGGTGAA	41661
8036	GTTTCTCTCTGGACCTGAATTCTAA	19694	GCCATGTGAAGTCAGTCTCTGTA	30678	GCAACCTGTGTGTCTCTTCT	41662
8037	GAGTCTACTTCTGCTAGGACATTG	19695	TTCCACGGACTGCTCGGAGAT	30679	GTATCTCCCCTGAAGAGCTCTACT	41663
8038	ACCACAACCATCCCAGGCATT	19696	GGTCTCAGGCACCTAAACCTCTTC	30680	TTGCTAGCCCAACCAACCAT	41664
8039	CTGTTATCTGCTTCACACCTCCTCT	19697	TGCAGAGACTGGCACCTGTAAAC	30681	AACACCTGTTATCTGCTTCACA	41665
8040	CAGCAAGAGAAATAGCCGATCCAT	19698	GGTCTACATCTTGGTTGCCACTTC	30682	GGAGGATTCTAGGTGAGCAGCAAGA	41666
8041	CAGTTATAGAGGGACAAACTGCTCACA	19699	CTGGATCACTGAAGTCAGGAGGAAA	30683	ACACCTCTCAGTTATAGAGGGACAA	41667
8042	GCAGTGGTTGGTTTCACTTTTCACT	19700	CAGCTATATGCTGAGGGTTGACAGT	30684	GGGGTTGCAGTGGTTGGTTTCA	41668
8043	CTGGAGTTCTTGGATTTCTACAGTGTT	19701	GCAGCTATTTTCAAGAACCCCTTTTCAAG	30685	TGAACTGCTGTCTCTGGAAGTTC	41669
8044	CCTACACTCTGCCCTCTTATCT	19702	GAGGATCACATCAGACTGTGTTAGTT	30686	CCAAGGGCTCCCTACCTACACT	41670
8045	CAAGTAAGTCTGTGTGTCAGCAGTAAC	19703	GCCTTGAGCTGCAGATTTTACA	30687	GGCCAGAGTGACTCCTTTCAAGT	41671
8046	CGTGTGGTGCCATGTGCTT	19704	TCATGACCCAGGCTCTCTCTTA	30688	GACTTAGAGTTGGCACCGGTGTTG	41672
8047	CCACATTGCCAATAAAGGTCCTGAA	19705	GGCATTGGTACCTCACGTGCTT	30689	GGAGGGAGGACCACATTGCCAATAA	41673
8048	GGAGACACGAGGGTCTGAGAGA	19706	AGGGCTAGGAGTGGGTGTCATT	30690	TGTTGGGGAGCCAGGAGACA	41674
8049	CCCTGGCTCAACCTTAACT	19707	GGTGTACCCTCTCCCAAGA	30691	TGACTTCTCCCCTGGCTCCAA	41675
8050	CCCTTGGTAATGCTTGCCCTAGA	19708	TGAGAATACTACCCACAGGGTCTT	30692	GCCATCTGGCTCCCTTGGTAAATG	41676
8051	GTTAGCCAGACTGGAGGCTAAG	19709	GTCTTGGGAAGACCGATCATCT	30693	CCCATTTGTCATTACCCAAAGTTAG	41677
8052	GAATTACAGCCTGCTGTGCATTAAA	19710	GAACTGGAGCTCTTACAAATACAT	30694	TGGCCCGTGAGGGTGAATTA	41678
8053	GGGAGGGAGTACTCACAGCAAT	19711	AGGGTAACCTGGGAGCTGTATC	30695	AAGGAGCAGGGGAGGAGTA	41679
8054	GCATTGGGTCTTTTACCAGTGACCAA	19712	GCCAAGTCTGCATTCCACTGTGT	30696	TGGCCGGCATTTGGGTCTTTT	41680
8055	CACTGCACACAATCAGGTTTATGCTT	19713	CTGTGTCTCGGTCTCACATATCA	30697	CGGGTATAACACTGCACACAATC	41681
8056	GGGAGCTGAGACTTGCCCTAATC	19714	CCCACACTTCTAGATCCTGCTGTTG	30698	ACTCCAGGGGAGCTGAGACTT	41682
8057	GCTGGGTGAGAGGGGAAGAGA	19715	GTCCCTCCCTCAAGGAGTCA	30699	AAGGCTGGAGCTGGGTGAGA	41683

8058	GCCCCAGGCTGTTATTCCAATG	19716	GCACGCCAAGTTCTCGGATGT	30700	TCACTCTGCCCCAGGCTGTT	41684
8059	GTGTCCTCTGCTACCCCTGGATTAC	19717	CCATGGGATGGAGCCACTACAGAAA	30701	AGAGTTCACAGTGTCCCTGCTA	41685
8060	CATCCTTTCTCCTAGACTGGCAAAGA	19718	GAGCCAGGGAGGTGGAAGAAAT	30702	GGAACCCACCATCCTTTCTCTAGA	41686
8061	TGCATAAAGGGCGGCAGTAG	19719	GAAGTGAACAGAGAGTTTCATGTCTAG	30703	GACTCAGACCCTCTCCTGCATA	41687
8062	CTGTGTTTGCATCCTACTCCCTAA	19720	GAGGGGAGGAGGCTTTTATTTCTTG	30704	AGCTTACCTTCCCCTCTGTGTTTG	41688
8063	GTAAAGTGCCGTGAGCGATTAG	19721	ACCGTTCGCCCTTCTCCCTGT	30705	CACCTATGTCTGGGCTTAGTAGTTAAAG	41689
8064	GGCAACACTGGTAGCACCGTAA	19722	CCATAGGTAGGTGGGCAACACA	30706	GGAGAAACAATGGCAACACTGGTA	41690
8065	AGTTGGGCAGATTGAAGTAACCTTAG	19723	GCAGTGTGTGGCTGTGAAG	30707	GCTGCAGCTCTGGGAAGTT	41691
8066	AGCTCGATTCCCTGTGCAGTTC	19724	GGGCTTAGATGACGACATTGTTGGTT	30708	CCATGTCTAATGACCACTGCTGATTC	41692
8067	AGGGCCAATTTTGTCCACTACT	19725	CCAGAGCACTGGGTAAGTCTTAG	30709	GGCAGCCTTCACTTTAGGGCCAAT	41693
8068	AGAAAGGCAAGCATTCCAAGCTA	19726	TTGGGATGCCTCTCCTTGCTA	30710	CACATTTCTGAAGAAAGGCAAGCAT	41694
8069	AGGCTCGAACACACCACAGA	19727	CCCTCCCATTAAGCAGAGGTGAAC	30711	GGACACCCAGCGTCGAACA	41695
8070	GGCATCCAGGGAGATGTGGGAAAT	19728	TGCAGTCTCCAGTAGGCTGTGA	30712	AACGCAGGCATCCAGGGAGAT	41696
8071	CCAGCCCAATCAGGCTAACT	19729	CAGTGTCTGAACACACCTGAGA	30713	CCGACTCCAGCCCAATCA	41697
8072	CCTACAGAACTACTGGCCAAGGAT	19730	ATCATGCCCCCTCTCTATCACT	30714	GGACAAACCTACACCTACAGAACTAC	41698
8073	TTCTTAATGTGTGACGAGAGTCA	19731	GCCCCGGTAACGAGGTTTTCT	30715	TGCATAGGATTGGGCTCTCTTTC	41699
8074	GCACCTGGAAGCAGCTTGGTAGA	19732	GGTCATACGTTAAGGACATGTTTCACT	30716	GGGAATGCAAAATGATGCACTGGAA	41700
8075	GTGTGGAGGGGTAAAGTAGGGATTCT	19733	CTTCACATTTTCCCAGCTAGACTGAAT	30717	CCAGATATGTGTGGAGGGGTAAAG	41701
8076	TCCCATTTGTGTTTCTCAGGAAGAT	19734	GGTGCTCCAAAGCCTTGTA	30718	CTGGCTCCAAATATATTGTCTTCCATTG	41702
8077	CGATAATCCAACCAAGCAGAACT	19735	GCCCACCTGATCACAACCAT	30719	GCAGTTTTAGCGATAATCCAACCCAAA	41703
8078	TGTAGTGCTCCTGGCTCAGA	19736	GAGTTGTGTAGCTGACTAGACTTCA	30720	GGGTGCACATTTCTCACAGGTGTAG	41704
8079	CCCTGAACCCCATCAAGCCAAT	19737	GCACAATGCCATGTGGGAGGAA	30721	GGGGTAGCATGCCCTGAAC	41705
8080	GGCCTCATGGGAGTTCTTTTGGAT	19738	AACCAAGCCTGAGTCTCTCT	30722	GCATCTATGGCCTCATGGGAGTT	41706
8081	TGTGTGACATGTACAGGTGAAAGTT	19739	AGGCAGACCACTAAGTGGAGAA	30723	GGCCTTGCTCTGTGTGACAT	41707
8082	GCCAGATTGGTTTACCTCTAATCATC	19740	CTGGGGCTTACTACAGCTTGAAAC	30724	TCTCATCTGTGCCAGATTGGTT	41708
8083	AGCTCAGTCATCCAGTTTCTCT	19741	CATTGGACACACTCAGGTAGGTT	30725	CTGAAGCCAGCTCAGTCTATC	41709
8084	GGGGCCCCATTAGGACACATTAC	19742	AGTGTGGGCCTTCTGTATCACT	30726	GGAGGGCAGTGGCTGAAGTTA	41710
8085	GCCAGCCATTGCTCAGTTTTTTC	19743	GCCCCACTGAGGGAATGTTTTG	30727	GATATTTTGAAGTCAGCCAGCCATTG	41711
8086	GGTGGCTGTAATCCCATCTTCA	19744	TGTGTTATGGACCTGTCTATCTGTA	30728	CCAAGAGGCAGGTGGCTGTAAT	41712
8087	CTGTGTGGGACAAAAAGCACTTG	19745	GTGGTGTCTGATTTTCTATTGGGTTT	30729	CATAGAAGTCTGTGTGGGACAA	41713
8088	GTGGCGTTGGGAAAAAGAGTAG	19746	GGCTGTCTCCAAAGCAAGGTGAAC	30730	GCTGTAGTGGCGTTGGGAAA	41714
8089	GAGGGAGAATGGCACACATCA	19747	GCACAAGACCCACTGTGCA	30731	TTTGCTTTGCTCAGGGAGAA	41715
8090	GGAAGTGAGGAGGGAAGAAGCTCT	19748	TTGCCCTCTCCATGCTTTC	30732	TGTGGACCAAGGTGGAAGTGA	41716
8091	CCTGTGTTCCGCATCCATCTCT	19749	GAGCACCAAGCCCCATTAGT	30733	GGGTGCAAGCTTCTCTGTTG	41717
8092	GTGCCTGCTGTTTGGTTAGTA	19750	CCTGCTGTGACAGGAAGTCA	30734	CAGTGTCTGAGTGCTGCTGTT	41718
8093	GACCTACTCTTGGGTGATGACAGTAA	19751	CCTTTTCTGTCTCTCAGGCCTATTC	30735	CCAAGACATAAGGAAATGAAGACCTACTCT	41719
8094	CCTACCTCCCAGGTTTGTCTGATG	19752	AGCAGGCCCTTCTGGACTAT	30736	TTGCCCTCTACCTCCCAGGTT	41720
8095	CCTCTCCACTTTGTCCCACTTC	19753	GAGGGGAATGTTTACCTTCGTCAA	30737	CCCACACTCTCCTCTCCACTTTGT	41721
8096	CACACCGACCTTGAACCTCCTTTC	19754	CCTGTGTGAGGGAGACATTTAC	30738	GAGAACTCCACACGACCTTGA	41722
8097	GGTCAGCCCCACAGAGAGATTAG	19755	GGGCTGTGCACATTTCCAGTA	30739	CCCAAGGTGAGCCACAGA	41723
8098	GTCCAAGGAAGATAGTCTGGGTTGATG	19756	ACACTAAATGGTCTCCCTGATCCTT	30740	GCCTGACAACTAGTCCAAGGAAGATA	41724
8099	AGGCCCTTCTCTGCCCTCAA	19757	GCAAGTAAGAATGGGTTTGAGTCAGT	30741	CCAGAAGATGTGGGAGGCCCTT	41725
8100	AGGCCAAGTTTAGCTGTGTGT	19758	CCCACAGCAATATGTGAGAAACGATAA	30742	GACCAAGTGTAAAAGGCCAAGTT	41726
8101	TCATCCAGTCCAACCTCTCTCTT	19759	TGCTGAATCTGTAGGATTGACTT	30743	CCAGAAGGGAGCCCTGAAATCAT	41727
8102	AGGCAGAGACAGAACCCAGAA	19760	CACATGAAACACACAGACTGATTC	30744	AACCTGGCAGGCAGAGACA	41728
8103	CCAAACCAAGACACACTCACT	19761	GGTCTGGGGACAGCCAAAGT	30745	CACAAGTCAAGGTCTCACTTCCAAAC	41729
8104	ACCTCTTCCCTCATCTTTATGT	19762	GCACAGAGACATAGGACTTGGTGTT	30746	CCTGGGGTCATCTTTACCTCTTC	41730
8105	CTGTGTTATCTAGGATTGCACCTCT	19763	GATGCCCATCTGGACGTGAT	30747	TCTGGCTAGCTGTGTATCTAGGATT	41731
8106	CGGCCACATTGTGAGTCTGT	19764	GGCCTGCCTCAGAAAAGTCCATTTC	30748	AGCTCGAGACGGCCACATTG	41732
8107	CAAATGTCTGGCCCTTGGATATGA	19765	GCCAAATGCTTGAGGTTTGCTT	30749	CGGCTGCCCTACAAATGTCT	41733
8108	TGGGGTTTGGAGTCCATGTTAC	19766	GCCGTTCAGTGATTGTAATTCT	30750	AACAAGTTCTCAACTGGGGTTT	41734
8109	GCAGGAAGCATGTAAAGAACAGAAG	19767	ACTAGGAGCCCTTCTTTCCAA	30751	GGAGGGAGCAGGAAGCATGTAA	41735
8110	CCTGTGAAGGTGGTTGTCAGA	19768	CACTAGCGTAGGACAGTCATTCT	30752	AGCTGGGTGCACCTGTGGAA	41736
8111	GAAATTGTCAATCCAGCAGTCAGA	19769	CTCCTGTGGTGGTGATGCTT	30753	CCTAGCCAGAGGGGAATTGTCA	41737
8112	AATGGGTGGTGTCTGGAAGATT	19770	CCCCAAGTCTCGGTCTTTTATTTACA	30754	ACATGTTTGAATGGGTGGTGTTC	41738
8113	GGGTCTGAAAAGGGGAGATTG	19771	CCCAGAGAATGGACAGATTACAGA	30755	TGTGAGTAACTGAGAGGGTCTGA	41739
8114	GGGACACCAATCTGGGACAGAA	19772	GCATGGGCTTCCCATTCCACAT	30756	GGTACCATCTGGGACACCAATCT	41740
8115	ACGCTGGTAGAGGTTCTTTCATT	19773	GGTATTGCGAAGTTCGGAATCAA	30757	ATTGGCCCAAGCTGGTAGA	41741
8116	GCAGAGAGTCAAGGCAGGAGACA	19774	CTGCCTCCCATAGGGCTAGT	30758	CACTTTGGCCAGCAGAGAGTCA	41742
8117	CCAGCATAGTGGTAGCCCTTCA	19775	CACCTATGTCCCCTACCAACCCATAC	30759	AGTGGACCAAGCCAGCATAGT	41743
8118	CTCTCAAAACACTTAGCTGGCAAAA	19776	GGGTGGGAGCGCCTATTCTTG	30760	GGACAACCTCTCTCTCAAACTTAG	41744
8119	GCTCCAAGCCCTCCTTCATC	19777	GCGTTCGAAGCACTCTACACACT	30761	TCGTGCTCAGCGCTCCAA	41745
8120	CCGTGCTATCAGTCTCCATTG	19778	CACCTAGTTCACCAAGTCAAACA	30762	TGGACCTCCGTGCTATCAGTT	41746
8121	TCCTACAGTCCCTCCTGCTCAAG	19779	TCCAGCCCAACACCTCATCA	30763	TGGTACCTCGGGTCTACAGT	41747
8122	CTGACATGTGCTTTAAGTCCCTGCTA	19780	AGTGACAGCCCCATCACTGT	30764	CAACCTCCCTGACATGTGCTT	41748

8123	GCCCTAACTGATCCCATGAGAGGTT	19781	CCTGAGGGTACATTTCTCACAGATAC	30765	GTAAATTAGCCTGTGCCCTAACTGA	41749
8124	ACAGCCCTGTAGCTAGTGGAA	19782	GCAGACATTTGGCATTAGAGGAAGT	30766	ACATCTGCACAGCCCTGTGA	41750
8125	CATTTTCAGTCCTTGACGTACCAATC	19783	CTTTCTGTGATTACTGTGGTGAGATG	30767	CACACCTTCACATTTTCAGTCTTTGA	41751
8126	ATGGACCCCTTCGCGTGACA	19784	GCGTGTTCAGGAGCAAGACA	30768	GTCAATTTCTCCCACTACTCCCTATG	41752
8127	TGCCCTTGTGCTCCCCATTTC	19785	TGCTTTTGGTGTGTCCAGTGA	30769	TGTGTCCCACTGCCCCTTGT	41753
8128	CCATCCTCCAGTATATCCCTCCTGTATG	19786	CAAACTGCTCCTGGTGGAGAAC	30770	GGTGGGACACCATCTCCAGTATATC	41754
8129	GGCTTCCCTGCTTCAGAGATAGA	19787	CTGTACTGCCCAAGATGAGCTTTC	30771	CTGTCTCTTGCTTCCCTGCTT	41755
8130	CTGACATAGGATCACTTCTGTAGCAT	19788	GGTCTGGGCTGATTTTCTGA	30772	GCCTAAGCATGGAAGTACATAGGAT	41756
8131	CAGAGCTGAATTTCTGGCTAAGGAT	19789	GGACAGGCAGAGACAAAGGAAAGAA	30773	TGGCTGACTTACAGAGCTGAATTT	41757
8132	GCAAATGTATGCCTTGTGGGCATTG	19790	CTTTTGACCCAGGACTCTGAA	30774	CCTTATCTCTGCAAAATGTATGCTTGT	41758
8133	GCCCAGACATATCCTCAGTCATTTG	19791	TGGGTGGCTCAGACTGTCAA	30775	CCCTCTTGTACATGCCAGACA	41759
8134	GGGGCTTCTCAGCCATTCAA	19792	TGCCACAGGGAGAAGGAAGT	30776	GTCTTGGCCATGGGGCTTCT	41760
8135	CTGTGCTGACAAAGTAGTGACAGA	19793	CGAAAGTAAATGTCTAAGCCTTGCTA	30777	GCAGCTGTGCTGACAAAGT	41761
8136	GAGGCAAGGAAAGACCGTATCA	19794	CCCTCTTGCCACAGTGCCTTT	30778	GCCCACAAAGAGGCAAGGAAA	41762
8137	AGGGGTGCAGTTAGTGCTATGA	19795	GTGGAGTAGAGCCTTCTGAATAAC	30779	CCTACCTCAAAGGGGTGCAGTT	41763
8138	GGCTGTCTTACAGACAGAGACAT	19796	GAGAGGGAAGATTGTGGGTGTT	30780	GCACAAAGGCTGCTGTACAAAG	41764
8139	CCAGGAAGCTGGCAAGAGTTTTT	19797	GCCTGCAGGATTCAAAACCAAT	30781	ACCTGTGCAGAGACCAGGAA	41765
8140	CACCTTCTGCCACTTGCCTTAA	19798	GAGAGCAGGGAAGCATGGTTCT	30782	GACCCATCTAAAGGCAGTCACTT	41766
8141	ACTCGCAGCTGCCGCTAA	19799	GGAACCTAACCCGCTCCCTTTC	30783	ACCGGACTGAGCGGCTACT	41767
8142	GGATCTGAGCCCATTTGACTATAAAAC	19800	AAGTGCTACAACGGAAGGAAGT	30784	GCCACCTGCAATATAAGGATCTGA	41768
8143	GCTAGGTTCAAGTGAGGATAACACT	19801	GCTCAAGAGACCTGACTCACT	30785	CCTCAGGCTAATGCTAGGTTCAAAG	41769
8144	GTCTCAGGAATAAAGCTACTGGTTCA	19802	CTGGGCAGAGCACTGAAAGT	30786	GTCAATTGGAGCTGGTCTCAGGAA	41770
8145	CCCCAGTGTCCCCATCTTGGTAA	19803	GTGAGGTTGATTTTCAGTCACTA	30787	CAGCTGTTGTCCCCAGTGT	41771
8146	CAAGAACAATGGGTGCTGAGTCT	19804	GTGACAAGATGTCATTGCCAACCA	30788	GTGACCAGCCCTCAACAAGA	41772
8147	GGCAGATTACCATGTATGTTTTGT	19805	ACAACGAGCCCTTGCACTAACT	30789	CATAGGGGCGAGATTACCATGT	41773
8148	GGAGCAGATCACCTAAATCTAAGGAA	19806	GATTGAAGCCAGCCTTGAATAAG	30790	AAGGGTAGGAGCAGATCACTAA	41774
8149	TGGCTGACAGTTATTGTCCCAT	19807	AGGGCCAAAGATGAAGAATGTAGTT	30791	CCGAGACATTTGGCTGACAGT	41775
8150	TCCTGAATTCAGGCTTGTCT	19808	GCTTGGGTGGTGGTGAACA	30792	ACTTCTCTGACCAAGGAAAACCTTC	41776
8151	GACTGGCATGTGTCTAGATATGTTGT	19809	CAGAGTTGCAAGGTACCCATTCT	30793	CCTTTTTGGACTGGCATGTGTCTA	41777
8152	GGGAGCAAGAATAGAGAAGGTGACT	19810	CTGTCACTGGCGTACAGAAAT	30794	GGAGAAGAGACCATAGGGAGCAAGA	41778
8153	GGTAAGTGTCCATCCAGCCATT	19811	CCACTACCCCTTACTCCAATTGA	30795	GGGTCAGCCTTGGTAAGTGTCCAT	41779
8154	AGCCCTGCAAGACCTAGAGAT	19812	CCCCACGGGAACACTGCTAT	30796	CATGCTTATTGTAAAGCCCTGCAA	41780
8155	TCAGAGAGAGGGGAAGCCCAAA	19813	TTCCCTGGGGCTCAGACTGTT	30797	GGATGAGGGAAGGTGTTACAGAGA	41781
8156	CTCTCCCTCTATATTAACCGGTGCAT	19814	ACAGCTTCCCTGTAGGAAGTTATAAAG	30798	TGGGAATCACCTCTCCCTCTA	41782
8157	GACAGAAGAAATCCAAGACCCAGAGATATT	19815	GTGAAGACCAAGTATGGCTTTTCAAG	30799	GGAGAACCAAGAGACAGAAGAAATCCAA	41783
8158	GCACCCAACTCTTTGTACTCTTG	19816	CCCCATCAGGCAGGGAAAAACA	30800	CCATGGCACCCCAACCACTTT	41784
8159	GGGAGTAGCCTAGAAGTGATATAGAGA	19817	CGGACTGGAATGATATAAGGGCAACA	30801	CCTCAGGAGTAGCCTAGGAAGT	41785
8160	GGCCATGCTGAGAATTGCAGGAA	19818	GGAAGACACTGTGCTTACTTAAGTTGTTG	30802	CAAAATTAACCTTGGCCATGCTGAGA	41786
8161	GTTATGCACTCCTCAGCCAGTATC	19819	TTCTCCCTCCCTATTACAAGGAT	30803	GTGAATGCTTCCAGTGGAGTTATG	41787
8162	CCTGAAGTAGAGCCTCCAGCAT	19820	CCTGAGGGTGGAACCAATATGTA	30804	GAGAAGGTATTAGCAACCTGGAAGTAG	41788
8163	CCATGGGGATACCTTCAACTGTAA	19821	CTTATTGGTGCAAGCCATGTTTAGT	30805	GAATACTGAATCCATGGGGATACCTT	41789
8164	GGGGCAAGTTCTCAGCCTTGA	19822	CCCTCAACAGCACCGAGTCTAT	30806	TGGTGGTCTGGGGCAAGTT	41790
8165	ATGCCAGTCTAGCTCAGCTTTT	19823	ACACACACAAGCCATCCAGAA	30807	CCTTGAATCCACATATGCCAGTCTA	41791
8166	CAAAGATCTAAGCCACCACCAT	19824	ACCGTTTGGGAGGCTATTTGAA	30808	CCCTCTGTCTCTGACTGTACCAA	41792
8167	CCTCCAAGTGGCATGAGGAAA	19825	GCTAGGAATCACCAATTTTGCCTAA	30809	AGGGTAGGCCCTCCCAAGT	41793
8168	GCCAGAGACGTTACTGACTGTT	19826	CTGATTTGCTTGGCATGCACATAA	30810	GCTTGAAGAAAGCCAGGACGTT	41794
8169	CAGTCTTTGTGTTCTCATTGAAGGAT	19827	CTTTATTCATCCATCTTGCCCTAAAG	30811	TGGGGTCCAGTCTTTGTGT	41795
8170	GGATGTGCACCTTGATGAGTAGAAA	19828	CCCACCAACCAAGAGTCTTCT	30812	ACCCTACCAACCTGGATGT	41796
8171	GGCTCTGAAGCAGCTGGAAT	19829	TGCCCAAAGTCACATAGGAATGAT	30813	GTCTTTATGGGTGTGGCTCTGAA	41797
8172	TGGCATGACTCAATCTATGCTTT	19830	ACGAGAGGGGAAGGGAGAAGA	30814	CCTGATCTCTACATATTGGCATGACT	41798
8173	GCTCCCTTGCTACTATAAAGTGATGTT	19831	CTGCTGTACAGGTCTGCGACAA	30815	GAGGGTAATAGTAGCTCCCTTGCTA	41799
8174	GCACAGAGACCCATGAGAGTTGAA	19832	TGCTGATAGCTCAGAATCTGCATT	30816	GGAAGGTTACAAGACTTGCACAGA	41800
8175	GGGTGTGCAAGGATCCAGAGATTA	19833	ACCACCAGGCTGGGGATCT	30817	GAGAACTGGGTGTGCAAGGAT	41801
8176	GCCTCCAATATTTACGAACTTGCTTGTA	19834	AGGCTACAGGGGTCTGCAATG	30818	GTCTGCAAGCCTCCAATATTTACGAA	41802
8177	GAAGGTACCAACCCGTCTCAA	19835	GGCTAAATCACGGGGTCAAAAC	30819	GCAAGCAAGCAATTAAGAAGGTACCAAC	41803
8178	GTACAGACCCCTATTCTCTGGACAA	19836	TCAGAGATTCTGAGTAATCCAGTTTG	30820	CCCCTAGAAATTAGTCAGACCCCTATT	41804
8179	CCCAAGGACGTCAAGTGTCTTCTGT	19837	GCTCCCCAGTGTCTTTGAGAGA	30821	CCACATCCCAAGGACGTCAA	41805
8180	GAGACCAAAAAGGTGAGCCATGT	19838	CCTCAGTCTCTGAGCCTTGT	30822	TGCCTGCCACTGAGACCAAA	41806
8181	CGCTGAGACCCAGGGCTTCTA	19839	GGAGTTGACTCCAATTGTCTACA	30823	CCAGGCCATTACCGCTGAGA	41807
8182	GCCACCGGGCTAATTTCCATGT	19840	GCTGGATCACTAACCACACTCCTT	30824	TTCCATGCCACCGGGCTAA	41808
8183	GCACCAAGTGCTGACAAATGTA	19841	GACTGCAGTGTCAAGATTTCAACCCAAA	30825	CACAGGTATGTTTGAAGACCAAGT	41809
8184	TGGATGCTTCACTGTCTTAGTCT	19842	CAGATTGAATGGAGGTGTCTGT	30826	ATTTGAGATGGGTGGATGCTTCA	41810
8185	GTACACAAGTCTGACCAGTTACA	19843	GGTTTTCCCTGGATAGGGAGTCTA	30827	AAGAGAAAGTCGCTAGTCACAAGT	41811
8186	GAGCAGTGGTCTTTATCATCATCT	19844	AGGTGGCAGGACGCACTTAG	30828	GTCTGCACAGCTGTTCTCT	41812
8187	GCTCAACAGGAGGATCAGAGCAT	19845	CTGTTGCGTACAAGGGAGCTCTA	30829	GCCATCTAACTCCCTAGCTCAAC	41813

8188	GGGAGATACACAACACTGCTCAGA	19846	GAATAACCAACGGAGTGGTTTTTCAT	30830	GCCACGTGTATACCAAGGGGAGATA	41814
8189	GAGTGGTGGTAGGACAGAGACA	19847	GCTCCATAAAGGGCAGGGACAAA	30831	CAAGTCAAGGTTTTGAGTGGTGGTA	41815
8190	AGAGGCAAGATGGTGGGATGA	19848	GGGCCAGAATCCAGTCTTCTGACTT	30832	AGATGCCTAAGCTAGAGGCAAGA	41816
8191	GGGTAAAGACATTCCTCACTAAATCCATA	19849	GCACCTTCCCAGTCCACCTGTAT	30833	CCACCTGAGAGAGGTTGGGTAAGA	41817
8192	GGATTGGCATTGTTTGCCTGTATG	19850	CACCCAGCTTTGGCTCTTATCA	30834	CATGGTACTGGATTGGCATTGTTT	41818
8193	GGGTTTTTGTGAGCCTGATAGGAA	19851	CAACAAGCTGCAGTCAACTCAA	30835	GACAAACAGTGGGGTTTTTGTGA	41819
8194	CACTCAAAAACATGCTGCTTTCTCT	19852	AATGCACATGGAGTCTGGGAAA	30836	CCACTAGGGACAAAATCTCACTCA	41820
8195	CACTAGGCACCATACTCACATACTT	19853	GGAAAGCCCTGTGCACATACA	30837	CCCATGCTTTTCACTAGGCCACCATA	41821
8196	GCTAACCCACGCCCTCACTTC	19854	GGGGTTTGACAGCAGGGAGTTTA	30838	GACTGAGTAAACATTCGGGGCTAA	41822
8197	CGAGGCCATTGTAGAACAGAAATC	19855	GCTAACCCAGACCTATGAGGAAAC	30839	GACATGAGCGAGGCCATTGT	41823
8198	GCATGCCCTCCTTCATGCTCTA	19856	CTGAAAGCAAGGAGGCTTCCAA	30840	GCTAGGCTCAGGGCTGCAT	41824
8199	ACCCAGCATGCAAAAGTCAGT	19857	GCCAGGTTGCATCTCTGTGT	30841	ACTGGAGCACAAACCCAGCAT	41825
8200	CCGGGGCAAAACTTGGTAAAC	19858	AGGGAAGTAAGCATCCAGAACTTTG	30842	TGTTTGTAAACCGGGGCAAAAC	41826
8201	TCAGCATTGCTTCACCTGTGT	19859	GGTTTTCCGCTCAGGAAAAGAGAT	30843	GCCTCTCTCCAAGGAATCAGCATTG	41827
8202	CCCATGGCCTAAAGGATTAAGAGAGTTTC	19860	CCTCTTTTCTCTACACTGGAGTTTCA	30844	CAGCCCATTGGCCTAAAGGATT	41828
8203	CAAGAGCTCCACTTACGTCCAAAG	19861	CAGCATGGACAGATCATTAAGGGAGAA	30845	GCTCCATTCACTGCAAGAGCTCCACTT	41829
8204	GTCCAGTTTTCCAGGTCCAAGACA	19862	GCTTCACCCCTGGTGGCTATTA	30846	GAGTCGCACACATGTCCAGTT	41830
8205	CCCTCCACCTTAAATGCTCTTTCTGTGA	19863	GTGAATGTTGGGTAGGCGTTCA	30847	GGTGCTCCCTCCACTTAAATG	41831
8206	TTTGGGGTTGGTTTCTGTACTT	19864	TGGTCTGGGCAAGATTCTTGA	30848	TTGTGCATTTTGGGGTTGGTTT	41832
8207	TGCAGCACCACACTCAATAATGT	19865	GGGCCACACATTTCTCATTTG	30849	GTGGAATGCAGCACCACACT	41833
8208	AGGTACAGTTACTTGGTTGTCAAGAA	19866	GCTGAGTTTACACTCTTTTCTCTTC	30850	GGCCTCCATCTATAGGTCAGTTACTTG	41834
8209	AGTGGGAGAAGTGAAGACCTCAT	19867	GCACATCTGCCCTTTGTCTGAA	30851	GTGGCTGAAAGTGGGAGAAGTGA	41835
8210	TTCAGAGGTGTAGGTTTCAGCAAA	19868	GTCTACAGGTGGGCTCGAA	30852	GAGAGCCCAAAATTCAGAGGTGTAG	41836
8211	CCGCGAAGAGCCCTGAAA	19869	GTTCTGTGGGTGCAGCAGATTC	30853	AAGTCCAAGGGTCCGCGAAGA	41837
8212	GCAGTGGGGTTTGTTCATGGTA	19870	TGAAAGGAACCACTGTGAGCAAATA	30854	TCCTTACTGCAGTGGGGTTTG	41838
8213	GCTTGGTTTTTGGAAACATTCTTGA	19871	CAAAAGCAGCACCAGAGGTGATA	30855	GTCTCGAGCTAAGCTTGGTTTTTG	41839
8214	GTGCTTTGCATACAGTAGGTCATCA	19872	GCCCCAAACTTCTCTCAGTCA	30856	TCGGAGGAGTGCTTTGCATAC	41840
8215	GGCGGGGTACCAAGTAAAGTTGT	19873	CACCTACAGGTGGGCTCGAA	30857	AGTTACAGGCGGGGTACCAA	41841
8216	CGGGTCAACATTTACACTGACTCCAA	19874	GAGAACAGAAATGCGTGTGTGCAAT	30858	AGGGACAGCGGGTCAACATT	41842
8217	GACTGTGTTTGTAGAGGGGCTTCTA	19875	GGAGAAGGTGTGTAGGAGATGCTT	30859	GCAACGAAATGACTGTGTTTGAGA	41843
8218	ACCCTTAAGAGGCATTGTGTCA	19876	CAAAGAGACTGCATTCATCCCTCATC	30860	GTGTTGGGAGGTGGTACCCTTA	41844
8219	GACTCCTAGTTGCTGAAGTCTCTGTAG	19877	GGAGGCTCAGCTAGAAAGAAAT	30861	GCCATTATGACTCCTAGTTGCTGAAG	41845
8220	GGAATGGTCTATAACCTAAGGTGTTTACT	19878	CTGGCTGTGCTTTTTGTGTAAGGAT	30862	GGCTTCAGGAATGGTCTATAACCTA	41846
8221	CAAGGGGAGAGACATTATTGGCATT	19879	GTCCAAGGCAGTTCTACAGGATGAA	30863	GTGTTTCTCAAGGGGAGAGACATT	41847
8222	GGAGAAGCCAAATAAGGGTGTGTTG	19880	CTGTATGTGAGCGTTCAAGTTCA	30864	CCGTGCCAAACAAAGGGGAGAAG	41848
8223	ACGTTGCCCCAGACCCTATCA	19881	ACACCTCCCTCAACTTAGATACCAA	30865	TCCCAGAACTCAGTCCCAGCTT	41849
8224	CTCTACGCGCAAGAACTAGAGAAG	19882	GCAGGCAGTAGGAATGGTCTATCTCA	30866	AGGTGGTGTCTGAACCTCTCA	41850
8225	CAGAGAAGCTAATGTGGCAGTGA	19883	AGAGGGCCTAAAAAGCAAGAACT	30867	GAGGTTTGTGCAGAGAAGCTAATG	41851
8226	TGGAGTCAGGCCTAGGGTTTAG	19884	ACATCTGGCCCGGAATTTTTT	30868	TGTTTAAGGGGTGAGATGGAGTCA	41852
8227	TCCACTCTTTGAGGCTGTGAGA	19885	AATTGCAGTTCTAGGAGGTTGTATG	30869	TGACCAATCAGTTCCTCTTTGA	41853
8228	GCAACCATTTTCATGCCCTTTAGTATCA	19886	GGTGACCTACAGCTGTGTTGTT	30870	CCACCCGCAACCATTTTCA	41854
8229	TGGGGAAAGGGAAGAGGACAT	19887	CTCTGCTCCCTCTACACCTGAA	30871	GATGTGGGCTTGATTGGGGAAA	41855
8230	CAGGAAGAAATAGGGCTACTGTCAA	19888	GATGTCACAGTAGATTACTGGGTCT	30872	GCACTTGACCCTGGTTATCAGGAA	41856
8231	GCAACTTTTTGCTTGTGTTGTT	19889	GTTGTACCTCTAGACAAAGACA	30873	TGGTGGATGACGGAGCAACT	41857
8232	AGAGCCAGGTACATGCCAGCTA	19890	GTGTGTTCTCTGTTGCAGTTG	30874	TGGCCAGAGCCAGGTACA	41858
8233	GGGTTTAGGAATGGCAGGTCATTG	19891	GCTTTTAAACCCAGGCATAATTCATC	30875	AGGCCTGAGGGGTTTAGGAAT	41859
8234	TCCTACACCTGCCTCTCCAATC	19892	GCCACACGTGGAAACATGGTAAC	30876	GCTCTTGACTTCCCCTTCTACA	41860
8235	ACTCTGGCTGTGGAATAAACAAT	19893	GAGCAGTGACTGAAGGTTCTGA	30877	ACAGTCACACAGGCCACTCT	41861
8236	GTGGCTGTGTACAGACTTTGATTTC	19894	GGAGACTTAGGAAGCCTACGGATAG	30878	AGCTAACTCATGTGGCTGTTGT	41862
8237	GGCCTGCTTCAAAGTCCCAGAA	19895	CTTCTTTTCTACCGGAGTATGGACTCT	30879	CTGGTAGGAAGGCCTGCTTCAA	41863
8238	CTCTACGCTAGCAGACCCACAT	19896	GCATGGGCCACAATTCTTCTTTC	30880	GCTGTGTTCAATGGCTCTCAGCTA	41864
8239	CAGTTTGGTGAATGGAAGGTTCTGA	19897	GGACACTGTTTGTCCCTCTCTATCT	30881	CGGCACCTGCAGTTTGGTGAATG	41865
8240	AGCTGCCATTTCCTCCACAAT	19898	GCAAGTCATCCAGCTTCTGCTT	30882	CTCTAGGTGTCTTATAGCTGCCATT	41866
8241	GCCCCAGGTCTTTTCAGGCATTTAG	19899	ACCTTTGCCCCAGCCTGACA	30883	GCTCTGCCCCAGGTCTTTTCA	41867
8242	GCCCTTTAGAAAGCTTGAAGTCTTAG	19900	GGCTTTTGGAGGGTAGGTAATCAAAG	30884	GCTTCTGCCCTTTAGAAAGCTTGA	41868
8243	AGGCCAGCCCCCTGGAGAACT	19901	GGAGGTTCTTGGGGACAAAAT	30885	CCTGCCCACTGCAAGTCA	41869
8244	CACGGCAGTCTTCAATGAGTCAGA	19902	GCATGGGGCAAAGGTTTGT	30886	GTAAACACACGGCAGTCTTCAA	41870
8245	GGGTGGGTGCTTGTGTTAACAT	19903	TTTCAGCCGCTTTGGGTTTG	30887	TGTACGATGGGTGGGTGCTT	41871
8246	GCAACCTTGGTTCATATCCATTGCTT	19904	GCCATTGTGTAGGCACTCCGTAA	30888	GCCAGTGTAAACAGATGCAACCTT	41872
8247	GGAAGTTTCTTAAAGTAGGAACCCATA	19905	GTTTCAGTCTGTGCTGGCTCTT	30889	CTGTGGCAGTGATACTGGAAGTT	41873
8248	GGGGAATTTGCTTGCACCTTAGATGT	19906	ACTTGCTGTCTGCGCTACT	30890	GCAGAGGCAAGAGTAAAGGGGAAT	41874
8249	GGATGCAAGCCACTTTAGCACTCA	19907	GCATCTCTGAGTCCCAGTAACCTT	30891	GCTTCTGGATGCAAGCCACTT	41875
8250	GTGAAGGATTAACACAGCCCACTGT	19908	CCTGTACAATTACCTCAATGTCTGT	30892	GGAATGAAGCTTGTGTGAAGGAT	41876
8251	GAGAAGGGAACTGGAAGGCGAAT	19909	GGATCAGGGTAGTTGGACTCTTTTC	30893	CGTGTGTAGCAGAGAAGGGAACT	41877
8252	CAGTATGGATCATGCTTCTCTGTCA	19910	GCCCTTGTGCTATAATAAGGGAATC	30894	CCCACGACCAATAACAGTATGGATCA	41878

8253	TCACAGCAACAAGCCATGTGA	19911	GTGATTGCATGAACACCTGATGTAT	30895	GGTGTGGTAGGTATCACAGCAACA	41879
8254	CTGTTGTTCCAAACCTCCCTTTC	19912	TTCAGGATCACTGAGGACTGAAG	30896	TCCCTCAAGTTTGACATCTGTTGTT	41880
8255	CTGCCCATCTCCTTCTGTCTTC	19913	GAGCATACCCAGGTCATGTGTCA	30897	TGATCTGCCTCTGCCCATCT	41881
8256	CTGCTGAAGTCCTCTCTGTCT	19914	GTCAAAACCCTAGGGCAGATGTTG	30898	GAGCCATCTGCTGCTGAAGT	41882
8257	CCACCACTACTGCAGTCTGAAC	19915	TCCAGTGCCAAAGTACAGGTAGA	30899	CTGCTGCCACCACTACT	41883
8258	GTCCCCAGTGTGTTCTAGACT	19916	GGGATTAACATACGTAAGGTTGCTTCT	30900	ACAAGGTGTCCCCAGTGTGT	41884
8259	GTTTGACTGTCTGGGCTTCTTCT	19917	CCTCTTCTTTCTGCTCTATCAAA	30901	ACCCGGATCAGTTTGACTGTCT	41885
8260	GCAATGGCCTCCACCACATCAT	19918	CAGGCTGTTGGGTTTGAAGATTG	30902	ACTCTGGGCACATGGAGCAA	41886
8261	GCCAGGGCATTGCACTTTG	19919	CCGGGTTCCATTGGGTACAGA	30903	CATTCTGGAGCCAGGGCATT	41887
8262	GCACCATTTGGTTTCTGCTCATTTAG	19920	CCGAGAGCAAGAAGCAAACATC	30904	GCTGCCAAAGCACCATTGGTTTC	41888
8263	GGAAGTGAAGGAGGCTTCTCTGAT	19921	CTGTTTCCAGATGGTATGGCTGTT	30905	GGGGTGGTGGTTAGGAAGTGAA	41889
8264	GCCAGGGAAATCTCCACTTATC	19922	CCCTGGTAAAAACCTGAGTCACTAC	30906	AGTCCAAGCCAGGGAAATCT	41890
8265	CAAAGATAAAGATACAGGCCAATTCGTT	19923	GGAACCAGAAAGAGGCCCTATC	30907	GGTCTCCAGATAAGTCCAAGATAAGAAGTA	41891
8266	GTTACTGACTCACTGTAGGCACAA	19924	CCAAACCACAAATCAATGGGGTAGTA	30908	CATCTCCACCCCTGTTGTTACTGA	41892
8267	ACATAAGTCACGCTGGACAAGAA	19925	GGGGTAACTTTAGGAAAAGGCTGTCTAC	30909	GCCTTCTTTCTGGGTACATAAGTCA	41893
8268	CACAAGATGTGTGTTCTTAGCCATTAC	19926	CCCATCATTTAGTGATTCCAGTTTTG	30910	AGTGAGCATGGATTTCACACA	41894
8269	GGGCACTGATGCTATCTTGAAA	19927	GCACAGCAGTTTCGATGATCCCAAT	30911	TGCAGTGGGCACTGATGCTA	41895
8270	GTCAGGATCACCTCCAGACTGTACT	19928	CTGGGGTTTGTCTGCTCCAGAGT	30912	GGCAGTCCACATGTCAGGATCA	41896
8271	GCTGACTCTGTGGAAGTGTGGTT	19929	CCAAGTTACCTCTGCTAAAGCCATACA	30913	GCCAGACAAGCTGACTCTGT	41897
8272	GTGATGGTGTCTTCTGGAGAGGATTG	19930	TCAAATACCACCTACCCACAGATG	30914	GGGTCAGGTGATGGTGTCTTCT	41898
8273	GCTCACCTCTCTTGTAAGTTTCACT	19931	GCATTCCTGGCAAGAGGAATAGT	30915	TGAAACCAAGCTCACCTCTCTTG	41899
8274	AGAGCCCTTTGGAATTTAGCTT	19932	TGCCAAGGTGGGGAGTCTAA	30916	GAAGCAAGGTAGAGCCCTTTG	41900
8275	GGTGGCTCTTTAGCCGACTTTAG	19933	CTCTCTCTCTGGGAAAACATTTGCGAT	30917	CCAAACCAATCTGGTGGCTCTTT	41901
8276	GGCCAAGGTAGTAATTCATGGAGAGA	19934	GGAAGTCTGGAAGCAAAGCATCA	30918	TGTGCTGGCCAAGGTAGT	41902
8277	TCTCAGGAAGAAAGGGTAGACTGT	19935	GGCTGGCTTTGTGAGTCTCTGT	30919	CTGTGAGTCAAAATCTCAGGAAGA	41903
8278	ACGGAGGACAGGTCTCTGCTA	19936	GCTGCTGCGAGTACCAAGTCT	30920	TGGGAGGTAGAACCTGCAACA	41904
8279	TGACTACTTTGGGAATGGGGACTA	19937	GACTTGGAATCTCTAACCTCTCATTCAAG	30921	CTGGCTCCCCATTGACTACTTTG	41905
8280	GCAGGCTTCATGCTAGTGAAGAAA	19938	CAGTGGTGGACAAAGGAGAGAAAC	30922	GGCAAGCAGGCTTCATGCTA	41906
8281	CCCAGTACCACTGAATGTGAATC	19939	CCTGAAGAATATAGAGCCACCTAACCTA	30923	TGGATTCCCAGTACCACTGA	41907
8282	CAGCTGTTTTGACCATGTTTGTCT	19940	TCTAAACCCCTTGCTGCTAGTAGA	30924	GAGTCATGTGTGAGTGGTTTTG	41908
8283	CACAATAGGGCAATCGAAGGGAAAC	19941	ATCCCACGCCCTCCCCATTTT	30925	CCTGCTGCACAATAGGGCAATC	41909
8284	TGATCCTTTAGTCTGGGGCTCACA	19942	GGCTGTGAGTTGAGTTAGATGGTTTCT	30926	CCCCAGGTGCTTCTGATCCTT	41910
8285	GCTCCAGTTCCACTTTGCGTTT	19943	GGGATGGAATCTTGGGTGAGTGTG	30927	TCTGTGACGTGCTCCAGTTC	41911
8286	GCCACCTATGCCCCAAGT	19944	CACCATGGAGTGTTCAGAGACAT	30928	CCTGCCCTGATGCCACCTATG	41912
8287	GGCAGGGCAGATAGTCCACTAA	19945	ACCCCATTTGACCAAAGAAATGTGT	30929	AAGCCAGGCAGGGCAGATA	41913
8288	GGCAAAATCTGAAATCTTGCTTCAGT	19946	GCACACTCCCTGTTTTGCACAT	30930	CTGACACTGGCAAATTCCTGAATATCT	41914
8289	CAAGCAGTGAACGAGAGACCTT	19947	CTCTCTGGCTCCCATGTTCT	30931	TCCAGCAGGACAAGCAGTGA	41915
8290	TGGTTGAAGCACTGTCACTGTAA	19948	CTGAGATGCCCTCTTGGTCTAAAA	30932	AGAGGAAAAATGAGGACTGGTTGAA	41916
8291	GAAGCTGGATATTTCTGCGACTCT	19949	AGTCAGGGCTACTCATACAGAAAAG	30933	GGCATTGTGTGAAGCTGGATATTT	41917
8292	GCTCTCTCACTGATCCTTTCTGGAATA	19950	GTGTAGTAACCCAGCATCAGAGTTCTT	30934	CTATAACTGCTCTCACTGATCCTTT	41918
8293	CACAAGCTATGAACACATCAGACTACA	19951	CCTTCAAAGGTACCCGCTTAA	30935	GAGCCTAATAGTCACAAGCTATGAACACA	41919
8294	GTGTGCATCACTTCTGCTCACAT	19952	CCAAGTATGATGGCCATGTAATCCATTCT	30936	TTGAGCTTTGTGTGATCACTTCT	41920
8295	GAGTTTTCCCTCCAATGTGACT	19953	CTGGTGAGTCTAATCACTTGGGACAT	30937	CACCCACAGCCTCTTTATGAGT	41921
8296	TGGACTGCTTCTGTCTCTGTTCTA	19954	TGAGTTATCAGCCTGAGTCTACTTGA	30938	GTTGAGTCACTTGGAGTCTTCTGT	41922
8297	TGCTTGGAGTACCACATGAACAA	19955	CTTTCAGGCTGCACTGGATGT	30939	CACTAGATAGTGGCTGTTGGAGTA	41923
8298	GCTTGCCCTTTTCAAGAGACTCACCTT	19956	CAGTTTTCGGGAAGTATAGGTAT	30940	GGTGAGGGCTTGCCTTTTCA	41924
8299	GCCACCACTTAAATCACCTTGCCTAA	19957	GGTCTGTCTTTCAGCTCTGATCAAT	30941	CTTCTATGTTCCGCCACCACTTTAATC	41925
8300	ACACCTGGTTGAAACCAAGACA	19958	GACCGATCCATTAAGAAGATGCTGTA	30942	CCTCCTGTCCAAAGGATGTCAAAC	41926
8301	CCTGTGCTTGAGGAGCCAAGAA	19959	CTCCTTGGAAAGGCATTTCTGAGTGT	30943	TGTCAGTGGCCTGTGCTTGA	41927
8302	GTTGCATCCTCTGCTTTACTTTGAAC	19960	CCCCTCCAGCCAGAGACAGA	30944	GGCTTGGCCACATTTGTTGCAT	41928
8303	CCCAAGTTTCTTCTCTCAGGAATCA	19961	TGACCTGTGTGGAGGCATCTCT	30945	TCCTCTTTCCCAAGTTTCTTCTCT	41929
8304	GTGAATTGGCCTCAGAACATTACAGA	19962	GCAGTGAGGGTTGGTAAATAGTGTTC	30946	GCTCAGTGAATTGGCCTCAGAA	41930
8305	CGGTTTTCTGTGCAAGGTGATG	19963	GGAGGGTGTGGCAAACCTGTGT	30947	CCTGATGGAAGGGTCCGGTTT	41931
8306	AGGGGAAAGAGGGTGAATTTGATT	19964	CCTGAGAATGCTTTTGTGGAACCTTCGTT	30948	GGGGAACTCCATTAGGGGAAAG	41932
8307	CCCCTTTTGGTCTCCTGAGTGT	19965	GTTTCAGCCAGGAGATGAGCTT	30949	GCAGGAAGGAGTACCCACTTT	41933
8308	GGCATAATGTCAATGTCCACCTTGT	19966	GGGTGCTGCTGAGCTTGTGCTT	30950	CGTTCAAGCTTGGGAATGGCATA	41934
8309	GCCTCCGGTTTGAATGCAAATAA	19967	CCAACCGGTAACCACTTCT	30951	AGGGCGCCTCCGGTTTGTGA	41935
8310	GGACCTCAGCACTTTTGTAGCATT	19968	GGGTAAGCCTTCTGAGGGAGCATT	30952	GTCACTGGACCTCAGCACTTT	41936
8311	CCTTTTCTCCGTGTAGTGACAGAT	19969	GGAAGGGTGGTTTCTGGGACAA	30953	AGTCTCTTCTTCTTCTCCGTGTA	41937
8312	AGGCAAAAGGTGATTTAGCAGAAAC	19970	AGATGATCCATCTCTCCCTTCA	30954	TGGCTGAACAAGAGAAGGCATA	41938
8313	TCCTTTCAAGTCTCACTTCTCCCTAT	19971	GGAATCTACAGTGGTTGGAATAGGTT	30955	CCGAGAGACACATTCTTTCACT	41939
8314	TGGGGAGGGACATGGCCTAAAA	19972	GGCCAGGCAATAAGCTTCTCTT	30956	GCAAGCAATGGGGAGGGACAT	41940
8315	CTTGACCACTCTCTAAATAAGTCTGA	19973	GAGAGTCTCTACTCTTAGCTCTTAGTGGTT	30957	TGTAACCAACTTGACCACTCTCT	41941
8316	GATGGGAGGTCATTTACCAAGT	19974	CCAATGGAGAATTTCAAAGCCCTAGA	30958	GAGGAAGTTGATGGGAGGTCATT	41942
8317	TGGTCTTGTCCAGGTTGTAGT	19975	GCCAACCAAGATTTGTAGCAGTT	30959	GAGGGGTATGTGACTTTGGTCTTG	41943

8318	TCCTGGCACATTTGTCTTCTGTT	19976	GGACTGCCTGGTATTCTCTTTCTT	30960	TCACCATCATCTCTGGCACATTT	41944
8319	CCCTGGCTCAACAACTGGAAAGT	19977	TGGTGAAGGACTTGGAACTT	30961	GCAAGACCTCGGCTCAACAA	41945
8320	CTCAGGTGGCATGATATAACAGGAA	19978	CATTATGTGCCAACACCCTTCTAC	30962	CTAAAAACATCTCAGGTGGCATGATA	41946
8321	CTGCTTTAGGTGGCATTGGACTTTG	19979	GTAAGACTACCTTGTCTCTGTTCAAGT	30963	AGGCTCCCATGCTGCTTTA	41947
8322	GGGTGTCTGATAAGTGAGAGAGGAA	19980	TTGACTTCACCAAAACATCCTGTTC	30964	GGGAAACCAAGGGTGTCTGAT	41948
8323	GTGAGAGGGAAGCAGCACTTTC	19981	CTCCTGGCAGACAAGCAACAAG	30965	AGGTGGGAGGGAGGAGTGA	41949
8324	ACCCCTCCTCAATCACTAAGGAAA	19982	GGTATAAGATTCACTATCTGGGCTGAA	30966	TGGCTGACCCCTCCTCAATCA	41950
8325	GCACTTTTACTAATAGCTGGCTCAGT	19983	CAGCAAGTGCACTCTTTCAT	30967	TTCCAAAAGGGGATACTGCATCTT	41951
8326	GCCCAGGTTTGGCTCAGTTTG	19984	CGATGCCTAAGATACAGCTGATACTCAATG	30968	GGTGGTGGAAAAAGCCAGGTT	41952
8327	TGACGCACTACGGTGACAAG	19985	CAGAGAACCTTCTAAATCCCTTCT	30969	TACGGGCTTTGACGCACTAC	41953
8328	TGTGTAGGCAGTTTATGTGCATCTT	19986	GCTTTGTAAACAGGGTTATACAGGTTTC	30970	CCTGGGTATGTGTAGGCAGTTT	41954
8329	AAAGAGGATTTCCGCAGTGTCT	19987	CCAAACTTAAGGGACCCCTACGACCTA	30971	GGCTGGCGGCATAAAGAGGATT	41955
8330	CGGCAATCCACTACAGGTGAAC	19988	CCCACATGAATTGCTGTGTCTT	30972	CATGGTATTTCAAGGCGGCAAT	41956
8331	CAACCATTAGACCCACGCAAGT	19989	GGGTGCAGGACACTGTGTATGGTA	30973	GCTGCAGTGGCACAAACCACTT	41957
8332	AGAACCCTATGATGATGTCTCTCTT	19990	CACAGAGGTGAAAAGGCACTGAAG	30974	AGCTATCTGGGACATTAGAACCCTAT	41958
8333	CCAGTCACTGTGGGTCAATTCT	19991	GTTCAGACTGTTTACTTGGCCTTATG	30975	TCTTGCAAGTAGCCCACTCA	41959
8334	GGATAGAGCTACAGGATGCATCAAAA	19992	GAAGGCTGGAACAAGTCCAGAA	30976	GCTGGGGATAGAGCTACAGGAT	41960
8335	GTGTGACAGATTGATTGTGTTCAT	19993	CCCTTCTGAGGACTAAACCCAGGAAA	30977	TTGGCAGAGCTTTCTGTGTGA	41961
8336	GGCTCACATTGAAACCTGCTGAGA	19994	CCCTCAGCCAATTCTTGGTCAAT	30978	TGAAGCAAGGCTCACATTGAAAC	41962
8337	GGAAAGTTGTAGCTCCTGTCTGTCT	19995	CGGAATGCTGGCATTGGAAAG	30979	GGCAGAGGTAGAGGAAAGTTGTTAG	41963
8338	CAGACTTCATTAGGACAGGAGAA	19996	GCCCAGTGCAAGCTTCAGTTTC	30980	GGGAAGAACTACCCAGACTTCATT	41964
8339	TGGGTGACGATGCCAGGATTAG	19997	GCTCAGTTATAGGGTGATTCACCTCAGA	30981	CCAGAGCCTGGGTGACGAT	41965
8340	GGGCTCTTTAGTCAGGTTGTGT	19998	CCACTTCTCTGAAGACTGAATCCTA	30982	AGGCCCAAGGGCTCTTTAGT	41966
8341	GGCTCCAGTTAGCCTCTGCAA	19999	CCCTCAGTGGTCTCTGACTTC	30983	TCCCTAGTGGTGGCTCCAGTTA	41967
8342	CTCAGGAGGAAACCTACTGT	20000	GGAGTAACTTGAACTGGACATGACA	30984	GCATAAAGGTGCTCAGGGAGGAAA	41968
8343	TCTTGGTTGACCCCTGAAACT	20001	CCTGTAAGCCAAAGAAAGGGGTGA	30985	CACTGGACATCTGGCATCTTGTT	41969
8344	CCTTCTTGCTCCAGTTACA	20002	AAGTCATTGGGGCTGTCTGT	30986	GCCAAACAGGACCCCTTCCTT	41970
8345	GTCTGTGAAGTCAGCCGTGGTT	20003	GACTCGCTAGTTGCTGTATCATC	30987	CCACCCCTACTCTGTCTGTGAAG	41971
8346	GGGTAGCAGCAGATACTAAAGGAA	20004	CCCTCCTGCCATTTTAAACAGCAA	30988	GGCATGGGGTAGCAGCAGAT	41972
8347	ACCCTGACACCCGCACAA	20005	GGTCAAGCGGGAGGGCTTT	30989	TGGGTGCTCTCACCTGACA	41973
8348	GCAGTATGAAGAGACTTTCCCATAGA	20006	ACCCCATGGCACCTATTTGTTTC	30990	GGGCACTAGCAGTATGAAGAGACTT	41974
8349	GGAAGGAGCTGATGGTACACAGA	20007	GGCCTACAAATTAGTACAGTCCCTCTCA	30991	CAGTACTCCGGAAGGAGCTGAT	41975
8350	CCCTTCTTGGCTGAAGTGAACCTA	20008	GCCAGCATCACAGAGATAGGGAAA	30992	GGCTCTGTGTATCCCTTCCTT	41976
8351	CGCTCTCTCAAGTTCTAGCAGTTATTC	20009	AAGGCCCTGACATGGCTGGAA	30993	GCATCAGAGCGTCTCTCAAGT	41977
8352	GGTGGGGAATGTGAGGAGTCT	20010	GGTCATTGGTGACCTTCATGTTGCTA	30994	GTCCAAGGTAGGTGGGGAATG	41978
8353	GGCTCAAACATGGCTCCACTACT	20011	GGAGATAAGCCCTTTCCTTAAGTT	30995	CCAGTGTCCGGGCTCAAACT	41979
8354	GCTACAGGCACAGGACAAGTGA	20012	CTCCCTGCCCATATTCTTCTCA	30996	TGGCGAGGACTGAGGCTACA	41980
8355	GCCAGCCATACTCTTCTGACA	20013	GTGGGACACCTTATGCTCATTCAAGAT	30997	ATGCAGGGAGCCAGCCATACT	41981
8356	GCAACTCCAATGCCATAAGCATGAA	20014	GGTGATGTCTGAGCTGGACCTT	30998	TCCCTTCAGCACTCCAATG	41982
8357	TGGATGGACGAGGAGCCTGTA	20015	GAGTGCTTATGTAATCCCAACAGTGA	30999	AACTTGTGGGACCGGTGGAT	41983
8358	CCGTGACATCTATGAGAAGGACCTA	20016	GGCCGGGATGGCTTACATTGAT	31000	CCGGTAGGTAACATCCCTGACATC	41984
8359	CTCACTAAGACCAGCAAGTCTGCTA	20017	TTTTGTCTGTGAAGGAGGCATTTAC	31001	CAGGATGCAGTAGCTAAATCTCACTAAG	41985
8360	TGTGGTCAAGGAGCTGGAGAGA	20018	CCCAATAAATCCCACTGTCTGTCT	31002	TGGACCAGGGTGTGGTCAAG	41986
8361	GCTATGCAATTTCTGCTAACAGGAGGTA	20019	GCTGCTGGACATTGCAAGTCA	31003	TGATCTGTGGGCTATGCAATTTCT	41987
8362	CCTCAGAAATGAACCTTTCTTCCAA	20020	GAGCTGGAGTCCCTGCTTTGTT	31004	GGGCTGCACTCAGAAATGAA	41988
8363	AGTCTTGGTGTGGGGAAG	20021	GCAAAATCTGCGGCTTTTCGTA	31005	TGACCCCAAGCCGAGAAAG	41989
8364	GCTTAAAGGCCCTCTGGGATCT	20022	GTATACAGAGTGAAGCTGTAGAAGTCA	31006	CAAGCCCAAGTCCCTGCTTA	41990
8365	GCCTAAGTTCAGGTTGCCAAG	20023	GGACAAGAAGTAAATGGGAGTGAAAGGTA	31007	CAGGAAGCTCTCAAGCCTAAGTTC	41991
8366	GGGAGCACATTCATGACAGCATTT	20024	CCTAGGAGACCAGCTGTGGTTTG	31008	GCAGAGCTGGGAGCATTTCAT	41992
8367	GCAGGAAAACTATTCCACAGAAG	20025	AGACTATGGAACCTACTGGTGACA	31009	GCCAACAGTGCAGGAAAACTCA	41993
8368	CCCTGTGAGCATGGTCTGTTCT	20026	ACCGTGCACTCCAGAGTGATG	31010	GTGCTGCCCTGTGAGCAT	41994
8369	CAGCTCAGTAAGAGGCGGGTAT	20027	CACGGGGCTGTTTCTCCATCTT	31011	GTGTGTAACAGCCTTCAGCTCAGT	41995
8370	GCAAAGGGAAGGAGGGATGTT	20028	CTTCATCTCGGCTCTTTTCT	31012	TGGGTAATCAAGGAAGGAAGCAA	41996
8371	TCCACCTAGGTTTGTGACTCTAAG	20029	GGCACAGAGGCAAGCCTGATAAT	31013	CCAGGATTCACACTAGGTTTGT	41997
8372	ACCATGTTCTTCTGGTCACGTTATT	20030	GGTGAAGTGTGAAGGACTCATCT	31014	GCCAGCCAAGTCTACCATGTTT	41998
8373	TGGGCATTACATTGTCTCTTGAA	20031	CAGGAGAGCTGACTCAACTCAGAT	31015	GAGCCCTGGGCTGATCATTG	41999
8374	GGTCTGTGACTCTCCCTACA	20032	GCACTCCAACAGGTCTTCAGAAA	31016	CCTTTCAGTCCAGGGTCTGTGT	42000
8375	CAGCTATTCTTCCATAAGAGTCA	20033	GCTACTGCACAATTGGAAGTGTCTTG	31017	CCTTGCTCTTCAGCTATTCTT	42001
8376	GGGCATACTGCCCTTGCCATTA	20034	GCTGTGTTTAGGTGACTAGGGATCAGA	31018	TGATCTATTGCTTCTGGGCATAC	42002
8377	CTTCTCCACCAACGCTTCT	20035	TGCCAGACGTTCAAGGGTAGA	31019	AAAGCCCTCGCCCCAAGT	42003
8378	TGAACCTAGAAATGGCCCTGACCTA	20036	CTCCCACTTTTCCACCTCAGA	31020	GGGCTGGATGAACCTGAGAAATG	42004
8379	GGGGTATGAGTCATGGAGCCAAT	20037	TGAGTCTGTCTCCCGACATCT	31021	ACAACTGGGTGGGGTATGAGT	42005
8380	CCGGGTGACTTCTATCCATTGTA	20038	TTGCGCCCTGACTGCAT	31022	CTGTTGCCGGGTGACTTCCTA	42006
8381	GGCCTTGTAAATACGTTCTCTCTACA	20039	AGCCAACACGAGGGACAAT	31023	CTGAGAGACTGTATGGCCTTGT	42007
8382	CACTAGAGATGGAAGGGGCATATT	20040	CACAGTCTCTGCAGATTTCTCT	31024	GGCAGTGGCACTAGAGATGGAA	42008

8383	TGCCATGTCCTACTGCTTCCTA	20041	GGAGCCAAATGAGAGTCAATTTTCCTTTCT	31025	GCCCAACCTGCCATGTCCTA	42009
8384	CCCACCCCTAGATCAGGGATAGT	20042	CCTCTGCAGGCTATTCTGTATTTTC	31026	CCCTTCACATATTTCCACCCCTTAG	42010
8385	GTTGGATGTTTTCTCTCCCATGCAA	20043	CCAGTGGGTGCAAAACAAACACA	31027	TGGTCAAGGTTAGAATGTTGGATGT	42011
8386	CTGAAGGGTTAATGTCTGGCTGTCA	20044	TGGCTCTCTTTCCCTAGACA	31028	CTCCTGGCTGAAGGGTTAATGT	42012
8387	CCTGGAAGCCAGGTACATTCAA	20045	GCACACGTGGCCACAAAGAAA	31029	TGCCATCAGCTGTACCTGGAA	42013
8388	TGTGCCGATGGGAGGAAATG	20046	TGAAGACGGGTGGGGTCTTTA	31030	CGGGGAGTATGTGGGGATGT	42014
8389	GTGCCCGACAGAAAAGACTTTCA	20047	GGCAGGATGAAGTATGGACCTGAGA	31031	CCACTGTGCCCGACAGAAA	42015
8390	TCAGCTCTGTTTTATGGGTGACAA	20048	CACCTACCTCACTAAGACCCAAGAT	31032	GAAGGAGAAAGCATCAGCTCTGT	42016
8391	AGGGAGGGTAGCTGGGGTTTAC	20049	CCCCAAGCTGCTCTCTGTAAAG	31033	TTGGAGTGCATTTGAGGAACAAC	42017
8392	GCGGCTTTAGCTGGAAGCAA	20050	ACTTAATGAAGAAGGGTCTACCGAGAT	31034	CGGATTACCTTGAGCGGCTTT	42018
8393	GGATCCCAGCTCCTTCCATCATGT	20051	CAGGGCTTCAACTGAAGGACTCTAAG	31035	TTCAGGGATCCAGCTCCTT	42019
8394	GCTCTTGTGCTCTCGCTTTTCTTC	20052	CCCACTCATCCACCTGACT	31036	GCTCCCCCTCCAGCTCTTGT	42020
8395	TGGGAAAGGATGCAGTTTTC	20053	GAAGTGTCAACTTCTCAGCAAGTAA	31037	GGAGCTGGGGTTTGGGGAAA	42021
8396	CGTCTTTGTGCAATCTCAACTT	20054	GCCTCGTAGTATAGCTTGGAAGTA	31038	GGCAACTCCTGTACTACCGTCTT	42022
8397	GCCGCTATCAGTACGAGAGTTGT	20055	CGTTGAGGAGCACCTGTATCAA	31039	TGCTCTCTGCCGCTATCAGTA	42023
8398	CCGGGATCTTAACTGGAATGACCTT	20056	TGGGCAGCCCCTAACCTGT	31040	GACTTGCATATCCGGGATCTTAA	42024
8399	GGTCTCTGAGGTCTCCCTTTGA	20057	TTGTGGAACGGAGGAAGAGTATG	31041	ATCCAGTAGCTGAAGGTCTCTGA	42025
8400	GCTTAAAAAGAAATGCTGGGTTCA	20058	GCTGCTGGGTGCTGTCTGAACATT	31042	GCAAACTGCTGTCTGCTT	42026
8401	CAACATGAAACATGGGCTCCAATCT	20059	CCCTCTGTTCTATGGTCTGGTT	31043	GGTAGGAGCTGGTTCCAACATGA	42027
8402	GAGGTGGGCAAAGGAACACGTA	20060	CCTGCCACGCTTTTATGGGTAGA	31044	ACTCTCGAGGTGGGCAAAG	42028
8403	TGGAGGCCTTAGGTCTTGCTT	20061	AGGAGGTCTTTTCAAACCCCTTTCA	31045	ACAGCCCTTATGAGAGGCTTAG	42029
8404	CAGGGAGGAACAAGTGGCATGA	20062	CAATGACGAGGCAAGTCAATATCTCT	31046	AGCTGGTCTCAGGGAGGAACAA	42030
8405	GGCCCTGAAGTATGCTCTTAAAGT	20063	TTCCCTGTCCCTGTCACTCCTT	31047	AACCCGACCTGAGGCGCTGAA	42031
8406	AGGGGTATATCTGGCCTGGAA	20064	GCTGATCAAGAGGGATATTCTATGGCATT	31048	TGAGGGTTAAAGGAGATAGGGGTTA	42032
8407	GACTCTTCTCCAGTCCAGGAAAAAT	20065	GCACATGGCTCCCTTTCTGA	31049	GGCCAAACCTGTGACTCTTCT	42033
8408	GCAGTGTAGGAACTGCCACCTA	20066	CTGGAAGAAGGAACCTGGATATG	31050	GGCTCAAGTCAGCAGTGTATGGAA	42034
8409	CCTGTAGGTCCCAGGAAGGTAAA	20067	CAGAGTACTTCTTCTGACCCCTAAC	31051	GGGTTCGTCCAACTTCTGTAG	42035
8410	CCAGATACCATTTTGCTCATGTCA	20068	TGAATTACACAGCTTCAGGCCCTTT	31052	TGCCTTTCTGTACCCAGATACCAT	42036
8411	GTGTCGTTTAGCACGAGCAGTT	20069	TGCTTGCTTTTGCAAGTAAATGTAG	31053	GGTCCCCCTCTAGGTGTCTGTTA	42037
8412	CCTGTGTTGGTACCTCTCTTCT	20070	GGAAACCTCAATGTGAAGTCTCTCT	31054	CCCAACTGCTGTGGTTGGTA	42038
8413	GACCAGACCTCTGCTGCTTTGT	20071	CGAGTCAGCCACTGTGTAAC	31055	GCGCTTGCTGCTGGTTAAGA	42039
8414	GCTTCTAATAGAGACCATCTCCTGAA	20072	CACTGTATCTGGCCTGGATCCAAATT	31056	CAGGTTCTAGAAAGTGTCTGCTTCT	42040
8415	GGCAAGTAAGTCTTCCCTCCTTTG	20073	GGCACAAGCTAGACTTCCAGTA	31057	GCCATGCCACAGGCAAGTAAGT	42041
8416	TGGGCTGGAATCCTGACTCT	20074	GCAAAGGTGGTTCAAAGTCACA	31058	AGAGGCTGCTGGGCTGGAA	42042
8417	GTGGGCGTGATGAGGACTT	20075	GGAAACATTCCCTGCCATCTCCTA	31059	TGGGCTGCTTCCCAAGTTG	42043
8418	CAAGTGAGGCTTTGTGCCTTTTC	20076	AGTGCAGGCTTAAGGAAAGGTT	31060	TGGAGAAGAATACAAGTGAGGCTTTG	42044
8419	GAGAAAAAGAAAGGGGCAAGAATTGA	20077	TGGTTGAACATAGTCCCAGTAAAT	31061	CTGGGGAATTCAAACAGGAGAGAAAAAG	42045
8420	TCGCTCTTTGGTAAAGTGAGACA	20078	GGAGGGAAGAGGCTAGATTAATACCTTAG	31062	GGGCTCTATCGCTCTTTGGTAA	42046
8421	CAACTTAAGTGCTCAGGCTGTCT	20079	GCTGACATTGAAGACCAAGGAATC	31063	GTGAGCTACTAAGAGCCACCAACT	42047
8422	GCCCAAGAACCCCAATCAATC	20080	CAGTGAGCGCAACCAATCCAATC	31064	AGCAGCAGAAACCCCTCTTG	42048
8423	CCGTACAGTCCAAGTAAAAGCTA	20081	CCAGATCATATAGGGCATTTTAGACCAT	31065	CCCAATGTCTTCCCGTCAAGT	42049
8424	GGGAGTTAGAAAGGGCCTCTAACAGTTT	20082	ACTTATTCAGCTGTGGCCACCTTTC	31066	GTGACAGCTGGGGAGTTAGA	42050
8425	CGCTAAACACTCTTCAGACAGACA	20083	CTCGATCAAAATGCAGTGGTCAAATGT	31067	ATGTGGTCATCGCTAAACACTCT	42051
8426	GGGGCTACTGATGAAGCACATATAG	20084	CTCAGCCTTTTATCTGTTCTGTGT	31068	CGAGCAAGGGGCTACTGATGAA	42052
8427	GGCCCTGTGAACCTTGTAGCTT	20085	CCCCCCCCCTTCTCCTTTTTG	31069	GGGAGAATATTTGGCCCTGTGA	42053
8428	CCGTGCGAGGAAAGGTGACAGT	20086	GGTCTTGATGTTGCGGGTTAGGAT	31070	TGGTGACCGTGGGAGGAA	42054
8429	GGGAGAGTCAGTGACCAAGTATG	20087	GTCATCTGAAAGTCTCCGCTACA	31071	CTGGCAGTCTGGGAGAGTCA	42055
8430	CGAGGAGATGAAGGGAGCAGAAAT	20088	ACTGCCTCTTTGGCCACGTA	31072	CCGAGCTACACGAGGAGATGAA	42056
8431	AGACCTTCAAGAGGAAAGTGAGAGT	20089	GAACCACTGCCTTAGATCAAACAAA	31073	CCCACTCCAAGACCTTCAAGAGGAA	42057
8432	AGGACTCAGAATCCAATCCCTATG	20090	CCACAGCACCTATGCCAAGTGA	31074	GCACCTTGGCAGGACTCAGAAT	42058
8433	TGAGGTGGTGAGAATGAACCTACT	20091	GGACAGCCCCAGGTGAGTCAT	31075	CCCCTTAGAAAAATGAGGTGGTGAGA	42059
8434	CCCACTGCTCTCTGTTTCCAA	20092	GGCCTAGTCTCCCTAAGCCTAATG	31076	GCTTCAACAGCCCAGTGCTT	42060
8435	GGTCAGGTGGGGTTTTATTACCAAA	20093	CCCAGGAGTAGCCCTTAACCAATTAC	31077	AACTTGGTCAGGTGGGGTTTTT	42061
8436	GCTGTCAAAGCAAGTGGGAAGA	20094	CCAGAATTGGAATTGGGTCCAGTA	31078	TCGGGGCTTCTGCTGTCAAA	42062
8437	GCCAGATAGAGAGCTTGTGGGTCTT	20095	CAACCAAGGCTTGGGAGAAAAA	31079	CAGTGTGCCAGATAGAGAGCTT	42063
8438	GGTTAAATGACATCCCACTAGGCCAAAAAC	20096	CATGGTTGATGTGCGTTGTCTTC	31080	CCAGGGTTTCAACAAGACAAAGTT	42064
8439	GGCAGCATAGGTAGGTTTGAATTG	20097	GCCTTTTATCCCTGAGCCATTGA	31081	AACAAGTGTGGCAGCATAGGTA	42065
8440	CACTCACATCCCATTGTCCATATCT	20098	GCCTCATCCTCTTTCAGACAATG	31082	AGGTGACCCCTTCACTCACATC	42066
8441	CCACGGGACACAGTCAGCATT	20099	GGACTAAAGTAAAGAGGCGAGTGATGA	31083	TTGCTAGCCACGGGACACA	42067
8442	CTGACACAGTCTTGCCAGATGA	20100	CAGCGTCATGTTCCAGAACTCTT	31084	TTGCCCCACTCTGACACAGT	42068
8443	CTGCGTTGAAGGTGACTGGAT	20101	GACGCCCACTGTGTTGGTT	31085	CAGCAAACCTACCTGCGTTGAAG	42069
8444	GTTCCGCAAGGCTTCTACCAT	20102	AGACAAGGTGCGGTGCAACA	31086	GGATGAGTCTCTGTAGTTCTGTTC	42070
8445	CCCATCTGCTTCAAGGGTTATAC	20103	CCAGCATAAAGGAGCTGTGATTTTG	31087	GCCATCAATCCCATCTGCTTCACA	42071
8446	CCGATGCTTCAACCACACCTAGA	20104	ATCTCAGTCCCAAGGCCAACT	31088	AGGAACCCACCGATGCTTCAAC	42072
8447	GCAGGCTCTGTGAAGGAAGGAGTT	20105	CCTTCCAGTCCCACTCCAAAG	31089	ATGTCTCGCAGGCTCTGTA	42073

8448	TGCCACTGTCTTGCCGTAA	20106	GGTCTGTGAATGCCAGCGCTAA	31090	GCACCCATCTCATTGCCACTGT	42074
8449	CTGTATGTACCCCAAGGGAGTAT	20107	CTGGGCCCTGTAAACAGTGAGAA	31091	ATTGGGGTGAATCAGAACTGTATGT	42075
8450	CCAGGGGAGCCCTTAGGATTAAC	20108	CCATCCATAAAGTGTATACCCCTCCCTGT	31092	GCTACCCAGGGAGCCCTTTA	42076
8451	GCCCAGGCAAAAGCAGGGATATT	20109	AGGCATAGTGGTCCCGTGTA	31093	CCTCTATTCCAAAGCAGGCAAAAG	42077
8452	CGAAAGTAAGGGCTAAAGTCTCTTGATG	20110	TCACTCACCTGGGCCCTAA	31094	GGGTTTTAACGAAAGTAAGGGCTAAAGTCT	42078
8453	GGAGGAGTGCCCTCATGTTATGATAAGT	20111	GGCTTGCCATATTACTGAGTGCAAAA	31095	GAGTAAGGAGGAGTGCCCTCATGT	42079
8454	CCTCTCTGGTAGGATGCAACTGAAAA	20112	TCAGGATGGCACTGGAACTTAATC	31096	GCTCATGGCCATCCTCTCTGGTA	42080
8455	GGGACCTACCATTAACATCCCATCT	20113	GGATAATAAGGCGTATGGCAACAAA	31097	CACAGAGGTGGGACCTACCATTAC	42081
8456	AGCATGGTTGCAGGCACAGA	20114	GGGAGAGACAGACTCCAGCAATCA	31098	ATTCAGTGCCCAAGCATGGTT	42082
8457	GCCAACACGAAGTCGCTTCACA	20115	CAGTGTCTTCATCCCTACGGAAT	31099	GCAAGTTCAGGCCAACACGAA	42083
8458	TGCTGTAATCCAACGAGGATTTT	20116	ACCCTCTGGATGGGTAAAGGTAAC	31100	TGTGTTCCAATACCTGCCTGAAT	42084
8459	GTGGTCTAGGCAATCCCTCAGT	20117	GTCCCTCTGGGACAGAACATACT	31101	GGTGCCAGTGGTGATAAAGTGGTCTA	42085
8460	GGTTGTCTAGGAATAGGCTATAGATTGGAA	20118	CCCCTGAACATTGCTGATCCTCTT	31102	GGGGTAGTCAAGGTGTCTAGGAA	42086
8461	GTGCAGTTTTGCTTTCCCTCTT	20119	CTGCAGCTGTTTCTTTCCCATAGT	31103	GGAAGCTTGAAACGAATTGTGCAGTTT	42087
8462	CACGCAAGCTCCTTAAGCTATTGT	20120	TCAGGCTCAGAGTGGAGAATACA	31104	TGTGCACGCAAGCTCCTT	42088
8463	TGTCCTTCGGTGTGCTGCTT	20121	GCTTCAATTCTTTCTGGGGAAGT	31105	AGGCTGGGGCTCTGCTCTT	42089
8464	GGCTTCTGGGAAAACCAAGTAA	20122	TCCTCCTCTGTCTTTTAGGCTAT	31106	CCTCAGGATTGGCTTCTGGGAAAA	42090
8465	TGGCCAGGATTGGCAGTGA	20123	GCCCTGACCCAGCCAGAAAA	31107	GGTCCATACCCAATGGCCAGGATT	42091
8466	GGAGAAATGGCCTTAGGAGTCTGACA	20124	GAGACTAACAGGTAAGATCCAGGATTCAA	31108	AGGGGAAGGAGAATGGCCTTAG	42092
8467	GCTCCTGAACTGAGCCACACA	20125	AGGCAGGCCTCACAATGTATC	31109	CCCTAAATGGTGTCTCTGAAACT	42093
8468	GTGTCTTACCACAGAACCATGT	20126	GCAAAGGAAATGAATGGCATCAGTA	31110	CCAGCGTCATCTTCCAGTGTCA	42094
8469	CTCCGGCTTTAACTTTCAAAGACT	20127	GCAAGAGAGAGACTTGGTCTGCAT	31111	GTAAGTCTCCGGCTTTAACT	42095
8470	ACTGACGCAAGGAAATAAGGAT	20128	GGCTGTAGCTGCCATTATTAACCTACTTC	31112	GGAAGTGTCTACTGACCGCAAG	42096
8471	GTGCAACTGGGTGACTAAAGACCAA	20129	CAGAGAGCAAGTAAGCTGTCCCTT	31113	CAGTGTGCAACTGGGTGACT	42097
8472	GCTGTCTCAGTGCAACAACAAGTGA	20130	GCTGGGTACATGCTTCTGTGTA	31114	CTGTGTGCTGTCTCAGTGCAA	42098
8473	CCCCTCTCAGGCCCTCTCTT	20131	ATCGGGAGTATCAGGGATGGAA	31115	ACCCACTGCCCACTTCA	42099
8474	GGCAGAGCTTTAGAATAGCCTCTAAAAT	20132	GGATTTTAAAGTAGGGAGCAATGTGA	31116	CTGACTCTTGGCAGAGCTTTAG	42100
8475	GTCCGATGTAATGGAAAAGAGACACA	20133	GGAGATACTCAGCCTTTGGACATGAAG	31117	CTCAAAGTGTCTAAGTCCGATGTAATGGAA	42101
8476	GCAGAGAGAGCTCACATCTTACCATT	20134	GCCCTGGGGAGATAGATGTGCTA	31118	ACTCACCGATGTGCAGAGAGA	42102
8477	GGCATGTATTGACAAAGGCTTCTT	20135	GACTTTTCCCTACCACTATAATCAA	31119	CACCTCAAAGCAGTGGCATGT	42103
8478	GGCAGCAGACTGCCTGACTT	20136	TGTCCAAGGTGCGCGAGATA	31120	ACAGGCTTTGGCAGCAGACT	42104
8479	CACGCTGAGAGCAAGCATTTTG	20137	GCTGAGCCAGCAAGGATTCTGA	31121	CCAAAAGAGGCACGCTGAGAGAAG	42105
8480	CCAGAGGCTGATCTGCACTACCAA	20138	CTCATGTACCACTACTAAGCCATTCT	31122	ATACTGGACCAGAGGCTGATCT	42106
8481	TGGGGTGAAGCCAGAAGTCA	20139	TTCCAGGTGGCCATGTAGT	31123	GCTGTGTGTTCTTCTGGGGTGAAG	42107
8482	GTCCACCAGAGGCAATGTTAAAGGTA	20140	CGCCAAGGCCTGTTCAAAAAC	31124	GCATAGTCCACCAGAGGCAATGT	42108
8483	ACCAAGCCCAAGTCTCCTT	20141	TGGCTGAAAGCAGGTGCGTATG	31125	CCGCTTTCTGACACCAACAA	42109
8484	CACGTGCTAAACATGACTGGTTTTA	20142	GACAGGCAGAGGAGTTCTGTGA	31126	GGCAGGACACCTCGTAAACA	42110
8485	GCCCATCTCTACTTGTCACTGAT	20143	CCTGTGGGTGCTTCTGTCTCT	31127	CCCTCCTGCCCATCTCTACTT	42111
8486	CTTCTGTGACACCTACCTGCATT	20144	AGAGCCCTATCCCACTGAAC	31128	TCTCCGCTCAGCTTCTGTCA	42112
8487	CTGTGTGGTTTGTCTGGTGGGTTA	20145	CATCTGTGGCCAGGTAAGGAATAG	31129	GCACCTGTGATGCTGTGTGGTT	42113
8488	GGCAACAGAGAACGTGATGAAG	20146	GTGAATCTTCAACAGCAGATGAGTCT	31130	TGTGGCATGAAGGCAACAGA	42114
8489	TCCCTCCAAACTGCTCTCA	20147	GGGCTGAACAGTGGTCTGACA	31131	CTGTACAACCTCCCTCCCAA	42115
8490	GGCAGAAGGCAGGAGCTTTGAA	20148	ATCGCCCTCTCCCTGCTAT	31132	ACTAAGCCTTTGGGGCAGAAG	42116
8491	GGCAGATGCCATATGATTGATACTGAT	20149	GTGAGAAATATGGAGACAGCCAGTT	31133	GCTCTTGGCAGATGCCATATGATT	42117
8492	GGGGCGAACACATCTAAACCAT	20150	CAGGAAGTGTCTGAAGAAGCTAAAG	31134	AACCTGAGACCTGTCCCTGTGT	42118
8493	CTCCCAATGCAACCTGTTCTTG	20151	GCTGAGCTGCTAGGTA	31135	GCCTAGTGTCTGTCCCAATG	42119
8494	GGCAACCATGTTATTAGTAGGGAAA	20152	CCACAGAGTATGGTGTGACTGT	31136	GGTTGGATAGTTGGCAACCATGTT	42120
8495	GAGCTGGCAAAAGCACAACTT	20153	CACCTCATCTCTAATGGCCTACT	31137	CCTCAGTCAGTTAAGAGCTGGCAAA	42121
8496	CGTGTGGAATGCACCTCATC	20154	GGATCCAAGGACTGATTCCAACCTGA	31138	ATGTTGGGCTGGCTTTGT	42122
8497	CAGGGCCCTTTTCAACAAC	20155	GGAGTTAGCCCTTAGACGCTCTGT	31139	TTCCATCCAGGGCCCCCTTT	42123
8498	TTCGCTGCTGCATTTCTAGTCT	20156	GGTGTGCTGCAGGGGTATGTT	31140	AGACCTTATATTGCTGCTGCAT	42124
8499	TCTCTAGATGCCAGGAAGTGT	20157	ATGTGAGGAAATCATCCCATCTGT	31141	GGCAAGTTCTAGGAAGACAGTTATTCT	42125
8500	GGTGTGTGTTTCCACCTGTGT	20158	AAGGCAGGTGCAGGGATGAA	31142	AGCCTCACTGTGTGTGTTTCT	42126
8501	GCAAGCTGTGACCATGACAAGAAA	20159	CCTTATGTGATCCAGGACTCAA	31143	GTGTCTGCAGCTTGTGACCAT	42127
8502	CGGGCAGTGAGTCAGGAGTA	20160	AGGTTGAGCAAGACTACACCTAATG	31144	ACTAGAACACGGGGCAGTGA	42128
8503	AGGCACACAAAGCAGAGAGA	20161	CCCACTCTGGCTTCACTT	31145	CTCAATTCAGCTAGAGGCACACAA	42129
8504	CCACCTTATAGGGTAGCCCTCATATCT	20162	TGTACCAAGCTGGGGCAGTAG	31146	GCCTTACAGGGTAGCCCACTTA	42130
8505	GTTCAAATGCGCAGCTCTTAGT	20163	CTCGGCGAGTGACGGATAAACA	31147	GCCGGGCCAATGTTCAAATG	42131
8506	GCATATGACCTGCGCCTTGA	20164	CCTCTTCCCTCATCCCTCTCTGT	31148	GCTTCTGGAGGAGGTGTCATA	42132
8507	CTCCAAAGGAGGTGTGGTCAAC	20165	TAGGCCATGTCCCGCTTACT	31149	GCTGAGGCCCTTTTCTCCAAAG	42133
8508	GGGGTAGATCTAGTTGTTTTGGACCAT	20166	GACGTCAAGAAGGCAATGGT	31150	CCACTCTAGGTTAGATCTAGTTG	42134
8509	CCTTCCGAGGGTACCATTTTC	20167	GCCACAGCTCAGACGAGCTTAT	31151	GCAATCCAGGCTGGGTCTT	42135
8510	CTCATCTTACCTGTTTTCACGGCTACT	20168	TGGGTGGCATCAGGACCTT	31152	CTCCATCCTCTCATCTTACCTGTT	42136
8511	GCACATGCCAATGTGGGTGTTAG	20169	GGGTATTCAAGTGGTACCGATGT	31153	GGTTTATACCTGCACATGCCAATG	42137
8512	CCAACATATACACTGCACCTTGAGT	20170	CCAAAGCAATTGAGAAGAAGCAGTGA	31154	CCCTGAACAGGCATACCAACATATACA	42138

8513	CCATCTTTGAACCCCTACTGCCTAT	20171	GTGTTTTGAAAGGCTAACTCTGGTT	31155	CCCCATAGTTTCTGCTTCCATCTTTGAA	42139
8514	ACTAAGGCAATGCTGAGTGAGAA	20172	GCCTTGTGTTGGGACTTTGTGTA	31156	CCCTGTGGAGCGACTCTACTAA	42140
8515	TGGGAAGGTTCCAGGCAGTT	20173	TTAGGGCTCGGAATGGGGTTTC	31157	AGGCAAGGAGCTGGGAAGGTT	42141
8516	TGGCAGCTACTGGAGACTCGTA	20174	GGCTTGAACCACTTGGCTCTCT	31158	GTGGTCAGTCTTATGGCAGCTA	42142
8517	CAGGAGATGTACCTTTACCAAAAC	20175	GGGATCCTGGGACTTCTGTAATC	31159	GGACGGTCCAGGAGATGTACCTT	42143
8518	GGGGTAGGATGGAGATAGGTTTCAGA	20176	CCTCTTGAAGGTCCCCAAATATTCTGA	31160	GGGACAATGGGGTAGGATGGAGAT	42144
8519	CTCAATTTGGAGGGTCTGAATTTGGTTT	20177	GGGCATATGAGATTATAAGGGCTAGTTTG	31161	TCTGTGTGCCCTCTCCAAT	42145
8520	GATCCAAGCCAATGGGGTATTTTC	20178	TGCTCTGCTGATACTGTACTTGT	31162	GAGTGCCAGATCCAAGCCAATG	42146
8521	GCCATCTTAGATCACAGGAGGAGAA	20179	GAGGGGAAATGGAGATAAAGTGTTCTAAG	31163	CGGTAAGAGCTGGAGAAGCCATCTT	42147
8522	CACCATATCCCCTTAGGGTCTTGACA	20180	CCAATCCTCCTCTTGCAAGTTTC	31164	CCAGCCATAGATCACCATATCCCCTTAG	42148
8523	GGCAAAACAGGGAGAATGGGAATAC	20181	GTGAGGCATTTCCCCACCACCTT	31165	GGTGGGAGGGACAGGCAAA	42149
8524	GTGCAAGGAGAGCTGAATCCATGT	20182	TGAACCACAGCAAGGCAGATAC	31166	GCTACAGGCTGACTGTGCAA	42150
8525	GTGGTGGGGTTTGTGGCATTTC	20183	TGAGCCCTGCAGACACCAA	31167	AGGTGGTGAGTGGTGGGGTTT	42151
8526	CGCAACCTGTTTGTTCAAAGATTTC	20184	GCCTTCTTAGTCTTCTAGTAGCTGATT	31168	GGCTTTATTCAATTCGCAACCCTGTT	42152
8527	GGGTAGAGGAGACTTCAGTAGTTGTCA	20185	GCTGCTGCCCTGATTCTAGCTT	31169	GGCAGTGGGTAGAGGAGACTTCA	42153
8528	CTTTTCTCATACCTGCGCACTCT	20186	CTTCCAAGTGCTGCCATTTAGTCA	31170	CCTCGGCCAGATTCTTACTTTTTTC	42154
8529	AACCACGGAATGCGGGACTT	20187	CTCTACAATAAGTGATCCCCAGAA	31171	CCATCACAGCCTAACCACGGAAT	42155
8530	TGACCTGGCTATGCCTGTTTAAAT	20188	CTGTCTGGACAAGCTTCCTT	31172	AGTTCAAGTTTCTGACCTGGCTAT	42156
8531	GTCTGGGAGGAGGAACAGGAAA	20189	ACCCCTCCTCACTGGTTTCA	31173	TGGAAGAGGGAGGCAACTCTGT	42157
8532	GCTTGATGCAAAGGAAGGAACT	20190	CCCCATTGATGCCAAGAGATCCTAAG	31174	GGCCACTGCTTGATGCAAAG	42158
8533	GCCCAATGCCGTTAAAGATCTGA	20191	GCTGAGCATGAAGTCAGAGAAAC	31175	ACAACAAGCCCAATGCGGTTA	42159
8534	CTCTCCCAATTTAGCACCAGCATA	20192	GAGAGGAAGAACTGACAGGTACTCAAG	31176	CACATGAGGTGTTTCTCTCCCAAT	42160
8535	CCCTAACTAGGCCAGGGAGCAA	20193	CTGCTCAGAATTTGGCTCAAGTTT	31177	CCTCATGGCCTGAAACAAACCCTAAC	42161
8536	GGGGCTTCCCATAGCTAGGATTGT	20194	GAGAGAACCTTAGGACTCCACATTTT	31178	CAAAGGTTTAGGGGCTTCCCATAG	42162
8537	AGGGGAGTACAAAGCCATCATTG	20195	GCTGAAGCATAGTGGTCCAGAT	31179	TGCTACATTCAAAGGGGAGTACAAAG	42163
8538	CACTCTCAGTGGGAAGGGAATTAG	20196	CCACAAGTTTTTGACACTCCTCTCT	31180	GTCAATACATCTGACCCACTCTCAGT	42164
8539	TGCTTGAAACAGCTCGTCACT	20197	CACACAAGGCAGTGTGTTGTCCTA	31181	CAATGCTCAGTCTCTGTCTTGAAAC	42165
8540	GAGACCCCAATAATGGCTGTAGGGATTTTA	20198	ATGGGACACAGAAGCCACTTT	31182	GGCACAGAGTGTGAGACCCAAT	42166
8541	CTACCAAGGTCCACCAATTTTCAT	20199	GTCAAGCTATAAACTACAGACCCATCTCT	31183	GCTCTCCAAGAATTATCTCACCAA	42167
8542	CTCCATCCAATCTGCTGACCTAAGAAC	20200	CTCATGGAGTTGAAGGCTTGGTTTG	31184	GGGCCTAAGCTCCATCCAATCT	42168
8543	ACTGCTTTCTAGCATGTACCAAA	20201	GAAGTTTGAAAGGCCACTAGGTGTT	31185	CCATCACATTGCTCAAACCTGCTTTC	42169
8544	GGGAACATCCTTGGCACTAACTCCTA	20202	GCCTCAATATGGAACCTACATTGTT	31186	AGGACGTGCTAGTGGGAACATC	42170
8545	GGGCTCCAGGTTTAGTTAGCAGAT	20203	CGAGGGAGGTAATGGGAGCTAGA	31187	CCAAGCAAGGGCTCCAGGTTTA	42171
8546	CGCTACGTGACTTCTGCTTAGT	20204	TGCATCCCAACAGGGCTTTC	31188	CTGGATCATAAAACGCTACGTGACT	42172
8547	CACCAAGATGGCTAAGTGACGAA	20205	TGTCCAGGGTATCCACACTGA	31189	GGCTTTTCCATCTAATCACCAGATG	42173
8548	GCCTGGGTAAGTGATGGCATAG	20206	GGTTCGAAGGGCACCACATTT	31190	AGCTACACAAAAAGCCTGGGTAA	42174
8549	GGTCAACTATAGGCTTGACACGTAT	20207	CTGATACACCAAGTGTCCCTAATTTCCAA	31191	CCTGATCCACTGGTGGTCAACT	42175
8550	CGCTGACTCCAAGTTTCTCTATTG	20208	CTGATCTTTAAGGCCCAATAGTGTAGA	31192	GATTAATAATGCGCTGACTCCAAGT	42176
8551	GGGTGTGCTGTTTACGTGGAT	20209	CACCAAGGCAGTCTCGAGATA	31193	CCGTGGTGGGTGTGCTGTT	42177
8552	TGTTGGAGGTCAGTCAGGTTGT	20210	GAATGATGGGAGCTAGGCTCTAAG	31194	GGCTTAGAGAGGGGAAGCAACT	42178
8553	GTAGGGCAGATCAAAGGAATGAGA	20211	ACTCCCTCGCTGGGTGAT	31195	AGAAGGTTCTAGGCAGAAACAGTAG	42179
8554	CCTGAGCCAAACCATGCATCTTC	20212	GCTTTCTGGACCTTAGCTTGTTTCA	31196	CCTCCTGGCCTGAGGCCAAA	42180
8555	AGGTTAGGTGGTCTCAGCTATG	20213	CTTGCTAGCTTCTTGGGTCTCATT	31197	ACAATTACAGCAGCCATCTAGGTTAG	42181
8556	AGAGCACTCTCAACCAACTTC	20214	CTGGGAAGCAGTCTTGAGACCAA	31198	CCCAAAGGCAGGGATCCAAA	42182
8557	CTGGCACACCTGTTGATGTTGAAG	20215	GGCTAGCCTCCATGTCAGCAA	31199	TTACCTGGGCACACCTGTTG	42183
8558	GGCTTACAGAGAAGGTTGGTATGA	20216	CTCCAGCTGCCAAATCTCACT	31200	GGGAAATCCAGGTAGGCTTCACAGA	42184
8559	GCTAGGCGCTACCCCTAGAAG	20217	GGTGTGTTTGAGACCTTGCATCT	31201	ACAGGCACACCACTGCTA	42185
8560	CCTGGATGTAGCAGATAAGGGTTTTT	20218	CTACCGAAAGCTGTTGACCAAAAC	31202	GCTTGGTCTGGATGTAGCAGAT	42186
8561	CCCACTGGAAGGAAGCTTTAAGATG	20219	CCTTGCTGCTTTCTCTGAGATT	31203	CCTCAATCTCCCACTGGAAGGAA	42187
8562	CTAGCTCTCTCGTATCATTGAGACTAC	20220	AGTTTTCCCTGAAAGGAGTGACAT	31204	TGATGTGGCTAGCTCTCTCGTA	42188
8563	TTACACAGCTGTACAGACAA	20221	TGTCTGCTCCCACTCTCT	31205	GCCTCTCAGTACCATTACACA	42189
8564	CTTGAGGTCTGATTGGATGAAGTGA	20222	ACAGGACCATCCAATCACCTTGAA	31206	GTGGGCCAACTTGAGGTCTGAT	42190
8565	CACGTCCACTAAAATCTCTGCTCTTG	20223	CCTAAACACTGGACTCTTTACACATCT	31207	CGCTTGAAAACACGTCCACTAAA	42191
8566	CCAGAGGCAGGGAAGGACTCA	20224	GCACATCACCCAGTTGGGAAAC	31208	CTTACTACTAGTGTCCAGAGGCAAG	42192
8567	GGCCATAGATAACCTGATGAACACAAG	20225	GGGATTTGGGTGTTGACGATGA	31209	GGCCTCTTGGCCATAGATAACCTGAT	42193
8568	TGAACCTGATTCTACAGGCAGTGAT	20226	GACGTGTGTACAGTCTCTTCTCA	31210	GGACAGGCCAAAGAATTTGAACTTG	42194
8569	TGGCTGTACACCAAATCGTT	20227	CCCCTTGCAATTTGGCACAGA	31211	TCCAGGATTGGCTGCTACA	42195
8570	ACAGTGCAAAGGAAGGGGCTTAAA	20228	CTGGAGGGATGTTTTCAAACCCAAAC	31212	CCCCTGGGAACAGTGCAAAGAA	42196
8571	GGCTTTGTGACTGCTTTGACTAACAGA	20229	GGGCCTGAAAACCTGGCATGA	31213	AACAGGCTTTGTGACTGCTTTG	42197
8572	CCGCCAATCCTCTCCAATTGT	20230	TGCTGCAACCTGTGCATGGTAAG	31214	CACTTTATCTTCAGGTCCGCCAATC	42198
8573	GGTCTGTTCTTAAAGGTCGGAGACT	20231	GCAATCAGGACGATCAGACAAAAGAA	31215	CCTGAAGTGTGGCTGTTCTTAAAG	42199
8574	GGGGATTGAAATTCAGCACCAACAA	20232	CTCTGCTTTTGACAGGGGTTGT	31216	TGCTGTGAGTGGGGATTGA	42200
8575	CGGAGTAAGTCTTTGTCTCAAACAGCAT	20233	ACCCAAGGAGACAAAGAGCATCA	31217	GGGCGACGGAGTAAGTCTTTGT	42201
8576	AAGGCAGGTGCTGCTCTAT	20234	GAGGACTGGAAGTGGTAAGTCACA	31218	AGCTGGCCCTGTGGAGGAA	42202
8577	GGGGTGCAGTAGCCCTCTATGAA	20235	GCCCAAGACTGGCATTCTCA	31219	ACCTCCTCAGGGGTGCAGTA	42203

8578	CGTTTCGGAAGCTAACGCTTTCT	20236	ACCTTTTTCCGACTGGGATGATT	31220	GCAGGGAAGATGGCTTCGTTTC	42204
8579	ACATTGTACAGATGCTGCCTAAGAA	20237	CAGTCCTGGATTGGCTGTGATAC	31221	GCCCCAGGTGCAACCAACATT	42205
8580	GGATGAAAGTGGAAGACAGGGAA	20238	CGCTTTTGGTAGCATCAGTTCCTTGA	31222	AGACCACGAGTGAGGATGAAAAG	42206
8581	GCACCCACTTACCTTCTCCATAG	20239	CCTAGCTTGTGCCAAGAGGTTCT	31223	TGTACCGGGCACCCTTAC	42207
8582	GAGCTGTTGTGTCATGGTGAAAAAT	20240	CCATTTACGGGGAAGGAAGT	31224	CCCATGTGAGCTGTTGTGTCA	42208
8583	TGCTAGAGACTCAGATCCCAAGA	20241	GGCAGAGGATCCCTATGTTACAGTTC	31225	GCCTGGAGAAGCATGCTAGAGA	42209
8584	CTGGTCCCATGTTTGTCTTCT	20242	TGTCCCTGTGGAAGCCAGAT	31226	TCACGGCCACAGTCCATCAAC	42210
8585	AGCGGTGTGAGGTAGAGACACT	20243	AAGAATTGCTTACCTAGCCTGAT	31227	TCCTGACTTAGGAGCGGTGTGA	42211
8586	GCAGCCTGACAACCTTGGTAAGT	20244	GGCCTATACCCAACAAGCCTCTA	31228	GCCATCATGCAGCCTGACAAC	42212
8587	CTCTAACTACAACATTGGCCTCAGAAC	20245	GGGGAACCATGAACCTACCTGAA	31229	GGTAGTCAAGAGATGATGGTGTCTCT	42213
8588	CTGTGAACCAATAGACGGAATTGATG	20246	GGGACACTTACCCAACCACGTT	31230	AGTCGTGGCTCGGATCTGTGA	42214
8589	CAGAGCTGGACTAAGACTTGCTT	20247	CACCGACTTCTCTGACCCAAGA	31231	GACCCATTATAAACAGAGCTGGACTA	42215
8590	TCCACCTCTTCGCTGCCTTTG	20248	TGGGAAAAGTACGGAGTCAGATG	31232	TTTTGCAATGAGAATCCACCTCTTC	42216
8591	TCCCAAAGTGAATGCTGACATAGA	20249	CGTGCAACTTCTCTTACCTGAT	31233	TTTGACAGAGGACACTCCCAAG	42217
8592	GCTGTGCTTGCCTATACAAGTTAC	20250	GGTTCAGTGGAGCTTGTAGTCTCA	31234	CCTGTGCTGCTGTTGCCATAC	42218
8593	GGAGCCTACTGGGAATCAGGAA	20251	CACCTATGAATTCAGGGCTCCTTTC	31235	CTGTGATAAACCATGAGGCTACT	42219
8594	GGAAGAGCTGGGCTTTGTTTTCTGT	20252	TGGGATGGGATAAGGAGTAAGGAAA	31236	GCTTGGAAGAGCTGGGCTTT	42220
8595	GCCAGATGCAGGAAGGAACAATG	20253	CCCAGCCAGTGAGGTAGATGTTG	31237	TGGAGAGCCAGATGCAGGAA	42221
8596	CGATCAGGACACTGAGCCTATCA	20254	TGCCCTGTCTCCTTCTTCTA	31238	CCAGGACATCGATCAGGACACT	42222
8597	TTGGAGAGGTAGATGAAAGAGGAGAT	20255	GGAAGTTCCTCAAGTCTTACCTT	31239	GGGAACCTTTGGAGAGGTAGATG	42223
8598	CCCCAGTGCAACACAGAGCTT	20256	AGTGTGTCCTAGGCCAAGT	31240	ATGGACAGCCCCAGTGCAA	42224
8599	AGGAGCAACCGCGCCATAC	20257	GGCATATATGTAGCGCGGTTGTAAG	31241	ACGCTGGCTGGAGGAGCAA	42225
8600	CGGCCCTCATCTTTCAGGAAGTA	20258	CCCGTAACCCAGATGATGAGTTT	31242	CTGTCACTATTCGGCCCTCATC	42226
8601	CTGGCTGCTCTCTTCTCTATC	20259	AGGTAGTAGACAGGCTTGAAGGTT	31243	CACATGCTGTATTACTGGCTGCTT	42227
8602	GGGATCTAGGCATATAACAGTTCTCTTC	20260	CCCGATGGGGTAGCATTTCAA	31244	GGCTTAGGCAGGATCTAGGCATATA	42228
8603	CTGGAGCTCATTGGCTGGAAGT	20261	GCAACAAGACTTTTACCCAGAGACCAA	31245	TCCCTACAGCTGGAGCTCATTG	42229
8604	GGTATTCTCTGCTGATGGATCT	20262	GGTCCAAATGGCAGACTGTTGAA	31246	TCTACCTACCAGCTGGTATTCT	42230
8605	GACCCCTAAACTTTCTGGAGCAAAC	20263	ACTGGCAAAGGAGAGGGTAGT	31247	GGAGATGAGAAAACAGACCCCTTAAAC	42231
8606	CCCTCTCAGGGCCTTGTTTTC	20264	TCCCTGCCAGGACCAAGAATA	31248	AGGCAGGTTGAATCCCTCTCA	42232
8607	GCTAAGGACACCATGAAGGATAGCAA	20265	CTGCTATTCTCCTGGTTGAGGTTGA	31249	TGCTTGTTAGCTAAGGACACCAT	42233
8608	AAGTCAGGCGTGTCTGGAA	20266	TATGTCTCATCCCGCCCTCTCT	31250	GGTGTCTGCTGCAGCAAGT	42234
8609	TGGCAGTGAGGGAGGAGATTCT	20267	CCACCACCTCCGAGGATGAAAAG	31251	AGATGCTGCTCTGCGAGTGA	42235
8610	TGGGAGGAGATTCGCTGATGA	20268	AGGCAGCCTTACACATGACATT	31252	GCTGCCTGCACACGGATAAA	42236
8611	CCCCAGATTAAAGAAGAGAGGGATT	20269	ACATGGCCTTTCCACTTTCTCTTT	31253	GCAAGTCTCTAAGATCAGCCCAGATT	42237
8612	CTGTCTCCAAGCCTGTACAAAGT	20270	CTGGCGTCGTATGAGGCTTTTG	31254	GCATCTGCAAAACAACTCTGCTCCAA	42238
8613	ACCCCTCTACCTTCCAGTGAAC	20271	GGCTGGGATAAAATGACAGTCTTGA	31255	TCCTCCATCCACCCCTCTACCTT	42239
8614	GCCAGTTTCTTCAGCTCCAAGT	20272	GTGGTGCTTCTGTGGGTTT	31256	GGTGTTCGAGATTGCCAGTTCTTCTC	42240
8615	CCCTGAAGCTGTTCCGGCTTTG	20273	TGGCACTGGTGGACTCAGA	31257	GCCATCTGCCTGCCCTGAA	42241
8616	TGGGGAGGGATCAGAGACACA	20274	CCCCAAGTGAATAACTGTTGCTT	31258	AGGAGACAGAGCTCGCAGGAT	42242
8617	GCCTCTTGAGGAGGGACCTTTC	20275	GAATGGGAGAAAGAGTGGTGGTAT	31259	CTCATGAATTAAGACAAGGCTCTTGA	42243
8618	TCCCACTGCCCTAAGTCTTTGA	20276	GACCGAGAAGCAGTACACTGAGA	31260	GGAGAAAGGCTGTAGGGACTTC	42244
8619	CGCCAATGGCTCTCCTCACTT	20277	CAGCTCATTTCCCTACAGGAACAGT	31261	TTTGTGGGCGACGCCAATG	42245
8620	CTTCCAGCATATTGCAAAGACACA	20278	AGTGTGGGTGGCCTTCTCA	31262	TCAGCAGCTCTTCCAGCAT	42246
8621	GAACCTGTGTGGACCTGATCAAAC	20279	CCTGCTCACTAAGTGCTCTTCT	31263	GTCTGTTCCCTTTGAACCTGTGT	42247
8622	GCTGTGGTTTGGGCTGAAGAAATT	20280	GGGAGACATCAGCATCCATCAT	31264	GTCTTAAGGCAGCTGTGGTTTG	42248
8623	GCTCAAGGGTTGGAAGCTCATGT	20281	CTCGAAGCTCATCTTCTCTGTGAAG	31265	GAAGTCTGGGGCTCTGCTCAA	42249
8624	GGGATGTGGTGGGAATCACCAT	20282	TCAGTGCTACCATCAGGGATATGA	31266	GGCAAGGTGAATGGGGATGT	42250
8625	CAGAAACTACCAGGTGCTTCATGGTT	20283	CCTCGTGGGAAGACGGGAAA	31267	CCGCCCTTCCGTATCAGAACT	42251
8626	GGCCTCATCTTCCAGTGCTT	20284	GCAAGTGCCTCTGCTCCAA	31268	AAGTGGCAGGCCTCATCTTC	42252
8627	GTCAGGGGCATCTTAGTTTTCTGTA	20285	GGCATAAAGAGGATCAGGTTTACA	31269	GGGACAAGTCAGGGGCATCTTA	42253
8628	ACTCTCTTTACTGGATCTTCTACT	20286	TGAGCCTAGTGAGGTCACCT	31270	GAGACAGAAAACTAAGACTCACTCTCCTT	42254
8629	CCTTGGAGTACCCATGAGTTCTTC	20287	CCACAATAATTGGTGACTGACTTGCTA	31271	GCCCCAAACATACCTTGGAGTCA	42255
8630	AGCCCTTGATGTACCTTTCTGT	20288	TGCCTAGTGGTTACGAGTTAGA	31272	AGAGTGCCAGCCCTGATGTA	42256
8631	CTAGTCCATGGATACTGGCATTCT	20289	GGGTTCTGACCTGCAAAATCTCT	31273	GCCCAAGGAGGGTAAGTATGCTAT	42257
8632	GCCAGCATGGTTGGCTTTTG	20290	GCAAGAAAGCATCCATCCATCTACA	31274	GAAGACCAAGGTGCCAGCAT	42258
8633	GGGCACCTTAGAGGTTTGTTGT	20291	CTGTAGCTTTCTGTAGCTGGTTTC	31275	CTGGTCTTAGGGCCACTTAGA	42259
8634	GGGGAGGGTCAACTGTCTCTA	20292	GGGGCAGAGGGGACTAAGGTAA	31276	AGTCTCTATGGGAGGGTCAAC	42260
8635	CAAACCCATTCCAAGGCAATCA	20293	CTCTCCAACCTTAACACCTAGATATG	31277	ACAGCAGCTCAACCCATTCT	42261
8636	TGAATCTAGAGAGCGGAACCTTTG	20294	CAGCTCCCTCAAAGTCAGATAG	31278	CCGCGGTGAAGGACTGAAT	42262
8637	GTGTTACCTGTCAATTCCTACCCCTAG	20295	GCAAAGGAGACCATCTTCAATCCAA	31279	CCAGTCACTTCTGTGTTACCTGTCA	42263
8638	ATTCCTGTGCGGGGACTTC	20296	CGCAAAGGCGCCAGGAAAGACA	31280	GGGCTGATGTCCATGATGATTC	42264
8639	GCAATGGCTAGCTCTAGCTATTCTA	20297	GGGCGGGCTTATTACCTTCTTG	31281	GTGTTTTAGATGGGCTACAGCAATG	42265
8640	GCCATGTGCTTTGGTCATGAGA	20298	GTGTAGGACTCAGCCATGTTCA	31282	GTGGAATGCCATGTGCTTTG	42266
8641	GACAAGCCTCTTACAGATGAAACA	20299	GAAGCCCAGCAAGTGGATCA	31283	GCTGGACGAAGACAAGCCTCTT	42267
8642	GGATATTGTACGGGGACCTCTATAC	20300	AGGAGGTGCTTGTATTGACACTTG	31284	TGTCCGACTACACTTGGATATTGT	42268

8643	TTGACCTCTGCTGCCATTC	20301	CCACGGAGCAGCTGGAACA	31285	GGTCGGGCTAGTGGATAGTCTTTG	42269
8644	TGTGGGACGGCTCTTAGAT	20302	CGGTACCCACAGGTTCTTCTGT	31286	TGACGTGGGATGAGGGATGT	42270
8645	CAGCTCCTTCCCTTAAGAAGTAAATCA	20303	AGCCAGCACTAGCCTCTTATGT	31287	TCTTGAACAGCTCCTTCCCTTA	42271
8646	GCCCTTAGAACACAGGATCCAGAAG	20304	GGGACTCTCCCTTGACCTTGAA	31288	GGTCCAAGTTTGAAAGCCCTTAG	42272
8647	CCAAGTGTGCTGTCGCAAAAATTCTAAC	20305	CAGGAGTAGAGTAGGAAGGCTGTA	31289	TCTCCAAGTGTGCTGTCGCAAA	42273
8648	GACTAGGAAGCTAAAGAAATCAGTGAGAGT	20306	CCAGCTGTGACGCTAGGATGA	31290	GGTGCTTGACTAGGAAGCTAAAGAATC	42274
8649	GACGGGTGACTAAGTCTCACAGTTG	20307	GGATGTCTGGGGAAAGAAGATGACT	31291	GGGCTGAAGACGGGTGACTAA	42275
8650	CCCTGGAAGACTGATTGGCATT	20308	TCCTGGGGCCGACTCATAG	31292	GGATGTGGAACCTCAACCTGGAA	42276
8651	CCGGATTACAGAGTGCCATA	20309	GCCCTTGCTCACTCAGTCAAAAAC	31293	CACACTTCGCTCCGGATTCA	42277
8652	GGGAATTGGCATTCTGGCAACA	20310	GCAATCCAAGAGGTTAGTGACTGTTT	31294	CCAGAAAGCAGAAGGGAATTGGCATT	42278
8653	CCCCTTCAATTTTCCCTTTCCTT	20311	AGCCAGTCCCACGTCACATAG	31295	CTCCAAATATGACTTCCCCTTCCAT	42279
8654	TCGCCATCTACCCAGAAAAGATTTA	20312	AACTGAAAAGGGTTCCTCACTT	31296	CCTCTGGCAGTTCGCCATCTA	42280
8655	TGCGACAAGGCTCTGACT	20313	GCCCTGGACCATAAACCAAGT	31297	GGTTAGCAAGCCTGCGACAA	42281
8656	GGGCGACCATAAATGTCCTGAA	20314	CGGCATAGCCCCACAGGAA	31298	GCTGCTGGGCGACCATAAAT	42282
8657	GCCTAGACCCAGAGGCAATTCT	20315	TCAGGGCTGTAATGTGCTATG	31299	GAGTATGATGCTCCCAAGCCTAGA	42283
8658	CCAGTGAAGGTTTCTGACATGACCATA	20316	ATCCATCTCCACAATGTCCACATA	31300	GGAGCCAGTGAAGGTTTCTGA	42284
8659	GCCAGGATGTACGGCGTGTA	20317	GCTGGGCTGCAGGTATGAATCT	31301	CCCCTACCAAGCCAGGATGTA	42285
8660	TGTTCTGTCTGGCTGGCATT	20318	GAGCTAGCTGCAGGAGTTGTT	31302	ACAAGGGAGTGAATGTCTGTCT	42286
8661	CCTGGCTGATACCTTGGCTTT	20319	TGGGATAGCATGGCTGGATTATCT	31303	AACCACAGGCTGGCTGATA	42287
8662	CAACCAGTCTGGGGTAGAGCAA	20320	GATCCAACAGCCACTAAGTGAAC	31304	ACTGCAACCCCAACCACTCT	42288
8663	GGACCGAAGAATGTTTTGAACACACCATA	20321	TCCACCGTCTAGATTTTGTGAT	31305	GCATAGAGGACCGAAGAATGTTTTGAAC	42289
8664	GAGGGTTCAGTTAGCCTGAGTATC	20322	GCATGTTGGGAGCAGAACCA	31306	CAGGTGAGAGGAGGTTTCAAGTATG	42290
8665	GCATTAGTGAGTGTAGCTATGTTAG	20323	AGGCTGCAGATCAGTGGTTTC	31307	ACAGTCTCTGACAGCATTAGTGA	42291
8666	GCAGGGACCTATTGTGAACAAGACA	20324	CTCTCATCACTCACAATGGCGTTTT	31308	GTGAGAAAAGCAGGAGCCCTATTG	42292
8667	CCACAGGGACTGATTAGCAGTGA	20325	TCCAGCAGACCCAGGGTGTA	31309	TGGCTCCACAGGACTGATT	42293
8668	GGGGAGAGACAGGATCAACCCAGTA	20326	GACAAATGGACACACTCCAGTT	31310	ATGGAATGGGGAGAGACAGGAT	42294
8669	CCCAGGTATTCTCAGCTTCAATG	20327	AGAGGTTTGCACTTCAGAGACATC	31311	GAGTCCTTACCCAGGTATTCTCA	42295
8670	TTCCAAAGCCTGCGGAATTCTA	20328	GCTGCTGGAGACAGTGCATAG	31312	GCACCAGGCTTCTCAGCATT	42296
8671	GGGAACAATCAGTGGTCACTATATTTGCAT	20329	CCTCTGTGTGAAGCTTTGAGAATAC	31313	CTAACCTCTCTTTGCTGGGAACA	42297
8672	CAGTCTCAGATCACCTTAAAGA	20330	GGAAGCTGCCAGTCTACTGTGT	31314	TGGAGGTGCACTGCTCAGAT	42298
8673	CCAGTTTAACTTTGAATGCTCAACGCTTCT	20331	AGGTACAACACCAACCTCACAT	31315	GTCCATTGAGTCAAAATCCCAGTT	42299
8674	CCACCCTGTAAAAGCAGGAAGA	20332	TGCTTTCACACTTAGGGAGCTTT	31316	GACTGACCTTGCCACCCTGTAA	42300
8675	CGTAAGTCTTTGTGGCTCCAATA	20333	AGCTTTACCCCTCCTCTGACA	31317	CATTGCACCCGTAAGTCTTTTG	42301
8676	GGTGGAGGAATGCTCTGCTAAA	20334	CCTAGGAAGAGGAACAGATTTGGTAAG	31318	GGTTCAGTATGGTGAGGAATG	42302
8677	GGTGATTGTCTGACAGTGGGCTAAG	20335	CCCAAGAAAGGTCTGTTCTGACTGTA	31319	GTGCGAGGAAATAGGGGTGATTG	42303
8678	GCAGCATTAACTTGTGAACGTTTCT	20336	AGCTCAGATCCACCCAGCAT	31320	TGACCAGAAAGATTGGCAGCATT	42304
8679	GAGCAACACTGATGGAGAAGAAAGAAATGT	20337	CTGTGTCTGTTGGATGCGTAGTGA	31321	CTTTGAGCAACACTGATGGAGAAGA	42305
8680	GGCTGTGCTAGACAGGTTGAAG	20338	GGGTCCACTGTAGTTCAATTTCCCTAA	31322	AGGTGACTGGCTGTGCTAGA	42306
8681	CACATGAGTAGGCTGAAAGTGGATA	20339	ACTGGGGCTGCAGTTACCTA	31323	CAGCCAACAGCCACATGAGT	42307
8682	CTGTGCTCTCCATGCACTCATT	20340	GGCCCTTACCCCAACCTGTA	31324	TTCAGGGCTGGTGCTCTCCAT	42308
8683	GAGGGTTTATTACCATCCATCACA	20341	CCAATTGGAGGAAGGATGACCTATC	31325	CAGTTGCTATACCAAGAGGGTTTATTC	42309
8684	CTGGAGTCTGAAGTCCCTGAATC	20342	GTCACTCGTCTTCTCTCACCTTA	31326	GCCAGTGTCAATGAGTCTGGAGTCT	42310
8685	GTTCTGGCCACTCTTCTCTGT	20343	GTCTGTCTGCCAAATCTATGCAGTTTC	31327	TCTTTTTGGGCGCTGTGTTCT	42311
8686	CCTGGAATAATTTCTTCTCCAGTCCCAAA	20344	GCTTAGCGGAGGTTCCCTGAAT	31328	TGAGTGACCGAGAGCCTGGAA	42312
8687	GCCATGCTTTGTAGTTATGGGAGAGA	20345	AGGCCCAGGAGTGGACCTA	31329	CCTCACACTGGTAGCCATGCTTT	42313
8688	CTGAATCTAGCTCAGCTCAATTGACAAG	20346	GTGTTCTGTGAACCATTTGGGTATGT	31330	GACAGAGCATCCCTTATCTGAATC	42314
8689	GCATGGAGTATATTGCTGCTGAAAG	20347	GGGTCAGAGAAGCTCAACCTTGGA	31331	GGGAACAGATAGGTAGCATGGAGTA	42315
8690	GGTCAGAGAGAGAACAAACACTTCCTT	20348	GGCTCTAACAGCTTTTGTATGTTT	31332	GCACAGCACTTAGGTAGAGAGAGA	42316
8691	CTTCCAAGCCAGTCCACCAACA	20349	GCTGAAAGTTAAAGGAAGTGGTGATT	31333	GCTTCCAACCTGAAGTCTCCAA	42317
8692	GGTCGTGTTTGAAGAGACACACA	20350	TCTGCTCTGTACTGTTCTGCTATT	31334	GCAAAATGAGGTGCTGTTTGAA	42318
8693	AGCTCCATAGCAACCTCTCTGAA	20351	GGACACTGTTTCTTTGTGTGAGTAAA	31335	GCCAGGCACAGATAGCTCCATA	42319
8694	ACCCTTCTTGAAGACATTGAT	20352	GGAGAGTGTCCAGACTGATCT	31336	TTCCCAAATCAAGAACCTTCTCT	42320
8695	GGGAGAATAGCAAGTCTGGTAGCAAA	20353	CCACGCCAGCTGTGAAATAGT	31337	AGCATGAATGGGAGAATAGCAAGT	42321
8696	GGATCTGTGGCTGTTTCAAGAAG	20354	TCTTCTCCCTGCTGCTTCTTCT	31338	GCAAAGCTGGATCTGTGGCTGTT	42322
8697	AGGGCTATTTCAAGGCTTGGATTCT	20355	GCGTGTGGACACAGCTTTGTTTCT	31339	CAGAAAGGTCTGCTTAAGGGCTAT	42323
8698	GAGACAGCAGGTATTTGTTCAAGTTG	20356	CGGCTACTTCTTTTGCTTAAAA	31340	GGAGGTATTCATAGAGACAGAGGTAT	42324
8699	CCCTGGCTCTGAGCTCAATTCA	20357	GTCTAGGCCACGAGGTCTTCAA	31341	CCAGTTCCTTGGCTCTGA	42325
8700	GCTCTCCATAGCCTCAATTCCTACTA	20358	CCATAGTCCAGTGTGGCTGCAT	31342	TTCTTAGCACAAAGCTCTCCATAG	42326
8701	GCAACAACCTTGTGTAATCCCTTCA	20359	AAAATTACAGGCTGACAGGTAAGCTA	31343	GTAACCTGCAACAACCTTGTGTAA	42327
8702	CTCAAGCGATCTTCCCTCTTTTG	20360	GCATGGTGGTGTGCATCTGT	31344	CCTCAACTCTGGGCTCAA	42328
8703	TGTTTTGCATCTCACTGCTTTC	20361	GCAGGCTAGAAGGGCAAGGGGATA	31345	GCATCTGCCCTACATCTTATGTTTG	42329
8704	GCTTTTGACCATTTGTGAAGTTG	20362	CCTGTCTACAAATGGTCCCTGACT	31346	TGCTTGTGCTTTTGACCAT	42330
8705	CTGAACCGTCTGTGGGAAAGTTCT	20363	CACATTGTTACCTATAACGGTGTGT	31347	AAGGTAAAACCTGCAACCGTCTGT	42331
8706	CTCCATAGGCACATCAATTCTGA	20364	GGAAATAGCTGGGTGTTGCTACTAAG	31348	CCTGCTATTCTCCCATAGGCACAT	42332
8707	CTGTTCAGAATCAGGACTGACTACTCT	20365	CTGAAGTGGTATCCCTTAGCTTCAAC	31349	TCCACAGTGGCTGTTTCAAGT	42333

8708	CCCTTAGTTGTGAAGGATGGTTCT	20366	TCCTCCTTGGCCCAATCAAAG	31350	GTCCTCTTGTTTTCCCTTAGTTGTGAAG	42334
8709	GCTGGCATCTACTGGCACACA	20367	ATTGGCTAAGCAGGCCAATCT	31351	TGTTACTACTTCAGCTGGCATCTAC	42335
8710	GGACTGTGTCGGTGGTTTGA	20368	ACCTGGTGTTCTAGTCTACTGTGA	31352	GGAAAGAGTGGGAAGGACTGTGT	42336
8711	CAGTAAGTTCTGAGGTCCTGTGT	20369	ACTTGGGGAACAGAAAGATGTCAA	31353	GGCAGTAATGGGCAGTAAGTTCT	42337
8712	GAGGAAAGGGTGGCCATCATCA	20370	CCACCAGGAGCTCAGTTGTGTT	31354	CGACTACCAAGTTTCTGGAGGAAAG	42338
8713	GCTGCACAGGATTTTCCACAATG	20371	GTGGTTACTGCATCGGACAGT	31355	AGGGCTGCTGCACAGGATTT	42339
8714	TTGCTGGGCTTTTGAGGTATT	20372	GGGAAATGCTTCGGGACCTT	31356	GCTTTTGTGCTCGGGGCTTT	42340
8715	CTGCTCTTTGCTCCGTGACA	20373	CTTTGGGCTGGTTGGTCTGA	31357	TCCCCTGTCTCTCTGCTCTT	42341
8716	TCAGACTGGCCTTCGAGACA	20374	AGTGATGGCTCTGCCCAAAC	31358	ACAGGCCAAGCCTGCTCAGA	42342
8717	GGACCCCACTGCTGCATTTC	20375	GCCCTCCAGGCTAAGAATATC	31359	CACATTTGGAAGGACCCCACTCA	42343
8718	GCAGATCTTGAGATGACCCATAATTC	20376	CCTAAGCCTTCTGCAGCTGAAAT	31360	CCTCGCAGATCTTGAGATGA	42344
8719	GCAAAGAGCCAACTTCTGATCTGT	20377	GTGAAGCAGCTGGAAGTCTCT	31361	GGCAAACCAATAGCAAAGAGCCAAT	42345
8720	AGGTAAGGAGGGCAGTTTCTATGA	20378	ACTGCCTCCCATTTCCATTTTCT	31362	TGAAACAACCCAGGAAGGTAAG	42346
8721	CGTGGTAACACCGCACTCAAG	20379	CTTCACTACGTAGATGCCATCCTATT	31363	TTGTGGCGGCGACGTGTTA	42347
8722	GGGTCAAAGGACATTTCAAGCTA	20380	GACCTCTGTGCTTTGTGTCAT	31364	TGACCTGAGAGAGGGTCCAAAG	42348
8723	AGGGCTGTGTGAGGTTCCAT	20381	AGCTGCCTCCAGAGAAGAT	31365	GATGGCATTATATCAGGGCTGTGT	42349
8724	GCCTTGAAGTTGCCTTCAAACACT	20382	AGTCGCTGTGGGGAAGGAA	31366	TGCCCTAGCCTTGAAGTTG	42350
8725	GCCTGACCAATTCGTGGCTCTT	20383	GGCTTACCGGCTGAAAGGAT	31367	CCACCGTGCCTGACCAATTC	42351
8726	GGTCTCATCTCACTGTGCTCAAC	20384	TGGCAAGGCATCCCAAGA	31368	CGCTTTCCCAATGTACCAGGTCTCA	42352
8727	CGGGCAATGGATAACCAAGTTTCTTC	20385	GTTTCTGCCAGTTAGGAGCTAGT	31369	GCTCTAATAGCTACGGCAATGGAT	42353
8728	GTGTCATCCACATTGAGTGAAAACT	20386	GGACTCCAGAAGCTTCAGACAAAC	31370	GGTTTGACCTCAACATGTGTGTCAT	42354
8729	CCCTCGTCAGCTTTTCCACTCT	20387	GGCAACAGAACAGACCTGGTGAA	31371	GTGGAATCTACCTCTGTCAGCTT	42355
8730	CTTGGCTCTTGGTGCCTTATTAGT	20388	GCAGGAAGACCATTTAGGAAAAACA	31372	TCTCTCCAGGCTTGGTCTCT	42356
8731	CGTGGGCCTAAGTTTCAACTCATT	20389	CTATAACTTCCAGTAAGTGTGCTCTT	31373	TGTGTAGAATTTTACGTGGGCCTAA	42357
8732	TGGAGACCATGCTGTCAGGAA	20390	CCCCACCTAGCCACTCTCTAC	31374	GTGCTGGGGTAGTCACAGATG	42358
8733	CAAAGGAGGCTGAATGAAGTGAT	20391	GGGGAGGGAAGAAGAAGCATAATGTCA	31375	CATACCAACCAAGGAGGCTGAA	42359
8734	TGAAGAACCATTGCTGTCTGAT	20392	GGACCTGCTCTTTCTGTCCAA	31376	GCAACTATCAGGGTGAAGAACCATTG	42360
8735	TCCATCCACCTCGGTCTCCAAA	20393	GCCACCTTTTCAAGACTTGTCTAA	31377	CTCCTGGAACCTCAAGCAATCCAT	42361
8736	AGGGTCATTTTCTGGCCTTTGA	20394	CGTTTTCAAGGCCATAGCTCACA	31378	TTCTTCAAAGCAGAGGGTCAAT	42362
8737	GTGTTCTGGACACGGACGTAAG	20395	CTGTTTCTCAGGTCTGCTCTT	31379	TGCCCCAAGGCTAGTGTCT	42363
8738	GTGGATCTTGTCTTGGTGAAGATGTA	20396	TCCAGGGCAGTGCCTCTTT	31380	GGCATTTTGAAGTGTGATCTTGTCTTG	42364
8739	TGTGGGCATGCCCTCACT	20397	GCTTCTCTTTTGTAGTCCGCTTAAGATT	31381	CTTGGCTGCTTTTGGCAAGT	42365
8740	GACAAGGTGGTCTCAGATAGATTACA	20398	TTCTCTGGCCAGCCTTTAAGTTT	31382	ATCTACCTGGCCTGAAAGACAAG	42366
8741	AGTGTGCTAACTTGGCTGCAA	20399	CTCAAGGCCAGTCAGCTCTGT	31383	GCACGGCTGGGTGGAATAAGT	42367
8742	GGCAGTGGACTAAAAATATGGGGAAGAT	20400	CTGTTTATGGCATCCCTTAATGT	31384	GCATGAAGGTGGCAGTGGACTT	42368
8743	GCCAAAGGTTGTCTAACTGGTAGT	20401	CAGCTAGTGTTTGTGACCATCTGT	31385	GGAAAGATTGCCAAAGGTTGTCTA	42369
8744	CCTGCACCGTGCCTTCTCATT	20402	GCCAAACAAAGGGAGCACTGGTT	31386	GGCTTCTGTGTCACCTTGAA	42370
8745	CTGGAATCAGCTGCTGTGGTATG	20403	ACTGCAGCAACTATGCATCACA	31387	GTGTTGGGAGGCTCTGGAATCA	42371
8746	GCAGCTACACATCCCCTCTCT	20404	GGCTTCTCTCCCTACCCAGATT	31388	GCCAGCAAGCAGCTACACAT	42372
8747	CCTCTCCATTTCTGGGCTCCTT	20405	AATGGGGAAGGGCTGTGAGTAG	31389	CACCGCTATGCTCTCTCCATTTT	42373
8748	GCAGGAGTCAGAAAAGTAACACAAA	20406	CTTCCCTATCCAGCTGGTCACT	31390	CCAGAGGAATGCAGGAGTCAGA	42374
8749	GTGAAGGGGCTGAGTCAAAATGAAC	20407	GCAGCAGGTGATAATGCAGAAATTG	31391	ACTCTGTGAAGGGGCTGAGT	42375
8750	CAGTGGTTTTTCAAGGAGCCCTAATC	20408	ATCTGTCCGAGAGGGCTTT	31392	GGGTGAGATAAACTGTTTCAAGTGGTTTT	42376
8751	GTGTCTTTTGTCTGTTTGCCTTT	20409	GGAATCCCATGTAAGGTACTTGTGTT	31393	AAAAGCTCCTGGCTGTGTCAT	42377
8752	GGTGGGGCACAATTCAGTTAC	20410	GTGGGCTTAGATTGGGATATTGGTA	31394	GGAGGTAGGTGGGGCACAAC	42378
8753	GCACCTTTACACATCCTGATGCTCTT	20411	ATGCTGGGTTTTGACGCTATC	31395	GGATCCCAAGCACTTTACACATC	42379
8754	CCAGGCTTTGGGAACACCAT	20412	CCTGGAACACCCACGCTCTT	31396	GCTAAACAGGATTCAGGCTTTG	42380
8755	GCCTGACATTTTCTAGAGGGAGAT	20413	GAGAAGACGACAGGTTTATTGCTTTG	31397	CTGAACACAAACCTGCTGACA	42381
8756	AGAAGGGAACCTCAGAGTTACCAA	20414	GCAGGGCATGACTGACTTCT	31398	CCAATGTGAGAACTAGAGGGAACT	42382
8757	GGCTTCAGCAGGGTCAGACT	20415	GTGTCATGCTCTAGGACATCAT	31399	TGTAGAGTCCCTCTGGGCTTCA	42383
8758	CCCACTACACCATGAGCTCTTCT	20416	CCAGTAGTGACAGTCCAGTCTGAGT	31400	CCTTCTCCTACCTCCCACTACA	42384
8759	CCATGTGAAAAAGCTTCCCTTCT	20417	GCACTAACCTCTGCCAGAGAAA	31401	GTGACTCTGCTTTCCACCATGT	42385
8760	GCTCAGGGGTTAGCCTTCTTTG	20418	CTCCACCATCAAGACGTTTCT	31402	TTGGCAGCTCAGGGGTTTAG	42386
8761	CAAGAAGGAAGCCAAGTTTGGTTATG	20419	GGGCAGGGGATGGATAGGAGAAA	31403	TTGAGGGCTTTGTCTCAAGAA	42387
8762	CACAGTCTGATGGTTGTCATGGTT	20420	CCTGTTTCTCATGCATCTTAGCCATGTT	31404	GGCGTCACAGTCTGATGGTT	42388
8763	CAGAAGACAAGATCTCTCCAGATG	20421	CTCTGACAAAATAACGGCTGGAA	31405	CTGCTTGGCCACAGCAAGACA	42389
8764	GTCTCCTTTGACACTGGCCAAAA	20422	AGCTTGAAGTAAGCCCTTCATC	31406	GCCCAGGGCTGTCTCCTTT	42390
8765	TCAACACACATGGGGTTGCAT	20423	CCTTAGTCAATGCAATGGGAAAGCTA	31407	CCTCTTGAAGATACCTAAATCAACACA	42391
8766	GGACCTAGTCTTATTGGACTGGGAAT	20424	GGAGCTGGTAGAGCCAGAATTCAA	31408	GACTTCTAAGAGCAAGGACCTAGT	42392
8767	CGCCCCGCCCTTATATAGTATTTTCACT	20425	AAGACTGCCAGGTGGAGGTT	31409	CGCGCCCCGCCCTTATATAGT	42393
8768	CTCTGGCCTTTTGTGTTACAGAGTTT	20426	GAAACACCATCCCAACAGATGA	31410	AAGACCTCTGCGCTTTTGTGTTT	42394
8769	TGCTCATTCATCTGGGATTTGGAA	20427	GAGAAGCCTTTTGAATGCTGTTACTGT	31411	GTGGGTTTTCCCATGCTCATTC	42395
8770	CCATCACCTGCAATGCCATTAGT	20428	GTGAGGAGTGTGTTGTGAGCTTTAG	31412	CGGTCTTCCCATCACCTGCAAT	42396
8771	GGCACTGGGGATTACTAGAGGAATAA	20429	CCAACAGGTAGTTTCCAGCTCTT	31413	GGAACAGTAGGCACTGGGGATT	42397
8772	TCTCTCTCAGCCGAGATGTAATTG	20430	GGCAGAGTAGCATTTCTGCAAAC	31414	ACCTCACCGTACTTGTCTCTCT	42398

8773	AGGTGTGTTGGAGAGGAAAAACAA	20431	TTGCAAGCCACTTATCAGGAAGT	31415	GTCATGTCCCTCAGGTGTGTTG	42399
8774	GGCCCCACAAACCTCTTTTCT	20432	GTAAGCTGCTGAACTGATGGTAAG	31416	ACAGAGGACTGGCCCCACAAA	42400
8775	GGCTTGTTGTCACGAAGGGAAA	20433	GCTGGCCACGGAAGAAGAGTT	31417	GTCCATCAGATTGGCTTGTTGTA	42401
8776	GCACAAGACTCAAACTCTGT	20434	TCATCCTCAAGGGTCTTTTTCA	31418	GGCAGCACATTGCACAAGACT	42402
8777	GGCCTCAGATATTTTGGACGCAAT	20435	CCCTCCAGTATCACAGTCTTCTTTTG	31419	GTCTCCAGGGCCTCAGATATT	42403
8778	GCCCTCTAGTTCTCAGTTGACAGA	20436	ACTGAGCACTGACCTGAATGAAT	31420	CTGGCTTGACTTTCTGCCCTCTA	42404
8779	GTCCCAGAACTGGCACAGATCA	20437	CATAGGTACATGCACCTTGGCTAAAG	31421	CCTCTTAAGGCCTTGTCCCAGAAG	42405
8780	AGATGGGAACTAGCCTGGTATGT	20438	CCCTGCAGCCTCATTTCTTACT	31422	AGGCCCCGAGATGGGAACTA	42406
8781	GCCGTGGGATCTTGACTGCAATTT	20439	TGCAGGGCCTGGGTATAACT	31423	TCCTCTTGCCGTGGGATCTT	42407
8782	GTCCCTTCGTTTGTCACTTCT	20440	ACAGAGAGCCAGCGAGATATTTT	31424	GATGGAGTTTGTCCCTCTGTTTG	42408
8783	GGAGCTGAAAAACAATTACTGAACCCGTTA	20441	GCAGCAAATTGCAGAGAACACATC	31425	CCATCAGTGGGAGCTGAAAAACA	42409
8784	GCCTGATCTATTAGAGGAGCAGAGATGT	20442	GGAGGCCATGGAACATGTAGAAC	31426	ACCTGCATCTGTGCCTGATCT	42410
8785	GCCATCTGGGGAAAACTGGAGAAC	20443	GCATAATGGAGAGGGAACTGTGAT	31427	CCTGCTGCCATCTGGGGAAAA	42411
8786	CTGCAAAGGTCAGAGCTGTTTGTG	20444	CCCTAAAGTGCTTCTTTTGTCTAC	31428	TGCCTCTGCAAAGGTCAGA	42412
8787	GAGCTGGCCTTTGTGAGTCTCT	20445	GGAAATCATGTGGCGTCCCTTCT	31429	CCCTCCAAATCTGAGCTGGCCTTT	42413
8788	GTGCTGAAAGCAAGGCGAGAAG	20446	AGACCGTCTCTCTTAATGGAA	31430	TGGGCTGCGAGTGCTGAAA	42414
8789	CTGGAAAAACAGGCAGAGCAAAGA	20447	TCCCTTCGCTGAGCTCCTT	31431	CAGGACCCAAGCTGTCTGGAAA	42415
8790	TCCAGTATACAGAAAGCAGCGTTT	20448	CGACTACTCCCCTGTCTTTC	31432	TTCTGCCCTACCCAGAGCAT	42416
8791	CCAGATATACCGATCACTGGGTATCAGTTC	20449	GCCTCATCCAAAGTCATGCTCCAT	31433	TCATACCCAGATATACCGATCAT	42417
8792	GCAGGCCACCTTCTCATGAAT	20450	GCCAGCTCACAAAATAACTCTGTTC	31434	ACTCAGCAGGCCACCTT	42418
8793	CCTCTCCAACCTTAAACCTTGATTTT	20451	GAAACGTTTTGTGGGGAATTAGGAA	31435	GGGGAAGGTTTATTTCTCTCCAAT	42419
8794	TCCCCAGACTGTGGTGATTTTC	20452	GGTGGCAGGAACTTAAGGCCAAT	31436	ATTCCTGTCTCCAGACTGT	42420
8795	TGGAGGAGAGGAGGTATTTGGTT	20453	GGAGAAACCAAGCACAAAGAGGCTAA	31437	GGCGAGGTGTGTGATCCTTTG	42421
8796	GGACTCTGGGACATTGGGAACTGT	20454	GCAGGGAAGTCCTAGTTGCACTCT	31438	TGAACGAGGACTCTGGGACAT	42422
8797	CCAGATGTTTTGGTCTGTGCAGTA	20455	CGGATTATTAGCAGTTGGGTAAGAA	31439	TTGGAGGCAACAGATGTTTTG	42423
8798	GGCGAGAGTAAGAGCCAGTAAG	20456	GCTTCCTTTCTCTCGGCATTAG	31440	GATGTTGAGATGGCGAGAGT	42424
8799	CCCTTTATCCACTAGATTCTATCCCTACT	20457	GGGATGAATTGCTGGGATGATGTTT	31441	GCCAACCTTCCCTTTATCCACTA	42425
8800	CCTTGCCATATTCGATTCATGCTGTAG	20458	GCATCAGCCAGTAAGAGAACTGAGA	31442	TGAAAGCCTTGCCATATTTCCCAT	42426
8801	CCAGTGAACAAGGTGAGGTGTAG	20459	GTGCCTTGTGACTGGGATACATTC	31443	GGGGTTGAACACTTCCAGTGA	42427
8802	AAAGTCCTGATGAAGTGCTGTT	20460	GAAGGGAGGAAAATGGAGAGGAATC	31444	CTGGCTGATGAAAAGTCCCTGATG	42428
8803	CCAACACCTCAGGCTACCTTCT	20461	TGTTATCCCCAGGTTCCAGTCT	31445	GGCTCCTCAAGATTGACTCCAACA	42429
8804	AGTTGCCCTGAATTCTTGTTGA	20462	CTTTGGATACAGAACCCCACTTC	31446	CACCTGCTTTTCTATAGTTGCCCTGAA	42430
8805	GCTATCAAAGGCCTGACAACAAG	20463	AGCAAGGAAATGTGGCTCAAAAG	31447	CAAACTGAGGCCAAAGCTATCAAAG	42431
8806	TGGCCTAAGGAGGGGTGAATC	20464	CCAGCACAGTAGTTTTTGGTCTGCTT	31448	GGGACTACCAGGTGGCCTAA	42432
8807	GCCCTGCTTAGATCCACTTTGT	20465	GCAAGGGTCCATCTCAAGAACACAT	31449	CCTCCTCTGCCCTGCTTAGAT	42433
8808	GCTGGTACAGCTGATAGAGAGACTA	20466	CCCCTATCCAGCAGGAATGGTTTC	31450	GGACTAGGTGGTATGTAGCTGGTA	42434
8809	GGTGTCAAACACTCACTCTGTCA	20467	GGGGAAGTTTCTTTACTAGTGCCATT	31451	CTCTCTACCAAGGTGTCAAAACT	42435
8810	CAGGGGTTTGTGATCCATTTTGA	20468	CCCGATGAGAGCCAAAGACTGA	31452	GAGTAACTCAAAGACAGGGGTTTGT	42436
8811	AGGGAGGATCACAGGAAGAAA	20469	CTGGACTCCATACCACTGAACTGATG	31453	CCTCTCTAGAAAGGGAGGATCA	42437
8812	AGGGCCGTGACACTTGCTCTA	20470	GGGCAAGACGTGGAAGTGAGA	31454	TCTAATGGAGGGCCGTGACA	42438
8813	GCAGAGCTAATGTTTTGGGCAAT	20471	GCAGAGAATGTTTTATGCTGGGATT	31455	CCTAACAACAACCTGCAGAGCTA	42439
8814	CCTGGTTCAACAGTTCAATGCTGCT	20472	GGCCAAAGGCAATCTCAGAGAAG	31456	TCAGGCTGGTTTCAACAGTTT	42440
8815	GCCTTTGCCTAAGACAGAGAGAAC	20473	CCTGCAGTAGCCAGTTGAACCTA	31457	TGGGCTGCCTTTGCCTAAGA	42441
8816	GTCTCTGTGTTCAGAAGGTAGTTTGACT	20474	GTGCCCTTTGTGTGAGAGCAA	31458	GGCAAAACAGTTAAGTCTCTGTGTTCA	42442
8817	GGCTTTGAGCAGCTTTGATGAAG	20475	GCATTTGTGGCTGACCATAGATAAG	31459	GTGTGACTGAGCAGGCTTTGA	42443
8818	GCAGTGAAGCCAGGTCTCTAA	20476	AGCTGCAGAGTTGGGGTTTC	31460	AGGCAGCCCCAGGCAGTGAA	42444
8819	GGAACAGCCACCTATATATCCAGATT	20477	TGCCAAACCCCAAGTAGCTTTAAT	31461	GGGAGGAACAGCCCACTAT	42445
8820	GCTAACTCTTGCTTCGACAAGAAAC	20478	AGACAGCTCCCTACGAGCAA	31462	TTCTGGCCTGGGCTAACTCT	42446
8821	GGACAGACGTAGAGCCAGAATAC	20479	GCCTCTGCCGGGTAAAAGTCA	31463	TGGCAGGAAGGACAGACGTAGA	42447
8822	GCAAAGACAGTGGTGAAGGATGA	20480	CCATCACCATCGTAGCTGACA	31464	GCCTTAGGGGCACAGCAAA	42448
8823	CCCAAGAAGGCACAGAACCAAA	20481	GCTCAACAACATATCCAGTTTCATCTAAAG	31465	GGAGCATCTGTACAGACCCAAGAA	42449
8824	ATCTACCTACTGGGGAGCTA	20482	GGGTCTCTGGACACTGTTTCTTC	31466	GCCAAAGCTTAATCTACCTACT	42450
8825	TGTACAGTCCAGTTGCTGAATAAC	20483	CAAGTGCCACTGATGCTTTACAA	31467	TCAGTCATTTGTACAGTCCAGTT	42451
8826	CCCTGTTTGCACTCTGCCATCT	20484	GGAAAAGACTGGAACAAGACTACTGA	31468	CCATTACTTCCCCTTCCCCTGTTTG	42452
8827	GGCCACAGAAGGGAGAAAAGAGT	20485	TGATTGCCCTTAAGTGACATGAAGT	31469	TATGGCCAGGGCCACAGAA	42453
8828	GCTGCTGGTATTATTACAGGTTACATTG	20486	CCCTCCCTGACACCTTACT	31470	TCAGTTGTGTGCTGCTGGTAT	42454
8829	GAGCAACTCTAGCTCAAAGCAACA	20487	GTCTGGATGAGGGGAATGAGTT	31471	TGTGTAACACGCCAGAGCAA	42455
8830	CGTGAAGGACATTTCTTCTGTCAT	20488	CTGAATAGACCTATCTTGCCACACA	31472	GGACTATGGAGACGTGAAGGACATT	42456
8831	GGTGGCTGTTTAGGAGAGAGTTAG	20489	GTCTTGGATCAGCTAAGGCATGT	31473	CTGACATTTTACTCAAGGTGGCTGTTTAG	42457
8832	CTGTGAGTCGGCTTGTCTTCTCA	20490	GCTGAGAATGTGCTTAGGCTACA	31474	CCACGGACAGCCAAAAGACTGT	42458
8833	CAGCCACTGGAAAGTGAGAGGATA	20491	TGATGGCCCCATCTGTGAGTCT	31475	GACAAACCAAGCCACTGGAAAG	42459
8834	CCTTAGAGGTAACAGCAACTGAGA	20492	CAGTGTGTCATGGGACTTTCTTCATC	31476	GCAGCCTCTAGACCTTAGAGGTAAG	42460
8835	GCCCACTAGAACCTTTCACAATC	20493	CAACACACAAGGGGTGGAGTTG	31477	TCTGAGCCTGAAGCCCACTA	42461
8836	GGGTATGGGACCCAGTGTGATCT	20494	GCTGGGAGACTGTGGGTGAGA	31478	GCTTAGGTCTCAGCAAGGGTATG	42462
8837	TCCTGTTCAACATCTCTCCAA	20495	CTGGACAGGCTAAATAATGGTGGAATC	31479	GCCCACTTCTTGAGTGATGA	42463

8838	GTGGACTTGATTTTAAAGGACACCAACA	20496	GGGCCACTTTGTACGTGGCTAT	31480	GGCCAAAGTGAGTGGACTTGA	42464
8839	TCTCATCTCAGTGGCTCACATTTATC	20497	TGGACTTAGGGTACCATCTACTCTTG	31481	GGGTAAAAGTGAGTCTCATCTCAGT	42465
8840	GGATTTTAGCTGTGAGGAGACAACA	20498	TCCTCTAACACCTGTGCCATTTG	31482	CCCATGTGAAAGTGGGATTTTAGCTGTCA	42466
8841	AGCCCCTCCTACCACAGCTAAC	20499	CAGATGGAGGACAAAGCCTCAGA	31483	AGAAGCCATTAAAGCCCTCCTA	42467
8842	CCCAAGCAAGAGATTATCAATGCTTCA	20500	ACCAACCTCCTTAAAGGAAAGGAT	31484	CCTTACTCAATTTACCCAAGCAAGAGA	42468
8843	GCAGCAATTGGTAACAAGGTGCATA	20501	GTGGCAAGCCAGGACAACGTGA	31485	GCTTGGAAAAGCAGCAATTGGTAA	42469
8844	GGAAACCAAGTTCAGAAAAGGGAGGAAA	20502	AAAGGAATATGGGTTCTTGGCTACA	31486	CCTAGCAACAGGAAACCAAGTTCAGA	42470
8845	GAAGCAAGACACCTTCACAAGACA	20503	TGGTAGTTCCTCTCGCTTCAT	31487	GGTAAAGAGGAAGCAAGACACCTT	42471
8846	GAGTCTTAGGGCCTTGAGTGAACA	20504	CCATTACCTAGTTGTAACCAATACCTGACT	31488	GCCACCTGCTGATTGTAGAGTCTTAG	42472
8847	GCCTCAGCAAGTCTGCTCTT	20505	CTGCCAGCACGGCTAAAATG	31489	GAAGACCAGAAGCCTCAGCAA	42473
8848	GGGGCTTCTAGAGCCACTTTAC	20506	GGAGCATAAACTCCAGGCACCTTC	31490	CAGCTGGCTTGGGGCTTCTA	42474
8849	GGTGGTGAAGGAGCTTCTTAAG	20507	CTCCTAGCTCTTTAATCCTTTCACTGT	31491	CCACTGTAGTCTGGGTGGTGAAG	42475
8850	TTCTAGGGCCCTCACTTATTATCCTA	20508	GGCTGATAACGGGTGATTATACAAC	31492	GCCTACATTTCTAGGGCCCTCACT	42476
8851	TGCTGTGCCCAACTTTGCTGTT	20509	TTCCCCGAAGCCACAGTCTA	31493	TGGAGTGCTTAGGGGAGGATTG	42477
8852	ACAAGGCCACCCAGGAACCTA	20510	TGGGCTCACGGCAAGTTCA	31494	AGGGAGGAGAAAAGGCTGAAGA	42478
8853	CCCAAGAAATCTGCTAGGACCTAAAAAC	20511	TGCATGCACCTGCTGTGA	31495	GCTGCTGTCCCTAACCCAAGAA	42479
8854	TGAAGACCCCAAGAGCCTACT	20512	TGTACCTAGGTACCAGCTCATC	31496	AGCCTAGGCCTGGACTTGAAGA	42480
8855	GGTGGGACAAAAGCCAGATCACA	20513	TCCACTCTCACCTCTCTCTTCA	31497	CAGCAGAGTGGTGGGACAAA	42481
8856	GAGACAAAACTGCAAGCCAGTGA	20514	GGGAGGCTCGAGTGGCTTATG	31498	AACACCAGGCCAGAGAGACA	42482
8857	TCCATACAGCTGGCCACAGA	20515	CACGTGTAATGACAGGGACACATC	31499	CAGTCAGCAAGTCCCTCCATACA	42483
8858	CACAACGTGCTATGCTAGGGGTAT	20516	GCTGGGAGGGTACACAGTGAT	31500	GGCTGCTTTTCTTGACACAAC	42484
8859	GCTACAGGCAGTGAATTCGTGATG	20517	CTGGAAGGAGGAAAAATGACATAGGAT	31501	ATCAACGCTACAGGCAGTGAA	42485
8860	GGTCATGCTACTGTCTAAGGTGCAA	20518	ACCTAAGAAAAGCAGAGGAAACAGT	31502	GCTCTATCCACTGTGTCATGTCTA	42486
8861	CTGAAGTGAAGTATGTTGGAGTCA	20519	TGCCCCAGCTAGTGGAAGT	31503	CCAGGTGGAGTCTGAAGTGAAGTAT	42487
8862	GGTCATGCCAGTGATTACAATGGAGTAA	20520	CACCAATATGCGCTAGCCTAAGAAG	31504	GAATCTGTCATGCCAGTGATTACA	42488
8863	ACTGGGTCAACTGAAGGGTAGA	20521	GTGCCACTAGGGTGAATTTATCATGTTC	31505	CCTGTGCTAGGTACTGGGTCAAC	42489
8864	GCAACATGGAAGTCAGGTAATCTTG	20522	TTGCTCCACAGTCCATTG	31506	AGTGGAACTTAGCAACATGGAAGT	42490
8865	GGCCTCAGCTTCCACTTTTCAA	20523	ATCTGTTCCACGAGATGTTGATGA	31507	TGGGGATGGCCTCAGCTT	42491
8866	TGCCCTTACCCTACCAA	20524	CTCACAGCCAGTGCAAGT	31508	CTCAGTAATGGTGGATGCCCTTCA	42492
8867	CCACTAGACAGTCATCTGGATT	20525	GTGCCTTACCCTCATCTGACAA	31509	CTCATGGGGTATCTCAACCACTAGA	42493
8868	GTGCCTTACTCTCACCTCAGTCA	20526	GTCTAAGGTGTGAGCAGGATGTTG	31510	TGGGGAATATGTGCCTTACTCTCA	42494
8869	GCTGCTTGGATGACTCAGCTGTTTT	20527	CTGCTTCTGTTTGCACTCTCCAA	31511	GGCCACCATCTTTGCTGCTT	42495
8870	CCCCAGTTTTTATGCCAATAC	20528	GGGTGGAAGTTTTGAGATTATCTGGTT	31512	CCTTCTGTGGCCCCAGTTTTT	42496
8871	CCAGAGGAAAGAATGTGTGGTCCAT	20529	ACCCATTTGTTCCCAAGTTGTTG	31513	TCCTTGTCTCCAGAGGAAAGAATTG	42497
8872	GGCATTGTTCCACAGAAAGCAAGT	20530	GGTGGTGGGGTGCAGTAAATAGTCA	31514	GGTGGTCACTGTGGCATTGTTT	42498
8873	GAAATTTAAGCGGCATGGGTTGA	20531	TGGATACCTTTTCGGTGACATCT	31515	TCTGTGGGGCAGACAACATAGA	42499
8874	GCCTGTACTAGTCTTCCACGGAA	20532	CTCCACAAGTGGGAGAAACACATGAT	31516	CAGTGTATGCTGATGGCTGTACT	42500
8875	GGTCAGAAATACCCCATCTGTGATGA	20533	TCACATAGCGCAGAGGTAGAAATG	31517	TCAGCACCACAATTTGGTCAGAA	42501
8876	GGCGCTAATCTCCATGCATTTTACT	20534	AGCTACCTAAACCAAGTGCAA	31518	CCTATTTCCACATGGCGCTAATCT	42502
8877	TGTGGTCAAGGATGGTGAGATTG	20535	CAGGAGCTCTCCCACTGATCTTG	31519	CTGTACCACCTCTTGTGGTCAA	42503
8878	ACTTACCAAGGATAAACCTACCAAGA	20536	GGTGTGTTGCTAAAGGCTCACA	31520	TGGCTCAACTTACCAAGGATAAAC	42504
8879	CTTCTCTCTGGGGCCTACTTT	20537	CCAGAGTCTTTTTCCCAACAGAT	31521	CAGGGCTCCAATCTCTTCTCT	42505
8880	CCACCTGACTTTCTTAGGAGCACAA	20538	GCAGAGAGTACAAATAGCAGTAAGCAGTT	31522	ACAAGAACCTCCCACCTGACT	42506
8881	GGGAGGAACCAAGGTGGACAAG	20539	GACTCCCTGTGACCTGGAACAGAT	31523	TTGGGGTGGGAGGAACCAA	42507
8882	TGCCAGTGTGAATCTTACCAAGT	20540	CTGATCCAGCTCGCAGAGTCTA	31524	CTCGCATCTTTTCTGCCAGTGT	42508
8883	GGCCTGCCATCTCCTTTATGT	20541	CATGATCGTTGAAGTGTAGCAGGATCT	31525	GTGTTATGGCTGCCCCATCT	42509
8884	CTGCCTGTGTTTCTAGGCTCTTC	20542	GGCTTAGCAATTTCCACTCGGATT	31526	GGCAATTTTCTGCTGTGTTTCT	42510
8885	CTGAGGAGCTAGGTAGCAGAAATAG	20543	CAGTGGAGAAGTGGGGTCTCATAG	31527	CCTATGCATCTGGAGGAGCTAGGTA	42511
8886	GGGCTGGGTGTGGGGATATAA	20544	TGAGTCTCTTGACGACAGGAAT	31528	TGGAGAATGGGCTGGGTGTTG	42512
8887	CAGAGTGAAGACCTTTTGACTATGATTG	20545	TGTCTGGCCTCCTGTCCAT	31529	GCCTCAGAGTGAAGACCTCTTTGA	42513
8888	CTTCCCTAGATAGCTGGCTTGG	20546	GTGCCTCTGAAGCAAGAGACTTC	31530	CTTACCTGCCTTCTTCCCTAGA	42514
8889	CCCAAGTAAACCCACTAATTTACACTTG	20547	CCCCAAAAGGCTTACACAGTTAAA	31531	AAGGGCTGTGTTTCCCAAGT	42515
8890	CCCTACACAATGGATGAGTGACTGGAT	20548	CCAGAACAGGCATTGACAACTATG	31532	GCTCACAACCTACACAATGGAT	42516
8891	ACCAGGAGAGTGTGATGTTATGGAT	20549	GCTGTAGACCTTATGCTTCTGTAT	31533	GGGTGAGAACCAGGAGAGTGTGA	42517
8892	GGCTCAGACCATGTGATTTCTTCCAT	20550	CCTTCACACAACAGGAGAGGCATT	31534	TGACTAAAACAGGCTCAGACCAAT	42518
8893	GGCCAAGACAGTCTACTCATGTGT	20551	CTCCTCAGTGCAGCTATGTCA	31535	GGACAAGGGCCAAGACAGTCTAC	42519
8894	CTCTCTTCTCCCATATACAAGTGAAT	20552	GAAGGATTTGAACGCATTTAGGAGGTA	31536	GTCATCCACGGATCTCTCTCTTC	42520
8895	GAGTGGATGACACGCAATGCAA	20553	GGGATGTTTTAGGGAAGTGTCAA	31537	GCGAGTCTGTTGTGAGTGGATGA	42521
8896	GTCTACCCAGAGATTATTTCCCTCATCT	20554	GGTTGGCTGCATTGCTCAA	31538	CCCTACTTGTAAAGTCTACCCAGAGAT	42522
8897	GCTCAAGGGGAGGGGAATGTA	20555	AGGGTGGCCCTCATGATTTCT	31539	ACATGTCTGCAATGCTCAA	42523
8898	GGAGCTGCTGTACAGAGGGCTTT	20556	CTGCTTTGATTTGGGAACAGATGGTCTA	31540	GGGGATTTTGTGGGAGCTGGTTAC	42524
8899	CCCTTGTGGGTGTATGAGGGAAGT	20557	GAGAGAGAAGGTTGAGGGGTGAGA	31541	CCCATATTTGACCCCTTGTGGGTGTA	42525
8900	GAGGCAAGAGAGTGAGGCTTTT	20558	GGGGTAGCCTGTAACCAAGTATG	31542	TGATCAGCCTTGAGGCAAGAGA	42526
8901	GTTTGTGTAGACACCTCTGCTT	20559	CTGCTTTTCTTCTGGAGTCTGGAAT	31543	GGGGTTTGATTCAGTCTGTTGTGTAG	42527
8902	GGAGCCAGACAGGTAAGAAGTAAA	20560	TGGTTTGCTCTTTTGGTGGTT	31544	ATGCCTACTGGAGCCAGACA	42528

8903	CAGCCTTCTGAACTGAACAGACA	20561	CTCAAAGTGTAGCTGTCTGGTTTTC	31545	GCATAGCAGCCTTCTGAACT	42529
8904	GCCAGGACTCAAGTGGGAAGAGAAG	20562	GCCCCACAAGTCTCATCCCTCTCA	31546	ACAGTGCAGCCAGGACTCAA	42530
8905	GTTGGCTTGAACCTGGGATTGA	20563	GCTCTATGCCCAGGCCAGATT	31547	GAGGTGGGTAGTTGGCTTGAAC	42531
8906	TCCCTTTGGCTCTCACCAT	20564	GGCAACAGAAATTGCTTCTGGTAA	31548	GTGATATGTGCCCTTCCCCTTTG	42532
8907	GAGAGCCATTGCCCATCTGT	20565	GGAGAGTCCACCAAAAGATAAGTGT	31549	AGCACCAGAAGAGAGCCATTG	42533
8908	ACCGAAAGACAGAGTTTGTGAGAT	20566	GGTTTGGCCTATGTTGGGTCTT	31550	AACATACCAACCGAAAGACAGAT	42534
8909	TCTCCGTCCCTCCCTCTCAAA	20567	GGATATGAAAGTTACAGACAGCAATC	31551	TAGCCCATGGCTCTGTCTCT	42535
8910	AGCAACCCAGCTAGTTCTGAAAA	20568	TCTGGTGCCTTCCATAAGACTAGA	31552	GCTCCCATAGCAACCCAGCTA	42536
8911	CCTCTGGTTTGCCCTAAATTCT	20569	GGCTTAGGCCACAAAGTGTCTT	31553	GCAGTTTTCTTCTACCTCTGGTTG	42537
8912	GCTAGAAACTGTGAGGCTTGAGT	20570	TCCTCTCCCTCAATTCCAACCAT	31554	TGGAGTTAAAAGGGCTAGAACTGT	42538
8913	GTCCGTGCTTTATCCAGATCCAA	20571	GGTGTGTGGTGGCTGGAAGTTA	31555	CCTGTAGTGGGTAAATGTCCGTGCTT	42539
8914	CTGGACCCCTTCTAGCATCTTCTCT	20572	CCATGGAGGTGGGCTTCTCA	31556	GTCAGCTCACTGGACCCCTTCT	42540
8915	CCACCAAGCATTCCCTGCAAGT	20573	AGACAGGCAGGCCTTGAACCT	31557	CCACTCTCTCCACCAAGCATTCT	42541
8916	CGTAGAATGTCTTGTATGGTGAGAGT	20574	GGTGAATCTAGCCTAAGTTGACTGA	31558	GCCTATGGGATTAGTTTGAACGTAGA	42542
8917	GGAGGTGAAGACTGAGGCACAA	20575	CCAAGCTCCAAGTACAAAGCTCAA	31559	TGCTATGACTTGGAGGTGAAGACT	42543
8918	TCCACCCCTCTGCACCTTTCT	20576	GGATCTGTGGCTCAAGCTCAGT	31560	AGGCTGAGTTCACCCCTCTTG	42544
8919	GTTTTGAAAAATGCAGCACTCAAG	20577	AACACAGCCCAAAGTGAGAAAAATG	31561	GCAGGTAATGGGTGGTTTTGGAA	42545
8920	TTTCTCTACCAACCAAGAAAGCAT	20578	TCTAAGGGCATCACTTGAACCTTAC	31562	GTGTAACCTGCGCCCTTCTCTAC	42546
8921	CCAGGAAGTGTGAAGTGAAGTGA	20579	TCTCTGCTCTGCCCATGTCTA	31563	GGACTGTCAACCAGGAAGTGTG	42547
8922	GGGAAATCCAAGCCCAGAGGTT	20580	AGCCCTTAGGCAGTAGCCTGT	31564	GCACAGGAGACAAGCTGGGAAATC	42548
8923	GGGGATAACCCAAAGCTATTGTCAT	20581	CCTCATGCTGGCCCATTTAGT	31565	GGAAACAAAGAGGGGATAACCCAAAG	42549
8924	CCTTGATCTGCATCCCTTAGA	20582	TGTAACATGCCTCTGTATAGCAA	31566	GAGCACATTCCTTGCATCT	42550
8925	CAGATGTTGCAGGCACCTCTCA	20583	ACTGGCTTGAATTCAGGGCTTTA	31567	CGGAAGCAGAGGCATTTTCAGA	42551
8926	GGGGTTGGGAAATATCCTGCTT	20584	TGCTGTGGTTTATGAATCCATGTTT	31568	ACCTGTGAAGGGGTGGGGAAA	42552
8927	GGGAGGTAGCATTGAACTAAGTCTTG	20585	CTTGACCTTCCAAACCCCTATC	31569	CCCTCAAAGTGGGAGGTAGCAT	42553
8928	GCCACTCAAGCTAATCCTGAAATTGGAA	20586	GGGTCACAGAGGCAGTGATGAT	31570	GCTCAGTCAGCCACTCAAGCTA	42554
8929	TGTCCTTTCTACCATGAATGAAAC	20587	TGAGACTGGTAAGCTATGGACTCT	31571	CAAGTCATGGTCTTGTCTTTCTTA	42555
8930	GCATAGCATGAGAAATACCTTGCACTT	20588	CCTGGCTAGTAGGCACCTAAAC	31572	CTGCCTGCATAGCATGAGAAATAC	42556
8931	GGGAAAGTGTACCACGATTTGTTTCA	20589	TGTCCCACAGAGGACAGCTT	31573	CCACAGGAAAGTGTACCACGAT	42557
8932	CAGGGAACATAGTCAATGCCTGAGTTAAT	20590	CCTGACTGATTGTGTATGTGGTCTT	31574	TGAGTCAATCCAGGGAACATAGTCA	42558
8933	CAGCTCCTTTGCCACAGCATA	20591	GGACCCACCATAGTCAGAACTAAGA	31575	ATGTGGTCTCAGCTCCTTTG	42559
8934	GGGGCCAAATGTCTAATTGTTCA	20592	TGGACAGAATGGTATGGCAATTTCA	31576	CCCTGTTTTAATGGGGCCAAATG	42560
8935	ACTTTACTCTGTCTCACCCTAGT	20593	GACTGGAGCACAGGTACTTTACA	31577	TTGTCCACTTCAGCACTTTACTCT	42561
8936	GAGCAAGAATTACTGCCTCCAGATA	20594	GTGCAGACAAGTCTACTGAGTAATTC	31578	CTCAAGACGCCAAGAGCAAGA	42562
8937	CCTGAAAGCTGCTAGTGGAATGTTG	20595	GGATCTGTGTCAGAGCTTTCTTTG	31579	CAGGGTGACCTGAAAGCTGCTA	42563
8938	CCCTCCCTTGCAATTTGATATAGTCTAAG	20596	TTACTTCCACTTACATTCCTGTGACA	31580	TTACCCCTCCCTTGCAATTTGA	42564
8939	GGACATTGTGATTGACCGAACCTA	20597	GAGCAACTGGTAGCCACTAATTTCTT	31581	CCCAAAAGAAAGCCTAGGACATTGTGA	42565
8940	CTGTTGGGAGGGAGTTGGATGAA	20598	GGAGGAGATCTGAAATAGGAAAGACAGTCA	31582	ACAGCCCTAGATGGCCCTGTT	42566
8941	GTTACGCTCGGTGAAGAATGTTTAAG	20599	GGAGAAGTCCAGGAGTCCAGTTG	31583	CTCCAAGTACGCTCGGTGAAG	42567
8942	CTGTTTTCTGCGCCCATCT	20600	GAGCAGTGACGCCTCCATTT	31584	CCCTGCTGCAATGCTGTTT	42568
8943	TGTAACAAACATGGACAGAACAGT	20601	GGGAGCTCTGTTTTCACTGTGTTA	31585	GGTCAGCTTGAGCTGTAAACAAACA	42569
8944	CTGAGGCTTTCTGACTCCAGAAT	20602	CATGGGACAAGTACAGTACAGACA	31586	CCAGAACTGGAACTGAGGCTTTT	42570
8945	GGTGCTGCTGCATAGCATAGTAG	20603	CTTCTAATGCAGGGGTTTTGTCTT	31587	AGAACGGTGCCTGCTGCATA	42571
8946	GGTCTGTGATCTCTGACTACTCTA	20604	AGTGGGGTAAAACCTGTGTTTCT	31588	TGGAGGGTCTGCTTGATCTCT	42572
8947	GTTGTGATGTAAAGGGCTAATGGATA	20605	GGTTGAGAGACAAGCCTTAGCAT	31589	TCACCTGGGAGTAAAGTTGTGATG	42573
8948	CAGAGGGCTTAGCTCACTTCGTT	20606	CTCCATTTCAACTCAATTTCAACCTTAAG	31590	GCCAGAGAGAGAAGATTTTCAGA	42574
8949	GGCTCAAGCAATCTTCTGTCT	20607	GGCATCCATCTGTACTCCAGCTAT	31591	CAGTTCTGGGCTCAAGCAATC	42575
8950	GTTTCTGCTTTCAATGTCCAGACTTC	20608	GGTGATTGACACACTGAGGATCCAA	31592	GGTATGGCATCAGTTTCTGCTTTCA	42576
8951	TCCCCACAATCTCCCTGGTACT	20609	CCCCACCACCCGATTAAATAATAC	31593	GCTACAAATAGTTTTCCCAACATCT	42577
8952	GCTTCCAGTGTGGGGATGTGA	20610	CCAACACAGGGAAAGGTTAAGTGA	31594	CAGGATTGCATGCTTCCAGTGT	42578
8953	GCTCCATTTTCTGAGCTGGAAAAAGTTT	20611	GCAAAACAGGAACACCTGTTGTCT	31595	GCTTGAATGACCTGCTCCATTTTC	42579
8954	GAGTGAGAGAATCCAAGAGGACAAG	20612	GTCTGTCTCAAACCTTCTCTGT	31596	GGCCAAGGGAGTGAGAGAATCCAA	42580
8955	CCACCAACAGAGGACATCAGAACT	20613	CACAACACAGGCTAAGAAAACCTAATG	31597	GGCAATGAAGAATACCACCAACAGA	42581
8956	GGTGGGACATCATTTCTGACCAAGTAG	20614	GGAGTTGGCAGGAGCATCAGA	31598	GACATGACCTGGTGGGACATCA	42582
8957	CGCTTCATCCCATTTGGCCTACA	20615	GGGACCTTTTGAGGCTTGCAGTTC	31599	ATGCTGGGAGCGCTTTCATC	42583
8958	GTATTGACAGGTCTTCTGCCTTCTA	20616	CATGGGGCAAGTGAATGAGCTGTAG	31600	GGCCTTCAAGTATTGACAGGCTTCT	42584
8959	TGCTTATGGTCCCAGCTCTTG	20617	AGCACAAAGCACTTGGTCAGA	31601	CAGACAGAGGGAGGTGCTTATG	42585
8960	GACTGACAGGCAGAAATACCTGTGT	20618	CCACAGACCTGACCCAATGATG	31602	AGGTGGACTGACAGGCAGAA	42586
8961	CTGAACCCCTGCTCTACACTTAAGAAG	20619	GGAAGTTAACTGGGAGAGGCAATAG	31603	ACTACTGAACCCCTGCTCTACA	42587
8962	GCAGATGGACTACCATGCTTGT	20620	GCCCATGTTGAGATAATGGCTACCTT	31604	GGGGCCAGATCTGCAATTG	42588
8963	GGAAGCATGACAGCAGGACTGTA	20621	AGGATGGGCAAGCTAGAAGTCAA	31605	GAGTGAAGTCCATGCTGCAAGGAA	42589
8964	AGGATCCTGCTAGGTGCTGAAT	20622	CATTGCTTGACCCCACTAAGA	31606	CCTGGAGTGTAGGGCTGTAGGAT	42590
8965	GCAAAAACGAATCATGCCCAAAAC	20623	GGGGAGGCAATGAAGAAAAGCCTAA	31607	GCCCATCTCAGCCTAGCAAA	42591
8966	CGGGGACCAAAATTACAGGGACAA	20624	TGCCCAATGTCCAATGTCTTGA	31608	AGATGGAGTAACGGGGACCAA	42592
8967	CCGGGAGGGTCTTAGAGTTTGT	20625	GAGTGTGCTTCTTGGCTGTCA	31609	ATGGTGGCCGGGAGGGTCTT	42593

8968	CCCCTGCTTCATGGGCTCAAA	20626	TGAAAGGCATGCAACAGTCTTC	31610	TGGGTACTGCCCTGCTTCAT	42594
8969	ACCACATCCCAGCTCACAGA	20627	GGTGGGAGCTCTCTTTAACTTTTC	31611	GACCACACACTCTACACCACAT	42595
8970	GGGCATTAATGAGCACATTCCTTTTC	20628	GCTTCCAACGTCCTATCTTAGTGT	31612	GGCCCCAGTAAAAACAGTGGGCATT	42596
8971	GTGTGGCTGAGCTCAATGAGAAG	20629	GCCATTGACATGTCTGGCTGAAG	31613	GCTGGGCAAGTCTAGTTGTT	42597
8972	GCCTCTGATTCTAATCCCACTATTAC	20630	GCCTTTGACTTTGGTGTGAACCTA	31614	AGGGGATCGCCTCTGATTCT	42598
8973	GGCTACTGGTCTCAGACAAAGATAC	20631	CTGGTGAGCTATTTTCCACTGGATATG	31615	ACAGGGTGGCTACTGGTCTCA	42599
8974	GCCTGAAGGTGAGACAATCAGAAA	20632	TGAAAAAGTGGCCTCTAGTGTGT	31616	GCTTAACTTTGCCTGAAGGTGAGA	42600
8975	AGTGGGGTATGCCTGCAGTTG	20633	GGGAGAGAGAGTTTGTGTCTGTTT	31617	AAAGCAGACTCAGTGGGGTATG	42601
8976	GTGTGGACTCGAAGAGGATTGTTGA	20634	CCACTACCAGCAGGCAACCTT	31618	CACCATGTGTGTGGACTCGAA	42602
8977	GAGCACGATCCTGAAACAGGTTA	20635	CCTGGAATAAACTTTGCCAGACA	31619	GCAGGTGACATTTGAGCACGAT	42603
8978	AGTCAGTCTGCCCCAGCAGTA	20636	CTCAATCCTGGAGTACAATTTCTGTCT	31620	CTACCAAGGCATAAAGTCAGTCT	42604
8979	CCACCTGGCAAAATGCAGTTAAAGT	20637	AATCTGCTCCTTCTCTGGTCTTC	31621	TGGACTCCACCTGGCAAAATG	42605
8980	GGGGTAATAGGGCTTAGGAGGAACA	20638	GACACTCAAAAGGCTAAGGGCTAAC	31622	CCAGGAAGGGGTAATAGGGCTTA	42606
8981	ACAGGGCTGAGACAGCACAT	20639	CACAGTGGACAGCTAGCTCAGA	31623	AAGGGGAACACAGGGCTGAGA	42607
8982	CACTGCTAGTACAGTTGTAAATTGGTATG	20640	GAAATGGTGCTAACTTGCTCTCAA	31624	CTCATCTAGTCTAGTACAGGTTGT	42608
8983	GGTGTCTGACTCCAACACTGAAAC	20641	GGCTGCCCTGTCAATGATGA	31625	CTTGTTAGGTGCTGACTCCAA	42609
8984	CTTGGCTGCTGATTGGAATTGTT	20642	GGGTGAGTGCAGATTATGTCATT	31626	GTCCCTACTTGGCTGCTGATT	42610
8985	CCAGCCAGTAAAGCCTTGATGA	20643	CAAGGGAGAAGGTGGGAGACA	31627	CCAAATGGTTTTCCAGCCAGTAAAG	42611
8986	GCTCCTTCATTCCTTGGCAAGTA	20644	AGTCCAAAACCGTGACAAGACA	31628	CAGTGTCAATGAATGGCTCCTT	42612
8987	GGAAGGCATCTGGGGCTCTAAG	20645	ACCGGACTTTGCCAGTCATC	31629	CCTCGAGGGGAAGGCATCT	42613
8988	AGGGCATCCTCGAGCCAAAT	20646	GACACTCTGGTTGCCACATACA	31630	AAGCACCTGTGACTTTGTCTGA	42614
8989	GGATGTATCCAGATGGTGTGAAAG	20647	GTCTCACACACAGCCAAACGTA	31631	GGTTGGAGGAGAGTGTGGATGT	42615
8990	GGGACTAGTGTACCTTCTGGTCTA	20648	GTGGTCATTTGGCCAAGGCTCTA	31632	TGGGGCTGTGGGACTAGTGT	42616
8991	GGACGTGGTTTGCTAAGGTGTT	20649	GTCACACCTTCATTCTCCCATCT	31633	GTGGTGACAGGACGTGGTTT	42617
8992	ACTGTGTCCTTGGCACCTA	20650	GTGGTCAATGTTAGGGGTTCACTCT	31634	ATCCGAACATAACATTCACTGTGT	42618
8993	GGCAGGATCTGCCAGCAAAA	20651	TTTGACAGCGCAGCCTCAGCTT	31635	TCTCTCAGATTGGGCAAGAT	42619
8994	GTCTTCTCTGTCTCTTTGGTA	20652	CCTGGTTAAAGGAAGAGTGAGTCTCAGAA	31636	GCTGCAGTAGTCTTCTCTGTCT	42620
8995	CCCAGACATACCAGTGAGGCTTGA	20653	GGCTAGGAAAAACCACTTCAACA	31637	CCAGGCAACTTCCAGACA	42621
8996	GTTGAAGCCAGATCATGGAAGACT	20654	GCTTACCAATAAAGTCTTCAACCTTAG	31638	CCAAAAGTGGGTGAAGCCAGATCA	42622
8997	TCTGGAAGCAGTACAGCATCTTT	20655	CGAATGTCCCACTCTTATGGTGAA	31639	TGCTGTACATCAGTGATTCT	42623
8998	CAAGATCTCGTGCTATTCGTGTTTTG	20656	CCTTGAATGATGCTAATCCTGAGCGAAA	31640	GTGGCTATTAAATCAAGATCTCTGTGCTA	42624
8999	CCATCTGCCATGATGATTTGTGCT	20657	GGTTTTGTGCTGAGGAACCAAAATG	31641	CTGCCTCCCATTTGGGAGATATA	42625
9000	CGGTGTTTGGGGTCCCATGTAT	20658	CCTAGCAGTAGCAATTACAACCATCT	31642	AAAAGCCCCAGCGGTGTTTTG	42626
9001	GGCTTTGTTAGGACAGACCCAGTTC	20659	GAGGGAAAGGAGCACTAGACTTC	31643	GCACAGCACTGGGCTTTGTT	42627
9002	CCTGGCCCTGATTAGCTGTGGAT	20660	CTGGAGAAAGGACTACATAGCAGAATTAGA	31644	CAGACAGTATTCCTGGCCCTGTA	42628
9003	CCTCAGCCTGGCCTGATAC	20661	TGCAGGCTGGAGCCTGAT	31645	CAGGCTGGTACCTACGGATTGA	42629
9004	GGGGAGAAAAATTCCACCCATAAGATA	20662	GCCTTCTGTGTCAACCATGT	31646	CCTCTTTAGGTTTTGGGAGAAAAACA	42630
9005	GTCAAAGGCAGGAGCCATGAGA	20663	AGCAGTGCAAAACAGACTAAGGTAT	31647	CCCAGCCAGGAACCTTTGTCA	42631
9006	TGTCATATGAGGACACAGTGTGTA	20664	AGATGGTGTCTTGAATGCTGCTT	31648	TTTTGCCCTTCTGTCCCTTATGT	42632
9007	GGACATTATATGTGAGGGAGTGCAA	20665	GGTGTGGGTGTGTGGGATCAA	31649	GCTTGCTCACAGGGTGGACATT	42633
9008	GAGAGGCAGGTGTGAGAAATCATTG	20666	ACGTGGTCAAGGCCATGTGT	31650	TGATCAGAGAGGCAGGTGTGA	42634
9009	CCCATCTTTGTGTGGGAAAGTTAGTGA	20667	GCTGTGGCCAGGGAAAGGTT	31651	GCATCTCAGTCTCCCATCTTTGTGT	42635
9010	GTCCAGCTGTTTATGGAGTCAAC	20668	TCCCTCAGGCCTGGTGAT	31652	CAGGGATTGAGTCCAGCTGTTCA	42636
9011	TCAGGTTAGTGGGTTCCCTTCT	20669	GACCTAGGTCTTGGATGACATT	31653	GGCTTGGTTTTTCACTTCAAGTTAG	42637
9012	CCCTAGCAACACCAAGGAACAAAG	20670	CTGGCAGGCAACAGCAAAATG	31654	GGACATCTCCTTAGCAACACCAA	42638
9013	GGAAAGAATAGTAGGAGTGCTTCTCT	20671	AGTTGGTGGCAGATGCTGAAG	31655	GGAACCTCAGAGCCCTATGGAAAG	42639
9014	TGGCAGAGAAAGTCTGAGAGTAAATG	20672	GGTTGGTGAGGGACAAAGTGATG	31656	CCTTCTATTGGCAGAGAAAGTCTGA	42640
9015	ACCTCTCATAACCTCACTTGACA	20673	GGAAGCCATTTGGGGCTCCTT	31657	GACAGGTGCTTGAATACCCCTCTCA	42641
9016	GGGCAGGTAGCATCTACAGCAA	20674	TGTCTGCTGGGATGTGAA	31658	GTGACTGATGGGCAGGTAGCAT	42642
9017	GGCCAACAGACCAAGAAGTGCTTA	20675	CACAGGGAGGTCTTGACATCA	31659	GGGAGAGGCCAACAGACCAA	42643
9018	CCAGGGAGCTCTAGGATAGAACTGAA	20676	GGGCAACCAACATCCACTCAGA	31660	GCTCCAGGGAGCTCTAGGAT	42644
9019	GGAAGTGGGTCTTGAAGAGATCATGT	20677	GCTCCATCATTAGCGCTTCT	31661	GGGCAAGGAAGTGGGTCTTGA	42645
9020	GCTGCCAGGATGAAACCAGAGA	20678	GGCCTCCTCTGGGTAACCTACT	31662	TGCAGGACTGTGCCAGGAT	42646
9021	GTTTGTGTGTTAATGGGGCGATAG	20679	GGTGTACTGGGGAAGCTAGT	31663	GCTGTGGCAGGTTTGGTGT	42647
9022	GTTCACTGGAAGAACTGATGCAACT	20680	GGATCTGAGTCTTGACAGGTGAT	31664	GCACTCCCAAGTCCAGTCTTAAAG	42648
9023	CCCATCTTTCTGGCTCATTCCATCT	20681	GTCCGGCAATGGTTGAAGTATG	31665	CTTCCACCACTTCCCATCTTTCT	42649
9024	GCTTTAGGACCAAGTTGCTGAATTG	20682	GGCTGCTGGTTTTAATGGAGATGT	31666	CTGGAGTAAATGCTTTAGGACCAAGT	42650
9025	GGGGCTCAACAGGTAAAGTT	20683	GTGTCTCAGGCCAGACTACTCTAA	31667	AGGTAAGAAAAATGGGGCTCAAAACA	42651
9026	CCCAGCAAGCCATGTACAGT	20684	TCCGCTAGTGCTTCACTAGTCT	31668	AGCAACCCCTATCCCCAGCAA	42652
9027	GCCTGAAACAACCAATACCAGGAAA	20685	CTGTTCTAGTGTCTGAAAACTGTTG	31669	CCCTCTGCTGCTGAAACACCAA	42653
9028	CACCTGGAACCTATGGGAAGATG	20686	GCAACGGGCTGCTTCTCTT	31670	GGGTTGTTCAACCTTGGAACTCA	42654
9029	AACCTGCAGAAGCACATCAGT	20687	GCACCATCGACTTTGCACATTG	31671	GAGGGGACTTTAAACCTGCAGAA	42655
9030	CAAGTTAAGTAGTGTAGAAATCGGGAGTAG	20688	GCACCTCTAGCATGCTTTTGTCA	31672	GGTGAAGTCTATGCTGACCAAGTT	42656
9031	CCCAGACCTTATCCTGTAGCTGAATG	20689	GCAGAAGAAAGCACAGGATTGTCATAG	31673	GCTTTAACTTGCTCCAGACCTT	42657
9032	AGGTAGCCTCTGGCATCTGT	20690	CGGGCCTTTAAGGAAACAGGAA	31674	CCATCTACAGACACTAAGGTAGCCTCTT	42658

9033	GGGCCTCAGAAAACACTGGAAC	20691	TGGTGGTGTGGTGGGTCTAT	31675	CCCTCTCTTGGGCTCAGAAAAC	42659
9034	GAAAGGCATAAACCCACAAGCTA	20692	CCACCACAGGCTCCTTTCACT	31676	GACTGATGATGCAAGAAAGGCATAAAC	42660
9035	TGCAAGGTTTCAATCGAGTGAT	20693	GTCCAGAATCCCAAACGTGTCAGA	31677	CCCCAGCTGTATGTTGCAAGGTT	42661
9036	GGAAGAGCTGGATCAGAGGGATGATAA	20694	GGAGGAGCTGCATCCATCTTTTG	31678	CCAGAGGGAAGCAGTTGGGAAGA	42662
9037	CTGGGATAGATGGTGTCCGACTT	20695	CCCTCCTGAAAAATAATGCTTACCCCAT	31679	TTTGAAATGGCAGTGTCTGGGATA	42663
9038	GGCCCTACTGAAACAGGAGAGTT	20696	CCACAGCCCTGTGCGATGT	31680	GCAAACTCTGCGCCCTACTGAAAC	42664
9039	GCCTATCGGCTGGTAGGATGAA	20697	TGGTGTGGTGCTTGGCTCTTC	31681	CACCTGGGCTGGAACATCAA	42665
9040	GCCATACACAAAACAGCACACAATC	20698	CCCCTGCCAAGATTTTAAAGCAA	31682	CAGTGAAGCCAAAAGCCATACACA	42666
9041	GGCGCAGATACAGCGGACTTA	20699	CCATTGCTCTCTTCAGATCCAGTAG	31683	GGCTGTGGGCGCAGATACA	42667
9042	GGGAAGACAGAGATATGTGACCGTTT	20700	CAGGTTGCCATTACAGCTATTTTGA	31684	CAAGAATCCTATCCTGGGAAGACAGA	42668
9043	GGGCAGCTTGAAAGGAATGTGGAA	20701	CCAGTCACAAGTGAGCCTTCTT	31685	TCCACATGGGGCAGCTTGAA	42669
9044	AGCTTGTGTGGCAGGTGTGT	20702	ACACGTGTCAGTCACATCACATA	31686	ACGGGTGTGGAGCTTGTGT	42670
9045	TGTCCCTTTTCTTGGGACTGT	20703	GCAGTACCCATGATTGCTTTTCAAG	31687	CCACAATGTGCTTTGTCCCTTTTC	42671
9046	GCTGTTTCTTCTGGCAACAAAGTTTC	20704	TGAAGCTGGGGACACTGAATTTG	31688	CTGAGGATGGGAAAGCTGTTTCTTCT	42672
9047	GGCCCTCCATTGAAAGTCAAC	20705	GCAAAAGTAGGCCAGTCAAGACA	31689	GTTATCATTCTTTGGCCCTCCATTCT	42673
9048	GCCAGACACCTATTGACTGGA	20706	TGCCAGGCCATCTTGCCTT	31690	GGGGCAATATAGTAGCCAGACA	42674
9049	GCCCATGCACTGATGACTCAA	20707	GATGTGCAGCCTAGGAAAGAAGA	31691	ACCTACTGCCATGCACTGA	42675
9050	CTGATTCAGAGCTTGGGGAGAA	20708	CCAGACCCCTGCTCCAAA	31692	CTGGTCACAGCAACCTGTGATTC	42676
9051	GGGCCCCATTCAGCATTAGAACTCATC	20709	CGAAAGGTAGGCTAGGCCACAA	31693	CTCTGGGCCCCATTCAGCATT	42677
9052	CACAGGAATCCAGAGCCACTATG	20710	GACAAGTATTTAGCTGTAGGGAAGAGA	31694	TGACATTGCCATCTTACAGGAAT	42678
9053	GACTGATTCAATTTGTTCGCCGAGTT	20711	GGGGTGCACTGTGTCTGTGT	31695	GGCAGTTTCATTTAAGGCTGACTGATTC	42679
9054	AGCCCTACCAATGCATTATTC	20712	GGACCAAAAATCTGTTAGGTACTCAGGAA	31696	GCCTGTCCAAGCCCTACCAAT	42680
9055	GAGAAGTTATTGGTCCAAGGTGAT	20713	GATCTGAATTGAAATCCAGCTCTTTC	31697	ACCGAGGTTTCAGAGAGGAGAAAG	42681
9056	CCTGCTTTGGCATGGTCTTG	20714	GGACACCAAAATTTAGGTGAGCATTGACT	31698	GGTCTTGCTTATCCTGCTTTTG	42682
9057	GTCTTGTGGTCCAAGTTCAACTCTT	20715	AGCTAGCTGTGTGGGTGTGT	31699	CCATGTGAGTCTTGTGTGTC	42683
9058	CAAGTGGGCTTTGGGGTCTCT	20716	GGGTCCAACATGCTGTCCAA	31700	CCACAGTGGGTTAGAGCATCAA	42684
9059	AGTTGCTGAACCTAAGCAGCTATTT	20717	CTGCAACATAGTCGGAGGTATAAGAAG	31701	CTGGCATGGATTGTAGTTGCTGAAC	42685
9060	GGGAAACCCACCTAAGTCACTTTC	20718	GGGTACCCGTGTGCTCCATT	31702	CTTCTGGGGAACCCACCTAA	42686
9061	GGCTGGTTTGGTGTTCCTTTC	20719	CCCTCATCATAAGGTGAGCTTT	31703	ATGTAGGGAGGGGCTGTTT	42687
9062	CAGTGAGGGAATTTGCTGTGTAG	20720	GCCACGACACTATGGATGCAA	31704	AGTCCAACAAACAGTGAGGGGAA	42688
9063	GCTGTTAAATCCAGATGACCCAAAC	20721	CGCTCATGGTCACAGTGGTACA	31705	CAGACACCAGGACTTTCTGTGTTA	42689
9064	GGAACATCTGAAGATCATGTGCTTGT	20722	CACAGTAAGACACTCCCTGAGAT	31706	TCATGCCCACTTGGAAACATC	42690
9065	TCTTGTGTAAATGGGTAGGTCTAAT	20723	CATCCTTGCTTCTGTTAGAGACT	31707	GGGAGGTGAGGGTCTTGGTGTA	42691
9066	GAGGCAACCAACCCCTTTTG	20724	AAGGTGAGCAGGGGCGAGAACT	31708	GTGCTTCCAGAGGCAACCAA	42692
9067	CCAGATGTGTTTCTTCTGTGAGCAA	20725	GAGTAGTGTGCTATCAGTACCAA	31709	GCTGCAATTCCAGATGTGTTTCTTCT	42693
9068	TCTGGGATGGGGAAGGATATTAGT	20726	CGCGCCCGGTGATGAGATAAA	31710	GCTCCATTCTGGGATGGGGAAG	42694
9069	CAACCCCTGGCTCTCCTTCCAAA	20727	TCCAAACCACTACCACCCAAGA	31711	GTCTGAAGCTTGGTGCTTACAAC	42695
9070	GTATGGCAACTGAAGACCAAGAGA	20728	GGCACACGAGCATCTGTCTGTA	31712	CGGGGAGTAGACCTGCTGTAT	42696
9071	GACTGGACTTCTACTTCACTGGAAAC	20729	GCCATTGTCTGCTCAGAAAGTGT	31713	GACCTTTGATGGACTGGAATCTAC	42697
9072	TTCGATTGGCCCTGGCTCTA	20730	GCACTAGAGCAGGGCTTTCTTC	31714	CCAATCAGGTCTGTGTTGATTTG	42698
9073	GAACTACCACTGTAGCATCTCAACT	20731	GGGTATACAAAGGTAGTGAGGCATGA	31715	GTGCCATTACAATGAACCTACCAGT	42699
9074	TGGCTGTCTTGAGCCCATATT	20732	CCAGGCCAACAAAGCCAGATT	31716	CGCTGTATGAATGGCTTGCTGA	42700
9075	GTTTGCACTGAGTTGCACATACTT	20733	CTCACCTTGATCAGTCCCATTCT	31717	GGGATAGAGAGTTGCACTGAGTT	42701
9076	GAGGGGAGAAATGGAATCAACTGT	20734	GCCACTGGAACCTCAGAAAGTCAA	31718	GACAAAGGCTAAGAGGGGAGAAATG	42702
9077	CCAGGCTAGAAAGGCTGGTAA	20735	CTCTGGTTCTCTGCAACCAT	31719	AGGGTGGCCAGGCTAGAAA	42703
9078	CATGTAGGCTTCTGTCCCTATAC	20736	TGGGTTATCCAGAAAGGTGGAACA	31720	CCCTTTGTCAGAGCCCAACAT	42704
9079	GGCAAAAGAAAGCAAGATGCCTATG	20737	CCCAGCTCCAGTGGATGAAG	31721	GGGAGGCAAAATCTCTGGCAA	42705
9080	GTCTACCCAGTGTGCACTTTC	20738	CCTGCCCTTGTCACAAATGT	31722	CCAGGGATATGGGCTCTGTCTAC	42706
9081	GCAAGGAAATACACTGTCACTACTCTA	20739	GCACTGGCTAGGACTTCCAGTATG	31723	GGGAAGAAGGCAAGGAAATACACT	42707
9082	GGGCCAAATTTCAAAGTCAGATGGAT	20740	TTTCCCCTATATCTGTGCAAGT	31724	CCAGGACCTAGGGCCAAATTTCA	42708
9083	CAAACCTCTGCTTGGAGAACCTGTTA	20741	GGAAGAAGGCATCCCATTTGAAACA	31725	CGCTTCTTACATTTCAACTCTGCTT	42709
9084	CTGTGAGCTCACGAGTGTGTTT	20742	CACCCAGGTCCCAATATAACATGA	31726	GGACTTTCTAATATGTGTCGGCTCTGT	42710
9085	CCCAGGAAGAAGCAGAGGTAGTTG	20743	CAAGATAAGTGCCATGGTGTCTCA	31727	CTTTAGTAAAACAGCCAGGAAGAAG	42711
9086	GACTTGTCCATAAAATCTCTCTTGAT	20744	AGTTGGCAGAGAAAAGTGTGTTG	31728	GATGTGTGCAGACTTGTGCTCAT	42712
9087	GGGGCAAATTAGGCTGACCTTTG	20745	GTCTGTGAGAAATAAGGCCAACT	31729	CTGGAGGAGAGGGGCAAAATTA	42713
9088	CAGTCTCCTTGGCATTCTGCTACA	20746	ACGAGGCAAGCTTGTGCTGAA	31730	GACTGTGCTAGTCTCTCTTTG	42714
9089	ACACCATAGGTAGGGCTCACA	20747	TCATCCTCCCAACCTGACTGT	31731	GAGTGTGTCTATCCTAACACCATAG	42715
9090	TCTGTTGCCTCAGCTCTTTTCA	20748	TGTCAGAACCTTGTGAGTTGTGA	31732	AGGCTTTTCTCTCCCTCTGTG	42716
9091	ACTTGGAGTTGGTAGGTGTCTTTAG	20749	GACTCAACCATCTGCTGCCTAAATAG	31733	CCACCCCTTACTTGGAGTTGGTA	42717
9092	GCAATGTCGAGAGAAGGTAGTCT	20750	TGCTGGGAGTTAAAGGAAATGT	31734	CTCAGTGAGATGAGTTTGCAATG	42718
9093	GTGGGGAGACTCTAGACTGGAT	20751	CAGGACCAATGATGCCATTT	31735	GGTGACTGAGATGAGTGGGGAGACT	42719
9094	ACCGTGTGCGATGGTCTCT	20752	AGTAGGAGACAGAGGGTTTCTATCAT	31736	TCCTGGTGTGTCCTGTAAC	42720
9095	GAGGAAGAGCAAGATGGCAGAA	20753	AACTTGTGTCTTGTGGGGTTA	31737	CCAGAGACAGGAGGAAGAGCAA	42721
9096	GTCAGAACCAAGTATCACTGAGCTA	20754	GGGGTGGCAATAGGAGCACTTT	31738	CCTCACTGAAGTCAGAACCAAGTA	42722
9097	TCCGAAAAGCATTGTGTTACCTA	20755	CATGCCAAGCTGTGCTGACT	31739	ACAGGTCCGAAAAGCCATTGT	42723

9098	CACTTATCTCTAGGGGTCCAGAAGA	20756	TGCGTGAGTGGGTGCAGAAT	31740	CCTCTGGGGTACACATTATCTCT	42724
9099	CCTGGCCAAACCTGTTACCTA	20757	CTTCTACTGAACCTCTGGAAGGAGAA	31741	CCTGCTGTAAACCTGGGCCAAA	42725
9100	AGGTTCACTGCTCCCACTAGTCT	20758	GCAGTCCATTTTCCACCCAATC	31742	GCTAGGCAAGGGTATGGAGGTTCA	42726
9101	CTCTCTGTAGTACTTTGGCCAACA	20759	GGACCAGGAAAGGAAGTGATAG	31743	TGGGACTGGGCCACAGAACT	42727
9102	CCTCTACACCCTTGAATACTCTCTT	20760	ACATTTGGGATGGACATTGAGAACA	31744	CCCATCCCCACACTCCTCTACA	42728
9103	CACTGATGGTCTTTCTCTGGACCTTT	20761	GGGAAGGGAATCTTAGGCAGAGGAA	31745	CCTGAGCACAACTGATGGTCTT	42729
9104	GGAGCTACAGACCTGGCTCTCTT	20762	CCCCAGTGGAAAGAGAGATATCCAA	31746	TTGGAGGGCCAGGAGCTACAGA	42730
9105	GTGCTTAGAGCTGGATGGCTGAA	20763	TGAACCTTAGGCTGCCTTTATGGAA	31747	CCCAAGGCTATAAGGGGTGCTTAG	42731
9106	TCTGCTCTTTGAGAACTGTTGCTT	20764	GTGGGCTCAGGGAATCATACTAC	31748	CTGAAGACATGTACATCTGCTCTTTGA	42732
9107	GCCCTAACTCCAGGTGACATT	20765	TCAAGGCAATGGGTTTCTCTCT	31749	GGCCCTTTTACAGGCCCTAAC	42733
9108	GCTTAAGGGGAAAGATGGAGCAAAC	20766	GGGCAGAGGTTATGGGTACCTT	31750	CGTCCCTCTGCTTAAGGGGAAA	42734
9109	GCCCTTCAGAGCTGCCATTC	20767	AGCCAGGTCTGGGAGACAAC	31751	TCCCTCCCTGCCCTTCAGA	42735
9110	CGGGCAGCCTTTTCAAAGAAGT	20768	CACGGTGAGGCCATTACT	31752	GTCAATAACATACGGGCAGCCTTT	42736
9111	AGCCAGTCCAGGATAGGCCAAA	20769	AGGCCAAGATCAGCTCCTT	31753	GCTCCTTGGCTGTGTAACCTGTGA	42737
9112	GGGCAGGGTGGGAAAAGTTC	20770	TCGACCCAGGTCCATCACT	31754	CGGAGGTGCGCTCCATAAG	42738
9113	AGCCCGGTAGATATAAATCTCTGATT	20771	GACGCAAAACCAATCCCACTGT	31755	GAGGCTCAAGCCCGGTAAGAT	42739
9114	GGCACCAATGTTTTGAGGTT	20772	TCCCTGACAACTCCTTCTAAGACT	31756	TGAGTCCAGGGCACCAAT	42740
9115	CCCTTTTGGAGTAGCAAGGGTTAC	20773	CTGCCACTTCTGGGATGTGATAA	31757	GGAGAACAATACCTTCCCTTTGGAGTAG	42741
9116	CACCATCCCTTAATGCTCTGTGTA	20774	GCCCTTGCTGTTGGGCTTT	31758	GGAGCTTTAATTGTCTCTACCATCCCTTA	42742
9117	CAAGGCACAAGTGAAAAGCTGGAA	20775	GCCACTGCTGATCTCATCCATT	31759	CGTGCGCAAGGCACAAGTGAA	42743
9118	GGGATGTGTGTTTTGGCAGAAG	20776	GACTCACATCTATTCCTTGGTTACT	31760	GACACAGTGGGATGTGTGGTT	42744
9119	CCATCTTGCTACTACGCCTCTCT	20777	GAGATGGGACCTAGATAAAGCAGAAG	31761	CCTCTGCCACCATCTTGCTACTA	42745
9120	GGCAGTAGAGTCACATCACCTTGA	20778	GGCCAACATCTGGGATGTGATAC	31762	GGCCAGGCAGTAGAGATCA	42746
9121	TCCCTTTACCTGGGCTTCACA	20779	GGACTTGTGTTGTGTGGTTT	31763	CTAGATGTCACTGCCTCCCTTTAC	42747
9122	CAATGCCTGTACCCTAGGTATTACT	20780	GCTCTTGGGACTGGTGATA	31764	CCAGTTTCTCAGTAAACAAATGCCTTTAC	42748
9123	CAACGTCTATCCTGTGCTGAA	20781	TGAACCTCTGGGGCCAAGT	31765	CGTGCTGTCTGCAAAACACGTCTA	42749
9124	GGCAAGTGTTGAAAACTTCTGTT	20782	GATCCCTTGTCTCAGTTAGTGAA	31766	GAGGAACAGGAGGCAAGTGTTG	42750
9125	CAGGTTGTGTTGGATGCGTAAAG	20783	GCACGTGTAACCTGCGAAACCATCTT	31767	GGCAGGCCTGATAACAGGTTGTGT	42751
9126	GGCCATCCTGTAGCCACCAAAAT	20784	AGATTCAAGCTAACAGTCAGTCAAT	31768	GCAAGCTGGCCATCCTGTAG	42752
9127	CCAGGTTGCATCCCTTCTCAGGAA	20785	AGTGACCACTGAGACTGACACT	31769	TCCCTTACCAGGTTGCAT	42753
9128	GGCTCCATTCCAATGGCACAA	20786	CCTGATAAGTTAAGAATGGGTCCCTGAT	31770	GTCTGAAAGCTTTTGGCTCCATTC	42754
9129	GGCCTTGAAATGCAGCGGAGAAA	20787	CCGACTCTGACACCTGACTCCTAT	31771	GTGTTGGTCTCGGCCTTGAA	42755
9130	TGAATCAAATCTTTCGGCTAGGAT	20788	CCCCTGAAAAGCTTGTCCAATAACA	31772	GCCAGAGTTCTACCTATCTAATGAATC	42756
9131	GCAAAGCTCAACCTCAGGGATTCT	20789	GCCAAGCTGACTTGTGGTACTGT	31773	ACCACAGGCAGATGAGCAAAAG	42757
9132	TGAGTCCCATCTGCTAGAGAGGTT	20790	TGACCTCCAGGGCTGAAGTGAT	31774	GTGGCATACTGTAGTCCCCTCT	42758
9133	GGCCTCCAAAAGGTAGCTTGTCT	20791	GCTCTGCACTTTTCACTGGAGGATA	31775	GCAGCTCTTACTTAGGCCTCCAAA	42759
9134	CCTCTCTTCTCCTCTTCTCAATGTGCTA	20792	GGGTTCTCTTTTCAAGCATCTTTGT	31776	TGCAACCTCTCTTCTCCTCTCT	42760
9135	GGCAGCAGTTCATGGGTAGAGA	20793	TCTTCTCAGCTCAGTCCTTACA	31777	GCAGGTTGAAGGCAGCAGTT	42761
9136	GGGCCACAAGCCTTTGAGTGTA	20794	GACTGCAATACCCCTTCCAATTTC	31778	AAGCAACCTCGGGCCACAA	42762
9137	GGGAATGCCCGTTTTGAATC	20795	CCTTGCCGGGAAACAGACAGA	31779	TGTCCTGTCTGAATTGGGAATG	42763
9138	TCAAGGCAGCATAGTGTATGAAT	20796	CCAGAAACACAGCTTGTGGACAAA	31780	GGATGTACTTTGTTCAAGGCAGCATAG	42764
9139	TGCGATGTCGTGATGATGATG	20797	CACATCCTAATTCAGCCAGACTATGGAAA	31781	ATCCCATGGGTGTGCGATGT	42765
9140	GGAGAGCTGACTATGGTAAAGTTGAGA	20798	CAGAAAAGTGGCTATGGGGAAATTCCTA	31782	TCTCATCTCTGGAGAGCTGTACTAT	42766
9141	ACACAAACACTACCTACCTCCTAAGT	20799	CAGCTTCAGATTGGGGCAGGTT	31783	CAGCAATGTGGGAAACACAAAC	42767
9142	CCTCAGGGGAATGAACCTCTTTTAGA	20800	GCTAGAGGGGAGGAGTTCTGAAG	31784	GGGAATTTTCTCAGGGGAATGAAC	42768
9143	AGGTGCAGAAAGGCCATGAAG	20801	TAGCTGCACTATGCTCTGTTAC	31785	CACCCAGGAAGGTGCAGATA	42769
9144	GCTATGCGAGAGGGTTGCTTGA	20802	GGGGTGCAGCGGCATAATCA	31786	TGCACCTCCAGTCTCAGCTAT	42770
9145	CCCTGTGCTGTCTCATTAATCTTTG	20803	CCTAAAGCCAGTGATCTTTGACA	31787	TCCTGCCCTGTGCTGTCTCA	42771
9146	GCCCAAGGCTATGTTCTCTGT	20804	GCCTATTTCCCTTGCACGTGTA	31788	TTGTGTACATGCCCAAGGCTAT	42772
9147	AGGGCTCCATGATCTCACCTT	20805	GACCACTAGGACTCCAGTGGAAGA	31789	GCCTGGTATTCAAGGGCTCCAT	42773
9148	GGACTGTTGTGGTACTGGCAAT	20806	CCAAAGCAGACGCACTCTCTACA	31790	GATATATTGGGCGAGGACTGTTGT	42774
9149	GCAGCTAAGTGGCAGCTCATCTTG	20807	GTGCACACATCACACATCCTTGT	31791	CCCCTCTAAGGTCTTTGAGCAGCTA	42775
9150	GTGCTTTGCTGTGCTTTTAACTGT	20808	GGCCAACTACAAGTCCCTAGCTCTTT	31792	CTGAAGAGGGGTGTAGTCGTTTGCTT	42776
9151	GCCAGAAAGTGGGCTTTGAGTGT	20809	ACGGTGGAGGTGGGTGTAGA	31793	GGCCATCACAGCCAGAAAGT	42777
9152	GGTGTCTCAGACTACTCCCATGAT	20810	GGGTCAAACCTGAGGCTAGACCAAT	31794	CGGAAAATGCTAGGGAAGGTGCT	42778
9153	GAACGATAGCCCTTAAATGATGTGT	20811	TGGCAAAAGACACTTTATCAGGTT	31795	ACTACGTGTAGGTGAATTGAACGATAG	42779
9154	GCTACCCAGAGATAGAAGCACACCTA	20812	GGGTGTTAAAAAGTGCTTTGCTCCAA	31796	GAAAGGAGTGCTACCCAGAGATAG	42780
9155	CGCTGACCAAGTCTGTTTGAAT	20813	AGCCAAACCTGACTCATCAATTT	31797	CAGTTCTGCGCTGACCAAGT	42781
9156	GGGCTTTATACTCACAGCCATAG	20814	TGTCTCCTGGTAGTCTTGGTAGT	31798	CACCTGCGGGCCTTTATACTCA	42782
9157	GGGCATGCAATTCAGGATATGGAA	20815	CAGCGTCACTGGATGGGTAATG	31799	GAGACCTTTGAGGGCACTCAA	42783
9158	CCCATCTTTTCCCAAGATG	20816	CAACCTGATAAAGGCAACACAA	31800	AGGGGAAAAGCATCCCATCTTTC	42784
9159	AGCTGATACCTCCAGGTCTTT	20817	GGCTGCACCTTCAAAATGGAT	31801	GGGCAAAAGGATCAGAAAAGTCTAAG	42785
9160	TGACGATAGTCACACCTTCAAAAG	20818	TGGCTGGAGGTGAACAGTTG	31802	GGCTGAGTAGGTTGTGACGAT	42786
9161	GTAGCCAGCCTTATTTCAAGGAA	20819	TCCAAGCCCGCAGTTCTTCA	31803	CTGAGATCTGTAGCCAGCCTTA	42787
9162	GCTAGCTGCTGAGACAGTGAAG	20820	AAATTGTTGGCTCGCCTCTCT	31804	ACGTACCCTACACCAGACAACA	42788

9163	TGGCAGCACTACCTGAGAGT	20821	CACCAGTTCCCATGGAAACCATAG	31805	GCAGAGTTGTGGCAGCACTA	42789
9164	CCCCCTTAGGTAACCTGCTGATAG	20822	CCTATTTGCTTCCTCCTAGTAGATT	31806	GATTATCTGGATGCCCTTAGGTAAC	42790
9165	TGCTCTCTGAATTGACTCACTGTT	20823	CGCTTTTGGAACCCAGACAAAG	31807	GCTTTCTATGGCTGATGCTCTCT	42791
9166	TTGATACCATGACTCTGCATGT	20824	TGCTCATGCTCGGACTAATTT	31808	CTGCTGGGTGTTTGATCACCAT	42792
9167	CCTGCTCAAACCTGATTCTCACTCTCT	20825	CGAAGGTAAGACTCTGGCAAGTGAAG	31809	GCCACATCCACACCTGCTCAA	42793
9168	GAGGTGCCTGTTTCTTCTGGAT	20826	GGAGCAGCCTCAAGGACCTTAT	31810	TGTGTAGACAGAGGTGCCTGTT	42794
9169	CCCTTTCGACTCTCAAACTTCCTTAC	20827	GCAGCTGTATATGTACCTCTGTACT	31811	GCCACCTCAATACCTTTTCGACTCT	42795
9170	TCCTCCAGAAACCTGGTGCTT	20828	AAGGACAGGGTAGCAAAGTGTAG	31812	TCCACTTCTCTCTCCAGAAAC	42796
9171	GCCTGCCACCATTTTCATGGTTA	20829	TGCTGTAAACCAGGAGTCTCA	31813	GCTAAAAAGTTAGCTGCCACCAT	42797
9172	CTGTGACACCAAAGGCAGAAACA	20830	TGGGATATTGGCCTGAAGTTTCTT	31814	CGGCATCACTGTGACACCAAAG	42798
9173	GGTCGGAATGATGACCCCTGTT	20831	AGGCATCAAAATACCTCTGTGCTT	31815	CCTTATGTAAAGCAGGGTCGGAATG	42799
9174	GAGCATTCAGCAGAGGTCACT	20832	CACCATAGCAGTAGTGTGCTCTA	31816	GAGATGGGCCAGAGAGCATTCT	42800
9175	CCAGGAGCCAGACTTGAGAATCA	20833	GCCTCATTGCACCTTTCTCCTGTA	31817	GTGTGTTTCAGGAGCCAGACT	42801
9176	GGGTAGAAAGCCATTGGTATAGTTCA	20834	GGGCAAGGAGAGGGGTGTTTTTA	31818	ACTCCGATGGGTAGAAGCCATT	42802
9177	GTGCCAGTCTTGTGTAGGTTCT	20835	GCAGCCTCTGTAAACAGGGTTGAT	31819	GACTAACTACTCTGTGCCAGTCTT	42803
9178	ACCAGCCTCTGTACCGGCAAT	20836	GGCTTCTTTACTGGACCTACTTTC	31820	AGATGGCACCAGCCTCTGT	42804
9179	GCTCTGGGATCATCACACAACA	20837	CCCACTGGTCTGGCTCTTGT	31821	GACTTGGCAAGCTCTGGGATCAT	42805
9180	TGACGCTTCTGTTTCCAACAGTTA	20838	CTCAGCTTAAAAACCAAGTGTCTAGA	31822	CTCATGTAGCATGACGCTTCTGT	42806
9181	CCTCTGTACTTTTGCACTCACTGT	20839	CAGAGAGGAGCAGGACATTCATAC	31823	AGTGGTTCGCTCTCTGTACTT	42807
9182	CCTCCCTCTCACACAGGAAGA	20840	GGCCAAGGCACCTTCTCATTGT	31824	TCCCTTCTCTCCCTCTCA	42808
9183	CACATTTCCCAACAGCACTGTAGAGA	20841	AGGTTCCAGGCTGCAGTGA	31825	AGACAGGGTCTCGTCACATTTCT	42809
9184	GATTCAGCAGCATGAACAGACA	20842	GCTCTGCGTCCCGGAAGT	31826	GGCCTTGGTTGATTCCAGCAGCAT	42810
9185	GGAAAGGGTACTGGGATTTTGTAG	20843	CATTCTGAAGTATGGGAGGGACTAAG	31827	GCTAAATAAGGAAAGGGTACTGGGATT	42811
9186	CCTGAGCTAGCCTTCCACACT	20844	CACCTTCCCAATGGAGGACAT	31828	TGGGCATGAACCTGAGCTA	42812
9187	CCCTCAGGTTTGGGAATAGTCATC	20845	TCAGGCCCTAGGTTCACTGT	31829	GATCTTCGCTCCCTCAGGTTTG	42813
9188	GTCGTCACTACAAGGGGCTCAA	20846	GGGGTCTGCTCTAGGGAACAATC	31830	GGGCTTGGATCTTTTGCTCACT	42814
9189	TGGGGTCTCACAAGGAAATGT	20847	AGAACAGAACTCACTGGAATGACAA	31831	GTGGGCGCTTTTGCTTCTTG	42815
9190	GTAGAAGACTACTGCTCTGGCAAA	20848	CTGACTGTATGTGACTGACTGGAATTG	31832	TCCGGGCAGGGAGTAGAAGACTA	42816
9191	GAGCTGGGAATTTGGTGGTTTTG	20849	CATCGAAGTGGCAGGAAATGAAG	31833	GAAGGCTAAATGAGCTGGGAATTTG	42817
9192	CACCACAGGTTTCTTGCAATCT	20850	GACAAGTCCAGCTCAGAGAATGAA	31834	TGAGATGCTTATCACCACAGGTTTC	42818
9193	CCCTGGAGGTCAGACAGAGAAGT	20851	CCTTGACTGACAGGTAACCTACAAA	31835	ACATGCACCTGGAGGTCAGA	42819
9194	GAGGAGTGTGTGGTTGGAAA	20852	GACTGCAGGGTCTCAGTGTG	31836	GGCTGTGACAGGAGTGT	42820
9195	TGTGCTGCGCTGACACTTTG	20853	TTCTCAAAGAGGATTCTGCTCTAC	31837	TGGCATCCCTTGCACTGT	42821
9196	CTCTCAGGTACAACCCAGTA	20854	GAGCTGAGCACTGGATGAGACTTA	31838	GCACTCCCTCTCCAGGTACA	42822
9197	CCGTCTTCAAAGCCAATGCTAAG	20855	GCCGATTGAGCAAGTGAGTTCTCCTA	31839	GAGTTTTCCCGGTTACCGTCTTC	42823
9198	GGAGGGCAGCATGGGATAAAGAA	20856	GGACTTTTCCAGGGCCTCAA	31840	TGGTGAGGAGGGCAGCAT	42824
9199	TGTTGCCAAAGTTGCTCAGTAAG	20857	GACTGCAGGGTTCCTCTGT	31841	GTGTTAAGCATGTTGCCAAAGTTG	42825
9200	CCCACACGCTAAAGGCAAGAAAAC	20858	GTCATCCCAGTGGCCTGTAGT	31842	TCCATTCTCCACACGCTAAAG	42826
9201	GCCCTCTACCTTTTCCACTAAC	20859	GGATGTCACTTGTGGGCAACT	31843	TTCTGTTGCCAAGCCCTCTAC	42827
9202	CTGCTTTTACCAAGTTCTCTTTC	20860	GAACGCGGCTCACTCATTTG	31844	TCTGCCCTGCCTTTCACCAA	42828
9203	GCCGATGGTTGCATTCTACT	20861	GGCGCCAGTGTCTTATGTCT	31845	CATCCTGGTTTCCGATGGTT	42829
9204	CCACTGGGTTGAGAGAGAACA	20862	GGAGGATCTCATCTCTCTGGTATCATC	31846	TGAGGCCACTGGGGTTGA	42830
9205	CCATTGCTGGCGGTGCACT	20863	AGGGGTGGTCTCTCCCTTAT	31847	AACTTCCCTCTGCCATTG	42831
9206	GACCACCTTTTCTACAGAGATGT	20864	TGTGCAGTGGGCAGGAAGA	31848	CCTACTCACCATTTATGACCACCTT	42832
9207	AGTGAGAGCTGTTGTTTCTACCTA	20865	CAAACAACCATAGGTCCTTCTCTCA	31849	GCAATGGAGTGGAGCTGTTTG	42833
9208	GGGGTCTGAGGGTCACATAGTTAAG	20866	GGTCTCTTGAAGGTCACTTCGTT	31850	TGAGGGTAAACAGGGTTCTGA	42834
9209	CTTACTCGCAAGGCTCTGGTT	20867	TTGAGGAGGGGAGAGGCAAAAG	31851	CAGTAACCAAGAGCCGCTCTAC	42835
9210	GCCTGTCCAGTCTCATCTAGCATT	20868	GCAAACACAGTGTAAGGTAGTAAGAAC	31852	GTGTTGCTGTCCAGTCTCA	42836
9211	GTAGTGGAAGCACCCAAACACTT	20869	CTTTCTCCAGCAAGCTCTTTTTTAC	31853	AAGGATATGATGGGTGCATTGTAGT	42837
9212	AAGAGAGAGCTGTCTCTCTTGA	20870	GCTGGCAGGACTCATGTGAT	31854	TGAGCTCAGGGAAGCAAGAGA	42838
9213	CTTCTTTAGGGCTTGGTGTCACT	20871	CCAGGATGGCCAACACATTTCTC	31855	ACCCAGGTTGAGAATAACTTCTTT	42839
9214	GCTGCTTTGGTCTGGCTGTTG	20872	CAGCCGTAAGTGCCTTTCACA	31856	GGCTAGTACTTTGAGTGCTT	42840
9215	CAGTTTCCCTGGGAGCACTTT	20873	GCAGACCTGAGATGGAGATTG	31857	TTCTCTGCCCTTACCAGTTTC	42841
9216	CGAGTTATCTAATCTCCCTACAATG	20874	CTGCTGTCTCAGGGTGTGAAAA	31858	CGATGGGACAGTTTTCGAGTTATC	42842
9217	CCTCCCTGCAAGACACTTACA	20875	CTCCAAGCCGGCTCTTTACAT	31859	GAGGTTTCACTCTCCCTGCAA	42843
9218	TGCAGCTGTACTTTATGGATGACAA	20876	GTGTTGAGCTCTCCTGAAACAATAAA	31860	CCCACACACTTCTTGAGCTGTACT	42844
9219	TCTGGCTCTATCACTGGGTTT	20877	TGACTTCAAGTGAATTTGGAGCTT	31861	CCCCATCACTCACTCTGGCTCTA	42845
9220	AAGGGGAGTCGATGGGTTA	20878	GGCCAGTGTGAGTTGTCTA	31862	TGGGCAACGTGGGGTCAA	42846
9221	AGCGGAAAAACCTGGCTAAGA	20879	GTTACGTTGGCTGAGACAAAC	31863	GGTGATGGCATAGCGGAAA	42847
9222	GGCAGACTGTGACGTTAGTGAGA	20880	GGCATACAGGAAGGGAAGGATGACA	31864	GCTGAGGAAGGCAGACTGTGA	42848
9223	GCCATTGGAACCTAGAAATTCTGTCTGT	20881	TGCGGGATGCAGAGCAAA	31865	GACACTTGGCATTGGGACCTAGAA	42849
9224	CCACACTACTCCATGCCAGGATCT	20882	GAGACTGAAAAGCCTCCAGACA	31866	TTCCAGGGCCACACTACTCCAT	42850
9225	AGTCACAGAACTCCCGAGAAATATACT	20883	GTCATTGTGGGAAGTGCAATTTGT	31867	GTCTCTGTATCAGTACAGAACT	42851
9226	CACCTTGGCTATAGCTGCTAATTTCT	20884	CCAGGACACCTATTTGTAACCACT	31868	CACACCTCTACCTTGGCTAT	42852
9227	GCCTTTTGGGAGCCGAACAT	20885	GACGGTGATTGTGATCTGCTACTA	31869	TCCAGGAAGCTGCCTTTTG	42853

9228	CCAGTTCACACAGAGGAGGAAAA	20886	CTGCACCATTCTAACCCCACTTC	31870	CCCTTCCAGTTCACACAGA	42854
9229	CCTGTCAACATGATGGTCGTAGTAAC	20887	GGGCTTAACAATCCACCAAAACA	31871	GGAATCTTGACAGCTCATCTGTCA	42855
9230	CCTGTGTAACATGACTTGACTCCTA	20888	CCAGCTTTCTATGACATTGGGCTAT	31872	GTTAGTGAAGCAGTCTGTGTAACAT	42856
9231	GAAGAAAAGCAGTTTCATCCCAAACA	20889	CCAGTTACTACCTGCGCTTAAATG	31873	GATGGCATACGACCAAGAAAAG	42857
9232	GGGAGCTTGCTTTCTCTTTACTCT	20890	TGGAGATGGCTGTCTTCTATTTT	31874	GACCTAAGGGAGCTTGCTTTCTCT	42858
9233	CCTGGTTGGGTGTCTTTGTGT	20891	GCACAGGATGGACATCAGGTTCAT	31875	CCCAGTGGACAAGTACCTGGTT	42859
9234	AGAAGAGAGGTCCTTCTGGTATGT	20892	CCCAGGCTCTGTGCTTTGA	31876	TGGGCCACAGCTCCACAGAA	42860
9235	GGGCAAAGGAGTGGCATAATCT	20893	GTGCACAGCCAGAATCATCCTT	31877	GAGACAGGAGCCACTGGAATTTTG	42861
9236	GGCTCATGGTAGCTACACCTTTC	20894	GCAGCTTGGTGGACTATTGGAT	31878	GTA CTGTGTGGTCTCATGGTA	42862
9237	GGCTTCAGCAGAGTAAAGTAGGAA	20895	GCCCTGCTGCTCATCTCTA	31879	AGGTCCCAAGACTGTGGCTTCA	42863
9238	CAAACCTCTCTCCAAACAGTGATTC	20896	GGAGGGGACTCAGGGACCTAAAAT	31880	TCTTGAGACCAACTCTCTCCAA	42864
9239	CAGATTACACGCGATTACAAATCA	20897	AGTCAGTAGGGTTGCAGAAAGTATAAC	31881	GCGCTCAGATTACACGCGATT	42865
9240	GAAGGAAGTAGAATCCACCAGATCAAC	20898	GGCTCTGTCCCTTCTCTTTAC	31882	ACAGCTGTGAAGGTATTGAAGGAA	42866
9241	GGAGGAGGAATCAATGATGGGTAGAT	20899	CTCCCTGCAACACCCCTCTTATC	31883	GGAGCAGGAGGAGGAATCAATG	42867
9242	GTCTGCTAGGGTTAAACAGGGCTTT	20900	CAAGGTGGTAACTGTGATTTGGTT	31884	GCCCAGGTCTGCTAGGGTTAAA	42868
9243	CAGCACAGCCATCATTTCTTCCAATG	20901	GGAGGAATAATGTTTGCAACAGGAAAT	31885	CCATCCTCAGCACAGCCATCA	42869
9244	GAGATGTGCCTATACTGCGTTTGAAG	20902	GGCCCTCCCTCTTTACAAT	31886	CAGACAGTTGAGATGTGCCTATAC	42870
9245	TGGAGGGAATGAGGTGTTATCT	20903	CCGGGTTGCGGTCACCTT	31887	ACGACAGTAATGGGAGGGAATGA	42871
9246	GAGACAAAATCCCACTGTGAGGATAAC	20904	AAGAAGACCCACCCCTCAGAGA	31888	GGGAATGGCTGATGTTAAGAGACA	42872
9247	GGCAGAGAAGTAGAGGCTGTAG	20905	AGTGGGGCTGTCTCTCAAGT	31889	TTGGGAGAAGCAGGCACAGA	42873
9248	ACACCCCAAGTCTGACTGATA	20906	AAGGACGGCGCAGTAGGAA	31890	ACGTGGAGCTGGTGAAACA	42874
9249	CCTCTGTTTGCCCAAGCTTTC	20907	GGTCACTCCCTCATCAGCTTAG	31891	GTGGCAAAATGCGCTCTGT	42875
9250	GCTTTTCAAGAACGGGAGACACACA	20908	CCCTGAGCTAGGGTATTGTAATTT	31892	GGACACGGATGATGCTTTTCA	42876
9251	CCAGGAAGGAATGTTTTACCTCTTC	20909	GGTGCAACTGATGGCTGTAGT	31893	ACCACATAAAACCAGGAAGGAATGT	42877
9252	GGAGTGGCTTTCATTACCTCAA	20910	GAGGAAGTTGAGCACACTGGGTTA	31894	GCCCTACAGGAGTGGCTTTCAT	42878
9253	CCTGGCTTATGATATATGCCGAGACA	20911	CTTGTTCTGAAGTTTTCAGGTCAATC	31895	GGCACAAGGAGTCTGGCTTTA	42879
9254	GCCCAAACCTCACTTAAGAGCAGAAA	20912	CCCCATAAGCTCCCACTTAGTGAT	31896	CTCTCATGCCCAAACCTCCACT	42880
9255	AGGCTCCAGTTGGGGACACA	20913	CTGCCAGTGTCTATCACACAT	31897	GCACAGCACAGGCTCCAGTT	42881
9256	CACCTCCATCCACCTGCAACA	20914	GTCCGTCCAAACAAAGGTTGACT	31898	GCACTGCGGATCACTTCCAT	42882
9257	GCAGCTCCTCTACACAAAGA	20915	ACACAAAAGACTTGGACTTCTTCT	31899	CCTGTGTTTTGACAGCTCCTCTA	42883
9258	CTGCTGTGGAGAGACTTGACA	20916	GGCTCTTACATAAATCTTCTCTCATC	31900	CCCTGCAGATAAATCTGCCTGTTG	42884
9259	CCGTGTTTGCCCTCTTTT	20917	TCGGGGCACTGGGGTAAAT	31901	CAGCCAAACATTAAGCCGTGTT	42885
9260	GCCCTACAGGGAAGATGCAGAGA	20918	CTAGGGACCAATTCAGTAGAAATC	31902	TCTTTGGCCACTGCCCTACA	42886
9261	CCTCAGGGGTATATCAACTTTGTGCA	20919	GCAAAAGGTGATCCAGGTCTCT	31903	CTGTCTACCTCAGGGGTATATCAAC	42887
9262	CTACTTGGAAACTCCCTCTTCTTAG	20920	AGTGGGGAGACACAGGAAA	31904	AGACAGTCTTGACCACTTTCTACTTG	42888
9263	TTGCCGAGACAGGGATTTCAA	20921	TTCCAGGACTGAGCTCTTCA	31905	TGGTCCCGTTTGGCCGAGACA	42889
9264	GCTCTCTGACAAATGACATAACCTTA	20922	GAGAATGACTTCTGACAAATGGTT	31906	GGCAAAACAGGCTCTCTGACA	42890
9265	TCACCTCCAGTGGTGATATGAGT	20923	TGGCTTGGAGGAGACCAGGTA	31907	AGCTTCTTCCAGATTGAATCACT	42891
9266	CCTCCTGCAAGAGCAGCATTGA	20924	GCCTGTGTAACCTGATCTGGACTTG	31908	TGTCTTGGGCTCCTGCAA	42892
9267	GCTGGCCTTGATCTGCTTTGA	20925	GGAGGCCAGAAATGCCATTTTCA	31909	TCCTTTGAAATTAGCTGGCCTGT	42893
9268	GGAGGCAAAAGGAGGATAGTCA	20926	GCACTGAAAGCCTTGAACTGA	31910	ATGGCAACAGGGAGGCAAG	42894
9269	GCTTGTCAAGTCTCTCTGATGCAA	20927	CCTGGCTTCTCCTCTTGACATACAA	31911	GGCAGATTTCCTCAGCTTGCTA	42895
9270	ACTCACCATGGGTGGGTCAA	20928	ACCCTCACCATCCTCAGTTGAT	31912	GTGGCAGCAGTAGACTCACCAT	42896
9271	CGGCAAAATCCGAGAAGGACGTT	20929	TCCTTAAATGCCTGAAGCCAAAAG	31913	CCCTACTCTGAATCAAGCGGCAAA	42897
9272	CCATTGCAGAAAGATGTGGTCTTG	20930	CCACATGTAGCTGCTTGCAATTA	31914	CAGCAGCCCATTTAACTTCCATTG	42898
9273	CCCACATTACCGAAGTAGCCATT	20931	TCCTTCTGAACTCTTCAATGGTT	31915	TCAGGCAACCTCCACCATTT	42899
9274	CCCTGGGCTTGATGTTTTGCTT	20932	GTCTTCTACCCAGTCTCTTCTCACT	31916	CATCATCTCCCTGGGCTTGTA	42900
9275	ACACACCCGCTCCATTACT	20933	AAGCCTTGTGCTGGAGAGT	31917	GGTGTGGGTGGCTGAAAGACA	42901
9276	CCTGCCACACATTTTGTGGTAA	20934	CAAGATGGGTCTATGTGGAACA	31918	CTTTGTGGCTTGGGGAGTGA	42902
9277	GGCACTGGTGCTAATTAAGGCAAT	20935	GGGCTTCTCCTTCAGCAAGA	31919	GGAAGGCACTGGCTGCTAAT	42903
9278	GCCACTACTGGCATCTTAGCAA	20936	GCAGAACAGAAAGCCGAAT	31920	TGGACCACTGCTGCCACTACT	42904
9279	TCTGAGACAGCTCTTTACTTGACTTC	20937	GGGGCAAAACCTGGAGTCAGATG	31921	GCACTTGCTGCTCTCTTCT	42905
9280	GGAGCCTGGTGGTACTTTGTTC	20938	ATGCTGAGCTGCACCGTACT	31922	GGTCTCAGGAGCCTGGTGGTA	42906
9281	CGGGAATCAGGCAAGAGATCCAA	20939	GAGGCACTCAACCAACAGTTTTT	31923	AGAGGGCAGGCGGGAATCA	42907
9282	GGGCCAGTAGGAACATCTGTGAAC	20940	CTGAAGACTTAAACCAAGTTGGCAGAAC	31924	TCTGCCTTCAGGGCCAGTA	42908
9283	GTTAGGAGGGTGAAATCTGTGAATGA	20941	ACTTTTAGCTCAGGGTCACTGCT	31925	CCTGCATAGTGGTTAGGAGGGTGTA	42909
9284	GCTGTCACTTCCGGTTGGAT	20942	AGAGCCACGAGGGCTCAA	31926	TGGAGATCCTGGCTGTACCTT	42910
9285	GGTCAGACACTGGCTGTGCCAT	20943	TCCTGAGTGCCTACCTGT	31927	CCACCAGGGGTGACACACT	42911
9286	GGGTCTGCGTGAAGAGAAAACA	20944	GCCATGTTAACTGCATCACCTCTAA	31928	TGGA AAAAGGGTCTGCGTGAA	42912
9287	GTCTTCTTTTACAACCTACGTGACA	20945	CACCACTGTGGAGAGGAAGGTA	31929	CCCTGACAGACAACCGTCTTCTTT	42913
9288	GCTGCTTCGTTCTTTGTGT	20946	CAGGTTCTTGGCGTTTGAACA	31930	TCTGCTTTCGCTGCTTCTGTT	42914
9289	CTGCCCCGGTTAGAATCAACT	20947	GCATTGCAAGTGTGTGACAGA	31931	TGCTGTGCTGCCCTGGTTA	42915
9290	GCTGTGACTCATCCACTGTCT	20948	TTTCTGGAGGCCATTTGTCA	31932	GGGTGATGGATCTGCTGTGACT	42916
9291	GGGCAGGTGGATGCTAAGTTTG	20949	TCCAGAGTCCCTTGCTTCATCA	31933	TGGCTGAATGGGCAGGTGGAT	42917
9292	CCTTACATCAAAGAGGGTGAACGTG	20950	CACCTGCCAGAGCAACGAAGAAC	31934	GTCCCCACTGCACCTTACATCA	42918

9293	GTGTGTGACAGCGATATGAGCTA	20951	GAAGGGAGGGAGTAGGGAAAGT	31935	GCTGCCAGAGGAGTGTGTGA	42919
9294	AGGCCAGAGTTTGTCCAGGAT	20952	GGCTGAGGGATGGGGAAGAAGA	31936	CACGGCAAAGGCCAGAGTTT	42920
9295	ACTGCAGTTACCTTGCTTTCTTTC	20953	CCCCGTCCACCCCTTCTACTAT	31937	GGTCTGCATACTGCGATTACCTT	42921
9296	CAGCAGGGGCTACTGTATTGTGT	20954	AATTCAAGGACAGAACTGAGAGATG	31938	GCTGACAGCAGGGGCTACT	42922
9297	GGTTTTTGAGACACAAGTCTGCTGAT	20955	CCAGGTTGAGAAAGGAAGTAGCTTTATTC	31939	CTCTCAGGGAGCTTGTTTTTGA	42923
9298	GGACGGGTGAAGGGATTTCAAAC	20956	CCTGGTGGTGACTGGTGGATTA	31940	AGGCCAAAGGACGGGTGAA	42924
9299	GCACACACAGACTGGCTAGAAAG	20957	TCCTCCTCCCTCACTCCCAAA	31941	GACCTGAATAGCACACACAGACT	42925
9300	GTGACACTGCAAAGGAGCTGAAA	20958	GTCTGCAGCAAACCGGAGGTAT	31942	AGTCTTAAACTAGGTGACACTGCAA	42926
9301	CCTGCTTCTGGAAATGAGCAA	20959	GAGCTGCAACAACCATGGAAAT	31943	TCAGGCTGATAGAAAATCCTGCTT	42927
9302	CGGAGGCGATGAACAGGGAAA	20960	GCTAGTAAAGTAACAACCTCCTTGT	31944	ACCAGGTCGGAGGCGATGA	42928
9303	GGTTTCTCAGGGAGTTTACTCTTGCAAT	20961	GGGAAAAATGACTCCCTTCACTTCAA	31945	CCAGAAAGGGGTTTCTCAGGGAGTT	42929
9304	TCAGCACTTGCCCCAACTTC	20962	CCCTGGTGACCGGGAATGAT	31946	TTCCAGCTCAGGTCAGCACTTG	42930
9305	GGGTTGAACAGTTGTGCAAG	20963	GGGCTGCTCCTCGTTTTGTA	31947	CTGACCCAGAGGGTTGAACAGT	42931
9306	CCACCATCACTACTACCACTGT	20964	GCCACCACAATAATCCAGTGGAAG	31948	CAACTACTTCTAACCCACCTACTACT	42932
9307	CCAGCCATAACCAAGAGGTCAAGTTC	20965	AGCTGTCAAGACTTGGGTAAC	31949	CCACACAACAGGATTCAGCCATA	42933
9308	TGCTGGACACCTTGAATTGTTTC	20966	CGAGGATATCTTAGTGGCATTGCTT	31950	GTCCCTATTGCTGGACACCTT	42934
9309	GGATGGCGCTAGAGACAGGTGATA	20967	GGGTTGACACTCAAATGCCTCTT	31951	AAGGAGTGGGATGGCGCTAGA	42935
9310	CCACCAACCTTGCTTCCAAGT	20968	TGCACTTACCACTTCACTTA	31952	TGCCGGAACCAACCAACCTT	42936
9311	CCATGTCTGATATACAGCCTTGCAAA	20969	CAGAAATGGAGACTAGTGGGTGGATAC	31953	CCATCATCAATCACCATTGCTGTGATA	42937
9312	TGCCAGGGGTTTTCTCTGT	20970	GGCTTACTCCAGACACCATGCTT	31954	TGTGCACTTGCCAGGGGTTT	42938
9313	GCAGCTGGCAATTTGCTCTTCT	20971	GGCTGGGAATGTGAAGCCTTATAC	31955	GCAAAGGCAGCTGGCAATTTT	42939
9314	GGGCAGCCAACATAGCCTAGAA	20972	GGTGAGAAGCCCATGGAAGTATTGA	31956	TGCTACAGGGCAGCCAACAT	42940
9315	GCCGGTTGAGACACAAGACAGTT	20973	GGCCTCCAGCCCTGATTTTATA	31957	GACTGTGCGGTGAGACA	42941
9316	CCCTCAAATGGATGGATTGTGTGGTA	20974	CATGGCATGATCCCTGACTCATAG	31958	TGCTCCCTCCCTCAAATGGAT	42942
9317	GCATATGGGACAATCGTGGCTTT	20975	CTGAAGTGCCTCAGCTTAGA	31959	TGGGAGGGGCATATGGGACAAT	42943
9318	GCTTTCAGCCTGTTTCTCACT	20976	GCCAGAATTGGCCAGAGCAT	31960	CCATCTGATCCAGCCTGCTT	42944
9319	CAGTGGAGCAGAAAAACCATACATC	20977	ACTGTACGGTTAAACATCGTCTGT	31961	CCCGACAACAGTGGAGCAGAAA	42945
9320	GGGGCGCATTGAAAGTGAGGAT	20978	CTTCTCTCCTGCTGGATATACACATCT	31962	TGGTTTGGGGCGCATTTGA	42946
9321	GAGCTCTGACTGAATGATGTGCTACT	20979	TGTTACGTGTAGAATGATGGTGCAT	31963	ATGCAGAGGGAGTTGCAATAAGA	42947
9322	CCATGAGCAGCAGAGTTTAGCTTGT	20980	AGAGGGAAACTCTGCCAAAAA	31964	CTGTCCAGAACCCATTCCATGA	42948
9323	ACCCACTTGGGTTCTCCATT	20981	GTGAACCTGCTTACAGAGGTTTC	31965	TGGATGACTGTTGTAACCCACTTG	42949
9324	CCAGAGGTAACTTCTCCTCCATGA	20982	CAGCAGAAAGTAGCTGCATTACCTAAG	31966	TCCTGGGGTCCAGAGGTAACTT	42950
9325	GTGAGAAAAGGCAAGGCAACAT	20983	TTGGCAGGGCGGTGTTTCTT	31967	AGGTAGCCTTCCAAAGTGAGAAAA	42951
9326	CCTGGTGTGTTGCTTGGCAACTA	20984	ACTTGGGAGGTGGAATCACTTG	31968	AGGACTCAGTTACCTGGTGTGTTG	42952
9327	CCATGGACTGACAAAAATGCAAGTTC	20985	CCATGGTGCCTCCTTGAAGT	31969	CATTGGCCCATGGACTGACA	42953
9328	CTCTGACGGGTAACGGTTGCTA	20986	ACAGAAAGGGCAGAGTTTCACTGT	31970	CCCAGGCTCGTACGGGTAA	42954
9329	GCTTTCGCGAGGGCCTTCAA	20987	CCCTGCTGCTCCTAGTTCTGTTT	31971	GCACATGCTGGGTGGCTTTG	42955
9330	GCATTACAGCAATCTCAGCCATT	20988	ACCACGCTGGGCTCCAAAG	31972	GGGAGGATGGCATTACAGCAA	42956
9331	TGCCAGAAAGGTCTCCTGATACA	20989	GGTGGGTGCTTCCCTTT	31973	TGAGGCCAACAGTGCAGAA	42957
9332	GAGACTGTTAGGTTAATCTCTGTGCTA	20990	CTGACCTGTAAAGCTTCTGTCT	31974	GTACGCAAGAGACTGTTAGGTT	42958
9333	GGACATGTTTGTCTTGGCTTT	20991	GGCTGCACCATGACCATCTGTT	31975	GGGGAGCTAAAAGGCACATGTTTG	42959
9334	GGGTTTACTGCCTTTGAGTGCTTAC	20992	CGGGAAGGCAAGGGAAGAGT	31976	ACAGCCCCCTACCGGTTTAC	42960
9335	GGACCGACTGCTGTTGCTCTAAAG	20993	GCAGCTTCTTACATGTTTGGTTCA	31977	CAGTGGACCGACTGCTGTT	42961
9336	CCTCTGTGGCTGAACAAGATAGAAG	20994	CTGAGATCTATGGGAGCAGTGAGAA	31978	GCTCTAATCCTCTGTGGCTGAACA	42962
9337	GGGCATCTCTGAAAGTTGTCCAAA	20995	GCAAAATTGCCACTCATGTGGATTG	31979	GCTTGAATCAATGGGCATCTCTGAA	42963
9338	GGTAAACCAATAAGCCAGAGAGGAA	20996	CTCCAGGCTGCTGCTCATCTCT	31980	CATTGTCTGCACAGGTAAACCAAT	42964
9339	GCCACATGTCTACTGTTAGCCAATC	20997	ACATGTGTAGGAGTAGGAAGCTGA	31981	AGACCCAGCCACATGTCTACT	42965
9340	GGGGACCAATCAGGGGTACTTTC	20998	CAGAGGCTACTCCTTTACACTGCATA	31982	TTGGTTGCAGGAGGGGACCAA	42966
9341	CAGAGAGGAACTTGGGAACATTCACT	20999	TCTGAGCCCCAGCTTCCCTTA	31983	GCGAGCTTAGAGCAGAGAGGAACT	42967
9342	AGGACTCTGGGCTGAACCTGA	21000	CCACACCCCATAGCCACACA	31984	AGACTGGGAGAGAAAGCAGGAA	42968
9343	CACTCACTGTCTATGGCCAGTT	21001	GCAGAGAAGGTGAAAAGGAGATAGA	31985	GCAAAGCAGACTACACTCACTGTCAT	42969
9344	TGCTTGCCTCGGAATGATG	21002	CCCAGAGTCGACCCACATTTTG	31986	CCACATGCTCCACACTGCTT	42970
9345	CAGCCCAACCTAATTCACCAACA	21003	CGGCTCTGGCTATTGTAGCAT	31987	CCTTTCACCTCAGCCCAACCTA	42971
9346	CACTGTCTCTATAGTGTGCTTCT	21004	GCCCTGAAGCTCATCAATTCATT	31988	CCTGCACCATACCACTGTCTCTATAG	42972
9347	GGACTGAACAAGCACAGACGGTAAC	21005	TTGTCTGGCCTAGGGATGAGT	31989	GGACCAAGCTATAACTTGATGGACTGAAC	42973
9348	GGTCAACGGGCTCTGACTTTTC	21006	GCCAGGCTGCTTCACTTGTCTA	31990	GCAGTATGCTTTCGCTGGTCAAC	42974
9349	GGAAGCTTCTGATCCTCTTAAGTGCTA	21007	TGGAGGAAGTGAGGCTTATGCTA	31991	AAGCAAGGTGGAAGCTTCTGAT	42975
9350	CGTCTGCTGTCTGTAAGGGTAT	21008	CAGGCAAACTATCCTGGTTGT	31992	GAATTTCTACGCTGCTGCTGTCT	42976
9351	TCTGTCTGGAGGCGGAGTTG	21009	CCAACCAGGTGTCTCCAGAAT	31993	AAAGCACCTGCGGTCTGTCT	42977
9352	CCTGTGAGTAAGTGTCTACCAAGTCT	21010	GCAGGGCTGGTGTGTAAT	31994	GGCTCACCTGTGAGTAAGTGTCT	42978
9353	TGGGGTACCATCAGGGCAATTC	21011	CTGCGTCTGGAAGCTCGTTTG	31995	TGCGCCAACTGGGTTACCAT	42979
9354	TGCTTATGACAGGAGTGGAGAGA	21012	GGATGTTTCCCTGCAGGATGT	31996	GGCGACCAAGCCTTGCTTATGA	42980
9355	CCCGATTTCGCCACTTTTCA	21013	GGAGAGCAAAAGAACGCTTTTCAATG	31997	ATGCGGCAGGGACCCGATTTC	42981
9356	GTGCCTCCATTCAGGAACAAGT	21014	CGGGGAAGGTGCAGGACAT	31998	CCCTGAGTGGTGCTCCAT	42982
9357	CCTACTTGAACAAATCAGGTGTGCAT	21015	CGACCAGCCAGGCTGATAAGAA	31999	CCTCCATCCTACTTGAACAAATC	42983

9358	CAGAGAACTGTGGATCAAGACTGA	21016	ACAGGAGGTGCTGATGTCTCA	32000	GGCAGAGAACAGAGAACTGTGGAT	42984
9359	GGATCAGTCTGGCTTCTGATTTCT	21017	GCTCATTGTCTTCTGGTTTTGAA	32001	GGGCAGGTAGGTAAAAGGATCAGTCT	42985
9360	GAAACCAACTCTGACACACTGA	21018	GTGCTGAAGAGGCTCTGAGTCAT	32002	TGCTCTGAATGAAACCAACTCT	42986
9361	CCCATAAAGACAGGAAGTGAAGCTTGA	21019	GAGAGCTGCAGGGGTGTTTGAGA	32003	CAAGGTACACTTTTCCCATTAAGACA	42987
9362	CGTGGGGTAACTCATGGTCTCT	21020	GTCAGGTATCGCGCTGGAAGTT	32004	TGAGTCTAATTTAGCTGGGGTAAAC	42988
9363	GACCAAAAGGCAATCCAGAGTGTA	21021	AAAAGAAGGCCTTGGAGAGTTCTAA	32005	AGGAAGCCGACCAAAAGGCAATC	42989
9364	GTTTAATGTTGGTCTCTGCTAGACT	21022	AGGTGCCTCTGTAGCTGAGT	32006	CCCCGAGAGGAGCAGAGTTTA	42990
9365	CCATAATTGCTAGCCACAGTTTGCTTAC	21023	GGGAGCCAAAGGTTTTCAGGAAT	32007	ACTCAACCACTGCCATAATTGCTA	42991
9366	GCACAATCATTGCTATTGGCCGTAA	21024	GCTGATGCATCCATGAAAGACTACA	32008	CTGATCCAGAGTAGGTGCACAATC	42992
9367	TCCACACATCAAACCTGGAGCAT	21025	ACCTCTGGACAGGCAGATGA	32009	AGGGTGGCCTCTGTGTCTA	42993
9368	CCTCATCTCAGACTGCCGTAGAA	21026	GCAGAATGGATAGAGCTTGGTACT	32010	GACAACAGGGAACCCCTCATCTCA	42994
9369	GGATGTGATAGCTGGATCCTGAAG	21027	CCACCCCACTCCCATGTTTGA	32011	GGCTTGCAGAGAAGGAAGGAT	42995
9370	GTTCCAAGGCCTATTTAGCAGTTG	21028	AGGACCACTGCTCCAAGTCA	32012	CTGGTTTCAAATGTTCCAAGGCCTATT	42996
9371	GCCCTCTCTTCCCTTGAACTTTTGT	21029	AGCCCAACACATTTGAGCATTACTA	32013	ACCCGCCCTCTCTTCCCTTTG	42997
9372	GGATGACAGCATAAAGTCCAGACCAA	21030	CCCTTCTTGCCTGTGTGT	32014	GGCTCTGTGGGATGACAGCATA	42998
9373	GTCACCAACCATTTGGATTGTTGT	21031	TGCTGTCTCGGAGGTGTGAAG	32015	TTGGCTGTCAACCAACCATTTG	42999
9374	CCACCCCACTTCTCTGACCAATC	21032	GGAAGGGCAGTGGTACCTATTCA	32016	GCTCAGCATTCACCCCACTTCT	43000
9375	CAAACAAGAGTGCCTCTTCTTCA	21033	GAGGGTTTTCCCCCAACCTCTA	32017	CCAAGACTCCTGCTTATTTTCTCAA	43001
9376	CACCTAAGTCAGCTTGTGCTCTTC	21034	GGACACCTTCCAAATGGTTTTCTTC	32018	CACTAGTGGACACCTAAGTCAGCTT	43002
9377	GTGTTGTTTGGCCCAATAGGTATGT	21035	GGAAGCTGGTGATCCACATTTTTG	32019	CCCGTGACATGTGTTGTTTG	43003
9378	CACCACACATGCCAATGCTCATATTC	21036	GCACTCATGTGCTATGAGGGAGTT	32020	CGTTCACACACATGCCAATG	43004
9379	ACTGTGCATTCAGGCAAGGTT	21037	GGCTGTAGCCTGAGTCTCTGTTG	32021	CCAGTGGCTGAACGTGTCAT	43005
9380	GTGTTTGTGTAGAAAGTTTGAGTGCTA	21038	AGCCCACTGGTGGTCAATTAAG	32022	GGGAGTTTACGTGTCTTGTGTTTG	43006
9381	GCACAACCTGCACTCTCTGAA	21039	GTGATGAGGATCATGGGAAGGGAATAA	32023	CTGCTCATCAAGCACTCGACAA	43007
9382	CCATGCCCTGGGCTGATTGTT	21040	GAGTCCACCCTAGAGCAATGAAG	32024	GCCTGAAATGCAGCCACCAT	43008
9383	GCTTGGCTGATGTTAAAGCTTACTCCTT	21041	TGGAGAGGACACCCCTCAA	32025	TTCTGTGCTTGGCTGATGTTA	43009
9384	GGTTAGTTTCTGGATCTCACACTGA	21042	GCCCTATTTTGTATATAACCTGGAGCAT	32026	CTGGTTCTTAGGTTTAGTTCCTGGAT	43010
9385	GCATCTCAGGACTGAGTGACTCTAC	21043	CCCGCAAATCAAGCATCAGCTTAC	32027	CACGAAGCAAAAGACTAGCATCTCA	43011
9386	GACATGGGTATGGAATGAGGCAAAT	21044	TCAGAGCCTCACGCTGAAT	32028	CCACGTTAAACTAGAGAAGACATGGGTTA	43012
9387	GCAGTTTCTCTGTTGTGGGAAGA	21045	CCCCACCCATGATACGTTGTTC	32029	GCTCTGTCTTGCAGTTTCTCT	43013
9388	CCTCCCACAATTTACCATGTCTTC	21046	CTCATAAGTAAGACACACCGTACCAATG	32030	CCTGGGCTTCTCCCACAATTT	43014
9389	CCCGTCACAAGCTGAGCTCAAGT	21047	CTAGATTCTGGAACGCTTGTTCT	32031	GGTGCTAAATTTTCCCGTCAACAAG	43015
9390	TCCACATGAAGGCAAACTTTCT	21048	GGCCAGTGCACTTTTCTCCATAG	32032	TGTTCCCATCCACATGAAG	43016
9391	AGGGTGAGAAGGAGTTATCCAATT	21049	TGCTCACCTCCAGGAAGACT	32033	CAAAGTCAAAGGGTGAGAAGGAGTT	43017
9392	CCCACACTGGTGTGCCACAT	21050	GGAGTCTTAGGCTGTGAGAAAC	32034	TGCTGTCCAATTTCCCACT	43018
9393	CACGTCCACCTACATCTCCCTTAC	21051	GACACAATGACTGGAATTTGCTTCA	32035	GATCTGCACGTCCACCTACAT	43019
9394	GGTTTTTCAGATGGTAAAGTGGTGCTAA	21052	CATTGTGCAACCAGAACTGAGATT	32036	GCTGCAGCCAGAGGTTTTTCAGA	43020
9395	CAAAGTTGAGGCAAGCATGACA	21053	CAGAGTAGGCACCACCTCTATC	32037	CCTCAAGCATGACTCCAAAGTTGA	43021
9396	TCTAGGTACAGCCTGAGCATTCA	21054	TGCAGCCACCCGAATGAGAT	32038	CTTAGAGTGTGGAGAATCTAGGTACA	43022
9397	GGCCTGACTTTGTATGGAAGGAT	21055	CTTTGGTGTGCAATCTGATCTTCT	32039	CTGGCAGGCCTGACTTTTGT	43023
9398	CTGTGGCTTTAGCTGAGAGTTCA	21056	CCTGGAGTGCTTACTGAATGAAAACA	32040	CCTGGTTCTCAGTCTGTGGCTTTAG	43024
9399	GAGGAAGAGTTGCAATACAGCCAAT	21057	AAAGCTGAGGGGTGGAGAGA	32041	AGGAAGGGGATGAGGAAGAGTT	43025
9400	GGGTAATCCAGCATGAAATGAGGTAAA	21058	GCAGGTGCTAAGGACTGTAAGAAAT	32042	CCTCAAAGGGTAATCCAGCATGA	43026
9401	GGACAGCCACTCCTAGTTGTTTGA	21059	CACCCCTTTAGAGCTAAGGAAACAAG	32043	TTAAACTGGACAGCCACTCCTT	43027
9402	GGGTCATGTCTCCATCCAGTGA	21060	GAGACAGAGGTCCAGAGGTGTT	32044	CCCATGGGTGGGTGATGTCT	43028
9403	CCAGGAGTGTCAAATCAGCTCTT	21061	TGTCAGTCAACCTTGGATGCTAA	32045	GGTTCTTTCCAGGAGTGTCAA	43029
9404	CTCTCTCCCTCATTACCTCTCAA	21062	GGAACCAAGAGCTGAGGCTGTTA	32046	GCTCTTGAACTCCTCTCCCTCATT	43030
9405	CGCATGTCCCTAATGCGTGGAT	21063	ACTCTGGGTGTGTCGGCATT	32047	GGCAGTGAACGCATGTCCCTAA	43031
9406	GCACAGCCAGCATTCCCATAGT	21064	ACCCTCTGGCATCAGAGATGA	32048	ACCTCTCTGCACAGCCAGCAT	43032
9407	CGTTGCCTACAGTTCTCCTCTATC	21065	AGTGGGCCAGTGGAGGAA	32049	CACACTGAATTCGTTGCCTACAGTT	43033
9408	CCGAGAATGTCACTTCTGCTGTATC	21066	GTGGGCTGGGCTTAATGGTATG	32050	CCATAGAAGTCCGAGAATGTCACTT	43034
9409	GCCAAGTCTGTGGCTAGAGGAAGT	21067	CCCAGTACGCTAGGCAGAAGA	32051	CCCAAATAGCTCAAGCCAAGTCTGT	43035
9410	GGCTGCCGATTTCTTAAATCATTC	21068	CTGCCAAGCTCACTAGAGGTAAC	32052	CCATCTTGGCTGCCGATTCTT	43036
9411	ACCGGAAGCCTTAACCAATTTTTG	21069	GCCAGGTGCACACGTAACAT	32053	AGGCACCGGAAGCCTTAAC	43037
9412	CCCTGGAACCCCTACCTGTCTTAT	21070	CCACCTCTTTCTCATCACAGTT	32054	CCCATGAGCTTAACAGCCCTGGAA	43038
9413	GCCCAACAACCACTGAGCAT	21071	GGACATAAGACCCATCCACCAATG	32055	GGTTTTAGCCGAAGCCCAACAAC	43039
9414	GTATTTACCCAGATGGGATGTTTCA	21072	GGTCTGTAAGATTGCCATGAATACTGA	32056	GACCAGAAGCTGTATTTACCCAGAT	43040
9415	CAGGGCTGGAGTTGTGATGAGT	21073	TGTCCTTGGGAAGAAAGTGAGTTAAG	32057	ATGGAGGGCAGGGCTGGAGTT	43041
9416	TCCCACTATCAGAACATTACCTGGAT	21074	CCCTGAAAATAATACCCAGCTTTCATC	32058	CTTCTAGCATTTCCCACTATCAGAACA	43042
9417	GTGGAGCTTCCAGTGATCCTT	21075	CATCTGAGCTGAGTCAATGTTCTTC	32059	CTGTGGAGCTGTGGAGCTT	43043
9418	GTTCTTACCCATAGGATCAAGATG	21076	GGGCAGGTGTTTTCAGGAAGT	32060	GCCTAAGCAGGTCTTACCCCATATA	43044
9419	CTGAATGGTGAACAGGACAGTCT	21077	AGTAACATCTCAAGTCACAGGAGTCT	32061	GTCTAGCCTTACTGAATGGTGAAC	43045
9420	TCAGCCTTCGACATCTTTCATTGT	21078	CATAGTTGTAAATAACGGGAGTACT	32062	GAGTCATAGAATTTTTCAGCCTTCGACATC	43046
9421	GGAAAGGGCTCACAGAAAATTAAGAGA	21079	GGTCATTGAGACCAAGCTCCAATAA	32063	TGCTAGGAAAGGGCTCACAGA	43047
9422	GGGCTATTTCCATTGTAAGCACTTT	21080	GGCCAGTGGCACCATTAGCAAAC	32064	AACAGAAGAGGGCTATTTCCATTGT	43048

9423	CTTGGTATGGTCAAGAAAACGGAAAC	21081	CAGTACCCTGGGATGAGAGTA	32065	GGAGCTTAACATCTTGGTATGGTCAAG	43049
9424	GGCTGAGACTCTAGGACAGGTAATG	21082	TGGTGCTGCTTAGCATTTCGTA	32066	GCATTGTTCAAGGCTGAGACTCTA	43050
9425	GCATCGAAAGGGATGTAGTCACTTA	21083	AGAACAGGCAAGCCCACCTA	32067	GCAGTAATTTGCATCGAAAGGGATGT	43051
9426	CCTCCCCAGAGGTAATAACGATGTAG	21084	ACAACCTGTGGTCTACCTGAGT	32068	AGCAGCCTCCCCAGAGGTAATA	43052
9427	CAAAACCACACACAACACACCAT	21085	GATCTCTGGAGAATTTGGGAGTATGT	32069	CGCATATGCATCAAAACCACACACA	43053
9428	GCCAAAGACCAAAACCACTAGA	21086	GGCCAGAGCACCTGTTCTCTAAA	32070	GTCTGACAGTTGCCAAAGACCAAA	43054
9429	CATCTCAAGCATTCACACCCAGAT	21087	CAGGGAGTCTCGCCATCTGTAAC	32071	CCGACCAGCTAAGCTCATCTCAAG	43055
9430	ACCACCTCTTTACACAAATCCTATG	21088	CAGGTTAGGGAGATTATCTTGCTTTTC	32072	TTGGAACCACTCTTTTCACACA	43056
9431	CCACGTTAGATACCTGACAACTCAGA	21089	GCCCTAAACACCTGCTGAGATG	32073	ACCTATTGCTTCATCCACGTTAGA	43057
9432	CCCTGCCAAATTTTCCCTGGTT	21090	CCTGAATCAGCCAGCATAGAGTT	32074	ATCAGTATGACATCCCTGCCAAAT	43058
9433	GGAGTCAAGCCCAGCCAGTTT	21091	CTTTCTTCATGGATCAGCTGAGAT	32075	GACCTAACATGCAGTTTGAGAGCAAG	43059
9434	TGAGAGGCATTGGGAGATAGCAA	21092	GTTCAGTCTAGGTTTTGTGGTT	32076	CAGCAGTGTTCCTGAGAGGCATTG	43060
9435	GGAAGATCTTAGCAAGAGGTGAAA	21093	GGCTAGGCTAGGAGTAGACGATATC	32077	GCCAGAAAAGGAAGATCTAGCAA	43061
9436	CCTTGCCATAGCAGGTAGTAGAAG	21094	CGGAGGCCCAACGTTAAA	32078	GATCACAGTTTGTTCCTGCCATAG	43062
9437	CACAACCTGAGTATCCCTGTATTC	21095	CCTGGAGATTCTTCGATAGTACTTGT	32079	TGTCTATCCACCACAACCTGAGT	43063
9438	CCCATGCTCATCACTGCCCAAT	21096	TGACAGCCCATCTCACCTT	32080	GCCTCTGTCCATTGCTCATC	43064
9439	CTGAAGCAAGGCACCTATGAACCTCT	21097	ACCTGGTCAGCACTGGCTTCT	32081	ACCCTCTCAACAGAAGTAAGTAA	43065
9440	GCATGTCCTCCAAACACTTCTGTGT	21098	GGAGAGAAGCTGGGCTCTGAAAAAC	32082	CCACACAGGCATGTCCCAAA	43066
9441	CTGCATTCCATTGCTTTTCCAAAT	21099	GAGGCACAGAACATGCTACCAAAG	32083	AGGAACTGTGCTGCATTCAT	43067
9442	AGGGGAGCAGAGATCTAGGGATTTC	21100	CCCATGCCATAAGTAGGATTGTGACTTC	32084	AGCCTACAAGGGGAGCAGAGAT	43068
9443	GGCTGCCGTTAGGATGTAGAAC	21101	ATGAGGAAAAACGAGGGTTTCTGT	32085	AGACAGTGGGCTGCCGTTA	43069
9444	CACACAACTGAGCAGCCATT	21102	AGCAGCCCCACAGTGCAA	32086	GCCTGAACCCAGACAGATCACA	43070
9445	CACCTTGCTTTACAACCACCTGATG	21103	GGTAGGTTTCAGGGAGCTGGAATGA	32087	CTCTTTTCTTGACACTGTCCTTAAAC	43071
9446	CACCTTCCACTTCCACCCCTTGA	21104	GGTACTGTTTCTCCATAACCAAGAT	32088	TGAGTGGTGCCACTTCCACTTC	43072
9447	TGTTGCCAGTAATATACGCCATCT	21105	TGGTTTAGCAGTGCAGATAAGGAA	32089	CCATCTGAGACATGTTGCCAGTA	43073
9448	GCCCATAGCTTCTAAACCTCCAT	21106	AGCAGAAATGGGGTGAAAAAGGT	32090	GACTGTTTAATTGGCCCATAGCTTCTTA	43074
9449	CAAACCTGTAATTTGCTGAGGTACA	21107	GAGGGCACCCCTGAAAAATGT	32091	CCCAATAGGACTTTCCAAACCTGTA	43075
9450	GCCATTGTGTGGAAGACATAGTGTGA	21108	ACTCAATAGCTGCCCTTCTACT	32092	ACTTTGAGCCATTGTGTGGAAGA	43076
9451	GATTGAGACCCAGACTCCAGATTT	21109	GATGTCTGGAAGATGTTGGATGATG	32093	GGAGGCCAAAGCCAGGATTCA	43077
9452	CTCTGCGGTGTTTTGTCTCT	21110	GAGGGTGTCTCTGGGCATTAC	32094	TGGGACTCCTGCGGTGTT	43078
9453	CCTGGTTTACATCTACTCCCACTTTC	21111	CAAATGCAATGGTAGGTGATGAGTT	32095	CTCACACTGTACCCTCCTGGTT	43079
9454	GCTAAGGAGGATCTAAAGGTGCTAA	21112	AGCCGCAAGGAGTGCATT	32096	CCTGGACTCAAAAGCTAAGGAGGATTCTA	43080
9455	CAGTCACTGCTTGAACACCATGT	21113	GGACATTTGGGTTTAAACAGCCTAATTC	32097	ATGATGGCCTCGGTATTAACAGT	43081
9456	GCCAGGAGCTTTGAGAGCTTGTA	21114	CCTGTGACCAAAATCAATGTGTCT	32098	GGCCAAATTGCCAGGAGCTT	43082
9457	TGACTTGGGAGACCATTCATTTCAA	21115	CAAAATCCCAAAGTAGTGCTGAGT	32099	GGAGAATTTATGACTTGGGAGACCAT	43083
9458	GCATTTAAGGGGTATTCGTGGGACTA	21116	GGGTAGTCTGATGGGTAAACAGA	32100	TCTGTTGCAAGCATTTAAGGGGTAT	43084
9459	GGGCAGTTTGTGTACAGCTCTT	21117	ACCAACAGCATCTCTCTCAGT	32101	CCGTCCAAAGGGCAGTTTGTGT	43085
9460	CTGCAAGCTGTGGTTTTAGTTTC	21118	TGGTTTGTACTTAGACCGTGACAA	32102	GCCTTCTGCAAGCTGTGGTT	43086
9461	CAGATTCAGGCCACAAATATCTCATC	21119	GTCTTCACAGTAGGGCTTTTGCTATG	32103	GGGAAGTTCAGATTCAGGCCACAA	43087
9462	TTGGGAAACCAAGGTCAGAGA	21120	CCTGGATCCCAGGCCTGTTTATAG	32104	GGCCTCCATGCAGATATTGGGAAA	43088
9463	GCAGGAGGTAAGTGGGGCATA	21121	GTTTTCAAAAGCTGTGGTTGCTGAA	32105	TGCTCCATTGGCAGGAGGTAAC	43089
9464	GCTGAGCATTTTACACTGACCCCTTG	21122	GGAAGCTGTACTGTAGAAACTAGCCTAA	32106	GCTGTAAAGTGGTAGGGCTGAGCAT	43090
9465	AGGGTAAGCTGAGGCAAGTTTAG	21123	CTCAGACTGTGGCTTATGATGTCT	32107	GGATAGAGTATGGGAATGAAAGGGTAAG	43091
9466	GGCTTGTCTTATGTTAGGGTTCCAAA	21124	CCTTAAGGGGCTTGGGTACATC	32108	GGCTAGCCAGGCTTGTCTTTA	43092
9467	GGTGAAGAATGAGGCTGTACCTT	21125	GCTCAGCTGTAGGAGATTTGTTCT	32109	AGAGAAATCAAGGTTTGGTGAAGA	43093
9468	GGTAGGCAATGGCCTGGTATT	21126	TCCGTGTCCACTTGGTCAAA	32110	CAGTGGTGTGTTGTAAGGTAGGCAAT	43094
9469	CTGTGGACTCTTTCATCTTGATGT	21127	GCCAAAGCCAGTGCATAATTAGTTG	32111	TGTTTAAGAGCTGTGGACTCTTTCA	43095
9470	CAAGAGGGGAAAAATCCTCTTTAGACA	21128	CTCTGCTTTAGCATTTGCCACTAATAC	32112	CAGTAATCCTGATTCAAGAGGGGAAA	43096
9471	CAAAGTAACACTGCAGCTTTAAGAA	21129	CACAGAAGTCCAGCGGCATTGA	32113	CCACCTTGAGGCTCCAAGTAAC	43097
9472	GCTCTGTCATCCCCAGCTGAAA	21130	GGAGTCAAGAAAGTCGAGCCTGTAAA	32114	AAAACAAGTGCAGCTCTGTCTATC	43098
9473	CTGCCAACAGCACTTGTCTATC	21131	GAAAGTTCAGCAGGTGTAGAATG	32115	TCCAGGGCTCTCTGTGCCAACA	43099
9474	CTGGGGTAAAAGGAGGTTATCAAGCAT	21132	GAGTGGGAGCTCTAACTTGACACTA	32116	AGGATTCTGGGGTAAAAGGAGGTT	43100
9475	CTCTCTCCCTGCTTAGATGTTTGT	21133	CCCAGGCTTACTCTTTTACACATTG	32117	GGATGCAGGCCCTTCTCTCT	43101
9476	CGGCTAAGCTAACGATATTCATCTCT	21134	ACTAATATTACTGGCCAACTGTGA	32118	GCCAACGGCTAAGCTAACGAT	43102
9477	GGCTCCCATTTGTTGTCGGCTAA	21135	GGACAGGCTGGGATGGAAAAATG	32119	ACAGTAAACGGCTCCCATTTGTT	43103
9478	CCGCTTAGCCAATATGCCCTTTG	21136	CAGTCAGACAAAGTCTCTGAGTAAGAGA	32120	TGCCTCTCCGCTTAGCCAAT	43104
9479	GAACACAGGTCAGTTTCAGGTAGATG	21137	AGGCTGCGACCTTCTCAGAGA	32121	GGTAGGATGAACACAGGTCAGTT	43105
9480	CAGTGTCTGTGTTAAGGTCACTCTTCT	21138	GTGGATGTCAGCTGCCAATGA	32122	GATCTTACATGTCAGTGTCTGT	43106
9481	GCTCAGAGCAGCACTCGTTTTG	21139	ATGCACCCAGGCCCACTT	32123	GATCCATCCCAACAAGCTCAGA	43107
9482	CCACAGCTCAGATTGACTCACA	21140	CCAGAAACAACCTTAGTATTGCAACCTTTC	32124	TGTCCACCCACAGCTCAGAT	43108
9483	CCCTCAGCAATGTCGCTAGTAGT	21141	TTCTCGGTCACTCCGCAACATC	32125	AGCCAGAGCTCCCTCAGCAAT	43109
9484	GGAGCATATGGTGACTCTCTGA	21142	GAAAAATAGTCTCTGTAAGGAGCAAGTAG	32126	AGTTGGCTCTGGAGCACAT	43110
9485	CGTGGGTCTACACCTGAGAATA	21143	TGGTGATCGCAGCAGAAACAA	32127	GCTTAATGACGGTGGGTCTTACA	43111
9486	CCCCAATCTGTGCCTTCATGTT	21144	GTGGGCAGAGGCATGCATATAA	32128	GGATGTGTTGCCCAATCTGT	43112
9487	CCTCAGGCATAAAGCCAGGTCAGT	21145	GTAGGCTCAAGAGACGGGAAA	32129	GGGCAGAAAATGTCTCAGGCATAA	43113

9488	TCATCCAAGAGTTCTACCCGTGTCT	21146	GCCTACTAGTGCTATTTCCCTGAGA	32130	GCCCTCACCTTTTCATCCAAGAGTT	43114
9489	CCTTTCTACACATCCAGCCTAAGTTC	21147	GCTGGGTAGGATTATGCTGTCAA	32131	CTGTCTCTTTTCCACCTTTCTAC	43115
9490	GACAGTCCCTCACTGAGTAGGTTGA	21148	GCTCCACTAAATACCGAGTTGGTTCA	32132	AAGGCTGACAGTCCCTCACT	43116
9491	GCCTCAGGATACTTTTAGCAGAAGA	21149	TGATCAGAGGTCTAGGCACAACCT	32133	TGATTGCTGCCTCAGGATACCTT	43117
9492	GAACCCAGGCATAGAGAGTCTGA	21150	ACTTTCTGGCAGGAGTGAGTTTC	32134	AGAGTGACGAACCCAGGCATAG	43118
9493	GTAGCTGGAATGCACAGCCTTA	21151	AGTAGCCACTAGATGGCAGAATTG	32135	CCCATCCTGTTTGTAGCTGGAATG	43119
9494	CCCCTGACGAAAGCTTCCAA	21152	TCCAGGCCCTCTGATTTCCAA	32136	TGCACTGGCCCGTGACGAA	43120
9495	GCAGACAGTGACACACCTGTAAG	21153	GGAAGTGTGTGTGTAAGATGTCT	32137	AGTCTGGGCAGCAGACAGTGA	43121
9496	CCCTGACTGCCTAAGCTGAAGA	21154	TGGCCTATATAACTGTAGGGTTGACT	32138	TGCTCAACTTCCCTCCCTGACT	43122
9497	GGGTCTCTATTGTGGTGCAA	21155	GCTTCCAGCAGACAGATGGAATC	32139	GCTGCATTTTGGGGTCTCTCTATT	43123
9498	CCAAGCCTCTCCCAAGCTAGA	21156	GCGGAGGGAGAGCACTTTGTTT	32140	TTCCCTACAGCAGCTCCAA	43124
9499	GCCTGAACCTATCCTACTAAATCAGTCA	21157	GCTGAAATCTTGCAAGAAACAGAGTT	32141	GCCTTATGCCTGAACCTATCCTACT	43125
9500	CAAGGAGAATGTGCCCCCTTCTAAA	21158	TGGGTAAGCTCACATGCTCTCA	32142	GGGTTTCCACATAGAAACAAGGAGAA	43126
9501	CTGTTGTTCCCAAGTTGGAATGAAATG	21159	GCGTATCACAAAGCCAATGCTAAGTT	32143	CCTGCTGTGTTCTCCAGGTT	43127
9502	GTTCCCTCTTTCCCTGAGTGT	21160	GATGAGAATTTGCAGGGCATGGTA	32144	AGGTCCCTGGAGTTCCTCTTTC	43128
9503	TCCAGGTAAATGTGTGAAGGGTTTATG	21161	GGGAAGGAAGGTGTGTTCCCTAAG	32145	GTGTGATACTCCAGGTAATGTGTGAA	43129
9504	GGCTGATGGCTAAAACTTACTGTTTCCTA	21162	GCAGAGACCAGGTAAGCAGACA	32146	CCTTCTCAATTGGCTGATGGCTAA	43130
9505	TCTCTCTCTCCATCCTCTTTTGA	21163	GTCAGTTGAGTGGTGAAGGCATA	32147	GCCCCAATTTCTCCTCTCTCCAT	43131
9506	CTGACACTGGCTTTTACTGGA	21164	AAGGTACAAGAGGCATTCTGACA	32148	GGCTAACATCTGACACTGGCTTT	43132
9507	GCATGATTCCAGTTCCTAGATGT	21165	TCCAGAAAGATGGCCTGACTTTG	32149	TGGCTGCATGATTCCAGTT	43133
9508	GCTGTGAATGTGGAAAAACACAGA	21166	GACTCTTTGAGAGACCAAGGTCAAG	32150	ATATCTACTGTGTGCTGTGAACGTG	43134
9509	GGCATTGGGAAACTTGAGCTATGTACT	21167	TGCTCAAGGACAAAAATGGTCACT	32151	ACAGTAGGCATTGGGAAACCTGA	43135
9510	GGCTGTGTGTGTTCTCTGGTCAT	21168	CCATCTTCTGTATTTGACCCGAATCT	32152	ACCGAAAAGGCTGTGTGTGT	43136
9511	GGTGGCAGAGAAAGCCTAAAATTC	21169	TGCAGGGATGCTGGGACATCA	32153	ACAAAGGTAAGAGGTGGCAGAGA	43137
9512	CCCAGCACACACTTAAAAAGAACAA	21170	GAGCAAGACCATGCTTACACATC	32154	AGTTGTTTACCCAGCACACACT	43138
9513	GCTCCTGTACTTGCCAATAGCAT	21171	AGAGCGCTTGGGTAGAGAGA	32155	GTGGGAATGGAGCTCCTGTACTTG	43139
9514	CCCCTTATGTCTCTCTTACCACAT	21172	CCTAATGGAACCCAGGTGAGTGAT	32156	GCTGGAACCTGTTTCCCTTATG	43140
9515	GCTGCCTTGCTTTCTTGGTGACA	21173	ACACTGGGGCTCACTCACT	32157	CTTTCTACTGCTGCCTTGCCTTC	43141
9516	ACACTCCAGTAAACGTTCTTACATA	21174	ACCACAGACCACAGGCTGACTA	32158	GGGTGAGGGTACACTCCAGTAAAA	43142
9517	TTCCTTGTGGTGGTCCAAGATG	21175	CTGAGGCTTGGAAATAGATGTGATACTGA	32159	GGCATGGCCCTTTTCTCTGT	43143
9518	GTCACCACAGAAACACACCTTTAAC	21176	CCTATAAGAGGAGAAACAGAGCATGT	32160	ACCAGGACGTCCACAGAAAC	43144
9519	CTGCGCTGAATCCTACTGTGT	21177	GGGCCATGGTCACTCTCTCTCT	32161	GGCTAGTAACCTAAGTGCCTGAATC	43145
9520	GGTGCAATTTTGGACTAGCAGAAGCAT	21178	TGCACAGTCTGTGACTCTGTAT	32162	GCCTCACTCTGCCTTATGGTGAT	43146
9521	TCCTGAGGCTATTGGCGAACT	21179	GACAGCAATTTCCAAAGTGTGTTTG	32163	ACAGCTGTTTATCCTGAGGCTATT	43147
9522	GCTGTTGGTTTCAATTTGGAGAAAC	21180	GCCTCTTCTCTCCACATTGGATT	32164	CTCTCTGGTAGTGTGCTGTGGTTTC	43148
9523	GAGATGCTATTTTGGTGGATGGCAAG	21181	CCAAAGGACAGCGTGTGTGA	32165	GGTGGGGAGAGAAGAGATGCTATTTTG	43149
9524	GCCATCCTTCATGGTAGAGACACT	21182	GTGGACACTGGCCATCCACATT	32166	GGTCTATAACCTCTGTGAAAGCCATCCTT	43150
9525	GGAACAGCAAGGTTGCTAGTCTGTA	21183	ACCTCACCTGTCATGACTATTCTTC	32167	TTTACTCTGAGGAACAGCAAGGTT	43151
9526	GTGACAAACCCACTTCCAGGATTG	21184	GGTGGGCTGAGTGGAGATGATT	32168	GTGCAGCCAGAAGTGACAAAC	43152
9527	GCTGTTCTCACAGACACACTGTT	21185	GTGCAAAGTGAGCTTTGTGATTG	32169	CCGAGTGTGCTGTCTTCCACAGA	43153
9528	CTGCCCTTCTGTCTTCTGCTA	21186	ACCGCAGACAATCTGCAAGTA	32170	TTCTCCCTGCCCTTCTGT	43154
9529	GCAGCCCAATAGCAGAACTGTGT	21187	TGATACCTGAGATAGGGAAGGAAGA	32171	AGAGACCTTTGACGCCCAATAG	43155
9530	TGCTGGAGTAGACCAAGAGTCA	21188	GCCACTTTTACTGTTGCAACACATC	32172	GCAGCTGTCAATTTGCTGGAGTAG	43156
9531	AACGTGGGCAATTCCTCTA	21189	GAGTGGGAGGGAAGGAAGTCA	32173	TGCTAGAGCGCCTTTAAC	43157
9532	CACCTTCTGGCTCACAGATGGTA	21190	GCTGTCTTGCCACTTCCACTA	32174	TGGTGGGTGCCCACTTCT	43158
9533	GTGTTTTTGGCTGTACTATCTAGTGCAAA	21191	GCTGAAGACCCAGCATCTGT	32175	AGTGAGAATGTGTTTTGGCTGTACT	43159
9534	CACAAAACCAAGTGTCCCAAGTATTC	21192	GCATGCAGCAAGGAGATTGACT	32176	CTCTGTCTCACAAAACCAAGTGT	43160
9535	GCTCTTCAAGCCTTTTATGTT	21193	CCTGTCTCTGCTACCATTG	32177	GTGCTTTCTGTTGCTCTTCCAA	43161
9536	GGGACTATCTGAGCATGTAAAGAT	21194	GTGCTCAGAAATAGAGCAGAAGTAGCTT	32178	CACAGTCAAGTTTGTAGGGACTATC	43162
9537	TCTGGACTTGACAGTGACAGATG	21195	TGCGAAGCAGCGAGCATAT	32179	GCAAAATCGATGTGAATCTGGAAGTGTG	43163
9538	GTAAGAAAAGCTTCACTGGAACACA	21196	CACAAAAGCAGCCATCAGAGACAA	32180	CCACCACCTGTTTTGTAAGGAAGCTTCA	43164
9539	CGGCTCATTTGCAATGGGCATCA	21197	CGGCCCTGGGTTTACTTCTTA	32181	ACTGCAGCACTCGGCTCATT	43165
9540	GGGAACTGCAGGCCATAGACA	21198	GGGCTTGGCAGTCCCAATACA	32182	GAGGAATGAACAGTTTAGGGGAAT	43166
9541	CCCTGCCTCTAATCTCCAGTGT	21199	CTGACAAAGGGTGCCAGCTCT	32183	ACAGGTCTCTCCCTGCCTCTAATC	43167
9542	TTTCCCTGCCCTGGGCTCACA	21200	CACAAAGATGGATAAGGCGGAATGT	32184	CAAGCTCTTTGTCCACCTGTTTC	43168
9543	GGCTCTGCCTCACTGTGACT	21201	TGGCCAGAGTTCATATAAACAT	32185	TGTGCTCTCTGGAGGCAATC	43169
9544	TCACCTCTTACTGCCTCCAA	21202	GCTTATCTGATTTCCAGCACACAGAA	32186	GCCTGCCTCTAACATCACCTCTTA	43170
9545	GAGCCAGAGTGTAAGAGGGGATCCTA	21203	CAGCGGGTGAGCTTTCGTTT	32187	GACGCAGAGCCAGAGTGTAAAG	43171
9546	CAGGAGGGATTGTGTGCTGTA	21204	CCCCTAGAACTCCCTTCTCTTGT	32188	CCCATGTTTTTGAAGCAGGAGGGATTG	43172
9547	GCTCCAATCCGAGTACGCTTA	21205	CCCGGCTGCTCTCACTACATAGA	32189	TCCGACTCTCTGCTCCAAT	43173
9548	GCCACGTTAAGGGCCCAAGT	21206	CCATCCCCCAGCTCTCTTTTC	32190	GAGTTATGATTGACAGGCCAGT	43174
9549	GAATAATAGTCTGCCCATCCATCT	21207	TGAGTCCCTGAGGCATAATCAGT	32191	AACTGTACAGGAAGGAACAGAAA	43175
9550	CCTTTGATAGCACTGGCAAGA	21208	CGACGGGTGAGTGACTCTACA	32192	GTGAGGCTTAAACAGCCTTTGATA	43176
9551	GAGGTGTGTTGATTGTGTACCTA	21209	CCTGGGAGCACTCTTGTCTTT	32193	ACAATGTGGTGAGGTGTGTTGA	43177
9552	GGTGAGATCGGTGCTCACAA	21210	AATGGGAAATAGGCAGACATACACA	32194	CGGACATAGCTGTGGTGAGAT	43178

9553	CAAAGGAAGGTGGTGAAGTATTATTCAGT	21211	TGTTCTCTCTAAGAACCTTCTAGTCT	32195	TCACAAGCAGGTGTCCAAGGAA	43179
9554	GGACATATGTTGCAGGTAGAGCTAGGAA	21212	CTTTCCTACACCTCATTCAGTTGT	32196	GCAGGGACATATGTTGCAGGTA	43180
9555	GCTAGACCAAGGATCCCTCTGATG	21213	AAGAGCGTGAGCCTTCTGTTATG	32197	GACGCTGACGTTACTGCTAGA	43181
9556	TGGAGTGGATTTCAGGCTTGCTA	21214	TGCCATTCTTTAATCCCTTGGAGTTAG	32198	CCCAACGACATATGTTGGAGTGGATTG	43182
9557	CCTTCAACAAAGTTAGGCCACAAA	21215	TCTAGGAGGCCGTCACACT	32199	GTCTGGTAGGACAAAAGATCCTTCAAC	43183
9558	AGCCAAAGAAGGAGGAGCTTATG	21216	ATGCAGCTCCTATGTAATTGCTACT	32200	GAGACCTGGCTTCTAGCCAAAGA	43184
9559	GGTCCTGGGCATACAGTGATTT	21217	TTCCTCCACTGGGTGGTTAATTG	32201	GGGCCTTTTTAAGGTCCTGGGCATA	43185
9560	CTGAACACGTACACTCTATCTTCCCAA	21218	GCGGCAGCTAGCGTATTTTGA	32202	GTGGCTTCTGAAACAGTACACT	43186
9561	GTGCCTGCTGATAAAAACACTACTAC	21219	GTGGTATGGTGTTTGCATTATGCTGA	32203	GTCAAGTAAATGAAGTGCCTGCTGAT	43187
9562	GGCAGTGTCATCAGTTCTCTT	21220	AGCCAGCTCAGGTTCAACT	32204	ACAGAGCAGGCAGTGCATCA	43188
9563	GACCAGGAGCATATTACTGGATCA	21221	TGGGCCATAATGGGACAAAGATG	32205	CAGAGAAGGACCAGGAGGAT	43189
9564	GCTGGGAACAGGGTTTCAACA	21222	GGAGGCCAAAGGAGCTTATGTTTAC	32206	AGCCAGTGCTAGCTGGGAACA	43190
9565	CAGCTGTGGTAGGGGCTATAGAA	21223	CACCATAGTCCACAAAGCACTCT	32207	TGAGCCTGGACAGCTGTGGTA	43191
9566	CAAAAACCTCCAAAGTCGTGAAG	21224	GCCTTCGAACACAGACTGAAGA	32208	AACAAGGAAGCCAGTTGGAGTT	43192
9567	CTAAGCTCAGAAGCCATCCAATCT	21225	AGAGCTCTTTTGCTAAACTTGTTT	32209	AGCGGGATAATAAACTAAGCTCAGAAG	43193
9568	CTGAACAGTAGGAACTCAAGGTGCAA	21226	CCAGGGCCCTTGGATTTTTGA	32210	CCTGGAAGCTTCTGAAACAGTAGGAA	43194
9569	AGGACAAGGCTGTCTGGTACT	21227	CAAGAGGACGTAAGTCCAATGTTAAGT	32211	AGCTTTAAGGACTCAAGAAGGACAAG	43195
9570	GGGGAAGGATAGAGCAGTGCAA	21228	GCCTTCCCTAGCCACCCATCTAA	32212	GGAAAACATGACGGGGGAAGGATAG	43196
9571	GTGTGTAGGTGAGCCTGACCAAAG	21229	TGTTGCTGACCGTTGTCTTTCT	32213	TGCTGGGAGCTGTGTGTGA	43197
9572	GGCTACCACTAGCCAGTGCTT	21230	CAGAGATGCCTCAATCTCATGTCAT	32214	GTGTGTCAGTGAGAAATGGCTACCAA	43198
9573	AGGGCAGAACGATGTAAAAACAAC	21231	GGTACAAAGGGCAAACGTTTCAT	32215	TGTTTTACATCAGGGCAGAACGAT	43199
9574	TCCTACCTAATCTAACCTCATGCTA	21232	GGCTCCTGATTCTTAAACAGAGCTT	32216	CCCCAGCAAGAACTATTCTCACTA	43200
9575	GCCGTGAACAGGCTTACTCTCA	21233	GGTGGCTCTGATGCTCCCTAAAG	32217	AGCCCTCAGCCGTGAACA	43201
9576	CCTCTAGGAATTAACCTCACCCACAAC	21234	AATGTGGGAAGGCTACTTTCAAT	32218	GGCGATGACAAACAGACCTTAGGAA	43202
9577	ACGCTCTACCACTGTTGATGA	21235	CTGGTTAGGAATCTGCAGGAAAAACAAC	32219	CCCACTGCAGAAACGGTCTCTA	43203
9578	GGGAGGTGGAAGACATGATGGATA	21236	CGTATAGTCTTCCATGCCATCTTCACTA	32220	CAGAGTTGGGAGGTGGAAGACA	43204
9579	GTTGAGTGATGGCAAAATGGTGAA	21237	TCTCAGGCTCAGGAGAGTCT	32221	GGCAGAAATCTTTGCTGTTGAGTGA	43205
9580	CCCACTCCCTTTTCCACTAGA	21238	AGAGTAAGCACTTTGCCATAGGTT	32222	TTGGGCTTCCAGTCCCTTT	43206
9581	GCCTGTTTGTCTCTATACCCATACCTA	21239	CAGGGTTCAGGATGAATCTACAACA	32223	CCAGTAAAGCCTGTTTGTCTCT	43207
9582	GGCTTTGCCACTTGTCTATGCTAAC	21240	GCAGCAGCACTAAGAAATCACAACTT	32224	CTGCTGGCTTTGCCACTTGT	43208
9583	GCTGTGGATAGCAGTAGCAACACT	21241	TGGCCCCAGAGGCATCTAAA	32225	TGGCATGGACGCTGTGGATAG	43209
9584	GGAGCTCTCTCTGGGTTCTATCT	21242	CAGGAAGTCACTGCAAGGAA	32226	AAAGCCTCTGGGAGCCTCTCT	43210
9585	GCCCAACCCCTAAAGACTGACA	21243	TGGCTGTTTAGGGTGCTTTCAA	32227	GCATCCAGCCCAACCCCTAA	43211
9586	GTGGCTGCTGTTAGACGTGTTAG	21244	CTCATCATACGAGCTCAAGAGAACAAAGA	32228	CCTGCAAATGTGGCTGCTGTTAG	43212
9587	GCCTCACACAGGGAATGAGAGA	21245	GTGGGAGAAGGCAGTGAAGTCT	32229	CCAGCTGAATCTTAAGCCTCACACA	43213
9588	CTGGGTTCAAAGCTAATTCTGCCATT	21246	CGAGTAGTCTGGCCAAATACATCTCT	32230	GGACCCCTCGGGTTCAAAGCTA	43214
9589	AGCCTCTGAACCTGAAGATGCAAA	21247	CCATCAACCTTCTTCCACACA	32231	GGTGGCAACTTTAGCCTCTGAAC	43215
9590	CACACAGCCAGCCAGTCTCTATT	21248	CGCTGACCTCAAAGCAACA	32232	GAGGCCATGTCTCAAACACACA	43216
9591	CCGATCCTCAACCCAAGAAG	21249	CCCATTCACGAGACAGAATC	32233	CACGTTTCCCGGATCCTCAA	43217
9592	AGTGGAAATGCTTGAAGGAGAGATG	21250	GCTCTAGATAATCTGATGACACGGTGATG	32234	CTGGGTACCAGAAAAGTGAATGTCT	43218
9593	GGGAGAATGAGTGACTGCTGACAT	21251	GCCACTGGACCTGGCACA	32235	AGGTGGAGGGAGAATGAGTGA	43219
9594	GTTCTGGCCAACTTACTGTCTTC	21252	TGATTGACATCTTTTCCCTGTGA	32236	GTGAGGCAACGCGCTAAGTTCT	43220
9595	CCGAGTCCAGGCTAGGAGTAT	21253	CTCCAGCACCTACACTACCTTAA	32237	GCCTCATTCTCTTTCTTCAAACCGAGTTC	43221
9596	CCAGTGGAGACTTTCACCCCAT	21254	CCCCAGAAGGCAGCAAGTCAAT	32238	ACCCGACCACTGAGAGACTTT	43222
9597	CCTCAATGTAGACAAGGAAGATGTCA	21255	GCTTGTGACAGCTGTTTAGGAA	32239	CAGTCACCACAACTCAATGTAGA	43223
9598	GTGAAGCCTGGGTAGCTTTTG	21256	GAGTCTCTCAGGTGTGTTGAGTAGA	32240	GCTTATGGCAGAGGTTTGTGAAG	43224
9599	TGTACCAAGTGGCTGCTCTTG	21257	GCAGGCCTAGGACTATTCTCTGA	32241	AGCGTCCCTCAACCTTAGTGT	43225
9600	CGGTTTAAGTTCAGCAGGAAAAAGT	21258	GAGAGTGAGCAAGGAGAGTGTITA	32242	GACAGCAGCTGACGGTTTAAGTTC	43226
9601	TGGCTCAGAGATCGTCCCTCT	21259	CTGACAGAATATTGGAGTGGGTGATG	32243	GAGAGTGCTTTTGCTCAGAGA	43227
9602	GGTTCAAAGACAACCTGTGAAGCGATGA	21260	TGAGACCAGAGGTCTGTATGTATGA	32244	CCCAGGGAACTGGTTCAAAGACA	43228
9603	GACCTATGGGCTTTACAATTGGAGTAGA	21261	GACCAAGTGTGCTTGATGCTCAT	32245	TGGGGAGACCTATGGGCTTTAC	43229
9604	CCAGAAGGCTTTGAGCCATCACA	21262	CTCTGTGTCCACCTGCTACACT	32246	GGAGTGAACCCAGAAGGCTTTGA	43230
9605	CTCTCTGAGCAGCTGAAGTTCTGT	21263	GGCATCCATGCCACCTTCT	32247	ATGCCCACTGCATCTCTCT	43231
9606	CACCGGCATATGTGCCAAGAA	21264	GGTAGGTCCCACTTCCACCAT	32248	ATTTTCTTCTAACCAACCCGGCATA	43232
9607	GAATCCTTTGAACCCAGGACTTTG	21265	GGAGGACAGTGGCATGAACA	32249	AAGGGGCTGAGGTGGGAGAA	43233
9608	GGGTGATGCCACGTCCCAATTCT	21266	GCAGAAACAGATGCCCTATTGCTTA	32250	GGGATGTACTCTGTTGGGGTGTAG	43234
9609	CCAAACGGATGTATGTAGGACACCAA	21267	GTGTGTGCCATTGTGTTTGAAAAG	32251	TAGCAAACCAAACGGATGTATGT	43235
9610	CTTCTGTGATTGCTTCCCTTTGA	21268	GCTCCACAATGGGTGTGTCATGT	32252	GCTGTGTGATTGACAGATCTTCTGTGA	43236
9611	GACAGTTGGCTGACGATATTCTCTT	21269	GCTGTGCTCCTGAAGTGGCATT	32253	GTGATGACAGTTGGCTGACGAT	43237
9612	CCCCTGAAACTGGCTTATACTCT	21270	GGAAAGTAGGGCACTTCCAGGTA	32254	TGATGCTCTACTCCCTTGAAACT	43238
9613	GGTGACCAAGGTGAGTATGACA	21271	GCCCCGTGGCTTCTGTTCT	32255	CCTCTGCCACAGGTGACCAA	43239
9614	GGAAGTGACCAAGCTGACATGGAA	21272	GCTGTGATCTCTCAATGCTGTAAC	32256	AGATCTGAGTAATGTCTCTGGAAGTGA	43240
9615	CCGTGGAGTTGGTTTGAGGGAGAT	21273	GGGACGTAACATAGAGAAGGCCACAT	32257	CCTGGCCGTGGAGTTGGTTT	43241
9616	GCGCCAGGTACAGAGAATAGCAT	21274	AGGGATGGAGAGGGGAAAGCAT	32258	TCCCATCGCCAGGTACAGA	43242
9617	CCACCTGGTGAACCTTGAGCTTGA	21275	GGTCATCAGATTGGTATGACACTCT	32259	CCATCTGGAACCACTGGTGAA	43243

9618	GATCCCAAGTTGTGTGCCCTTAG	21276	AGAGCTCTGCTGGCACCTT	32260	CCCAGTTTTTCAGATCCCAGTTGT	43244
9619	GGGTGGTGAGGAGATCAGACTGTA	21277	CTCATCTTCTCCTGGCCCTTA	32261	GGGTGGGTGGTGAGGAGAT	43245
9620	CACACACAGAGAAAAGGTCACCTC	21278	AGGGCCACCTCTCACTATG	32262	CCAGGGCTTTACACACAGAGAA	43246
9621	GCAAGCCTAATCGGGATTTTACCTCTT	21279	GATAAGGCCCGCCATTTCTGAAC	32263	TCAGTGGTCTATGCAAGCCTAATC	43247
9622	GGAGAACAGAGCCACATGCTAAC	21280	AGCTGCTTGGGATGATTATGTTGA	32264	CGATGTAAGGGTGACAGGAGAACAGA	43248
9623	GCTCCTCGTGAATCCTGAAATG	21281	CATGAGGCAGGACTTGGAAAAACA	32265	TCCTCATGCTCCTCGTGAAT	43249
9624	GCCCTCTGAGAGTAGTCAGGAAACTA	21282	ACTTTGAGGCCCAATAACCATGT	32266	CTGCAAAATGACGCCCTCTGA	43250
9625	GCTGGTATGGAGAACAAATTCCTGACA	21283	GCGTGCCATTGTGCAGTCTGT	32267	GCTTTGAGCTGGTATGGAGAACAA	43251
9626	CCCTCTCTTGCTGGTCTATTTT	21284	ACAAACCTAGACAGCCCTTGTTT	32268	GACCTCCAGAAAGCCCTCTCTTG	43252
9627	CCCTGCATTCCTTCTTCTGGAT	21285	GGGTACAGAAAGCTTCAATCACATCA	32269	GCCGATCACCTGCATTCCTT	43253
9628	GCAAGGAATCTTGTGTCTATGATTG	21286	ACCAGCCTCAGATTGTCTTTTACT	32270	GCCTGAAGAGGACGAACTGTTG	43254
9629	CTGGAGGAATACCAATCAGACGACAA	21287	TGGGGTGGTCTGTGCGATT	32271	GGGTGCTGGAGGAATACCAATC	43255
9630	ATGCAAGGGTGATGAAGAAGGAA	21288	CTGTAACAGTGTCTGGTAGCAAAATG	32272	GTGCAAGCTATGCAAGGGTGATG	43256
9631	GGAGTTAAGAGGGAGTTGAAGTCAAAG	21289	GATGGAGTCTCTGTAAGATGGTAAC	32273	ACAGAAAAGGAGTTAAGAGGGAGTTG	43257
9632	ACTCTGCTCTGAGATTCTAGATAGT	21290	CACATAATTGGTGCCATTATGCATCT	32274	GAGCTTAGAAAACTGCGCTCTGA	43258
9633	TCCTCATTCCTCAGAGCTGACA	21291	TGAGTACACCTAATGGCAGGTTTT	32275	AACAGACTCCTGCTTCTCATTC	43259
9634	GACGGGTACTACGGGTCCAT	21292	CACCATGCAGCACCAGTGA	32276	AAGCCACGGACGGGTACTA	43260
9635	GACTGCCTCTATGAAGCCATTTCTTA	21293	CCCTGAGGAGGGGTGATTGT	32277	TGTCCACTCTTGACTGCCTCTA	43261
9636	CAGCCAACAAGGAACAATCTCAAAA	21294	GTGTCTGCAGGTGTGGTGT	32278	GCATGCAGCCACAAGGAACA	43262
9637	TGCCAGCTCTGCCTCTCTAA	21295	ACGAGACTCATCTTATCCCTAGAA	32279	TGATCCTCTCAGCTTCGTTTG	43263
9638	GAGTAGGACTTCTTACATGGCAGTTG	21296	TCCAAATTGGCCTTCCACAACA	32280	GCTGGTCCAGAGGAGTAGGACTT	43264
9639	ACAGTCACCTCTGCCTGTCT	21297	AGATCGGGCTCCAGCTTCTA	32281	GCAGGCTGGCTGATTTCCAACA	43265
9640	GGGTCTGATCACCCCAACATTC	21298	AGAGTGACTACTCTCCACGCAA	32282	GCCTGTTAAATAAGGGTGTGGGTCTGA	43266
9641	CCCAGGAACCTAAATGAAATGGGCATAC	21299	TGCAATAGGCTGAGTCCACAATG	32283	CTCCAAGGCTCTTATCCCAGGAA	43267
9642	TCGGAGCTGTCTGGGAAGTT	21300	GCAGTCGCTTCTCCACCATGT	32284	CCCCGATCTCCGAGTACAGAT	43268
9643	CCACATGCCTCTATATGCTTTGT	21301	GCTCAGTCTAAACAATAGCCTCCCAT	32285	TCCAGTTCCACATGCCTCCTA	43269
9644	CAGCACCACTTTGCACTACTTC	21302	GCTACAAGCCACTGTTACGTTTC	32286	GACAGCAGACCAACCTTTG	43270
9645	AGTTCTCTCGAGTCTCTTCCAGTT	21303	ACTGAAGGAATGTGGTCATGAAAGA	32287	CAGATCACTGTAGTTCTCTCCAGTCT	43271
9646	GCCCTGAGTCCATTCCAAGTCT	21304	AGGGTGGGAGTGCAACACTAAC	32288	CCAAGGAAGCCCTGAGTCCAT	43272
9647	CGCAAACTGGTATCCCTGGTCAAC	21305	GCAGCCAAGCAGGCTATTCA	32289	GCACATCCAGCGCAAACTGGTA	43273
9648	GACCAATGGAAGCAACTACAGAAACTTTG	21306	GGCCCTTTTCTCTGAGTCACTA	32290	GGTGTGGGCGTGAATATAGACCAA	43274
9649	AGCGCTCTTGCCCTTTGTT	21307	GCACATGCTCTTTGCAGGACAA	32291	CCTCACCGCGGTGCATTTGAA	43275
9650	CCTCCAACATTCTCTCTACAAAC	21308	CACTGAGGTAAATAACCAGCAGACA	32292	GGCAGTTACCTCTCCAACATTC	43276
9651	AGGGAAGTCCCTGGCTCTAAAG	21309	TCAGGAGGGGAGTGGTGGAGTAT	32293	GGAACCACAGGTGAAATAGGGAAGT	43277
9652	CAAATGGCCAGCTATATCTGATTG	21310	TTTTCTGCTGCTCATAGGGGATAG	32294	GCTTTGTCAAATGGCCAGCTA	43278
9653	CACCCAAGGAGGGCTGTAATGA	21311	AAGCCCTCCCTCTCCAGCAA	32295	GGAACATCCCTCAGCCAAACA	43279
9654	CAAAGAGATCTAGGACACAGACATAACT	21312	CATCCTTCTTTCAAAGTGGCAGATA	32296	GCTTTCCAAGAGATCTAGGACACA	43280
9655	TCCAGGTGCCATTCCCATTTG	21313	GTCTTGCTCTTACTACCTTGTGAAT	32297	GGTTCTCCAGGGGACCTTTT	43281
9656	CAAATTCTCTGTGTCATTAGCGAGAA	21314	AGCCCTAGATTAGTGCTGAAATGA	32298	CTCCAAGGAGGACCAATTCTCTTGT	43282
9657	GTGGCTCTTCCCATTTGGCTTT	21315	AGCAGTGTGGACAGAGGCTAGA	32299	CAATGACTGGATGTGTGGCTCTT	43283
9658	GCACCTGACCATACTTGCTACACT	21316	CAGTGCTTAGTGTTCACTGGAGTTAT	32300	GAGAAGACTGCACCTGACCATA	43284
9659	ACCCAGATCTCTGCTTCTAAAACTTG	21317	GTCCCTGGGAAGCAGCTAATCTAATG	32301	GCAGAGCCAACTTTTAAACCCAGAT	43285
9660	CAGAGCTCTATACTGAGCTTTCCCTCTAT	21318	CTCAGCCATACAAAGTACTGTCTT	32302	TGCATGTCCCAGAGCTCTATACT	43286
9661	CCATGCCTGCTATTGCCATAT	21319	GCCCACTGCACCTCTGTTTG	32303	CCCCACATTCCATGCCTGCTA	43287
9662	ACATGCAGGAGCTTAGAGACTGA	21320	GTGAGGATTTATTGAGAGGCGATTGT	32304	CCAGGACATCTACATGCAGGAGCTT	43288
9663	ACTGGACCCTTAGTTCCATCCATAG	21321	GACCAAGCCACACTTGGTATGA	32305	AACAAGAGAACTGGACCTTAGTTC	43289
9664	GCATGGCAGAAAACTACCTTTGTCA	21322	GCTCTGAGAGAAGCAACACACA	32306	GTTAACTTCAGCATGGCAGAAAAAC	43290
9665	GCATGTACACAGTGCATACCTCTGA	21323	GGAACAAAAATCTGCTGTCTGCATTTT	32307	TTATGGAGCGCATGTACACAGT	43291
9666	GTGACTCACACCAATGACAGTTACA	21324	GCCAAATAGAGAACTAACAGGCACAT	32308	GCCCCAGTGACTCACACCAAT	43292
9667	CCGACGTTGTCTCATCTACATTATC	21325	CTCCTGCCCTGAGTCTGAAAC	32309	CCAGGACCGACGTTGTCTATCT	43293
9668	GCTCTCTGCAAAATGGGAGGATGGTA	21326	TGTGCCAGCATCAATGCTAAAGT	32310	GCCTTGTTTGTCTCTCTGCAA	43294
9669	CTCTTGGTTTCCAGGCAGACA	21327	GCCCATCACGCCCTTCAGTA	32311	CGGTGAGGCCTTCTCTTGTTTT	43295
9670	GGTGGTTTGTGTGGGCTGTA	21328	GAGGGAAGCCGTGTTCTGATTG	32312	CACTTTCAGTGCAGGTGGTTTG	43296
9671	CCTTTGTGAATGCTGTATGCAA	21329	GCTGTCCCTTGTGAATGAGT	32313	GGAGCAGCCACAGATCCTTTGT	43297
9672	GGCAAACTCCACTTCAGCAGGAT	21330	ACATGTACACTGGGTGAGAATTTGT	32314	GTCTTTCAAAGGCAAACCTCCACTT	43298
9673	TCCACTCTGGATTCTCTGAACAAC	21331	GCTCTCAATGTTTCTGCTGCTTGT	32315	GGTCAGCTTATCCACTCTGGATTG	43299
9674	AGGGAACAGCAAAACCAATGA	21332	CTGTTTCTTGGGCTTCCAA	32316	TGCAAACTAGGGAACAGCAA	43300
9675	GCGGCAGTGTTCCTCTGTT	21333	TTCTGTGGGAGAGAGAAGTTGATAAG	32317	CCCTGAGAAGCGGCAGTGTT	43301
9676	GTCTAAGGAAGTCTGAGGCTGAATAC	21334	TGGAACAATAGCCACAGCAGTT	32318	GGAGTCAGGTCTAAGGAAGTCTGTA	43302
9677	AGCACTTCCCTTTGATCCATTTC	21335	CCAGGGCAGAGATAGCAAGT	32319	GGCCAGAAGAAGCACTTCCCTTTT	43303
9678	GGGGACATAGGCAACAGGACAA	21336	GCCCAACCGCATGTAAAGA	32320	AGGGCAGGTATAGGGGACATA	43304
9679	GAGCTTCTCACTGTCCCCTGTA	21337	GTGTCCAGAAAGGAAATGAGACA	32321	TCCCTTTCCCTGGTTGAGCTT	43305
9680	TGTCCAAGGAATGGGAAGGGTAA	21338	GGCACCTGTGAGTAGGGTTGGAT	32322	TGGCAAGTGTGTCCAAGGAAT	43306
9681	CGCCCCAACAGAAGAGGAAGTT	21339	CTGGAGTGACCTTTGGTGACTTA	32323	TCTCCACCTCGCCCCAACA	43307
9682	ACGCAATGCCTTTTCAGAGCTA	21340	GGTCATGATGCATGGGACTAACAGSTA	32324	GTGTGAGCCAGAAACGCAATG	43308

9683	CTCCATTGCCCTGTCTTCAGAGT	21341	AGTGACAGGGATCCTTTTTCATGT	32325	CCTGTTGGACTCTGTCCATTG	43309
9684	GGAAACCAACAATCTCACTGAAG	21342	CTGTTGTGGGGAACATGTCTCA	32326	CAAGGTTCTTGGAAACCAACAACAA	43310
9685	CACCCTCCAGTTTCTGGTTTCA	21343	GTGTTCCATGCCAGACAGACATC	32327	AGTAGAGAGACACCCCTCCAGTTT	43311
9686	GGCTCACTCCAAGGCCATATTC	21344	TCTGGGCTCCACACTCCAAG	32328	GAACCTATAGGCTCACTCCAAG	43312
9687	GTTGGCATCAGACAACTCTTACCTAT	21345	CAGTTTATCTGCCAGCCATA	32329	CCCAGCCATGTTGGCATCAGA	43313
9688	CGCATATTGCAGGAACCAAGTAGT	21346	GCCTGCAAATTAATTATGGGTGAGT	32330	CAGGGGAGGTTTACTTTCGCATA	43314
9689	CGAGGAGGGACCAACCAAGATTAAAC	21347	CCGTAGCCTACAGAGTGTGTGATC	32331	TCGACCCGAGGAGGGACCAA	43315
9690	AGGGCTTACCAGGGTGAGGTATC	21348	TGACAAACCAAGCACGTTTCACT	32332	ATCGCTGAGGCCAGGGCTTAC	43316
9691	CTGTGACACCCGTTTTCTGAGA	21349	GGGGAAGGGAGGTGAGTTAAAG	32333	AAGCAGGGAGACAGGCTGTGA	43317
9692	GTCTTCACTAGACTAGCCCTGCAGTA	21350	CCTAGGATTATGCTGCCAACAACT	32334	CAACGGCAGCGTCTTCACTA	43318
9693	CACAGGTCTATTTAGTGACAGGAACT	21351	CCCCTGCTGTCTGAGTTTCACTG	32335	GGCATTGCGGACACAGGTCTAT	43319
9694	ACTGATTGCATATGGGGTTTGACA	21352	CGTCAATGCCAGAAGGCTAGAAG	32336	CTCCTGTAGTCAACAACTGATTGCAT	43320
9695	AGCCTGCAGTACCCCTCTTGT	21353	CATGGCTGGCACCTTTCTGT	32337	CCCGGGTAAGCCTGCAGTA	43321
9696	TGGGGTCTTTTATGCTTTGTGT	21354	CGGCAGTGTGAAAATGGACTGA	32338	CTCCATGGTTTCTGGGGTCTTTT	43322
9697	CTGAGTAGGACAGTATCCCAGAGT	21355	GCCAGCCTGGACCACATCA	32339	AGGCCACTGAGTAGGACAGTGA	43323
9698	CAAAGCTGCAAAAGTAAACTTGGAT	21356	GGATGGGTTTGTAGAGCTAATTTG	32340	CATGCCAACCAAGCTGCAAAAG	43324
9699	GCCCACTCTTTATGGAACGTA	21357	CCCAGGCACAGGCAGAATTG	32341	GCCCTGTAGCCCACTCTTTA	43325
9700	CAGCAGAGCTGGTATTTAAGTATTCTGGTT	21358	AGTCTTGTAAACGGACAGACCTCTA	32342	CCAGTACACAGCAGAGCTGGTATTTAAG	43326
9701	GGTCCAAGATGGAATGGGTTCT	21359	CTCCTGTTTCAGCCCTTCTAC	32343	CTCAACACAGGATCTGGTCCAA	43327
9702	GAGCTTAGGCTGTTTCTATCCAGTCA	21360	GGTGAACCGTAGGCAACTGAAC	32344	GGGCTCAAGAGCTTAGGCTGTTTCT	43328
9703	CCTGAAACTTGCAAAGCCTCAGAGA	21361	GCTAATTTTAAAGCCAGCCGAAC	32345	GGAGCACACACACCTGAAACTTG	43329
9704	TGCAGTGTCAAGCTTTGTGAGA	21362	GGAAGGAAAACTTCTCCCTGAGGTAT	32346	TGCCAGCCATGCAGTGTCAA	43330
9705	GCCAGCACTCAAACTAGACTT	21363	GGTTCGGTCTGGGGAGAGATTG	32347	TCAACAATGCCAGCACTCACA	43331
9706	TGTGTGGGCTTTCACTCTCAAG	21364	CGGTGGCCAGAGGAATGAAATAGT	32348	AGGAACCAAGGAGGCATGTGT	43332
9707	TGCATGGATCTTCATAGTCTTACTCT	21365	GGTGTAGAAAGAGTTCAAGGCACCTTTG	32349	CAGAGAGGATTGCATGGATCTTCATAG	43333
9708	GAGTCTTCTCTTCTCCACCTAAAA	21366	CCTCTTAGAGCTGGGTCTTGGA	32350	CCTGTGGTTTCTACTGCTTAGAGTT	43334
9709	CGTGAGCATTAGTAGCAGTGACA	21367	GCACGTGCTTACTCTGTGCTT	32351	GAACCTGAAAACTGAGCATTAGT	43335
9710	GACTGTGAGCAAGCAACAATACAAG	21368	TCCCGGGGTGTCATTTCTTGA	32352	CAGTACCTGGAGCTGCAGCAA	43336
9711	CTGAGATCCAAGGAGCTGTACAAAG	21369	CTCCTTCTGCTGCCAATTCTGT	32353	GTGAAAACGAGGAACTGAGATCCAA	43337
9712	GGAGGTTTGGAACTGGTAGAGAGA	21370	GCCTCCATAGCAGTCTGTGAATC	32354	CTGTATTGGGGAGGTTTGGA	43338
9713	GGCTGTAGGTTGGGAGAGGAT	21371	CTCCAATGCAGGACAGGAAAACATC	32355	GGGACAGTTGGCTGTTAGGTT	43339
9714	CTGCCCTTCATAGTTGCCACCAA	21372	CAACATATGGCATGCTGAGAAC	32356	AGAGCTCAGCTGCCCTCCATAG	43340
9715	CTCTGAAAAAGGCTGAGAAAACTCCTA	21373	CGTGTGCAGCAACTTAACACTTTG	32357	CACGTCCCAGTTTCTCTGGAA	43341
9716	GTTGAGGGCTAGAGGGCTAAGA	21374	CTGTTGACAAACTCTCTCCACCTA	32358	GTCCACTGATTGTTGAGGGCTAGA	43342
9717	AAGGCTGGAGCTAGGAGTCACA	21375	ACTGAGAACCAAGTTGATGAGAGAGT	32359	CCACACCATAAGGCTGGAGCTA	43343
9718	GCCATGACAGTTGAGTCACACAT	21376	GGGAAGAACCAGAATCACTGGAA	32360	CCTGCCTGAAAAATTAAGCCATGACAGT	43344
9719	ACTGCATTCCCACTACCAAA	21377	TGGGGCGATAGCGAGTCT	32361	CCCCAATACCACTGATGCAT	43345
9720	TGAAACCTCAGTAGGGATCTTCCAT	21378	GCTGGTGTATTCCTGGACAGAA	32362	CAGAGGAACAGAATGAAACCTCAGT	43346
9721	GGTTGTGAAGCCGCACTTGTT	21379	GCGGGTAGTGGTGGTGTTC	32363	TGAATCGTGTCTGGTTGTGAAG	43347
9722	GCAAGAGGATTGGGCATAGTGTA	21380	CAGCACTGAGAAACCCGCTCTT	32364	GGCTGCATGCAAGAGGATTG	43348
9723	GCGCAGCCAGAAATGATGAAC	21381	GCACCACATGAGAGAGAGAAG	32365	AACAGAAGCGCAGCCAGAA	43349
9724	CCGTCTGCTTACATCTCCATTTAGGTT	21382	GTCCAGCTAAAGGTTTCTCTGT	32366	CCTCAGTTACCGTCTGCTACATC	43350
9725	CACCTCTTCACTATCTGAGGCCATGAA	21383	CTGACAACCATCTAACTGGGAACACA	32367	CTCCATTACAGATAGCACTCTTCACT	43351
9726	TCCCTTCAGCAGAGCAGTCA	21384	GGCCATGCAGGCTGACAGATT	32368	CCACAACCCACAGTCCCTTCA	43352
9727	GACAGAGATGGTGCATGGATGT	21385	GTACCCATTGTGAGTGTGAATGAAG	32369	GATTTGGACCTGATCAGTCTTGACA	43353
9728	GTGCGCTCCTGTTAATGAGTGT	21386	CAGGAACCAAGATGACGGGTGAT	32370	TGGAGTAGTGCCTGCTGTT	43354
9729	CCCTCTTGGTGAATGCTCTAGT	21387	CCATGGATGGTGTGGACAAATGA	32371	CCATCTGTCCCTCTGGTGAATG	43355
9730	GTGGTAAGTTTGAAGGAGGCTTA	21388	CAGCTCATACAGATACGTGGTTATATCTTG	32372	GCATAGCAAAGTGGTAAGTTTGGA	43356
9731	GCGCAGGAATGTGTGCATGA	21389	AGACATAGGGTGTGACGTGCT	32373	CAATCCTTATGCGCAGGAATG	43357
9732	CACCTCCTTGTGCTACCATTA	21390	TCAGTGAGGTGGTGTGGAAGA	32374	CTCCAAATCTGGTCACTCTCTTG	43358
9733	GGGGCCAGATACACTCTTCTTC	21391	TGTGCTCTCACTGTGACCACTT	32375	ATCTGCAGGGGGCCAGATACA	43359
9734	CCTGTCTTTGGAATCCGACCACTA	21392	CCAGGTGGAGCCACACGAA	32376	CCCATCAAACTCCTGTCTTTGGA	43360
9735	GCTTCCCGAACCAAGTTCACT	21393	TCTCTGTGCTGTTTCTTTGT	32377	GCCAAGCAAGCTTTCCGACAA	43361
9736	GGGGAGAGGATGAAGTGGGTTT	21394	CCAGTGAAATTTTCTGCTCCAAGA	32378	CCTGCACTGTGGGCTGGAA	43362
9737	GGGCCTGGGTATCCTAACCTCAT	21395	GACTGGGTACAGATGTGATTTGGAAGAA	32379	AAGTCCAAGGGCCTGGGTATC	43363
9738	TCAGCGCAATTACCAATCCTTAG	21396	AGCGGGGAAGCTCCAGTCA	32380	GGAATCACCTTCAGCGCAATTAC	43364
9739	GGGGATTGTTAGGACTTATCACACT	21397	GCCCCCTGGGCTTCACTATGT	32381	GGAGCAACATACAGAGGGGATTG	43365
9740	TGGGGCTGAAGGGTTGACTGTA	21398	GCTGAGCTCCCAACCATGTGA	32382	AAATGGTGCTGGGGCTGAA	43366
9741	CTTTTGCCATTCTGGACACTCT	21399	TCTGAAACCTGTGAGGGGACTT	32383	GCCCACACCACTTCACTTTG	43367
9742	GGAACACCTACCTTTATGTGTAAC	21400	GACAGGGCAGAGTGAAGGTATTC	32384	AGGGGAGCAGGAAATAGGAACA	43368
9743	GCCTGAGCAAAAGTAAAGTTAGGTTCT	21401	TGCTTTTGTATATGAGCTGGAT	32385	CAGGAAGCCTGAGCAAAAGTAAGT	43369
9744	TCCTAGGGCTGAGTTTGTAGATTG	21402	GCTTACCAGGTGTATAATCCTTGAGTTCT	32386	GTGCAATGCTCCTAGGGCTGAGT	43370
9745	GGATGGAGGGTCTTTCATTTTCT	21403	GCTAGGCACGATGAGTAGTGACTT	32387	AGGTGGGGTGTGGAAGGAT	43371
9746	GCCTGGAACCAATGATTGTCAAAGA	21404	TCCTTTGCTGTGAGCTGTGTA	32388	CCCCAGAGATAGCCTGGAACCAA	43372
9747	GTGGGACTCAAAGATCTTCCAGAA	21405	GGCTGTACAAATATATCCCAATCCCTT	32389	GGATACAGATGTGGGACTCAAAGAT	43373

9748	GCCCAGGGTTCAAGTTTAGTGTTTG	21406	GCATGGAAAGCAGGGCTTTAG	32390	TCAGAGCCCAGGGTTCAAGTT	43374
9749	CCACCTCCAAAACAAGTCACTCT	21407	AGACAAGTGACGGAGGTCTCA	32391	GGCTCCCACCTCCAAAACA	43375
9750	GCCAGAGCATGTACCTAGCAAAC	21408	CAATGTCTTCCCTCTATCCTGATGTG	32392	CAAGCAGTGCCAGAGCATGT	43376
9751	GCACCTTGGAAATAGGGATTGA	21409	CTAGGTAGTCACAGAGGCGATTTC	32393	GGGGACATAAATGCACCTTGGA	43377
9752	GACATTGGCTGTCAAAGTTCATT	21410	CAGTGAGAGAAGGAAAGAGAGCTTA	32394	CTTAGTACTTGAGACATTGGCTGTCA	43378
9753	AGCCATACCTTAGGGCCAGAAC	21411	TCTTTAGCTGGAGGCTATGTTG	32395	GGGTACCAGAGGCATGATTAGCCATA	43379
9754	CACCTGCAGTTGACATGGGAAA	21412	ACCTCCTCTAGCTCATGAAGAACAA	32396	GGGAATTTACACCCCTGCAGTTGA	43380
9755	GGAAACTCAGTTTAAGCCATAAGGAAA	21413	GGTGTACTCCAGCAATGGACAGA	32397	AGGCTGGGAAACTCAGGTTTAAG	43381
9756	GGCTTGAGTTGGCCTTCTCAGAT	21414	GGATGGGTCCATACTGTCTTAGGTT	32398	GCTTCTGCCAATGGGCTTGAGT	43382
9757	GCTTAATTGCCAGATTCCGTATTCAAG	21415	CCCATGTGCTTCTGGTCTTCT	32399	CCTGGGAGTGTCTTAATTGCCAGAT	43383
9758	GGCTGGGATATCAAAGGAGCTAGA	21416	GGTGATCACTACGCGGGTAAAC	32400	TTCTCTTCTGTTTTGGCTGGGATA	43384
9759	CAGTTGGTCAACACGTGTGTTT	21417	GGAAGATGAAGTGAAGGAGCTGCTA	32401	GCCCATCAATCTAGTCAGTTG	43385
9760	TGCCAAGGTAGATCTCGTTCAATTC	21418	CGTGCCAGCGTTCCACAT	32402	GGCATCCGTCAATTGCCAAGSTA	43386
9761	AGGCCAGGGGCTGTGTCT	21419	ACCTCCCATCAATCAGCAGTTTGA	32403	TGGCTTGAGGCCAGGAGTTTG	43387
9762	GCACACTTGCTGAAATGAGACACA	21420	GTCCTGAGAATAGGCCAATCCAATTA	32404	CAAGCCCATTGTAGCACACTT	43388
9763	GGGCTAGAACAAAGCAAGT	21421	ACAATGTCCCACTTCTGATTTGT	32405	CAGAAAAACAGGGGCTAGAACAAC	43389
9764	GTGACGTGTGTCACTACTGGAA	21422	GGGTAACATGCCCCGGTCAA	32406	TGCAGCCTGTGACGTGTGT	43390
9765	GTCCCAACCAAACTGCACAGA	21423	AAAAGAACAAAGTGGAATGCCAGTAG	32407	GCAGTTAGCATTGTCCCAACCAA	43391
9766	GGCAGGACTGGTTGAGAATC	21424	AGGCAGACCTCTGAGCACTT	32408	TAGGGCAGGCAGGACTGGTT	43392
9767	AGAGCCTGAGCAACGTGTATAAG	21425	ACAGTGGTACTCGGAATTTGTTGT	32409	TGTGCTTAAAGAGCCTGAGCAA	43393
9768	TGATGGGCCCTAGTTTCTACTTTTG	21426	AGGATGGCTCAGGTTAATAGAGTAGT	32410	CCCTGTGATGGGCCCTAGTTT	43394
9769	AGGCTAAGGTTAAGGCACTGAAG	21427	TCCTGGCAATTGCTCTTTTGT	32411	TGTTGGGCTAAGGCTAAGGTTAAG	43395
9770	CCTGCTTCCCTGCCACTTTTG	21428	CCCAACTGAGAAAGGCTTACCTTCTAC	32412	CTGGAGGAAATGTCCTGTCT	43396
9771	CGTGCGGTGACTTCTTCTGTGA	21429	AAGGAAGGTGAGGAAAGGAAAG	32413	TGTGAGTCGTGCGGTGACTT	43397
9772	TGCTGAAAGGTGCGCATATTTGT	21430	AGATAACGAGGACAGAGCTTATCTTAC	32414	GTCGTCAATTGCTTTTGCTGAA	43398
9773	CCCTCTCAATGTCCATTGTGTAGA	21431	TCTATTGACTCTAGGTGCTGTCTTA	32415	CACAGACGAGTCCCTCTCAATG	43399
9774	GCAAAGAGAGCCCTCGAAGTT	21432	GTCTCCAGTCAGCTCCAATGT	32416	GGACTCTTGCAATTCATAGGCAAAG	43400
9775	GGAAAGGAACAACCTCATTATGGTTTCA	21433	GGGAATACAAACCATGCTCTCA	32417	TGACAAAAGGAAGGAACAACCTCAT	43401
9776	CCCCACAATGAGTCTCTGCAACT	21434	TGACCTCAGACAGTTTGCTTTAAC	32418	CTTCCACAAAACCCACAATGA	43402
9777	CAACAGGACTTGATCACCAGCAA	21435	AGCGAGACCTCTGCTCAGTA	32419	TTCCACTCTCAACAGGACTTGA	43403
9778	TCCACAGTGACACGGAGCTA	21436	AGGATCCTACTGGAGATCAATCAGAAA	32420	CAGTGAATCTATTTCACAGTGA	43404
9779	CACAGAATCTCTGCTGCATCA	21437	CCTCTTTTGTCTCTGCTTCCCATAG	32421	GGAGCAGGATTCAGGGAAGACA	43405
9780	GCTGGTTGATAAATGCCACGACTTC	21438	GCTCCACACAGGTTGAGGAGAT	32422	GCTGAACATCTGTGCTGGTTGA	43406
9781	GCTTTGGGGTACTCCCTTCTCTA	21439	GTGGCTCTGATCCCTGTCACTAAG	32423	CTGTCTGTCCCAAGTGCTTT	43407
9782	GCCAGGGATAAAGCTGGCTTCAGA	21440	CTCCTGGGACCTTTGAGTACT	32424	AGTGGGAAGGCCAGGGATAAAG	43408
9783	CTCTCAGTGCAATTAGAGGACTTC	21441	GAATTTCAAGCTAAGGGAAGATGTGT	32425	GACAGGAACTCCTCAGTGCAA	43409
9784	GCTGCAACAAGGGATCAGACTCA	21442	CAGGTCCCTGGTGTCTTGTTT	32426	GAGGTAATGCTCAGTGTGCAACA	43410
9785	GCTTCTGAATGTCTCTGGAATGACAA	21443	GCCAGAGGTAGGGGTGGAAGT	32427	TCGAGCCTATCCATTCTAGCTTCT	43411
9786	TGCCAGGTAGTGGGTGAGTCAA	21444	CGGATTGACAAACACGCACTGA	32428	TGTGTGCTGCGCAGGTAGT	43412
9787	CTCTAGCCGCAAGTAGAATGAAG	21445	CCATAACTTTCTTCAAGCACCACTTTG	32429	TACCTCGTAGCCGCAAGTA	43413
9788	AGATGGAGGCTCCTCTTGACA	21446	GGGGCATGTGGGACTTTAGTTCT	32430	GAAGACTGCTTCAAAAAGGCAGATG	43414
9789	GATTGCCAAGGAACATATAGAGGAA	21447	GGCTTCTTGACCTCCATGGGAATG	32431	ACTGCAGGAGTGACTGAGATTG	43415
9790	CAGACATGTGTGGAGCGACTGT	21448	AATGATGTACCTACTGCACTCTGTT	32432	GCAATCCCTGGTTCAGCAGACA	43416
9791	CCCTGGAACAGTACCTACCCAAT	21449	ACAGGAGCCCTGATAGCCATA	32433	GAGCAAGCCCTGGAACACAGT	43417
9792	GGCCAAATGCCTGCAAAAGA	21450	AACCTGTAGCTAGTGCTTTATGTCA	32434	AGTAAGGGAAGGAAAGGCCAAATG	43418
9793	AGCCAAAGAGCTGGTTTTAGAGA	21451	GTTTTGCAACAAAGCTCCACTCT	32435	CAGCAAGCCAGTGAAGTGCTT	43419
9794	TGTCCTCAAACTCAGCACCTTT	21452	TCAAGTTAAGGAGTGGCTTTGAGT	32436	CACATGACCCCACTGTCTTCAAAC	43420
9795	CTTTGTGTCCCTCCCTTCT	21453	GAGGGAAAGCCCTAAGCCAAGAT	32437	ATGGCTGCCCTCCCTTTGTGT	43421
9796	GGTGGATCTTTGTAGGGCTACATTTCTA	21454	CCCCTGAGGGTAAGTGGTACCTAA	32438	CACCTTTAGGGGAACCTTGGTGATCT	43422
9797	CCAGATCTGACTTCATGGAGTGTG	21455	TGTCCAGCAGGGGACTGAGTAT	32439	CAGTACTCCATCCAGATCTGACTTCAT	43423
9798	GTCCTGCTACATCTAACCTTCTTT	21456	AACACCCTTCAAGCTTCCCAAT	32440	CACCTGTCCAAGTCTGCTACATC	43424
9799	GCTCAGAGAGTCCATGACCACTT	21457	GCGGTACTGATGCTGCTCTGTT	32441	GTGATAGAAATCCTGCTCAGAGAGT	43425
9800	GCTCTGCTCCATCTCAGTCACA	21458	AAGCCGGTGGAGGTGTCTT	32442	GGTCTCACAAGCTCTGCTCCAT	43426
9801	GTGGTGTAAAGGTTAGAAGCACAAA	21459	CCAAGTGCTGGACCAATCT	32443	TGATAGATCTGTGGTGTAAGGTTAG	43427
9802	CAGTGCCAGAAATTGCCAACA	21460	TGGCGGGCATAGGTACACA	32444	CAGCTCAGTGCCCAAGAA	43428
9803	CGCTTAGGAGTTTGCAGTACA	21461	GCAGCTAGCAGGAGTAGAAAAATTG	32445	CAGGCACAGCCTGGAGAAC	43429
9804	AGAGCAAGGCCCACTCAGAGA	21462	GGGTGCTGTTCAATAAAGCTGTGTA	32446	AAACTTCCCATTGACAGAGCAA	43430
9805	GGTGAGAGTGAATCTGGCAAATG	21463	GCTGTGATTCAAATCAGTTGGGTCTGT	32447	GGCACTGAAGTTAGGTGGAGAGT	43431
9806	GCCCAATAAAGTGGTGCTTGACT	21464	CCCAGGATGGAGAGGGGATGAAT	32448	TGGCACTGCAGCCCCAATAA	43432
9807	CAGTGTGGCAGCCAGGATACA	21465	CTTTAGATAGTACCTCCAAGGCTGAT	32449	TGGGCACAGATGCAGTGTG	43433
9808	ACTCCCAACCCAGCAGTCT	21466	CCCATAGCTCCTGGTGCACT	32450	CTAGAATACTCCCAAGCTCACT	43434
9809	CTCTGGGACTCTTCCATCAGA	21467	CTCAAAGCATGCAGCTAGATGA	32451	ACCTTGCCTCTGGGGACTCT	43435
9810	GCCTGGAATGCTAGGCTTAGA	21468	CCCTGCTCTCAAGGTCCTA	32452	GGAAACACAGAAAGCTGGAACCT	43436
9811	CCCAACTGTCACTCTCTCTATG	21469	GTCTCTGCTAAGAAAGATGGAACGATGA	32453	GTGTGAATTTCCAATCCCACTGTCA	43437
9812	CGGGGTGGGAAGAAGTAGGACAT	21470	TCAGGCCACAGAGGCATTGA	32454	TCAAGTCGGGGTGGGAAGAA	43438

9813	GAAAGCAAGTCCATTGCTCCAAA	21471	GCATTTTCTGGAGAGCAAGTCTATTG	32455	CAGAAAAGTGACTGGAAAGCAAGT	43439
9814	GCACAGGATGAGGCTATTCTCTGAA	21472	CTCTTTAGCAGGCCAGTTTCT	32456	GTCTTTCCCAAAGCACAGGATGA	43440
9815	GCTGCTTGGAAATAGTTTGTCTCATCTTAG	21473	CTGAGATGTGTAGCGTCATTGCTT	32457	TCTGATGCTGCTTGAATAGTTTGT	43441
9816	CAGGGGTAGCCATCTGATTACACA	21474	CTGTCATCTGTGACGCTGGAT	32458	GCACGCTTTTAATCAGGGGTAG	43442
9817	CAAGGTGGGCCAAGGAACTGA	21475	CTCTTCTATCGAGGTGGGTTTCA	32459	TGGGAGGAGGACAGCCACAA	43443
9818	ACCCACTCCAATTTGAAGCAAAC	21476	ACACCTGGTCAGGTCGTAATAGT	32460	CCCAGCACCCACTCCAATT	43444
9819	CAGGCTTGAAAGGGAGTGATAG	21477	CAGGGGATCTAGAGGCAGCTT	32461	CACAGGTTACCTTAATCAGGCTTGGAA	43445
9820	GACAGCCAAAAGCCAGGTGTTAG	21478	CCTTACAAGGTGTGTCTGTGCTTCT	32462	GGTGGCAATGACAGCCAAAAG	43446
9821	GGTTGTTGGCTGTTAGAGCGTATTTT	21479	GCTTTGTTAAGCACTGTCTGTTGAGA	32463	CACTCACATGGTTGTTGGCTGTTAG	43447
9822	TGGGTGGTAGGGGCACATTCA	21480	GTCCAGGATAAGGAGGTGGTGGTAT	32464	CTTTGGCCTGTATATTGGGTGGTA	43448
9823	GGGTGTTATAGCCAGACCAGAAAAACA	21481	CCTGTCAATTATGAAAACTGGGCCTTTTGT	32465	CTCCAAATGTGAGCAGGGTGT	43449
9824	CCAGGTAGCTAAGCAGTGAAGACA	21482	GAGGTGAATGATGAGGAGATACAGAGAT	32466	CTTGGCTTCAGAGTTTCCAGGTA	43450
9825	GGCAAGGCAATTTGGATTATGCTTCA	21483	GATGACAAGGGTACAGAAAGATCACT	32467	AGCTGGCAAGGCAATTTGGAT	43451
9826	GGAATGTCGCTTTCCTTCACTGCTT	21484	ACCTGAGCTGCACTAACTAGACTCTT	32468	AGAAACAACACAGGAATGCTGCTT	43452
9827	CCTGTACAGCATCTGTGCTAT	21485	GGGGCAGGTACAGGCAAAT	32469	CGCTTGCTACCACTGTGA	43453
9828	GAAACAGGCCAGATTCCGCTAAG	21486	GGCCAGGCTGAGTTTCTTCT	32470	CCAAGGAACCTGACAATGTGTGAA	43454
9829	GTTTCTTTTACCTCCAACATGGAA	21487	GTGCAGCACACAGAAAATACATCACT	32471	CACTGTGTGTGCTTCTCATCTTGT	43455
9830	CCCTACTTGGGTACCTTGTGCTA	21488	GGCTTTGCAACCTGCTCAATTCTCTA	32472	CCACAGCCCATTTTAACCCCTACTTG	43456
9831	AGGTTGAGTCCATGAGTACAGACA	21489	CACGATAATGCCACTTAGGTATGATG	32473	GGAAGGGAAGGTTGAGTCCATGA	43457
9832	CCGAACTTCAGGGAATAGCCAAGA	21490	CCCCACAGCCTAGGGTAATGAA	32474	ACCCATAGGGTGCCGAACTT	43458
9833	GCTCAAACCCACCTACTTGTCT	21491	GTGCCAAAGAAATGGCTAGGTAATGTTG	32475	AGCAGGCCAGCTCAAAAC	43459
9834	CCTCCCCAAGAAGTAGTCTTCGAT	21492	GACATGGTGAAGTGCTCCTAACA	32476	CTGTGTAATCTCTCCCCAAGAAG	43460
9835	GCAATCTCCTCACCCCTCTGGAGAA	21493	ACTGATTCAATGTGTCACCCATT	32477	GAGTCTGATGTGTGGTGCAATC	43461
9836	AGCAACAAGCTTGGTATGTTCAAG	21494	TGCTCTGCACATTTTCACTCTGA	32478	ACTGCTGAGGCAGCAACAA	43462
9837	CCCCAGTGTTTGAGTGAGTACTTTG	21495	TGGTGTAGCTGGGAAAAGTGAAG	32479	GGATTGTACCCAGTGTTTGAGT	43463
9838	CCCACTGGGAGAAAAGGGAGTGA	21496	TGGTCAGGCAGTGTGGAAC	32480	TCCCTTGCCCACTGGGAGAAA	43464
9839	GGCTGAATAGACAACAGCCTTGA	21497	TCCTCAGGGGAGTGGGTTTGA	32481	GCAAGCTGTGGCTGAATAGACAAC	43465
9840	CTCTGTCAACCACTCTGTGTCAT	21498	GAGTAATCTGAGAGCTCAAGGAGTCAA	32482	GTGCTCTCACTCTGTCAACCACT	43466
9841	CTCTTCATGGAATGGGTGATCCTT	21499	CTGAAGGGTCTGTGCTTGGTAAG	32483	TCCACAGCTTCGAACTCTTCAT	43467
9842	CCTTCTCACTCCCTAGCTTTGTT	21500	TCTCTCATCTCTGAGTGTGGAATG	32484	GGGATTGTCAACCTCTCTCTCA	43468
9843	GGCTGTGCTGAAGTTTGTCTCT	21501	CTGTGCAACCTTCATGCTCACAAC	32485	GCCTCCTAGGCTGTGTGAA	43469
9844	CGTAACCTCTACATGGCCAATGACT	21502	CGGCTTCCCCCTAGCTCTTCTG	32486	TGTGCTCCCCGTAACCTCTACA	43470
9845	GTCCTCTCCTTGTGTCTCCAAAG	21503	GCTGACGGGCAGAGTTGTCTA	32487	GGACTCAGCGTCTCTCCTT	43471
9846	GTCTGCTTGGATGTAGAGAGGTCAA	21504	AGGCTGGCTCTTGTCTCAAC	32488	GCAAGTTATGCTGCTTGGATGTAG	43472
9847	CAGGGCTACCAAGGTTTTCATT	21505	GCACAGTTAGATTTAAGGCGTGAAC	32489	CTCTTGAAAAATCTATCTACAGGGCTACCAA	43473
9848	GGAGACGATTTCCCAATGTCAATGTT	21506	ATGAGCAAGGAGAGGATTTAGCAA	32490	CACATGGCTTTTGGAGACGATTC	43474
9849	CAGTTACTTTTACCCAGACATTGTATC	21507	CAGTGAAGCAGTCAGGTTGGTT	32491	GGATTGACCCCTTCCCACTTAC	43475
9850	CCTTGGGTGGGAATTTTGAAGAGAAA	21508	TGTGGACACTGGGACCTCTCT	32492	GCATGTTCTTGGGTGGGAAT	43476
9851	AGGCCAGTGATGACACAGAT	21509	GACCCATCTGTGAAGGATGCAA	32493	ATGTGGCAGGCCAGTGA	43477
9852	GGCGGATAAGCCAGATAGTTTC	21510	GGATGCTTGAGGGAAAAGTGGAT	32494	GCCTGAGTTGACAGGCGGATAA	43478
9853	GGGCAGAAACCATATCTTTGCATT	21511	TTTCTGTGCTTACTTCTGTGCTA	32495	GCTCTGTTAGGGCAGAAACCAT	43479
9854	GCACCTTGGATGATCTTGAGAAAA	21512	TGTAACCTCTGGGATTGGCTT	32496	CCATTGATACAGCACCTTGGATGA	43480
9855	CCTCCGACCTACAAAACACTAGTAA	21513	GGAAACGCAGCTAGCCTTAGA	32497	CTACTTTTCAAATCTCCGACCTACA	43481
9856	GCAAGGATGGGTTCAGTTGCATT	21514	AGCCAGGTACCAAGAGACT	32498	GGTGGTTTGCAAGGATGGGTTC	43482
9857	CCAATCATAGCATTGAGGGCCAAAG	21515	GGAAGCAAGGCCACACATCA	32499	GCTCCAGATCCCACTCATAGCATTG	43483
9858	CCAGCAGAAAGTGGGATGTGA	21516	CCTCCCGCAGCTGACAACTCA	32500	ATTCACCAAGCCAGCAGAGAA	43484
9859	ACAATTGTGATGCCGTGGGAAT	21517	GCCCATTTATTCTCTGCCTAAACAACAAG	32501	GTCAACATACATAGGGCCAGAACA	43485
9860	CAGGGCTTGATCTTTGGTAGAGTGA	21518	ATTCCTTAAACCATCCAGGATTC	32502	AAAAGTACAGGGCTTGATCTTTG	43486
9861	GGGGCTTTTGAAGGCTGGAAGTATTAG	21519	GCAAATAGCTGTGAGCCAGCATCA	32503	GGAAGGCACATGGGGCTTTTGT	43487
9862	GGAGACCTGTCAATCCACAGAAG	21520	AGCAGGCCAGTAGGCAGAGA	32504	CCAGCCTTTGGAGACCTGTCAA	43488
9863	CCAGGTGGGTACAGAAAACATCACA	21521	GGGAAAACTCTTCTAAGCTTCAGTT	32505	TCAAAGTCCAGGTGGGTGAGA	43489
9864	GGCGTCACTCAGGAAAAATTAACCAT	21522	TTCCCTTTCAGTGTAACCTGTGT	32506	AAGCCAGGCGCTCACTCA	43490
9865	CGTGTCTGAGGACCTACAGTTATT	21523	GAAGTACCAGCGGTGCATTTTC	32507	CCTGGGCTTCCGTGTTCTGA	43491
9866	TGACAGTGCACACAGTGACTT	21524	CTACCCAGGGATTCAATGACA	32508	GGGCATGGGTGTGGAATGACA	43492
9867	ACCAGATGGGCTCCACACA	21525	GCAGTCTGTGATGATGAAAAAC	32509	CACGTAACCTCTGCCACCAT	43493
9868	CCCAACCTCAGCATAGCTTTTGA	21526	ACAGTGTGTTTGTGATACAGCTTCT	32510	CCACCAATCCCACTGACGAT	43494
9869	GGGCTTTGCTCAGTCTTCTGTTT	21527	CCATGGCATAGGCATGAGGAT	32511	TGGAGTGCTGGAGGGCTTT	43495
9870	GCAGATCCAGTAAAGACAACCTGTCA	21528	GCTGGACAGCTTGATCTGAAGTT	32512	TGGTCCATATGCAGATCCAGTAAAG	43496
9871	GCACAGTTCCCTTTTCTCCTT	21529	AGCCCCAGAGGCCCTAAG	32513	CCATGCATTTTATAGCACCAGTTT	43497
9872	CTGTTTTCCACATGCTGTGCT	21530	TGCTATGCTCCCTCTGGTAGT	32514	CCAAACAAAGCTGTTTCCACAT	43498
9873	CCAGATCAGTCTCACCTTGT	21531	GATGACTGCTTTTCTCCGTAATAAAC	32515	GGGGATAAAATAGGACCAACAGAT	43499
9874	CTGATAGCTTGACCTAAGCCTAGTA	21532	CAGATGAAGAACCCTAGACTCCAAC	32516	CAGAAGTTCCACTGATAGCTTGTA	43500
9875	GCTCTCTCCCTCCAGTCT	21533	GCAGGAGCCCGTGATTTG	32517	TAGGCGGCCAGCCATCTCT	43501
9876	GAGGAAGACAGCTTGGAAAGTTTGA	21534	GGGGCAGGAATGGGAATCAAGGTA	32518	TGGTGGTGGGTGCAGAGA	43502
9877	CACTAACCCCTAAACACCTCTCTGAA	21535	TTAGGGGCCATGGCTCACA	32519	TGGGGCTGCCGATCTCACTAA	43503

9878	CTCCCCAAGGGTACAGTAGGAA	21536	CCCTTATTACATGCCTCCAGATACTTTC	32520	AGACATGTTCCCTCTCCCCAA	43504
9879	GTTCTTCGCTTCCCTGACCAT	21537	ACAGGAAGTAAGGGAGCAAAGATG	32521	ACTGCATGCCGTGGTCTTCT	43505
9880	GTCCAGTGAGTGGTATCTGTTGGAA	21538	CAGCCACCACAAATACACTTAGAAC	32522	GGGAGTGGAGTATTTATGTCCAGTGA	43506
9881	GACCTGAACAAGAATGTGATGCCTAAG	21539	GACTCTCACTGTGGCAAGAAC	32523	ATCACTGGAGCGCTTGCTT	43507
9882	TGCCAGGAGAAGATCCAAGTTTTG	21540	CAGAGGGCTCTCCACTGGATA	32524	CCAAAGATCATGCCAGGAGAAGA	43508
9883	AACAGAGGGTATGGGATGTGTTG	21541	ACAAAGATGCAGAAGTCTCACAA	32525	CCATTTCCAGGTAACACAGAGGGTATG	43509
9884	GACCCAATCTCTTTCTCTGT	21542	CCAGTGAAGTGGGTGCTACTCT	32526	CAGTCAATACCTGTCTGACCCAAATC	43510
9885	TGGGGAGGTGTTGATGGAGTTG	21543	CACTTTGCCTCTATCTTTCCAGGT	32527	AAGATCGGACTGGGGAGGTGTT	43511
9886	ACTCGCTAACCCACGACTT	21544	GTGTGGCCAAATGAAATCAACACA	32528	GTTGTGATTCATCAAACTCGCTAA	43512
9887	CCTGGGATTTGAAGGATTTCTAGGGAAT	21545	GGAAGAATTGATCACTGACACAGTGGAA	32529	GCTGCCTGGGATTTGAAGGAT	43513
9888	GGAGTAGCTGTGCCAACCTT	21546	GCAAGGGCCAAGAAGTGACA	32530	CTGTGGGCCAATTCCTCAT	43514
9889	CAGAGCAAGGCAGTCATACAAGTGA	21547	CACCTTTTAATTGCCTGGACTGGTA	32531	GGCAGAGTAACTTGAACAGAGCAA	43515
9890	ACACCCCTTCACTTTCCTTCTCT	21548	GCATCCTCTCAAAGCACAAAGACA	32532	GTTTATTCTACAAACACCCCTTCACT	43516
9891	GGCAACGTAAGGAAGGATGACT	21549	CGTGGTGAGAGAAGACACACT	32533	GGACATATGTGGGAAGGCAACGTAAG	43517
9892	GTGTAGCAGAAGTGAGGCAAGT	21550	CCTATTATGCAGCCTTCAACTCTACT	32534	AGAGCAGGAAGGCCAGTGTA	43518
9893	CCAGCTAATTGGTGGCAGGTT	21551	ACAAACTGCTGCCCTTTCAT	32535	TCAGGGTGATCAGCCAGCTA	43519
9894	GTGGCAAAGCAGTTTTGTGGTTT	21552	CAATGTGTGGTGACCAGTTATCCAA	32536	GGTCACTATGTGGCAAAGCAGTT	43520
9895	GGTGAGCTATGTGAAAATGCCCTAT	21553	GCCAACCTGGCCACATATCATTG	32537	GGCTGGCCTAAAAGGGATTCT	43521
9896	CCTTTGACAACGTATGTAAGCCAAT	21554	CCTGACACTGGTACTCAATCTTCTAC	32538	ACATGATCCACAACCTTTGACAAAC	43522
9897	TCACCATCACCAATAACAGCAGTA	21555	GTTTGGCAGGCATACCGTAAGT	32539	GCTGAACAGGAATAATCATCACCAT	43523
9898	CACTCTGCTATCTTCCCATAG	21556	TCTCCACCTCCACCACTCTTAG	32540	AGGGAGGATCACTCTGCATCT	43524
9899	TTCTCTGCCCCAGGAGGTTGA	21557	TCGAGGGCACAGGCATTCT	32541	TCACTCTCGAACCTGTCTCT	43525
9900	TCTGGTGCTTTAGGGGATCCAT	21558	TTATCTGCTCCCCAGTATGTAAG	32542	GCTGCTATGAGTCTGGTGCTT	43526
9901	CGGTGCTTCACTTAAGTGGGATA	21559	AGAAGGGAGGGCCAGGTGTAA	32543	CTGGCAAAGCGTGCTTCACT	43527
9902	CAGTAGTGCCTCATAGCTCACTGT	21560	GAGGCAGGAGGATAGTTTGAGTTC	32544	GGAGTGCAGTAGTGCCTCAT	43528
9903	GGTAAGTGTTAGTCCACACTAGGGAATC	21561	GCTGTAAGGGGCATCCATTCA	32545	CCCCACCTAGAATGTGGTAACTGT	43529
9904	GCAGAGGTGTGTTTCAACCTAATGT	21562	ACCCAGAGGAGAAGGTTGAGT	32546	CCCCAGCAGAGGTGTGTTTCA	43530
9905	CCTAGCCTGATGACAAATGTTTCTAC	21563	TCTGAAGGCCAGTATCTTCTAAAC	32547	CCCACCTAGCCTGATGACAAA	43531
9906	ATTGCTCCACTTACAACAGAAGA	21564	AGCTGTCAAGCAAATTACTACTCT	32548	CCCTGAACATTGCTATTGCTCCATT	43532
9907	GCACAACCCCTCTCCCTGTTT	21565	GAGATCAGTGAAGAAAGTGAGGTTCA	32549	AATGCACAGTCCCCGCACAAC	43533
9908	GGTGGTGGTAAATGACGTGGATGT	21566	TGCTTCAGAATGACTCCTCAGTTTC	32550	GGTGGTCAGGTGGTGGTAAATG	43534
9909	CCTTACAGCTGAGTCTGGTCTA	21567	TCCATGGACAAAGGAAACAAACCA	32551	GAAAGTTGATTCCCTTACAGCTGAGT	43535
9910	GATGACTTCCAAAGGGGAAAGAAAC	21568	AGTCTGCAAAATATCGGGAGCTTTT	32552	GGTCTGGCTTAGTAAGATGACTTCCAA	43536
9911	GGTGACATCTGCTTGCAGGAA	21569	GGAAACTCAAAGCCTTTCACCAGAT	32553	AGTCAGAAAGAGAAGTTGGTGACATC	43537
9912	CCCTGACAGAGTCTCTCTACCTT	21570	GTGTACTGACTCCAAGAGTGTGTCT	32554	TCCAGAAACAGCCCTGACAGA	43538
9913	GACCCAGATGGATGAGTCTGAAG	21571	CCATCAATCCAGTTGACGCCATA	32555	TGAGGGGCGAGACCCAGAT	43539
9914	GGAACCTACATGTTCTGGGTGGTT	21572	CACCATTTAGAGGGGTAGAGGCATTG	32556	ATCAGCTTGTGTGGGAACCTTACA	43540
9915	CAGGCGTTTGTTCAGGCTCAAAG	21573	GGGGCAGTACAGACCATCTCTA	32557	CCACTTCCAGGCGTTTGTTC	43541
9916	CTGCTTAAGCTGATCCAGGTCAAAA	21574	TCGGGAGGGACATATTCAATCT	32558	AGCCTGCAAGTACATTACTGCTT	43542
9917	CATGGTCCAGAAGTTGAAAAGCTA	21575	GCTGGGCTGCAGTTCTTTA	32559	ACACACATAGGTCCAGAAGTTG	43543
9918	CATCCAAGTCATTGGCAGGAATC	21576	GGCAGAGCCTGGACATCCTAGAAA	32560	GCTTTGGAAAGCTACATCCAAGTCATTG	43544
9919	GCTGGTGTGGCAGTGTTT	21577	CACCTGTGGGCACTGGGACTA	32561	CAGGTGGTTTCACTGCTGGTGTG	43545
9920	GTCAGTGACCAGGGAGTCTGTAAG	21578	CGACCTCTGCCCTTGTGTCT	32562	CCCAACCAAGGTGGTCAGT	43546
9921	GGACCTTTTGGCTGCAGAAAG	21579	GCTGCAGGCACAGTGTAGCTT	32563	GGGGCAACTCTGAAGGACCTTTT	43547
9922	CCAGGAGCATTGCTGTTGCAT	21580	GGGATTTGGTTTGGGATTTGTGGAATCAA	32564	CCACTGGGAATCCAGGAGCATTG	43548
9923	CCAATGTCTAGCTGTGTCTAGCTCTAT	21581	TAGGATTTGAGCTTGCCTATTTT	32565	CTGGAGGTGAGGTCCAATGTCT	43549
9924	GGGAGCCCGTTTGTCTCTATAA	21582	AGCCGCAGCAGGAGATACA	32566	TGAGGGAGGGAGCCCGTTT	43550
9925	AGATCTAGAACCAAGGCCACTGA	21583	CAGATTACCCAACTCCTCTATTCTGT	32567	CCTACAGCCTAAGAAAGATCTAGAACCA	43551
9926	CAGCCCTATTGTACCCTGGCTAAG	21584	CTCTGCCAGTGGGAAGTTTGATTG	32568	GTGGGAACCAAGCCCTATTGT	43552
9927	ACATTTGGGGAGATGAGACCTACTAA	21585	AAACCTGTATTATGCTGCTGTAGA	32569	GGGCATATGATAACATTTGGGGAGATG	43553
9928	ACACAGGCATCCTTAACCAATAACA	21586	GGGAAGCTGAAACTAGGCTAACT	32570	GCAACGCTACACAGGCATCCTT	43554
9929	TGCTTTCACATCAAGGGTGATTC	21587	CAGCTAAACCAACTTTGACAAGGAA	32571	GTAACACGCAATATGCCTTCACATC	43555
9930	GGTAAAGACAAGGACTTCTCCATGATGT	21588	GGGAAAGATGGGCATGGCTGAA	32572	CGTGACAAGGCTGAAGGTGGTA	43556
9931	AGAACCCATGTCTAGTAGCCTTCA	21589	TGATCTTTGAGCTGGACCTCTCT	32573	GGGACATTTCAGAACCCATGTCT	43557
9932	CCAACTACAGGGAAGGCTGGAA	21590	CTCCATGTGCTTTTCTCATACACTTAGA	32574	ACACGGCCTACCCAACTACA	43558
9933	GTCATTGCCTAGATCGTCCAGTAG	21591	GAGGGAGGCAAGATGTACT	32575	GGCTCAGAGAGCAATTTGGGAATGT	43559
9934	CAGGTGTACACAGCACACCTTAG	21592	AGGTGGTGCCTTTAAGCTAGAAAA	32576	TTGCCTAGCTGGCAGGTGTA	43560
9935	AAAAGCAACAGTGAGGGAGATCA	21593	CTCGAGGGCTTCCATCAGCAA	32577	GCAGGAGGTGATAAAGCAACAGTGA	43561
9936	CAGGTCCCATGTGAAGTGTAGGAT	21594	GGTCAGTTGGGCCAGGTTTCTA	32578	AAAACAGCATCAGGTCCCATGT	43562
9937	CGGGAGGACAATTTCTGGCAATG	21595	GCCAGCCTAGCTGCATACAA	32579	GGTCATTTGATTACTTTCGGGAGGACAA	43563
9938	CCAGATGGCTGTGAGTGTCTGT	21596	AAGGCTGAATAGTGGGAAGAGTTAC	32580	AGGAGGCCAGCAGGCAGAT	43564
9939	GGTCACGTAACCTCCTAAAAGTCCAT	21597	ACACACACGTAACAGGGAAGATG	32581	CCCTGTGCTTTGGTCACGTAACCT	43565
9940	CAAGAACTGAGAAAAGGCCTTCAAAGA	21598	AGGTCTTAGATAGCAAGGACCATGT	32582	GTCTGGCTGTGACAGAAGTGA	43566
9941	CCGCATGCTTTATTCTAGCCACTT	21599	CTGACTGTCCAGTGCAGTTAGA	32583	CCGTATTTTTGACCGCATGCTT	43567
9942	CCACAAAGTGCTCTGGGCTTTC	21600	CACATAGTGGTATCATCTCCCTTCTCAGA	32584	GCCTAGAACCTGTTCCACAAAGT	43568

9943	GAGTGTGGAGGACGGAAGTCA	21601	ACCTAACCTCACATTCATTGTCT	32585	GCCAGTGATTAGCACAAGTGA	43569
9944	CCCTATGGGAGGCAACCTTCT	21602	ACCCTGACCATTGTGACTCT	32586	TCGGGCCAGCTTACCCTATG	43570
9945	TGAGGATCGCATTGAGCAACA	21603	GTGCACGGGAGCAAGAAAAAC	32587	TGCCCCAGGCTGACCATGA	43571
9946	CCAGGCTGTAAACATTTCCAGAGA	21604	GCTCTGGTGACCCTTGTACTTA	32588	CAAGGATGTTTTCCAGGCTGCTA	43572
9947	GGAGTCATGCCCTTCTGCAATTTT	21605	ACACGTGTGAAATCCAGGAA	32589	CAACAGCAGGTGTAGGAGTCA	43573
9948	GAAGTGGGTAGAGATGGAAGAAGGAA	21606	AGGAAGACCAGGATACAGACATAAGA	32590	GGAGGAGGAGAAGTGGGTAGAGATG	43574
9949	CTTGACTGATAGTCCCGGCTTT	21607	TCCTTGGCTTGGGACCTCCTT	32591	GAAGTGTGAGAGGAACCTTGACTGA	43575
9950	GGAACACTGGGGACTTGTCTGA	21608	CCACACTGAGCACTTGCCTACT	32592	GGACCCAGTCAAAGAACTGGAACA	43576
9951	GGAAGTCCAGGAGTGAGATGTCA	21609	GTGCTTGCTGCAATTCCCCAAA	32593	CGCTCTGGGACACTGGAAGT	43577
9952	TCCTTTGGGTACCAGGAGATGA	21610	TGTTGGATGCCATGATGAAGAGA	32594	TCGCCAGTCACTGCTCCTTTG	43578
9953	GGCTTCATCTCCACCATGAA	21611	CCTCAGTCCCTGTGCTAGTGT	32595	CCTTTCCTCAGACAGGCTTCATC	43579
9954	GCCTCCCAATATAACTGACTGCTTC	21612	GGGGCTCCGAACGGAAAAAC	32596	GCCTCCTCCAGCCTCCCAATATAA	43580
9955	GACATGAGGGAGAGAGGTGTTCTCA	21613	GCCCTCAGAGAGGCCTCAAT	32597	ACCTGTGACATGAGGGAGAGA	43581
9956	GGAGACACTACCTGTAGGTCAAAAG	21614	TGAGAACCCAGGAGCCAGGAAT	32598	GAGCTGATTGACGAGACACTAC	43582
9957	GCTATCACTGGGTTCTCCGAAC	21615	GTCCAGAGCCAGGAGAGAGA	32599	GGCCAAAGGCCCTGTGCTAT	43583
9958	GGTCTTATTAACCTAAGAAGCTGTGAAC	21616	CTCTTCTCTCAGAATCCACCTGAA	32600	CCGGCTGTCTTATTAAACCTAAG	43584
9959	ACTTCTCGCAGCTTTCCTAAATCA	21617	AGGGCTCAGACCCATTGAACA	32601	CCCCATAGTATACTTCTCGCAGCTT	43585
9960	GACAGCCTTACAGAGACTGCTT	21618	AGGATTGTGTACTGGGCTACACAA	32602	CTGGCATTAGATGAGTTGACAGCCTTA	43586
9961	AGTGAGTGGCTCTGCATGT	21619	CCAACGCTTTCATAAACGGAGTTAGT	32603	GGGTGCTTTCCTTGAGTGAGT	43587
9962	GAAGCTGTAGCAAGGAGGAGAAATG	21620	GAAGGTGTCTTCTGTGTTTGAGA	32604	GCATGATTGTCTTAGAAGCTGTAG	43588
9963	AGGCTCACTTGCATCCACTTG	21621	GCAAAGATGAAAAGTGAAGCTACAA	32605	CCCATTGGAGAGGCTCACCTT	43589
9964	ACTCACCAGGTGTGCCCTAAAC	21622	TCTCGAGACAGAGGGAGATAC	32606	CCCCGACCTTGAACCTACCAAA	43590
9965	AGAAGACATGGAGTTGGGATTGT	21623	GAGCTGAAAGTGCCAGCTAGT	32607	CCTGGCTGTGTTCCAACTAAG	43591
9966	CGCTCACTGTTGGCATCACA	21624	TCTCTGCCTTAGCAATTGAACAGT	32608	GGCTCTAACATAACACACGCGTCACT	43592
9967	ACTGCCTGGCTGCTATTTT	21625	TGCTCTGTGTACATATGTCTGCTT	32609	AGCGGAGCCAGTGAGTTA	43593
9968	GGATTGTGACAGCACAGTAACAGTTG	21626	CAGGAATAAGGATTGGATCTCTGGCTTT	32610	GTCTGACCCCACTGGATTGTGA	43594
9969	TCACAATCTGGAGTCACAGACATTATC	21627	CACATGACGTCCCTGTGTCTGT	32611	GACATTCACTTCAATCTGGAGTCA	43595
9970	GGAGTCAGTGGCCTGAGTTCTA	21628	TGAGGCTCAAAGTGATACAGCTATT	32612	GAAAACACTGGACAAAGGAGTCACT	43596
9971	CGCCACCAGACAAATGGTGTG	21629	CTGCTCGACTTTCAGTAGGTGAT	32613	GCCATCAGCCACCAGACA	43597
9972	CCCAGTTTCTGCTCAACTCACTGT	21630	CCTGAGTATGGGAGAGGGGATTTG	32614	CCACAGACCCCACTTCTGCTT	43598
9973	CCTTGATCTGTCTGACTGAGTGGATT	21631	GGCAACAAGAGCGAACTGCAT	32615	GCCCAGATCTCCCTTCTTGATCT	43599
9974	GGGGTTGAGAAATGAACCTTGCTACT	21632	CCACAGCTGCCAGTGGCTT	32616	GCAAAGGCTGGGGTTGAGA	43600
9975	CCTGCAATCTTGACTGAATGGTTTG	21633	CCCCAGAAGCTGACCTGAAGATA	32617	GTCTCTGGTGTACCTGCAA	43601
9976	GAGGAAGAAGGTTCAAGTCAGT	21634	TGGCCCCACTCCATCTCTAAG	32618	GTGGAGTCAGCAGGAGATGTGAA	43602
9977	CCCAGTGTGCCCCATGTTGTTT	21635	CCTGAGCTACAGGAGTGAGACA	32619	AGTGCCCACTTCCCACTGT	43603
9978	GGTGAAGGCTACCTGACATAC	21636	CCAAGCCGCGAGTGGTTTTATG	32620	GGCTCTGTGCTAAAGGGTGGAA	43604
9979	GCCTGATGTGATGGGAGGTTGT	21637	CAGGAGCCGAGCTACAGA	32621	CATGCTGTGAGCCTGATGTGA	43605
9980	TGCGGGAAATCCAGTGATTAGA	21638	TGGGAGCCAAAGAACTTGTGT	32622	CACAGGAGCATATGCGGGAAA	43606
9981	CCCTCCACACAGATTGGTAAGCAAA	21639	ACGCTGTGCTCAAACACTTCT	32623	ACTCTATGCCCTCCACACAGAT	43607
9982	GGTGTGTCTGAGGATAGACGTTAC	21640	TGGGCAACATGGGAGATGATAG	32624	AGCTCCTGGTGTGCTGAGGAT	43608
9983	GTGACGCTCTCTCCCTGATACA	21641	GATGTGTGTGAGAAGGGTTCAGA	32625	GCTTTCAACAGTCAGCGTCTCTCT	43609
9984	CTCTCATGTCTGGTCCCTTGT	21642	AAGAATTCAGCTGCCAGGAACA	32626	GGTACCATTCTAGCCTCTCCATGCT	43610
9985	CTCCACCATGCAACTGTGAAAG	21643	GCTTAAGGCCAGAAGTTTGAAGTT	32627	CGATATCTCACTCCACCATGCAA	43611
9986	GCCTGGTCCACCCTAGAAGGAATA	21644	GCCATGGCCAGGACAAAAAC	32628	CTGCGGGTCTGTCTGTATTG	43612
9987	CAAGACTGAGCTGGTCTGCAA	21645	GGCTCACCCAAACCTTGGAA	32629	GGTCACTGCTTGGCCCAAGACT	43613
9988	GCTTCAGGGGAAGTTTGTCCATAC	21646	CCCGTCCCACTAGTCTTATC	32630	GCATTCTGAGCTTCAGGGGAAGT	43614
9989	CTGGGTGCTCTGAGAAGGTGAT	21647	ATGGTCTTTGGGTTGGCAAATAC	32631	GGTGAATAGCTGGGTGCTCTGA	43615
9990	CCCCGCTGAAGATGAGATTCAAG	21648	CCATAACAAGAGAGACTAAAGCCGTATC	32632	ACTGAATGAATAAGCCGCTGAA	43616
9991	CCTGCCAAAAAGAGAAGGAACT	21649	GCTGTGCCCCAGTAACATT	32633	GCCAGAGGAAGAGATCCTGCCAAA	43617
9992	GACCTTGCTAGGCACTGTGATTG	21650	CTTAGGCAGAACTTGCCCAAAG	32634	GGCTGAATTCCTGCCTAGACCTT	43618
9993	CAGGATGCAGTAAATGGCAAAGACTAC	21651	TGGTTGCAAAATTTGGCAGTGAA	32635	GCTAGGTAGGCTACAGGATGCAGTAA	43619
9994	TTTACAGGCTAGATGCGGAACA	21652	GGTAATCACCCAGCCATAACCAATCA	32636	GGTGAGCAGCGAGCTTTTACA	43620
9995	TGAGGACGAGGGATGAGAAGATG	21653	GCAGCTGCCTCTGAGTGTTG	32637	CGCGTGAGCTGTTTTTAAATGTTG	43621
9996	GGTTTGCTCTGCACTGCGTCAA	21654	AAGTACTGACAATACAGGCAGGTTT	32638	AGGGTCAGATGCGTGTTG	43622
9997	TCCATGGGACTTGAGGTGGAA	21655	GCAGAGGGAGCCTCTAGTGTA	32639	GGAAATAGCCTCTCCATGGGACTT	43623
9998	GCCAAGCAGATCTCCACTGT	21656	CCCACAGCACTGCTCAAGATG	32640	TGGGGTCAGAGCCAAAGCAGAT	43624
9999	CATACCCACCTCAGGCTACTGT	21657	ACTCCTCGCAGACATCAGTCTT	32641	TGTCAGTCAGGGCCAATCATAC	43625
10000	GGAGTCTCAATCCCTGCAATAGAACAGT	21658	GTCCAAATTTTCTGCGATGCTTAGT	32642	GGCAAGGAGTCTCAATCCCTGCAA	43626
10001	CTCCCTCCTTCATTGGTGAAGACA	21659	ACCTCCTGCTTCCCTGAACA	32643	GCAGGGTCTGATCTCCCTCCTT	43627
10002	TCAATGCGGTAAATGGTCCTAAG	21660	CATCCGAGCACTGAGAGAA	32644	GAGCCTTGTCAATGCGGTAATG	43628
10003	CAGCTAACACAGTATCTTCACTCA	21661	CCATTGTGGGATGCACATTGATT	32645	CACGCACTGAGCAACACAGTATCT	43629
10004	CGACAAAGTTTGCAGGCAGTAAC	21662	CGGCTGAGCACCATCT	32646	AGGGCAGGGACGACAAAGTT	43630
10005	CCTTGTCTGTCAACCTGTTCA	21663	TTCCAGCTGACTGTCTCAGA	32647	CCAAGACATGGGGCTCTTCTCT	43631
10006	CTGCCTGCAAGTCAGGATGAGA	21664	GATCAGTGTGGTGTGAATTGGAT	32648	AAGCTGGCTGCTGCAAGT	43632
10007	CTCTCCTTCCCCTTAAACCTTGTGA	21665	GGCAGAGTGGGGACACACA	32649	CTCAGAGCTCTCTTCCCCTTT	43633

10008	GGTCTGGCCAGTTCCAATTT	21666	ATGCAAGGGAGCAATTTGCATAG	32650	CCCCAATGCAGGCGATGA	43634
10009	AGCAGGTTGGGGCCAATGA	21667	CCTGAAAACATGTAGAGGAGCTTTGATG	32651	GCAGGAAGGGTAGAGTAGCAGGTT	43635
10010	AGCTGGAGTGAGGATGGAGTTC	21668	CCGAGGGCCAGACCTGCTACATATT	32652	AGACCAGGGTAGCTGGAGTGA	43636
10011	AGTGCAGGGAAGCCACCATCTA	21669	GCAACGAGCTCCTCTGTATGA	32653	CCTGAGTAGTTGACAGTGCCGAGGAA	43637
10012	GACCTGGTATTGGTGACCCTAAGA	21670	CCTAGCTCAGCCACAGTGGAATA	32654	AAGGGCCCAAGACCTGGTA	43638
10013	GGCTGGGACATGAAATCCTTGACT	21671	GGAGCAGGGGCTCAGAAAAGTT	32655	CAGTTGTCTGGCTGGGACATGA	43639
10014	CGCTGTTGGTTAAATTTGCAAGTTG	21672	TTACATATTAGGCTACACTCCTCTTC	32656	AGGCAATCCGCTGTTGGTT	43640
10015	GCAGCCACAGACAACACAGA	21673	AGTTTCTTGGACCCAGACATTTC	32657	AGCACAAAAGCAGCCACAGA	43641
10016	GGTGACATGGTGGGTAGTGATGA	21674	ACGCAGCTGAGTTCACGTT	32658	CCTCAGCACTTACACGGTGACA	43642
10017	GGTTTTGAGAGGGTAGGTAGGTTTG	21675	TGTCTTGGCCCATCTCCTT	32659	GGGAGGATTACCCACCTAGGTTTTG	43643
10018	GCAGTGTCTTGAAAGGAAAGGGATA	21676	GTTCACCTTCAAGCAAACCTATAC	32660	CAGAGTCTGAGCAGTGTCTTGAA	43644
10019	CTGGTGTAGGCTCCTGGATATG	21677	CCCCTTTTTGGTCTGTTATGGCAAGT	32661	TTCTGCTGGGGCTGGTGTTA	43645
10020	TGCCTGGTGCCTTACACTT	21678	GCTCAGCTTATAGTAGCCAGAGAAA	32662	ACACTCGCTGCCACTGAT	43646
10021	CAGCCTCTTAGTTTTTCCACCCTTCT	21679	TTGCAGTGTACCTGGGATAAG	32663	GCAAGTCTCCACCAGCCTCTT	43647
10022	ATGTGTAGGGACTAGAGGTCGTT	21680	GCAGAGAGAAGCAACTCAGCTTAC	32664	CCCACTCCTAAATGTGTAGGGACTA	43648
10023	CTCCAGAGAGTGACCTCTCCAT	21681	GCAGACCATAGTGGCTGAGGTT	32665	GAGTAGTTCCTCCTACTCCAGAGA	43649
10024	TCCAGCTCCAGGCTCCAA	21682	GGAGGTGGGGCATAAGGTGATTC	32666	TTCTGGCCACCCTCAGT	43650
10025	GGGATCAGTGGAACATTGAATGCCTTTT	21683	GCCAGCTGCAACCAACCTTAG	32667	GCTGAGGGATCAGTGGAACATTG	43651
10026	GCAGAGGGTTATCCCATTCCAAAC	21684	GCATCTGAGCAAGTCTCCTCTTGT	32668	CGTGCTCAAGGCAGAGGGTTTA	43652
10027	GCTTGTTACACAGCTGCCTATTATTTT	21685	GCAGAGGAGCTCAGCTGTTT	32669	GTTTTGGAGGAGTGTGATGCTT	43653
10028	GTGCACTGAAATTCCTCAGTGTTAC	21686	CGGTTTTAGATTTCAAGACGGTGTGT	32670	GAGTCTTAGTCTGGTGTGCACTGA	43654
10029	GCAAAGCTGTCTTTGTGAGGAAGA	21687	GGTGCAACCGATGCAGATTCTCT	32671	GCCAGTAAACAGAAAGTTGCTGCAAA	43655
10030	TCTACCTGCAAAAGGTCACCTCA	21688	AGGGAGCTAGAGGGGACCACTAC	32672	TGAATTCGAACCATCTACTGCAAA	43656
10031	TGGTGGATGAAGGCGACGTT	21689	CCACTTGGACCAGAGAGACGTT	32673	GTGGGTTAAAAGAGGATGGTGGATGA	43657
10032	GCCATATTGTGCTTTACAGCCTTAG	21690	CCCTAGAGCCCAAAGGCAACAA	32674	GCAGGCTGCCATATTGCTGTTTC	43658
10033	GCACGGTTTCATCACTAAGTTGAGATT	21691	TGCTCTTCTGCTGGAATTTACCAA	32675	CATTAAGAGCACCGTTTCATCACT	43659
10034	GGCTGCATCAAAACCACTCT	21692	GCAGGAATTAGAGGAATTGGACTT	32676	GGCCTCTTAAGTTCTAGGCTGCAT	43660
10035	GCCATCACCTAGGTCCAACCTAC	21693	TCTCTCTGAATCCACTGCTCTTA	32677	AAGGGCCTTAGCCATCACCTA	43661
10036	GTCAAGCTCAACTGTCTATGCTT	21694	TCGGACAATCACCTGAAATGAAAC	32678	GGACGTGACCTCAGTCAAGCTCAA	43662
10037	GCCTTCATCGAGGTAGGATAATTTGT	21695	GTGCAAAATAGGCCTCTCTCAACCTA	32679	AGCTTGCTAGCCTGCCTTCA	43663
10038	GTGTGCTCATCCATCCACCTT	21696	GTGTGGGTGGGTACTGAAGGAA	32680	AATCCCAGCGTGTGCTCATC	43664
10039	CCCAAACCTGCTATTCTAGGACGAA	21697	GGTGTGGAACGCCATTTTACAA	32681	TCACAAGACCCAACTGCTATTTC	43665
10040	ACAGGCTCTTGACCCCTAAAGT	21698	CCTTTTCTCCCATTAATCCATCTGCTTAT	32682	TAGGGGCCACAGGCTCTTGA	43666
10041	CGTGGCAGAATTTGTTTGAGAGA	21699	CTTTGCTGTCTGCATCTGACATTT	32683	CCGGGAGAAGCTGGCAGAATTT	43667
10042	AGCCTGTGAAAGGGAGATTG	21700	GAGAAGAGCTGGGCTATATTTCAA	32684	GTTTGGACTGAGCCCTGTGA	43668
10043	AGCCTCTGGAAGAGCCAGGAA	21701	GGCTTGGCAAGGTTTCAGGTTTG	32685	AAGAGCCACGAGCCTCTGGAA	43669
10044	GCCATACCACCAAGGGCTATTTG	21702	ATCGGGGCTCATCTGTGTAAC	32686	GTCTCTGCAGCCATACCACCAA	43670
10045	GGGCAGCGTGTAGACCTTAAA	21703	TCACAGGGTTGGCAGGAACT	32687	GTGTTTTAGGGCAGCGTGTT	43671
10046	CCCAGTGACCTTCTCACCAT	21704	GACCATTTTCATGCTCACTGCTTCTTG	32688	CGCTGGTCCAGTGAACCTTT	43672
10047	CTGCTGAAATTAGAGGTTAGGCTGAGA	21705	AGCTGCTGCAGACCCATGT	32689	ACACACCCCATCTCTGCTGAA	43673
10048	ACTGTTCCAGATTTTTCAGCAAAC	21706	TCTGGCTCAGCATGGTCACT	32690	GGCTTTGAGCTAACTGTTCCAGAT	43674
10049	GGGGATTAGGGTGCTAATGGATTCT	21707	GGCCCTCTGTAAAGTGTCAT	32691	CACACACTCTGTGCTAATGGGGATT	43675
10050	GCTGGGAACACAGGTGCATGTAAG	21708	AGCTGCGGGCAAGGTATCA	32692	TGCAGGGCTGGGAACACA	43676
10051	GACCTGTGTGAGGCTGTT	21709	CCTATTGCACACGGTCACAAATT	32693	CCTAGAGACCATGACCCTGTTGT	43677
10052	CCGTAAACACCAATGACTACCTTTG	21710	CCCTACTCCCACTGCACTTGAAC	32694	CGTGATCCGTAAACACCAATG	43678
10053	GGGCTGCATGAAACAGAACGTGTA	21711	CCCCAGCTGTAAGTTACCAA	32695	CAGGTGGGCTGCTGATGAACA	43679
10054	CTCAACCCAGTAGCCAGAGTGA	21712	GCACAGGAGTAATACGATCTGACATCT	32696	CCTGGGGTCTATTCTCAACCCAGTAG	43680
10055	TGGGCATCTTACATGGGTGTTG	21713	CCTGAGGGTGACCTGCTTAG	32697	TGAACCCCTGGGCATCTTACA	43681
10056	CAGCCTTCATGCTTTCTGAACCTG	21714	GCAGGCAATAACGAATGAGAGTTTA	32698	GTGACCTCAGCCTTCATGCTT	43682
10057	GAAAGTCAGCATTAGCAGCAAGT	21715	GCCAGTTCCTCTGGGAGGTT	32699	GGCAGCTCATGGATGGAAAGT	43683
10058	GGCTTGTTACTCACCCAGGAAGA	21716	CCTCTTCCCTCACCGTGTGTTGA	32700	GACTCCAGGGGCTGTTACTCA	43684
10059	TGCTGGGCTCTTGATCTTTG	21717	TTCTGAGTTCAGAGACACTACAAG	32701	GCTTCTAAAATGTCTGGGCTCTT	43685
10060	CAAACCTGCATGTGATACGTTTGA	21718	ACGCCAGCCCAACTTTTA	32702	GGGTGCGACACACCACATAACA	43686
10061	GCAACATACCCAAATGCTAATGCTAGT	21719	GCTCTCTCCCCAGGAACCAT	32703	GCTGGGAACACTGTGCAACATAC	43687
10062	CCAGCAGTGGCTGTTCTGTAA	21720	CGCTGGAGACTGGTCTGAGTTCAA	32704	GGATGGGACGCTGACTCT	43688
10063	TGGCTCTACGGAACCAACTTC	21721	GGGTGCAAGGACTTCTCTGA	32705	TCTCGTGCACTTCGCTCTAC	43689
10064	GGGCTGTTTTCGAGGGTCACT	21722	ACACGGGACACGGGAGATGAA	32706	GCAGATGCTCGGGCTTGTTTC	43690
10065	CCCAGTTAGTAACAAAGAGTGGTTTC	21723	GTGTGACCTATTTTAGGAGGCAGTGT	32707	CAGAGTGTTCAGAACCCAGTTAGT	43691
10066	GGCCACGCAGCTAGTAACACAGA	21724	GACCCGGTCAAGTTGGTTTCA	32708	ATGTCAGCCACCCGTCCTCA	43692
10067	CGTCACATGGCTTGGGCTTTC	21725	TCTTGGGAACAGCCACTCTTAAC	32709	CACCTACAAATGGCTCGTACA	43693
10068	AACGTGCTCACAGGGGACAAAA	21726	GCTTCATATCAAGGGGTCTAGATG	32710	TCCCTTGCAACGTGCTACA	43694
10069	GCCAGCTCCATGGCCTTTGT	21727	GCACACACTTTGTTCCATAGCAGTTC	32711	ACACACGGCCAGCTCCAT	43695
10070	GGACTCAAAGACATTGATTTCCCTTCA	21728	GGCCTCAGCACTGGAAGTCT	32712	GGAACCACTGATGGACTCAAAGACA	43696
10071	CAAGGTCTATATCCCTTCCCCTTGAAC	21729	ACTCTTGGTCGAGGAGATCACA	32713	GCCTCCTATTGAGAGTCAAGGTCTA	43697
10072	GGAGGGCTTTGGTGTCTGAATC	21730	CCTGCCCTCGCACAAACA	32714	CGGTCTTCAGGAGGGCTTTG	43698

10073	GCCTTTACTTTCCTAGTGGGATGA	21731	GGCAGAGGCTTGGTGGATAGAAG	32715	CCTGCCCACATGCCTTTACTTTC	43699
10074	CAGGAAATGGGAGCTTAGAAGGTT	21732	CCCTTCTTCCAAGCCAAGTGA	32716	CCCGCTTCATAGACCAGGAAATG	43700
10075	ACCTAGTTACAGACTGGGCTCTAC	21733	GCATGTTCTCTCCCTCTTCT	32717	GCCAACGAACCGAACCTAAAC	43701
10076	AAGAGCAAGAAATCATCGTATCTGT	21734	CGTGAGAAATGAAGGTGCTTTG	32718	CCTTCCCAACCAAGAGCAAGA	43702
10077	CCTAGAGATAGGAGCATCTACTCTCACA	21735	CCAGGCATTAACTTAGCGATGGAT	32719	GGCTGTGCTTAGAGATAGGAGCAT	43703
10078	TCCCTGGCATATGGTGGTTCA	21736	CTGAGAGGGCCTTTAGGAAAGAATG	32720	GCAGGATTAAGTGTCCCTGGCATA	43704
10079	TTCACCACATTGCTCTGATTACTGT	21737	GGGTAAAGTTGGAGGAACTATACTTGG	32721	GTGCTGTGCCCTTACCACAT	43705
10080	GTGGGTTAGGATGGTAGGTGCTT	21738	GGCAGGCTCTGTGGAAGTCAA	32722	GGCCACTACACTGTGGGTTAGGAT	43706
10081	CCTTAAGCGCATGCCAGACA	21739	CAGGCTCATTCATTCTCTGCAA	32723	GGGCAGAGAATCACGACTCCTT	43707
10082	TTGTCACTGGCCACGCCCTTTC	21740	GGGGAAAAGCCCTGGCCTTATAG	32724	CTCCTGAAGCGCAAATGTCACT	43708
10083	CCTAAGGAAGGGTCTCTCCTTCT	21741	AAACTGTGGGTACAGCTGAT	32725	ACGGCTGCCAACCTAAGGAA	43709
10084	TGCTCACTCCAGGGCTTTAC	21742	GCTCCATGGGGAAGGACTCTTA	32726	TTTGGGGTTCCTGCCTCACT	43710
10085	TCCTTGGCCTCAGCGACCTT	21743	CCACGTGGAGGGGCACTTCTA	32727	CGGTGCCCCAATCTCTCCTT	43711
10086	GGAGACCATGGCTGCTGTTG	21744	CCACCGAAGGGGTTATCCAT	32728	ACTCCGATGCTGGGAGACCAT	43712
10087	CCCCAAGTCTTTCTAGAGGGATGA	21745	GGTACTGGATTCAGTTCAGTCTAACTTC	32729	CTTTGGGAACCCCAAGCTTTTT	43713
10088	CCCTTGTGGGAAGTGAGAAACA	21746	TGCCACCGATGCCAGACAGA	32730	TGGAGAGTGGCTCCCTTGT	43714
10089	AGGACATGACCTACCCAGATTC	21747	GCAGCCAGGTCACAGAGCATT	32731	GGGTCGCTGTGATAGGACAT	43715
10090	CCACTTGGCTCTCATTCTCTCTTTC	21748	GGCGGAAAGCTAAAGGCATGT	32732	ACCTCTCCACTTGGCTCTCA	43716
10091	CGTTTCCACACTCCCATTTACTTACA	21749	GCTCTTTGGTGAGCTGAACCTTTTT	32733	GCACGTTTCCACACTCCCAT	43717
10092	CAAAAGTAGTCTGGTGCTGATTG	21750	CTTAGCCTGTGGCACTCACT	32734	CCAGCAGCAGACCACTTCAA	43718
10093	GGTGACTGTGTACTGGGCTTCT	21751	CTGCTGACCCCTTCACTGTAT	32735	GGAATGGCGTTGGTGACTGT	43719
10094	GCCTTGAATGACGGCTCTTCTCT	21752	CTTTAGGGGCTGGCACTTTTCA	32736	CCACGCTGTGTAAGCCTTGA	43720
10095	AGAAACCGTTATGGTGATTGCTT	21753	CAGCTGTTTTGTGCGCCAAAGAT	32737	GAAAGCCCAAGAAACCGTTATG	43721
10096	TGGTCCACATTTCCAAGCAA	21754	GCCCAGCCTTGTAAAGTGTT	32738	AGCCCGTTGGTCCACATT	43722
10097	GAGCAGAGATGGCTGAAGTCAAA	21755	GGTGGATGGGCTGGTATACAAATG	32739	CCTCTTCTGTAGTGAGAGCAGAGA	43723
10098	GGCATATCCACCAGAAATGGGTTT	21756	AGTATACTGCGGGGCCATTTT	32740	CTGTGGCACTGGAAGGCATATC	43724
10099	CCGGGGCCTATCTAGCATGT	21757	AAAAGGTTCCGCTCTGGATGGAT	32741	TCCACGGGATGACGCAGATG	43725
10100	TTCCTCAAATCCAGTTGTCTCTTC	21758	TTGAAGCCACTGCAGTCTGA	32742	ACCGGTCTGTCTTCTCCAATC	43726
10101	GGAGGAAGGTGTGGGCTACATA	21759	CTAAACAAGCACTGCAGTTGTAA	32743	GGATCTCACCATCCAGGAGGAA	43727
10102	GGGTTTGTAGTCGGAGCTCTTG	21760	CGGCTGTGTTTGTGCTGTGT	32744	CCCATCAGCACTGGGGTTTGT	43728
10103	GCTCCACCTAAGTGTAATGGAGTTCA	21761	AGCAGAAGATCCTTAATGGCAGAA	32745	ACTCTTCCCTTGTCTCCACTAA	43729
10104	CTGTTGTGGCTTATGGAAACTGATCTGA	21762	GCTCAGTGCTCCCTTCTACCTAGT	32746	GGCTTCTGTGTGTGGCTTATGGAAC	43730
10105	TCCCCAAAACCCAGGTCCATGA	21763	GCTCTGGGCTCTGCAGGATT	32747	AGGACCGGGCACCTCATTTGT	43731
10106	GAGGAAGGCCAGATTGAGGGTAAC	21764	CCACTTGTCAAGAACACGCAAGGATT	32748	ACTGTCTGAGGAAGGCCAGAT	43732
10107	AGACAGTTGCCAGAAGTCACAA	21765	GGGGACCTATTGCTCACAGGAAGA	32749	GGCTTCTCTGGAAAAAGACAGTTG	43733
10108	GCATCTGCCAACAGATGTGTGA	21766	GCAAAGGAATCAAGTGGTGTCAAGT	32750	ATCTTGCTTCTGCCAGCAT	43734
10109	GGTGCTACCCACTTCCAAGGTT	21767	TGGCCCGGTTCCAGACTGT	32751	TGTCCAGCAAGGGGTGCTA	43735
10110	TCCACCTCCAATCCACCTCAA	21768	CGGAAAAATGAAGTTACAGGGGAAA	32752	TCATCCACCTATCCACCTCCAAT	43736
10111	ACAGGTGGCCTTTAGAGAGTTTC	21769	GGGAAAAATCCTTCTTGCTTCTTAG	32753	GGGTTCTGCTACAGGTGGCCTTT	43737
10112	CCTCCCTCTTACCTGTCTTCT	21770	GCATTCCTTGGTGAGGCTTTAAT	32754	AGCCAGCCCTCCCTCTTA	43738
10113	TCCAAGTGGAGTGGGGAGAA	21771	GGTTGCAGTGGAGGAGTTCA	32755	CCCTCATGGCTCCATCCAAGT	43739
10114	GACCTACAGAAAGATTGTGAACAT	21772	CCACACACTCAACCCACTAATG	32756	TGTTTGCAATTCTGTGACCTTACA	43740
10115	GGGCAGAAATGCCAATGTGAAG	21773	CACCTGCACTCCAGTCAA	32757	GGAGGACATTACCAGGGCAGAA	43741
10116	CACTCAGCAGATGAGGAGATGTGT	21774	GGTCTGCTGCCAGATTCCTACT	32758	GCAAAACAACAACCTCAGCAGAT	43742
10117	ACACAGGTGCCCTCCACTATG	21775	CCATGCCCACTCCATACTTGCTT	32759	TGACGTGAGAGGGGTACACA	43743
10118	TTGGCGGCTCCACTCAGAGA	21776	CCTCTCTTCCGCTCTCTTCCATA	32760	ACTTCTGTGGGCGAGTGTG	43744
10119	CGGGCCTCCTGTTATGCTAGA	21777	CTGTGGTAGCTTGTTCGTGCAA	32761	AGACACCAGGGCCTCCTT	43745
10120	CGAGGCAGGACTTCCCTTTGTT	21778	GCTGTTTCCAGCAGTATGGAATG	32762	AGGGAACGAGGCAGGACTT	43746
10121	CTTCTGGATGGCTGGACTTAAA	21779	GGGCCAGAATCTAGTTAAGGAGAGTTAT	32763	CTTTGGAATCTGTGCTTCTGGAT	43747
10122	CAAGTCCAGCCTACTCAATTTACGTT	21780	AAGGCAGCCAGGGCACTA	32764	ACACTGCAAGTCCAGCCTACT	43748
10123	CCACCTTCTCTGTGTTTCAGCCTTA	21781	GAGAACCGAGACTCACAACATTAAGA	32765	GATTTCTGATCCACCTTCTCTGT	43749
10124	CAGCACATGGGAGCTGGTTTTG	21782	CTGGCCACATTCACCAACCAAAG	32766	TGCAGCTGGGGTGTCTCA	43750
10125	CAGCAGCCATGCTTTCATCATTC	21783	AAGCCAGCTCAGACAGGATTG	32767	CACCTCAGCAGCCATGCTT	43751
10126	ACCTCCCGCCATATTCCTCTCA	21784	TCTCCACAGCTCAGCTGGTA	32768	TCTCAGAACCTCCCGCCATA	43752
10127	GCAAGGGAATGTGTGCTTTATTCA	21785	CCAGCACAGCCATACAGTAG	32769	GGCAGAGAAGCATGCAAGGGGAAA	43753
10128	CCTATGGTTTCCGGTCTGTGCAT	21786	AGGAAACAGGTGCCCTTACA	32770	GGCTGCCTTCCACCTATGGTTT	43754
10129	GTGCTTATCATCAAACCCAGTCAAC	21787	CAAAGTAGGACGACGATACTCATA	32771	CATTGGGACCAAGTGCTTATCATC	43755
10130	GGGAGTGGATGCAGCTCAACA	21788	GGGGAGGCGAGCATGGAATA	32772	CTGTTGAGATCAGAGGGAGTGGAT	43756
10131	CCCCTAATCGTGTCTAAGCACAAA	21789	AGAGGCGTCCAGCGTTTC	32773	AGGCCACCCGTAATCGTGTCT	43757
10132	GCAGTTAAGTGGTTAAGTGGTGTAG	21790	GCACCAAGCCCTTCTCACTTT	32774	GCACAAATGGCAGAAATGCACTTA	43758
10133	GGCGGCTCTTTAAACAAACTCGTTCT	21791	GCCCGCTTAATAGCTGAGGTCACA	32775	AGCCAGATGCGCGGCTCTTTA	43759
10134	CAGTTTGACTTGTGATCCATCCACTTTG	21792	CACAGCTTTTACCTCCTAAGAAGTTG	32776	TGTGCTGATACTCAGTTTGACTTGT	43760
10135	GGAGTCTTCAGTGGTTTTAGGTTCAAG	21793	CTCTGGACCTCGGTTTCTTGTTTC	32777	CCTCCTAAGAGGAGTCTTCAAGTGGTT	43761
10136	GAGAGGTAATCACTCTTGCCTTTT	21794	GCCACCTGCCATAGCCACTTA	32778	GCAAAGAGCCCTTTTGAGAGGTAAC	43762
10137	CCACCAAACTTGGACTGCCATA	21795	CCCTAAGAACCAGCACCTTCTATTG	32779	GGCTGTGTCCACCAAACTTG	43763

10138	CGGGGCTTCTGTGGGTCAAT	21796	CTCAAAACCGAAATGTGACCTTTTTT	32780	GGCATAAAGCGGGGCTTCT	43764
10139	GACGCTGATCTTTACGCCAAT	21797	CGGTACTCGGCCACACCAA	32781	CTGCATGGAGACGCTGATCT	43765
10140	GCACTGGGATAAGTGGCTTCAA	21798	CTCAGTGGCCTGATAATTACATTGAGT	32782	GCAGAAATCTTCAGTGGGATAAG	43766
10141	GGGATCTGAACCTCTTTGGGATT	21799	CAGCCACCAAGCTCTGTATAGTAGTTA	32783	TGAGAGGAGCAGTGGGATCTGA	43767
10142	GAGGAACAGGCTCTCACTAGACATTG	21800	GGCCAGGAAGTCCACAATCA	32784	GCAGGAAGTCTCCATCTATGAGGAACA	43768
10143	CCCCAGTTTCATGGTCTAGAGAA	21801	GCTTCCCATACTGGTCTTGATGGAT	32785	TGAAGAGGATTGAGCCAGTTTC	43769
10144	CCGAGGACTATAGAAGAGTGAGGTTTC	21802	ACGGAGCCGGAATCTCTGA	32786	CTCAGAAAGTTTACCGAGGACTATAGAAG	43770
10145	GAAGGGGAATGAACAAGAGGAGAGA	21803	CCCCTAAAAATGGGTGCAGGAATC	32787	GGCCAAGAAGGGGAATGAACA	43771
10146	GCTCAGCTCACAGTCCCTTACAA	21804	GACCCTTCTTAATCATGGAAGTCTTT	32788	ACCCACCTCCATTCTCCTTAG	43772
10147	GCTTTTGTTGAGTTACAGTGGGTTAC	21805	GTCTTACAAAGTCGTTGATCCACAA	32789	TGGTGGCTTTTGTTGAGTTACA	43773
10148	GGACTGTGTCCACATCTGGAGCTT	21806	TCGGGCCATGTCTATCTGAGGAT	32790	CGGTAGGTGAAGGGACTGTGT	43774
10149	GCTCCATCAGCTTAATCTACCTTACT	21807	GGACTGGCTGCCTAAACTGTCA	32791	GGTGAGGCTTTCTGCTCCAT	43775
10150	CTGGGAGTGTCTCTCTCTTGAGT	21808	GCAAAGTGAATCTCCACGGAAGT	32792	CAAGCCCTCTGGGAGTGT	43776
10151	GAGAGGGGAGAAAGCAGGAGATA	21809	AGAGGGTTCGCTGGATGTTAC	32793	ATGCGGGAGAGGGGAGAAAG	43777
10152	CCAGCCCAAGATGTTCTGTGGAT	21810	GCTCACCAGTCTCTGTTCTT	32794	CTGAAGTCTGCCAGCCCAAGAT	43778
10153	CCAGCATTCCCTCTCTCAAAATC	21811	GCCCCAGGAAATGTAGCCCTAT	32795	TGCCACCAACGCCAGCATT	43779
10154	TGGAAGACAAGCCCCAGACA	21812	AGATGCTTTGTGCGATGTAGTTTG	32796	CTGGGAGTGGGAGGAATGGAAA	43780
10155	CCACATTTCCAAAGCCAGGAAAA	21813	TCCATTACTGGCTTGACCTTTG	32797	TGCTATTGCTTTGAACCCATTTC	43781
10156	CCAATTTTGAGTGAAAAATGCATCCAA	21814	AGCCACCACTGTGCTGTGAT	32798	CCCCTGTAGCCATTTTGAGTGAAAA	43782
10157	CTGCTGATTGCTGACAAATTTGGATT	21815	AGTGACAGCTCAATTCTGATGCTA	32799	GGAGTTACTGCTGATTGCTGACA	43783
10158	ACCAGGGAGTGAAGCATTACCAA	21816	CTGACAGTCCATGTCTCTCTTC	32800	ACACTGGGAACCAAGGGAGTGA	43784
10159	GCATCTCAACACTCACCTCCATTG	21817	GAACCAACAGAACCCAAGACT	32801	TGGGGCAGCATCTCAACACT	43785
10160	GCGTGTGGAAAACTTGCTCTCA	21818	TGATGCTTGGATGAAGTGATGCTT	32802	GCCTGTTTCTGCGTGTGGAA	43786
10161	ACCTCAGCCTCCAGCACCTTA	21819	ACACAGCAGTCCCTCTTGT	32803	AAGCGGTGCGAGGCTGGAA	43787
10162	ACCAGCACAACTGAAAACTCT	21820	GCCAACTACCAAGTCACTGTATCA	32804	CTCTTCTACAGCACAAACCAT	43788
10163	GCTGCAATGGAAGCCACTTGA	21821	AGGAGCTAAACATACAATGGTGACA	32805	CCACCTCTGCTGCAATGGAA	43789
10164	GGCGGGACACATCAAGGAA	21822	GGGTTTGGGCTGTTTACGTTCTA	32806	ACAGCAGAGGCGGGACACA	43790
10165	GGGTCAAGTGGGAGTCTGTCT	21823	GCAGAAGAAGCATGGGGTTAAGT	32807	TGATGTAGGAACCAAGGGTCAGT	43791
10166	AGGCTTCTCCTTCCCAGTGA	21824	CCCCAAGCCTATTGAGACATCTGTA	32808	AGCGCTCTCCAGCCTTGAA	43792
10167	GCCTGGGTTCTAGGTAAACAAAGCA	21825	TCTGCTGGGCTCCCGAAA	32809	AGAGGGCTGGGTTCTAGGTA	43793
10168	GCCCCAGACTGATTTGGACTT	21826	GAATGCATGTGGGATCCATTACTCA	32810	AAGGCCAGTTAGCCCCAGACT	43794
10169	GAGAAAGCTGGGACCAAGTCACT	21827	TGAGGAGGGAAGGAAGGAAACT	32811	ACCAGTTGGCCATCTAGAGAA	43795
10170	GGAAGTCTCCTGCTGGCAAT	21828	TGATGGAAGATGAACACTCCACTTG	32812	CTCCATTGCACTTTGGAAGTGT	43796
10171	AACCCATCACACTGTCTAACTTGA	21829	GTTTCACTGTGGGTTTTTGGCAGTT	32813	CAGGCACAAATTAACCCATCACACT	43797
10172	TCTTGCTGCCAGCATCAGTAG	21830	AGAGCTGCCTAAAGCTATCCTCTTA	32814	GCTCGCCCTACACTCTTGCTT	43798
10173	CACCTCGCTTCAAAATCCTCTTC	21831	ACTTGGCTAGGGCCTTCAGA	32815	TCTTCCAAACACCTCGCTTCAA	43799
10174	GCAAAATACCGACCCCACTGTCA	21832	GTGTTCCCATCACATTTTTCGTATG	32816	TGTAGTCCACAGGCTGCAAAATAC	43800
10175	CAGGGTGGAGTGAAGGGCTTTT	21833	GGTGCAAAATCTCATTCTCCTTGAA	32817	AGACTGCCAGGGTGGAGTGA	43801
10176	GCAGGTGTTTTCTTTCCACTGTAG	21834	TGAAGGTGGGGAGGGTAAAGT	32818	TGAGTTTCTTCTCTGAGGTGTT	43802
10177	GCTCACACAGGCTATGGGTCTTA	21835	GGTGAGTTCCTCGAATGGTGAT	32819	TTTGCCCCAGAGGCTCACACA	43803
10178	TCCACTTGCTATGTGCTCATTC	21836	AGCAGGCCCTGAGTTCTTGT	32820	CTTGCTCATCTCTCACTGTCT	43804
10179	TCTGCAGGCCCAAAATCTCATCT	21837	CAGGCTCATGGGCAAGAACT	32821	CTGAAAAGTCTGAGCCCCAAA	43805
10180	CCCAGCGATTGTGTATCTAGGTGTT	21838	TGCCCCGCTGTGAACAT	32822	CCTCTTAATATGACCCAGCGATTGTG	43806
10181	CCTCCCTAGAAGGAAGTGTAGTTAATCA	21839	ATGCACGGAATACCTCTGGAAAT	32823	GGTTTCTCTCTCCTAGAAGGAAGTGT	43807
10182	GCCAGCAGCTGAAGGTAAACCAA	21840	CGTGGCCCATGAAGGGTGAA	32824	CTCCATTGCCAGCAGCTGAA	43808
10183	TCATGCGTGTGGGCAAA	21841	TCCTGCCACCTTCTCCAT	32825	TCCTTGGGACCTGGGGTCAAT	43809
10184	GCTTGTTTACGCCAGGAA	21842	AGACTCCACCTTGCTTCTGATCT	32826	TCCTCCATGGTTAGCTTGGTTTAC	43810
10185	GGCCACAGTCTCTGCTGTTGAA	21843	AGAACAGCCTGATTGCAAGATGA	32827	AGCCATGGCCACAGTCTCT	43811
10186	CTCAGATATGGGTATGTGACCATCAA	21844	AAATTGGTGGGATACCATGTCCAA	32828	ACACAAACACAGCTCTTCTCAGAT	43812
10187	CCCTCCATCACTCGCTACT	21845	TCCATGCCACCTAACATCTCA	32829	CAGGGTTCCAGCCCTCCAT	43813
10188	CCTTATAGCTGCTTGCTAACCAAAAGT	21846	GGATGGGCAAGTGGTTGTATCT	32830	GGTCCACTTCTTATAGCTGCTT	43814
10189	GCTATCCTCTCACCCAGTCA	21847	TGAGTGTCCCTGACCTCAAGT	32831	CCAAGTGTGCAAAAAGAAAGGCTAT	43815
10190	GGAGCAGTCAAGGTGAGAGGTAAGA	21848	AGGCCAAGTCCACAGATCT	32832	GCACTATGAGAAGGGGAGCAGTCA	43816
10191	GCCCTGGGGAAGAAAAAGTCAGA	21849	GGTGGGGAGCACTGTTCTCAAG	32833	AGGGAATCTAGCCCTGGGGAAA	43817
10192	CAGCAAGTCATGGCAGGGAAA	21850	TGCAGAGCAGGACAGGGATT	32834	CCGGGGATTAAGCAACAGCAAGT	43818
10193	GTCAGGATCGCTATTACGTCATC	21851	CGGCTTCTGCTGGCTTCA	32835	CCCTGATGAAAACACAACTGTGAGAT	43819
10194	GTGAGTGTGGCACCATTGGATGTA	21852	GCACTCTGAAAAGTGGACCCAAAT	32836	TACCCCTAGCGTGAGTGT	43820
10195	CCAGCCATGAACCTTCTTCTGT	21853	GACCCACAAAGCTGAAGATGTTTAC	32837	ACCATGCCAGCCATGAAC	43821
10196	CTCTGTATGCCAGCTCCCTTTC	21854	AGGGATTGAGGCTGTTTCCATT	32838	CCTCTCTTGCCACATGATCTGTATG	43822
10197	GGTGAAGGAACATAGAGTTGCAT	21855	CAGTCTTTACTTAGTGGGCCAAATC	32839	GGGTATGGGATAATGGTGAAGGAACA	43823
10198	GCATTCATTGTCTATCTCAGCATCAGT	21856	GGAAATCAGGAAGGTGATGTGTA	32840	CATGGTCAAGTAAAGCATCCAT	43824
10199	GCTATGCCACTTCTCTGAGACT	21857	ACAGCAGGGACAAAAAGGATCA	32841	CTCTCTTTGGTTTTGATCTGCTATG	43825
10200	GCACAGCACTGAGGACAGCTT	21858	TTTCCCAACGGCTCTCACA	32842	CGTATTCTGTAGCACAGCACTGA	43826
10201	AGAAACACCAAGGGCAGACA	21859	TGGTCTCTGGCTAGAAACAGT	32843	AGCTGGAACCTAGAAACACCAA	43827
10202	GCACTGTGAGCACAGGTTCTTC	21860	GCTGTGCAAGTGAATACAGGTAA	32844	TGCCACCCAGCACTGTGA	43828

10203	GACCCCTTCAATCTGGAGCTGAGTT	21861	CACAGTCCAGGCTGACTTCATT	32845	CCTGCTGGAGACCCCTCAATCT	43829
10204	GCTGGGCCCCATAATTGAAGGTA	21862	CCAAGCCCTGCTGGTTCA	32846	AGGCTGTGCTGGGCCCCATA	43830
10205	GACCTTCTGGGAACCAAGTTTCT	21863	GGAGGAGAAGACTCATCCAGTCAA	32847	CAGCTGGACATACCAAGACCTTCT	43831
10206	CACCTGGAGGATCAGAACTGTATTTTC	21864	CCATTAAAGTCCAAGATAGAGGACCAT	32848	GTCTGGTATTACACTGGGAGATCACA	43832
10207	CGGAAAACTTGAAGGAAGGAGAAG	21865	ACAACCTCAGCGGCTCGTAAG	32849	ACTAGCAAGTCGGAAGCTTGGAA	43833
10208	GAACCTCCCGCTTTGAACAATTC	21866	CTCAGCTTTGTGAACCAACAT	32850	ACCCTGAACCTCCGGGCTTT	43834
10209	GCGTCTCAGGGCGCATTTGTAT	21867	ACAGCTCCAGGGGCACTAACT	32851	TGACATTGCACAGCGTCTCA	43835
10210	GCCACTGTGTCGAGTCTCTCAA	21868	GGCCCACTCTCAGGATTAGA	32852	AAGGCTGGGCCACTGTGT	43836
10211	TGAGGAAGAGCGAGCTTTCTTAG	21869	CTGGAGCTAGAGGAAGGGTGAA	32853	GTGCATGCATGTGGTGAGGAA	43837
10212	CCTAGAGGCCACTGTACTCTGAA	21870	GCAGGCACCACAAGCTTTCTTC	32854	CAGACGTGGGCATCACCTAGA	43838
10213	AGCTGTCCAAATCCAGCTCTAC	21871	GCAACCTTGGTGAGTGAGTCT	32855	GGTTGGCACACCTGCATTGA	43839
10214	GAAAGGCTTATCGGGAGGTTGT	21872	ACCATGTGGGGCTCAGAATG	32856	GCCCTCCGTGGAAAGGCTTA	43840
10215	CAGGCACCAAGATGTAACACTAGA	21873	CGCTAGAAAAATTCGAGGATTAG	32857	GAGATCTCAGGCACCAAGATGT	43841
10216	CGTCTCTTAACCTGGTGGTCTT	21874	CCCTTTCCCAAACTAAACCACCTTTG	32858	AGGTGCCTCTCGTCTCTTAAC	43842
10217	GCTGAGTTCTGGCAAATGGGAAA	21875	TCAAGAGGGCAGTCCAGGAA	32859	CCTGACCTTGGTGCTGAGTTCT	43843
10218	GCCATCTTCACAGAGTTATAGGTCTA	21876	ACGGACCCATGTGACTGTCT	32860	CCCTGTCTATGTGCCATCTTC	43844
10219	GCAAAGGCCCTGCTAATTTTCTCTGT	21877	GCTCCCTTCAGAAGCATGTACACTAA	32861	CTTGTGCAAAGGCCCTGCTA	43845
10220	CCGGAGTGAGAGAAGCAAGGAGTCT	21878	ATTAGGCCCAAGCTGGCCAGAAG	32862	ATGCCACCGGAGTGAGAAGA	43846
10221	GCTAAGAAGAAAGGCTCACTGAAAGT	21879	GTCAATGCCTGCAACAATGACAA	32863	CCCAAAACATGGGTGGGCTAA	43847
10222	CCTTCAAACCCGGGGATGCTA	21880	TGGGTCTCAAAGTGGTTGGATTCT	32864	ACCTGGCACACCCCTTCAAA	43848
10223	CAGGGCTTCTCTGCTTTTCCAA	21881	GAGAACTTCTAGAGAAACAGGGTAGTT	32865	AGTCGTTAAATCTTCAGGGCTTCT	43849
10224	CCCTCCACTACTCCCTGGATTT	21882	GAGTCCCAGGACTACAGATCTAGTAAA	32866	CTCTTAACCACTACCTCCACTACT	43850
10225	CAAAACCGTTCACCCAACATTG	21883	CGAGCTTAACTCCAGCTGTCAA	32867	GGCAGCAGAGGACCATTTACAA	43851
10226	AAGCCTTCAGAACCTGAGACTTC	21884	AGTCCCCCTCTGGGTGAGTATT	32868	GCAGTGTGTAAAAAGCCTTCAGAAC	43852
10227	GGAGCCAGTTGTCAAGTTGCGTTA	21885	CCCCACAATGGCAGGATCTACAAC	32869	CAGAGGGTGGGAGCCAGTT	43853
10228	TCGTAGCCTCACTCTCTGCAA	21886	TGGTACCACAAAGTCAGAAACGTA	32870	CAGATGGCCACTAGAACTCTTCGTA	43854
10229	CAAACACCACAGTTACCAGGAA	21887	GGTCCCTCAGTGTGTCAGCTAT	32871	GGCCCTGGTGTCAATTTTCCAA	43855
10230	GGCAGTAACCATAGTCCATGCAA	21888	GCTCTGTACCCCACTAAGGAAAAG	32872	GGGAAGTAGGAGTGGCAGTAAC	43856
10231	GCTGTGGTTGGCTGGTAACT	21889	GCCAGACAAGTAGCCACAGA	32873	CTCATTCCATTGCTGTGTGGTT	43857
10232	CCTCTTCAACCCCTTACTTTCACT	21890	GCCTTCAAGAGACTCATCTAACACA	32874	TGATGCCTCTTCCACCCCTTT	43858
10233	GGAAGTCCCAGAATGAGGTTTCA	21891	GCTGCCAAAGTGAGCACAATTCA	32875	TGGGCAGGAAGTCCCAGAAT	43859
10234	CTGGAAGGGTTACAGTGAGTCAT	21892	TTGCCAGTGTCTTCCAATCA	32876	GCATCTCTGGGAAGGGTTACA	43860
10235	AGCTTGGAGCTCTAGGGTCTT	21893	CCCATCACTCCGCAAGAGACA	32877	TCTGGCACCTTGAGAGCTT	43861
10236	CCACCAAGACGGGTCTCTCTGTAA	21894	TGTCTGCCGGAGGGCTTATAGT	32878	CCTCTGCTTTTCTAGTTTCCACCAA	43862
10237	GCTGTTCACTCTCTCTGCTCTA	21895	GGACAGGGCACTATGTGGAAAAG	32879	CCTGGTCACATTAGGCTGTTCCT	43863
10238	GTCACTTAGAAGCACCCATCTGT	21896	CAGATGGAATCTGTCTAGATGTGGATGT	32880	GCTTGGCCTGCAGTCACTTAGA	43864
10239	GGAGCAGGGCTAACTACATGAAG	21897	GAGAGATGCCAAGAGTCCATACATTG	32881	TCCTTGTGGAGCAGGGCTAACT	43865
10240	CGTGCTGTTAGGAGCAAGAGA	21898	CTCACGGGGCTCCTTTTGA	32882	AGGAATAGGGGCGGTCTGTGTA	43866
10241	CCTGAATCTGTGTGGATCAAGTGT	21899	GTGGGATGGAAGTCCAGAAAC	32883	CCCCTGGTCTGCAATCCTGAATC	43867
10242	TGGGATGAGGCAGAGGCTTGAA	21900	TGCACCTAGGCGGCTGTGA	32884	TGCAGAGAGGCTTGGGATGA	43868
10243	GGGCACTACCTCCAAGATGCAA	21901	GGGACACAATACCATGCTTTGTGA	32885	GCAAGGATGGGGCACTACACT	43869
10244	CAAACGTGGTAGACCCGACACT	21902	CGTGCAGGAATGTGCGTTCT	32886	GCAACATCACAGACAAACGTGGTA	43870
10245	ACTTCTGGGCTTAAATGGAGTTCTAC	21903	GCCTCTTCTGTATTGCTCGTTTG	32887	GCAGAAACCAACTCTGGGCTTA	43871
10246	CGGTGGCTATGCGGTGTAAAGA	21904	GACTAGAAGACCACTTTTCCAAATG	32888	TCCTCCCATAACGGTGGCTAT	43872
10247	GCTGAACCAATCAATCTGAGAGTCTT	21905	CTGAGGTTACACTGAAAGGAACAA	32889	CCTGTCTTGGGAGCTGAACCAA	43873
10248	GGCTGGGATCAAGTTCTGTCTCTGT	21906	GAGAGGTTACGAAGTCACTGAATCTCTTT	32890	CTGTGTGCTGGGATCAAGTTCT	43874
10249	TGCTCTTTTCTATTGTGGCTATG	21907	GTGCCATGTTTCTGCCACTT	32891	GCTTGGCTGTCTTGTTTTCA	43875
10250	CCAGCCACAGTGATGTGCTT	21908	AAAGTCTCAGAGACCAAGAGTTG	32892	GCTTCAGATCCAGCCACAGT	43876
10251	GGTTCTTCATTTTGGAGAGCACGATTG	21909	CCTCTCCCTTTTCTCTGTCTTTTA	32893	CGAGGGATCATAGGTTCTTCAATTTG	43877
10252	GGCTGAGTCCATTTTATAACCGTGTGT	21910	GGCTATGTATGCCCTTGTGTCTATATTC	32894	GGCACTGGGTGAGTCCATTT	43878
10253	GGGGCTGTCTCAGCTCTTTGT	21911	CAGGGGCTGATAGTGAACATAAATC	32895	GAGAGAGAAGGGGCTGTCTCA	43879
10254	CCCAGTGAAGAGTGACTTAGCTT	21912	TGTAAGCCTAGTTCCTTCTCTATTC	32896	TCCACCAACTACCCACTGGAA	43880
10255	CTTGCCCAAAACCACTCCTT	21913	CTCCTTCTTCTCCAGGAACCAATTAG	32897	GTGGGAAGTAAGAATCTTGCCCAAC	43881
10256	CCCCAGTGCTCTTGTCTCTGATA	21914	GGGTCTACAGGGCACAGACT	32898	TTTCTGGCCCCAGTGCCTCTT	43882
10257	GTGAAAAGGGGAAGCGAAGATG	21915	TGGGTTTCTGTGTCAGTTTGACT	32899	TCCTTGGGATCAACACATGTGAAA	43883
10258	TCTCTCTTCCCTCTCAACTGATT	21916	CTCCAGCTTCTATGGGAGTTTC	32900	ACCAGGACTGGGTTCTCTCTTC	43884
10259	CCTGCCTTACTACCCCAATCATC	21917	AGCAGACTCTTAAATCCGATCTGT	32901	CAAGTACCATCCCTGCTTACTAC	43885
10260	AGGCTCAGAGGCAAGACAGA	21918	TGCAGCCATAGGTAATGGCTTT	32902	AGCAGGGACAAAGGCTCAGA	43886
10261	CCCAGGACCACAAGCACACTTT	21919	GACAGCCTTCCAGTGCTATTCA	32903	CCTGACACCCAGGACCACAA	43887
10262	CACGGAGGTGAGCATGATGCAA	21920	TCTTCCCGCCTGAGTGTCA	32904	GTTTGATGGCTGTGGGAAACA	43888
10263	CTGGGGTCTGTCTCTGGATGATCT	21921	TGCTGCCAGTTAAGATGCAA	32905	TAGGTAGCTGGGGTCTGTCTCT	43889
10264	GCCTCTCCACCTTTTGAATAAGGGTATC	21922	GGTGACTIONAGAACAGGAGAACT	32906	GGGATTACAGCCTCTCCACCTT	43890
10265	CTCCTGCAATATCCCTATTCAAGAGT	21923	GCTCCACCACCATCAACACT	32907	CAGGGCAGTTAGACTCTGCAAT	43891
10266	CAAAGACACATTTGCTCTCTACT	21924	CTGCAGTTGCTTCTCTCACA	32908	AGTCCAGACCTCTTCCAAGACA	43892
10267	CTTTCACCGTTAACTGCGTTT	21925	GTTCCACGTGTACTIONGATCACAT	32909	CCAGTCTCTTCTTTCACCGTTA	43893

10268	GCCCTGTATTACTCCACAGTGTATG	21926	CTTGAGTGTGACTGAGGTAATGAAAG	32910	CCACTGTTCAAGTGAGCCCTGTA	43894
10269	GCCTGGATGGTTCTAGGGCTTTC	21927	CCCCTGTGGACACTCGACTACA	32911	TGCACAGCCTGGATGGTTCT	43895
10270	CTTGACACAGAGGGTGGTCATT	21928	CCTCATTTCCACCATCCTGTCTT	32912	GCCATGCCTTGACACAGA	43896
10271	GACACTGACTCTCTCTGTCTCAGATT	21929	AGAGTCTGGCCAAATTCAGTAAA	32913	GGGACCTTGACACTGACTCTCTTC	43897
10272	CCCTCTTCTCTTCCACCAGTT	21930	GGCAGCAATGCTGTCTACAT	32914	ACATCCGCCCCCTTCTCTCTT	43898
10273	GAGGTGGCAATAGCGTTGTGTT	21931	TGCCAGGGTCAATGGAGGAA	32915	TGGTGGAAAGAGGTGGCAATAG	43899
10274	GCACAACCTTCCCATCTTGTCT	21932	CAGCCAAACAGAACTACTCCAGCTT	32916	AGCTAGTGCCCTCTTGACAAAC	43900
10275	GCCACCTGCAATATGCTTCA	21933	TCAACCTCCCTGCCATGGTTA	32917	TCCCATGCCACCTGCATA	43901
10276	GTTCCCCACATACCTTGCTTGT	21934	AGCCGGATGGTCCAGAGATGA	32918	CCACTGGATCAAGAAGTCCCCACATA	43902
10277	GCGGATGGATGTCTAACCCAGTT	21935	TTTGCCAGAAGTTCAGCAGTCT	32919	GCTGGTTTGGCGGATGGATGTCT	43903
10278	AGCGTTTGGCCTTGGGTAAG	21936	GGGGACAAGCAAGGCATTAGTGT	32920	ATGACCAGGTGCGAGCGTTT	43904
10279	CCGGAATATCAGCCCCATATTATCTACA	21937	TCCAAATGAGACCAGAGTTGAAG	32921	AGTCCGGAATATCAGCCCCATA	43905
10280	CTGTGTGGTTGCATTCCCTTGA	21938	GACGAATGTCCTCAGCACTACA	32922	CGGTCTGACCTGTGTGGTT	43906
10281	CTGGCTGTCTACTGCAAGCAA	21939	TGTTTAAACACGAGACAGAAACCCAAA	32923	TCCTCCCTCTGGCTGTCTAC	43907
10282	GGGACACAGAACAAATTCAGGACTCT	21940	CCAGCTCACGTGTGTGGCTTA	32924	ACCCTGACTTTGGAGGGACACA	43908
10283	CCTGGGGCAAGTTTTCAGGCCTATC	21941	CCTCAACAGCCCTGAGTCTGTTC	32925	GGTAGCCTGGGGCAAGTTTT	43909
10284	GTCACCCAGTTCTACTTGACAGT	21942	CGAAGAGGGGATCCAGCTCTAAT	32926	GAATCTAAACAGTCACCCAGTTCTTA	43910
10285	GTCACAACCCCTACAGTTACTCCTT	21943	CATGCGCAGCAGAACCTTCACT	32927	CCCGTAGTCACAAACCCCTACA	43911
10286	AGTGCTTGATTCCACGTATCTGTT	21944	GTAGGATAAAATAAGGCAAGCGTCTTC	32928	GCCTGGCTTAAATAAGTGCTTGA	43912
10287	GTTAGGTGCCATTAGCAGCAGTA	21945	CATTTCCCATCATCTGCTTCTTTTC	32929	AGCAACCATGTTAGGTGCCATT	43913
10288	GCCCTGGTTAGTTACAGGAAGAAG	21946	GGCTTCAGGGCACCAGAATACACA	32930	TTTTGTGAGCCCTGGTTAGTT	43914
10289	CCTACCAGATAAGCCTTGAGCAAT	21947	GGCTGAGGGCCTTCAATCAACA	32931	GGGCACCTTTACTCATCTACCAGATA	43915
10290	GCAGACCTTGTCTCGCTTAGTTC	21948	GTGCACTGGCGATGGTAGT	32932	TAGCCACCTGCGAGACCTTGT	43916
10291	GCCAGAAGTGCTATTCTAAACCAATC	21949	GTTACACCCAGGCAGTGATCT	32933	ACTGGCCAGAAGTGCTATTTC	43917
10292	GCCTCCAGTTGGTTACAGAAATGA	21950	GCTCTTGACAGCAGAGTCTAT	32934	CGTTTTCTTGCTCCAGTTGGTT	43918
10293	CGCTACCATGTCCAGCTAGGTT	21951	GCCTAGGCAGCATAGTGAGATTTC	32935	CTACAGGCACACGCTACCAT	43919
10294	ACAGACACCAGCCAGCTTCA	21952	CACAGAAAATAAGTCGCCAGAGT	32936	GCCCAACGCTCAGACAGACA	43920
10295	GTGGACTCTGGTCTACATGGGAAA	21953	ACCTGGACTCTCGCTTGCTT	32937	GAGGGTTAGTGGACTCTGGTCTA	43921
10296	GCAGTCTTCCACACTCTTGCTAT	21954	GGAGGTTATTGGCTTCTGCTTCT	32938	ACAACAGAGTTAGCAGTTCTTACA	43922
10297	TGCCAAGAACCTTAGGGACATC	21955	AGCAAGGTTCACTGCGAAATGA	32939	CCCCAGATGCCAAGAACCTT	43923
10298	GGCTCAACCCATAAAACGATCA	21956	GTTGAGCCACGAAAAGTACTTGAA	32940	AAGGCACGTATGGCCTCAAC	43924
10299	CTCATTCCTAAACCCAGGACTGAAC	21957	CAGCAACTAAGGCTTGTCCATT	32941	CAACCGAAGCACTCATCTCTTAAC	43925
10300	GCAGGCACCTAGTATCAAGCCAAAG	21958	CCCTCTGGGTCTCCCTCATTTTC	32942	GCACTTGGCAGGCACCTAGTAT	43926
10301	CCATATGACTGGCAGGTCTCTCA	21959	CCTCCCTCTCAGCATCATTTG	32943	GGTGAAGAGCCAATCAGGCCATA	43927
10302	CCACAACCAGCTCTTGTAGTGAAAGTA	21960	CTGGGAGCAGAACCCAGCATT	32944	ATCCCCAAAGTGGCCACAAC	43928
10303	GCAAGCCAGGGAAGAATCCAGTTG	21961	GAGGAGTCAGGTCAGGAGTAGAAAC	32945	GGCGCACTTCTATGCTGCAA	43929
10304	GGGTGATGCCAACTTCCAATCTTAG	21962	GCTCGAGAGTTGGTTGCAAGTTG	32946	CCATCGTGACTATCTCATGGGTGATG	43930
10305	GCTAATGTTGGTCTCCAGTTCT	21963	TCAGACAGGCCATGGGATCTA	32947	GGGAGGTCTGTTGCTAATGTTG	43931
10306	GTCCTCTTTTGAAGCACACTTCTTG	21964	GCAATGGAAGGGTAGTGGGTACT	32948	GGAATATGTTCTGTGCTCCTCTTTGAA	43932
10307	CTGGAGAGCTGGGAAATTTAGATG	21965	CTGACGCTGGATGGCCAAAT	32949	TCCACTGGGAGGCTGGGAAA	43933
10308	GACGGGGCTTAAAGCTGTTTG	21966	GCCACTGGACTTACTTCGCAAAT	32950	CCAGTTTGGTGACGGGGCTTA	43934
10309	TTCCAGCTAGGGGAAGCTAAC	21967	CTGAACCTGGCTTACAAAAACACA	32951	TGGCTCCAGCTCTTCCAGCTA	43935
10310	GCTGCTGTTGCCGTTCTTC	21968	GCCGCAGCAGCTTCTCATTTC	32952	ACTCGAGCCCCTGCTGTT	43936
10311	GTCGTGTTGCTGATTCTCTCCAT	21969	GTTCTAGCATTTGGAGGAAATCCAAAGT	32953	CCCTGTTGTCTTCTCGTCTGT	43937
10312	AGGCCACAAAGGGAATGTCT	21970	ACTTGAGTGTTGGGTCAACAAGA	32954	GCCAACTCTCAGCCACCAA	43938
10313	CCGGTATAACATTGCCTCCCTAAG	21971	AGAGCCCTGTCTCCTTCTCT	32955	GGGCGGAAGTACCGGTATAACA	43939
10314	AAGAAGGCAGGACTGAATGTCAA	21972	GCCATCTGGAGGCAGCTGAAAT	32956	AGGCAGTCTCTCAGTGTAAGAAG	43940
10315	ACAACATGGCTGTCTTCTGAAA	21973	CCCCAATACCTTTAAAGCTGGAGCAA	32957	CCCTTGGTTCCTACTGTAACAACA	43941
10316	TGCTGAGAGTTTTGCTGTCA	21974	AGACTAGCTGAGGGAAAGTGTA	32958	CCCTGTTGTGCTGAGAGTTT	43942
10317	TGTCCTATCTCTGCCAGTGAAC	21975	CCTGGATTGCCCACTTCCAT	32959	GAAGTATAAACAGTGTCCTATCTCT	43943
10318	AGAGAAAAGCAGGCCTGGAATG	21976	GGCCTCGTAAAAGGCAGGAT	32960	TCCACGGAGAGTGAAGAGAAA	43944
10319	AGGCGTCACTTTCTGCTGTT	21977	TGACGACTGGATTGTCCAACAAA	32961	TGGTGCAGGCGTCACTT	43945
10320	CAAATGCTGGGACCGGATCT	21978	TGAGTCCAGGTGACTGTAGGAA	32962	ACTGCTCGAATCAGCCAATG	43946
10321	TCCCTCCATTCCCATGGCTTCA	21979	AGACCCAGGGCACTTCTGAT	32963	TCCTCACTCCATTCCCTCCATT	43947
10322	CTGCCTTAGAAGAAATCTCTGGGAAA	21980	CTCATCTCTGGGTCTCTCTTTAGATG	32964	TCCCTGCTGGTCTGCTCTTAGA	43948
10323	ACAGCACATAGTCTCAGGGTTCA	21981	AGGTGTCTCTCCTCCATCTTAG	32965	GTCACGGGTACAGCACATAGTCT	43949
10324	GGGCCCTGAAATATGGAGCCTTT	21982	TGAGGTTGCAATTACCCAGAA	32966	CAGTGTGTTGGGCCCTGAAATA	43950
10325	GCCATAGGATCACCAGCCATCT	21983	GGTGTGATCTGTGGGCATATC	32967	AGGCTGGAGCCATAGGATCA	43951
10326	GCTCTCAAACTCTGGGGACCTT	21984	GTGCCCTAATGATCAGTCTTCACT	32968	AGCCTAGGGCTCTCAAACCTCT	43952
10327	CCCACGAGATGCATTCCCTCTA	21985	AGCCACAGGCGAGCACATAG	32969	GGCTTAAACATGCCACGAGAT	43953
10328	GGATTGAGGCAAAAGCCAAACAGA	21986	CCCCAAACCTTCGGTTTTCA	32970	CAAGGCAGGGATTGAGGCAAA	43954
10329	GGGGTGGGCAAGCAGTTAGA	21987	AGGATAATGCTGGCAAAGACACA	32971	AAAACGCGGGGTGGGCAAA	43955
10330	TGCAGTGAAATGCGAGCAGATG	21988	CTCTGTAATTTCTGGCATTGGAGTCT	32972	CCTCAGGAGACAGATGCAAGTGA	43956
10331	CACATGCTGCCATTATACCTTGTTT	21989	TGCAGCTGGGCTTAGCAACT	32973	GCTTTAAAGATCATGCTGCCATT	43957
10332	TCCACGTAGTCTGTCTCCATGAT	21990	ACCCCTACCCAGGAGTTTTG	32974	GGAGTCAAAAGCTTCCACGTAGT	43958

10333	CAGCAGCCCAACCTAAGACA	21991	CGGTGCCCAAGGGCATGAT	32975	AGCCTGTGGCGCTTTGTT	43959
10334	TGCAGACACTCAAACCTATTGTTG	21992	GTCTGTGTGTAGAACCCCTATTCTTC	32976	CCGGCATGCAGACACTCAA	43960
10335	ATACCACCTGTGTGCTGTACAT	21993	GTGGCTTTTTGGTAATTGTGCTGAAC	32977	TCGGATAGATCTTATACCACCTGTGT	43961
10336	TCCTTGGCCACACATGTCAAG	21994	GCTCTGCCGAGGCTGGTAAAAA	32978	GAGGCACGGTAGACATTTCTCTT	43962
10337	GCAAGCCTCAGTGTGAGTTTTCAA	21995	CCCAAATGCCCGTCTGTGAAG	32979	TGTTTTCTGCAAGCCTCAGTGT	43963
10338	GACAGTAGTCCCTTTATTGCCTATACCTA	21996	TGACGAAAGGCGGTGTAGTAG	32980	CCCTACAGACAGTAGTCCCTTTATTG	43964
10339	ACACTTGCCAGTGGTCCCTAAG	21997	ACCTGAAAGAGGGAAGTCCAAAG	32981	TGGCACCTATGACTGACACTTG	43965
10340	AGTGGTTTGCTTTAGCTGAAGTGA	21998	GGAACTAACTCTGGGATCAGACAACT	32982	CGGAGAGATGAAGTGGTTTGCTT	43966
10341	GACTATAACCCGAGACGAACTCA	21999	ACTTAGTTTCAGGGGCTACACAAAAA	32983	AGCTGGGGTGGGCAGACTA	43967
10342	TGCTTCGCTGCTCCAGTA	22000	GTGGAGAACAGAACAGGTCAAAC	32984	CCCTTCTCAGGCGGTGCTT	43968
10343	CGTAGTGATTAGAGACCCAGGTT	22001	CTCTGAGGTTCTAGGCTATGACAGA	32985	CGTAGGCAGCCTTCCACGTA	43969
10344	CCCTTATGCTGGTAGGACTGGTT	22002	CAATGTATTCCCTCTGCACCTA	32986	CACATGCTATTCCCTTATGCCTGGTA	43970
10345	CCACCCCACTTCTATGCCTTTG	22003	GATGGAAAAGAGGGAATTGCAAGTAGA	32987	CCTTCAGTATCTCCACCCCACTTCT	43971
10346	GCTAAACTTAAACATCTCAGCCTCCTTTC	22004	CTGGAAACCCAGACAAATGACCTTGT	32988	CTGGGCACCCAGCTAAACTT	43972
10347	AGAGACCCCAAGGCTGTAGT	22005	GCAAGGAGGTGGGATGAGACA	32989	CCCCTGACTGATGTGTCCAGAGA	43973
10348	GTCGTCTAGGGAAACCATGTCACT	22006	GGAGATCTTTAGGATGAGCAGCAAT	32990	GCACAGTCTGGAACACAGTCTGCTA	43974
10349	GCCCTGAACGCATCTTCTCTA	22007	CACATTCTGGAAGTCCCTTCT	32991	AGTGCCAGACAGCCCTGAAC	43975
10350	GCCAAGCAATGATGCCTTATGAT	22008	GCAGAAGAGAGCTGAGGTTAGATG	32992	ACAGACTACAGCCAAGCAATGAT	43976
10351	TGCTGTCACTGGAATAGTTGAGAT	22009	TCTAATGGACAGCATTGGGTCAAA	32993	GGTACTGATCTGCTGTCACTGGAAA	43977
10352	GTGACATTAACAGGACACTGACATTCTTG	22010	GGATGGAGGGAGCCATTTTAGT	32994	TGGCACCATTTCAGTGACATTAAAC	43978
10353	CAGGTATTAGGGACCTCTGAGCTACT	22011	GCTAGTTGAGGAAGCCCAAGTAT	32995	GATTGAGAAGCAGTAGTAGCAGGTAT	43979
10354	TGCTCGATCCGGGAAGCTGT	22012	CCAGTCCCTCGTTTCTCTCAAA	32996	TCCAGCAGCTGTGCTCGAT	43980
10355	CACCTCACACTTAACGAAGGCTATTTC	22013	GGCAGCCTTCCATGTCACTTAC	32997	CTAGAGGCAATACACTCCACACTT	43981
10356	CCGCACTGACTGACACAGTTAAAGACA	22014	AAGGTAGCACGATTACAGCAT	32998	ACACCGCATTGACTGACACA	43982
10357	GCAGGGATCTAACCCCTAAACATC	22015	GGAATTGCACGGCAGCCTTTAC	32999	GCTGCACTTGAGGGATCTAAC	43983
10358	CGGAGTGTGCACAAGAATATTTGGATGT	22016	CCCACATGAGCTGGCTTCATTTTC	33000	TGCTGGAGTGAGCGGAGTGT	43984
10359	CAGCCACATGGTAATTGCCTTAAA	22017	GCCTTGCTGGAGTGCAAAAC	33001	CTGTTTATCTCAGCCACATGGTA	43985
10360	AGAACCCGAAGAGACCCAGAA	22018	GCTGATCATGTACCCGCTTG	33002	CCACCCAAAGAACCCGAAGA	43986
10361	CAGCATCACCCCTACATGACTAAA	22019	GTGACAATCTCTCTCCACTTCT	33003	CACAGACCAGGTTGAGCATCA	43987
10362	GCATTGTGTGATACCTGCACTTCA	22020	CCCAGATGCCTGTGGAGTCACTA	33004	GGCCCATCAGATTCTGCACTTG	43988
10363	GTCTCAGGGTGCCTGATCTGTT	22021	AGAGAAAGTGGCCCTGAAGATAAG	33005	TTGTGCCTCCCAAGTCTCA	43989
10364	TCAGCTCCGGACCCATGT	22022	GGAGAAGACTACTCGTACCGTGACAAT	33006	TTGCCATGACCCGCTTCT	43990
10365	CGGCCCTATCTCATCTGTGTCTGA	22023	CGCCAGGCTTGCAAGTTGAT	33007	CCGCACGGCCCTATCTCATC	43991
10366	GGAACCACTAAAACAAATGCGGAGTA	22024	GATCATGTCCCAACCGTAGT	33008	CAGAGAGCCACAGGAACCACTAA	43992
10367	GCCTCGGAAGCAATGGGTTATG	22025	CGTGTGGATCCTTTGAGAAAACT	33009	TGTACAGCCTCGGAAGCAA	43993
10368	GCTCTCACGAGGACATTTCTACA	22026	GGGAGCTGATGGGCTCTCTTTAG	33010	GGAAGAGTGTGGTTGTCTCTCA	43994
10369	GGGCACAGTCTCTCCAGTTTC	22027	TGGTCTGTATGACACACCCAATTAT	33011	AGGCCATGTGGGGCAGACT	43995
10370	GGCCAGGGAGTGAACATAAATCCAA	22028	GAACACATCTTAGGAGGGAATATGTCT	33012	CCAGGCCAGGGAGTGAACA	43996
10371	CACCTTAGCACCTGAAGAATAAAATC	22029	GCAGTGCAGGGTTCTTACATTC	33013	TGGCACACACACACCTTAG	43997
10372	GGTTCAGAAGAGTAAGGGCTTCAGT	22030	CGCTTACCTGGCATCTTCTCT	33014	CCTTGTGGCCTTGTTGTCAGA	43998
10373	CCAGTCTCTTTCTCTGAAACCAA	22031	CTGTAAAAGGCGCTGTTTGTGA	33015	CCCAACTTGCCAGTCTCTTTT	43999
10374	GCAGAGTGTCCATGTGTGAACAAAG	22032	TTGACATATTACAGCCCTCAGCAT	33016	GCAGTCAGCAGAGTGTCCAT	44000
10375	GGGCTCTTTTGGCATCAGCAAT	22033	ACGGTGCCTTGGGTTACTAGA	33017	AGGGCTTGGAGGGCTCTTTT	44001
10376	CTCCCTTGCAATTACCTCCTT	22034	GGGCTACAAACTAAGGCCAAAAAC	33018	TGGGGTCTCCCTTGCAATT	44002
10377	TCCTCTCTTTTAAAGACTTAGCACATC	22035	GCCTCTGCTGCTCGCATGTAT	33019	CGGGGATAAACACTTCTCTCTCTT	44003
10378	ACCTGCTGACTAATAACAAGCTGAAG	22036	ACTATTACAGACATCACTCTCCAT	33020	GGAACCTTTCAGTAATCACTGCTGACT	44004
10379	GCCCTGGCTGAAATGGTGAGT	22037	ACCCTCTGGGGTTCTGGCTAT	33021	ACCCTGGGCAAGGTCACT	44005
10380	CACAAGAGGTTGATGACCCATACA	22038	CACAGTAAACAACCCAGCACATATT	33022	CTGGAAGAGAGCACAAAGAGGTTGAT	44006
10381	TGGTGATCCGATGAGAAATGAAAA	22039	TTGCAAGAACACCCATAACCTCTTA	33023	CCGCTGCATGTTTGGTGAT	44007
10382	CCTCCTAATTAGCAAGGGAGCTAAC	22040	GAGCTAACAAATGAAGGTAAAGCGAAT	33024	GGAGACTGGTGAGGAATACCTCCTA	44008
10383	CCAGAGACTTCGGACACCCAGAGA	22041	GCTGTTTTATCAGTGAATCCAGTCACTT	33025	GTTGATGTGTTTGCAGAGACTTC	44009
10384	TGCCCAAGGCCATGGAACCTA	22042	GGACAGACACGGGGTCAAATTC	33026	GAGGCTCAGAGGAGTTGACTTG	44010
10385	CGACCTTCCAAACAACCATGCAAAAG	22043	GGAGTGACGCTCCTTCTACCTA	33027	TGGCCACCTCACGACCTT	44011
10386	CGTCAAAACAAGGTGACTGCTCATT	22044	GGTAGGAATGTTTCCCAAGCTATTCA	33028	GCTCCAGCTGTACCTACGTCAA	44012
10387	GCCAGAAATGGGGAGACCAAGT	22045	GGATACACATCTCTCTATCTGCAT	33029	GCAGAGAGAGGTGCCAGAAAT	44013
10388	AGCCTGCTCGTATATTAAAGTTTCA	22046	CCCTCAGACCTCAGCTGGTTT	33030	GCATTTTATCTAGCTGCTGCTCGTAT	44014
10389	CCTCCCCACTTTCGCCCTTTTCA	22047	CTGGTCCGGCTACTGACATTT	33031	CCACCCACTCCCCACTTT	44015
10390	CCATTAGAAAGGTAGCTTTTGAAGTGAAG	22048	TGTTAGCTGTAACTTGTCTCTCTTG	33032	TGTACACCCACCTCCCATTAG	44016
10391	ACACCTGACTCACTCTGTTCATAC	22049	GCCGGCTGGGTTTGACCAATA	33033	GGCAAAAGTAAACACCTGACTCACT	44017
10392	GACCCCACTGCCCCAATTAAGA	22050	GCACAGCCCTTCACTTCTCT	33034	TGCAGCGTTTGACCCACACT	44018
10393	TGGGGAAGTCAACCTTCATTTTACA	22051	GCAAGCAAGCATGCAACCTT	33035	ATTGGATCATCAGATTGGGGAACT	44019
10394	TGCTGATAGGGATGCTGTTTG	22052	GGCCTCCGCTGTGATTCACTT	33036	GTGAGAGACCTGGAATGCCTGATAG	44020
10395	GACCAAAATGCCCTTATTTTAGTGGAGTA	22053	GCATTAAGAGTCATACAGCAGAGTCAT	33037	CAAGGGACCCAAATGCCCTTA	44021
10396	GGCCTTTGCTTGTCTAGTAAACTCT	22054	ATGCGCCAGGAGGGTCTTG	33038	CACAGGCCCTTGTCTGCTCA	44022
10397	GTCCCTTGGAAAAGGTGGACAA	22055	GTCTAGCACTGGTAGCACTGGAT	33039	GCAGGTAAGGAGTCCCTTGAA	44023

10398	GCATGAAACACTTGGGAAAGCACATA	22056	CTCTAGACACACAACGTCTCTTTTTC	33040	TGAACAGTCTGCATGAAACACTTG	44024
10399	CGTGGGGTGTATAGTCTAAGGATTGAGA	22057	GACATTTTGACAGTGGTTTGTGTGA	33041	TCCTCTGTTGGGGTGTATAGTCT	44025
10400	ACAAGAAGGCTGTCACTTTACAAGA	22058	GCCCTTTGTCTTCTTGCTAAGTCTCAATATG	33042	CCCTCTGCCTCATGGTACAAG	44026
10401	GAAGAAGGTGCTTCTGAGAAATGTAGT	22059	AAGTGTGACCCCACTAATTTGAAGT	33043	TACCTGGGCACCTGTGAAGA	44027
10402	GAGGTCTGGTCGATCTTGTGACTAC	22060	GAGCCTCAGCATCAAAACCATCAT	33044	CTCCTTGAGGTCTGGTCGATCT	44028
10403	GCCACCATGGATTCACTCTCTT	22061	GAGAGCTTACTCCTCAAGTGTCTTT	33045	GTTCCAAAGGCCACCATGGATT	44029
10404	CCTAAACAACCTCGTGTGAAAGGTATC	22062	TGCCTTGGCAAGCTCAAGTT	33046	TTCTGAGGGTCATCTTAAACAAC	44030
10405	TGGCTGAGGGTCTTTTACTTGATT	22063	GCAATTCCTGACCTGCATCTTTC	33047	TGTTGTGGCTGAGGGTCTT	44031
10406	CACGGTTAGACTTAAACAAGGCTAGAT	22064	CCTTACGCAGTGTGCTGGTGAAG	33048	GGCTGCATAGGGTAAATCACGGTTAG	44032
10407	CACCCACCCAGTGCAAAACA	22065	AGCTGCTTGGTCACCCAAAG	33049	CCCATGGAAGAGGGGCACTGTCA	44033
10408	CTCCCTAAGTACATGGGATCTCTTTC	22066	TTCTTCCCTCCTAGAGATGGTCAA	33050	GCAGAACATGTACTCTCCCTAAGT	44034
10409	GCACAGCCAGTGTACCCAAAC	22067	AGGCCAATGCCGTCTTGAA	33051	AGTGGAGCACAGCCAGTGT	44035
10410	TGGGCTCAGAGGATGGACTT	22068	CAGAGCCTTGGCATAGTCCTTT	33052	CCTTGGGGTTGGGCTCAGA	44036
10411	GCGTGTGACATTTCTGCTCCCTTA	22069	AGGGCCGTAGAGGCAGAACAT	33053	CTGTGCCGCTGTGACATTT	44037
10412	GGGTAAGAAGGCAAGATGATACAACA	22070	GAAGGAAATCCAGTCTGATGGAAGA	33054	CCCTTGTGTGACATGGGTGAAGA	44038
10413	CTGCTACCCCTAACCTGAGAAAT	22071	CCAGTGGCATGGAGTCAGGATAG	33055	GGCCAGATCTGCTCACCTCAA	44039
10414	GCAGGGAGGAAAGCTTCCACTTGA	22072	GACCTCACACAGGTAACCTTTCA	33056	CTTGTCTTCAAGGCAGGGAGGAA	44040
10415	GCCAATCTGAGAGATGCCTGAA	22073	CGCTGTGCGGCAATCCTTT	33057	AGACTTGGGGAGCCCAATCTGA	44041
10416	GCAGCCAAAAGTGAACAGCAA	22074	ACGCATAATACCGCCTTTGT	33058	CGTGATCTTGAGAAGCAGCCAAAAC	44042
10417	CCAGTGACCTACTTGGGAGATTTCTGT	22075	GAAACAGCTCTCAGAATCTAAGGTTTC	33059	CACCATTACTCCAGTGACCTACT	44043
10418	TGGGTACACGTAGAGTGTAAACAT	22076	TCAAGCAGGTACCAATCCTTTCT	33060	GAGGAGAGACACAATTAATGCTTTTG	44044
10419	TCTGTGTGGACCCCTGGCAATA	22077	CCCCAGAGGAGGATGGGAGAATAAG	33061	TGCTCCATGCAGGTCTGTGT	44045
10420	CCGTTAAACCTTGTGGTCTTGT	22078	AGCATCGACCTGCTTTGAA	33062	GGCAGATTATCCCGTTAACCTTGT	44046
10421	GCCACATGCAAGCAAGCTAGGTA	22079	TCTCCAAGTGTCCCTTTGGAA	33063	TCCGCCCTGCCACATGCAA	44047
10422	GGGCTATGCCATGAAAATAGTTGATG	22080	CCAATTTGGCCTCTAATGAAATGTT	33064	AGAAGAGGGGCTATGCCATGA	44048
10423	AGTGTGTCCAGCTGCACTT	22081	GGAGTAAAGGTATCAACACCCTTGA	33065	CCAGGGTTCACTGAGATGTAGTGTGT	44049
10424	CACCTACCTTTAGCTGACATTGAGGTT	22082	ACAGCCCTATCATAGCCTTTACTTC	33066	GAGAAGGCTCTAAGCACTCACCTT	44050
10425	CAATGCCACATACCTCTTCACT	22083	CACCTCATGCGCCACCATTTTATG	33067	GGTCTAGTTTTCATGCCCCACATAC	44051
10426	GAGTGGCTTTTGGGTGAGAGAAG	22084	CAATGCTGTCTTTCCCACTCTTT	33068	AGATGAGTGGTGAAGTGGCTTTTG	44052
10427	CTCCAGTGCTCTTGTCTGACTGT	22085	AGCCTAGTTAGGACACTTGACACT	33069	TGCTGTCCCTCCAGTGCTCTT	44053
10428	GTGGCAGTTCCTCAAGCTAGAGATAG	22086	TCCTGTGAAGCCAATGAACACAA	33070	CTCACTGATGATGGTGGCAGTTC	44054
10429	CACACTGGACGTACTGGACGTATG	22087	GGATGCGAGTGGCTCTTCA	33071	TCACCCACACTGGCAGCTACT	44055
10430	CAAGGTGTCAAGTGGGTTTGCTT	22088	TGCAACAATTTGCAAGCCAAGA	33072	ACCCAGGATCAAGGTGTCACT	44056
10431	CCTTGTAACTGGGATAGAAAAGCAT	22089	GGTGTGACTTGGCAGGAATACA	33073	GGAAATGTGTCTACCTTGTAACTGGGATA	44057
10432	AGATCCACAAAGCATTTGGTCTTA	22090	CCACTCTCAGAACCAAGTATGAT	33074	CCTGGTAGGAAGATCCACAAAGCAT	44058
10433	GCAATTCCTGGACAGCTCTAGT	22091	AGCCACCCTAGTCTCTCTCTCT	33075	CAGTCTAGGACACAAGAGTGCAA	44059
10434	TCAGAGGCCATTTCTAGGGTCTT	22092	TGATGTGGAGAGGGCAACAGA	33076	CCAGCATGTCTCTCAGAGGCCATTT	44060
10435	GCATGGCAGAATCAAGGCTCAT	22093	CTGAAGAATGGGGCAATAGGAAGT	33077	AAGGGAGTGTGATGCGAGAA	44061
10436	ACACACCTGGAAGAGAAAACCTT	22094	GCAGTTCTGAAGAGAGGGCTTTGAAC	33078	AACTACAACACACACCTGGAAGA	44062
10437	GAGCTTGAACTCGAAGTATTAGGTGTA	22095	GCTTTTCAGTAGCATTCATTCACT	33079	TCTGCATGAGCTTGAAGTGAAG	44063
10438	CAGCAGGCTAGTGGCAAAGGTA	22096	CCCCTGCTGGGAATTCAGT	33080	AGAGCAGCAGCACCGGTAGT	44064
10439	GCTTGAATCTCATCCCCAGCACTTG	22097	TCTGCTTTGTACCTTGCAGGAAA	33081	TCGGGCTCGGCTTGAAT	44065
10440	GCTGAGTGTCTGCCAAAGTCT	22098	CGTGCCCACTCCAACCTTAT	33082	TCCATGCCATTGCTGAGTGT	44066
10441	CCCAGGATCAAGAGAAAGGGACAT	22099	CCAGAACTTTGCCACTCTTCTGTCA	33083	AAGCCCAACCAAGGATCAAGAGA	44067
10442	CACCTCGAGTTCTATTTCCAGGTA	22100	CCTGGCTAATACGTGTGAAGACACT	33084	GATGCAACACCTCGAGTTCTA	44068
10443	GGGCTTCTAGGTCCTGGTCTTT	22101	CTCTCCATCTTGTGATCGGTGTG	33085	CCAGCCATCTTGGGGCTTCTA	44069
10444	TCAAACCTTGGCCTTCTGACTTT	22102	CCAAAGGTAACACAGGATGTTGGTA	33086	CTGGGTAGTCAAGGTCAATTCAAAC	44070
10445	CGCTAACTGCCTGCCTGACT	22103	GGTGAAGTAGTGAAAGGTGGTAAGA	33087	AACGGAGGACCCACGCTAACT	44071
10446	CCGTTCTGTACAAGATCCAGATTG	22104	GGAAATAATATAGCCTGCCTTGACTTC	33088	AACTAGGCCCGGTTCTGTGA	44072
10447	GGCTCCAAATCACCACACCAAAC	22105	CCCATGGGTGTATTTGAAGGATGAA	33089	GATTGAAATCTACCTGGCTCCAAATC	44073
10448	GTGGGACACAGACAGCATCCTT	22106	CGTCTCCCAAAACGTCTCTATC	33090	GCAGTGTGTGGTGGAACAGAGA	44074
10449	CCAGGTCTCTACCTTCTCTCTGT	22107	GGACAGCCACAGAAGCTCAACT	33091	TTGCCCTCCAGGTCTCTACCTT	44075
10450	GAGGCGAATAAGGTAGGCTGGTT	22108	CCTGCATCCTGCCGCTCTTTTA	33092	GCAGATAGTGGACAATGAGGCGAAT	44076
10451	GCACACCAAATCCACCTCTCTTC	22109	GGGGAGAATTGTCTCAGAGATG	33093	GTCTCCCACTTGACACCAA	44077
10452	TGGCCAGTGGGAGTCAGTACAT	22110	GGCAGGTGGCAGTTGGAAGTA	33094	GTTGCAGCATGGGGCTAGT	44078
10453	TGAGTAACTGAGATGGTGCAACTTAC	22111	CCCTGCTTATAAGACCAAGAGGACTTC	33095	GGGGTTTGACTTGAGTAACTGAGAT	44079
10454	GGAAGTGGTTTCTATCTCACCTGTCT	22112	CCCAGGGGACCAGCATATAACA	33096	GGGTGTTCCCTAAGGAAGTGGTTTC	44080
10455	GACGAGAAGTCTGTGGGTTT	22113	GCATTCAGCCTCCCTTTTGAATAGTA	33097	CAGCTTGGCAAGAGCAGAGAAG	44081
10456	CTGGGATAGTGGCTTCTGAGCAA	22114	TCTCGGAAATTTCAAGGCACAA	33098	CACCTCTTCTTGTATCCCTGGGATAG	44082
10457	CCACTTCCCACTCCAGTTACCAT	22115	CAGAAGGGTGCAGAGATACAAGT	33099	CCTTCAGTCCAGCTGACCCTTC	44083
10458	GTGAGCCTTGGTTTCACTCACACT	22116	AAGTGTGGCAAGATCTCAGTT	33100	GCACACAGTAGGCCTTGGTTTC	44084
10459	GCGGAGATGACAAACCTGTCT	22117	TCAGGGGCTAGGTGTTGAACT	33101	TGGCCTTGGGAGATGACAA	44085
10460	TGCTTAATTGAGTGTGTGTGATT	22118	AGCAATGTCCTCCCTATCCTT	33102	GGGAGACAGACTTACATGCTTAATTG	44086
10461	CCCAGTTGAAGTAGGAAGCAGCAT	22119	AAGATGAGGTGCTGTCTCATGT	33103	GCCAGGCACCCAGTTGAAGTA	44087
10462	CTCCAAACACTCATATGGACTGA	22120	GAAATGTGAGGGCTGTCCCTAAAC	33104	GGCCGCTCCCAACAACTCA	44088

10463	GGGTATGGAGATAGGGGTCA	22121	GGAATCCACAGCTTTCTCT	33105	GGAAAGCCCTGGGTATGGAGATA	44089
10464	CCTGTCATTCTGCATTGCACTTG	22122	TTCTCCTGCCGACCTGTCTAC	33106	TCCGGTCTCCTGTGCCATT	44090
10465	CCCTTATTGCCATTGGACTCAAGA	22123	GCTACTATATCATCCCTGACCTTGCA	33107	GAGATGACTATTGTTCCCTTATTGCCATT	44091
10466	TGGCAGTAGGCAGGAGTG	22124	CTCTCCCTTAGGCAGTGATTCTTC	33108	TGACCCCTTGTGGGTGGCAGTA	44092
10467	TCACCCCTGATAAGAGAGGGAAATG	22125	GGGAGGGAGAAAGGAGGAGAAAC	33109	GGCTCTGAGAATGACTTTCACCCCTGAT	44093
10468	AGGAAAGTGTCTTGCAAGGATTG	22126	CTGTAAAGAGTACAGTGGTCTCTGA	33110	GCCCATGTAGCTTTAGGAAAGGT	44094
10469	TGATGCCACAGGGAGACACT	22127	CACCCCTACTCTTCCCTCTGCTT	33111	ACATTCAACAGCTTGTATGCTTACA	44095
10470	GCCAAAGCCACTTTCTCCAGTGT	22128	CTAGGAGAGAGTTCTAGGGTGGTT	33112	GGAGGTTGTGCCAAAGCCACTT	44096
10471	GCACGGGACTCAGAATAGCCAAA	22129	GGGACATGTGACTCCTCCAAC	33113	GAAACGACACGGGACTCAGA	44097
10472	CTGATTGCCGTGCTAGTTGTGT	22130	GTGAACCTCAGCTCTCTAAAGATCTAA	33114	CTGGGCAGTCCATGACTGATTG	44098
10473	GTCAGTCGACAGTCCAGTCAAC	22131	CCCTTCTCTCAGCTCCATTG	33115	GGTCCCAAGATGTGAGTCGACGTT	44099
10474	CGGGACTTGAGTCAGGTTGTGA	22132	GGTAAAGTCAGGATTTACACCCAAGTT	33116	GAGACAGACATGACGGGACTTGA	44100
10475	CTCAGGACTTCTGCACATTCACA	22133	CTGCCAGAGGGATACCCATGTA	33117	CAGAGCTCAAAGCTCAGGACTTC	44101
10476	GAACCAAGGAGTGACACAATCTGA	22134	TGCAACCTAGCAGTGAGAATGA	33118	CCCTGGGAGGGTTTGAACCAA	44102
10477	GGCATGGATATGGCAGACAATAAGAAAC	22135	TGACATGTTATGGCTCATGTCTCAA	33119	GAAAGGCATGGATATGGCAGACA	44103
10478	GAGGTTACAGGGGTTGGGTAT	22136	TTCCAGCCCTGTCCCTTAGTAG	33120	CAGACGTAGAGCTTGAGGTTTACA	44104
10479	CAATGAGGTTGTCTTAGCCCTTGT	22137	ACACCCACTCTGGGCATGT	33121	GCTACAGGATACAATGAGGTTGTCT	44105
10480	AGCAGATGTGCTGCCACATAG	22138	TGCTCTCCACCCTGCCAAA	33122	CCCAGGAATGCTTCCAGCTTAG	44106
10481	GCCAGGAACGATGTGTTAAATGCTT	22139	CTGAGCCTCAAGTCTCTATTTC	33123	ATGTGCCAGGAACGATGTGT	44107
10482	ACCTTCCACCCAGTCACTCA	22140	TTGAGAAAGAGGGAAGAGTCTAGGAT	33124	TTGGTGAACAGTGCCACCTT	44108
10483	GCCTCAACCCAGTTAGGCCAAT	22141	AGAGGCACACTTGAAGAAAGACTGA	33125	TGGATCTGTGCTGCCTCAAC	44109
10484	GGAGGCTGCTTTTGCTGT	22142	CACCCACACACTTCTACCTTGA	33126	TCCAGAGATGGAGGCTGCTT	44110
10485	CCAGTGTAGCTCTGTGAGTAGT	22143	TACTGTGGCGGTGAGGATGT	33127	TCCCTGTGTCTTCCAGTGTAG	44111
10486	ACTGGTCTTGTCCAGCTTCTTC	22144	GTGAGCAAGGTATAGGAGATGAAAGA	33128	CCCATTGTGTGACTGGTCTTG	44112
10487	TGGTGTGTGACTGGGCGCTTA	22145	TGCACTCCTTCTCCTATCTCCTATTA	33129	ACTTCATGGAGAAGATGGTGTGTA	44113
10488	AGGCCAGATGTCTGCCAATG	22146	GGGCAATAGCCCCAAGGTATATTTTC	33130	GCCAAAGCAAGGCCAGATGT	44114
10489	GCCAAAGGAACCAATACTGATAACAGAAG	22147	TCATTTAGCAAAACATGCCTAAG	33131	GGGCCAAGGAACCAATACTGA	44115
10490	CTGGCAACTGACCCAACCTATTG	22148	GACCAGCATATAAGAGGTCATGAAT	33132	AGGCTGTCTCTGGCAACTGA	44116
10491	GTGACCTTTGGCTCTACCACTAAC	22149	CTGGAACATTAAGCAGCTCACCTA	33133	GTCCCCAGGAATGTGACCTTTG	44117
10492	CACAGTGCCTGTCTATCTCTCGAT	22150	AGGGGTCTGGGAGGGAGATAA	33134	CCTCAGAATTTACAGTGCCCTGTC	44118
10493	CCAGAAATTTGCCAGAAGCTCTCA	22151	GGGTGAGGGGAAGGTCACTAAT	33135	TGGACCTGCTAAGCTCCAGAA	44119
10494	CCACCCAGATCTCAGTACTTC	22152	TCTCTTTATCTCAGGCCATGTAGTCA	33136	CGCTCCTTTCCACCCAGAT	44120
10495	CTCAACTGACCCCAATGCTT	22153	GGTTACCAAGGGCAGTTTGAGAGT	33137	TTTCCCTTTGATGGCTCCAAC	44121
10496	AGGGCAACTCGGCGGAAAG	22154	CGGATATTCCTCTCTTTATTGGTT	33138	GGAGGGAGGTAGAAGGGCAACT	44122
10497	GGAGGCGCTTACAGTACCTCTT	22155	AGGGCCACATGCTCTTCTGT	33139	AGCACCTGGAGGCGCTTA	44123
10498	GGGTGCTTCTCAACCCCTAGTTC	22156	TGGCTGGCAATTCTGATGCAA	33140	TGCCGTGGCTGCTTCTCAA	44124
10499	GACTGGATACTAGCTGTGCTTCTT	22157	TGAGGCGCAGAACTCTCAATG	33141	GCTTACACTCTTTCAGACTGGATACT	44125
10500	CCTTCTGAACGTCCACCTGAA	22158	GTGAAAGCTATGCCCTGGAGAACA	33142	TGGCACCTACACCTTCTGAAAC	44126
10501	GGCTCCATAATTTGGTCCCCTTCA	22159	CACAGAGTAGGTGCTCGTGAAGTT	33143	GGCACCAAGGCCCTCCATAAT	44127
10502	CCTACCCAGACTATGATGATTGAGT	22160	GAGATGCATATTACAGGAGCAGTAAAC	33144	TCTCCTCTCCTACCCAGACT	44128
10503	GAAGTGCTTGATCTCAGAGTTTAGTGA	22161	CTATGAACTTGAGTGGGAGAGACATT	33145	ATCATGGAAGGAAGTGTGATCT	44129
10504	CAGACACCTCAAGCTCAGTCA	22162	GCAGTTTGTGCTTGGCCAGCTA	33146	ACTCCACCAAGGCACAGACA	44130
10505	GTGGGGTATCACAGCAATCCTACT	22163	AACAACACAGGGGCTTTGTTTC	33147	TCTCTGACACAGTGGGGTATCA	44131
10506	TGACACTGGAGTGACAGGACAA	22164	GACTTCAGTCTGCCATTGGTGAT	33148	CCCACATTAGCAGAGACCACTGA	44132
10507	AGTGACCTTGCGGGAGTCT	22165	CATCACACTCTGGGTACACTTTGATT	33149	GGTGAGAGAGCAGCAAGTGACCTT	44133
10508	TTCTGGGTTCATTCTGGGTCTATG	22166	AGCCTCAGCCGAGCCCAAGT	33150	AGGGAAACTGCACTTCTGGGTTTAT	44134
10509	CCCACCTTTACTTGGAGGTCAGA	22167	GACCCAGAAAAGGGAGGGACTTA	33151	TGCCCCCTTCCACCTTTACTT	44135
10510	AAGGGCTGTGGGCACCTAAG	22168	CTTTTGCACTACCTAGGCACATA	33152	GGTAGGTCAGGCAGCAATCAAG	44136
10511	GTTCTGTATTGCAAGGCTATCATC	22169	GACACAGGTAGTCCGACGTCTAAG	33153	CCTTCCACTTACAGCTTAGTTCCTGTA	44137
10512	CCCTGTAAACCCACCTGTCT	22170	TGTCTCACACTATGCCAGTA	33154	TCCCGTACACCTCCCTGCTAA	44138
10513	ACCCAGGGTCCAGTCTAACA	22171	GTATAGAAAGGGTAGAGACTGTGGATAAC	33155	TGGCTGTACCCAGGCATGGAA	44139
10514	TCCTCCATGGCAGCAGTGTT	22172	GGTGGGGCTCTTCTTAACAA	33156	CAGTGTGTCCAGCCACTAAGTTC	44140
10515	CTCTCCTGAAAGGAATCATGCAAAC	22173	GCCCACTGAAGAGCATCGTA	33157	GGCCACTTGACCTCTCTGAAA	44141
10516	GTGAGCATGAAGTGAAGTGGGGATT	22174	CCCCTCACTCCATACAGCACAGA	33158	GGGGAAAGGTAAGAGTGAGCATGAA	44142
10517	GCATCCAATCACCTATCTGAGAA	22175	GCTGTACATAGGGATGTGAGTGAAAG	33159	TGCTGGGCCACTGTTGCAT	44143
10518	TGACCTTGGTACTTCCCTGTGT	22176	CAGATCCCAAGAGGAGGGGAAAT	33160	GAGCCTCTGACTGACCTTGGTA	44144
10519	GTTGGGAAAAGAGTTGGAGTCAGA	22177	AGGCCAACTCCTCAGCTCAT	33161	GGGCAGTGTGAGGTAAAGT	44145
10520	GGGAAATCGAGGAAAGGGAGCTT	22178	TGTTTTCTTCACTCCATGTCAA	33162	GTGGTGGTTAGGGAATCGAGGAA	44146
10521	GCAGGAGTGAGGAAATGGGGAAA	22179	CCTTGCAATTGGCCATTGGCTTT	33163	CCCATGAAGCAGGAGTGAGGAA	44147
10522	GTGAAGCAAGTTGGAGGTTGATGA	22180	CGTTTCTGACAGAGAAAGAGGTGCTA	33164	GGGGAAGGTGATGAAGCAAGTT	44148
10523	AGGCCCTGACTCTCATCTCAAC	22181	GAGAGAATCCAGGTAACAAACCAATG	33165	AAGCTCACCAAGGCTCAGCT	44149
10524	CCCTCCACCTGTACCTAGTGCTAA	22182	TCACAAAGTTTGGCCATCAGAAGA	33166	TCCTTCAACCCCTCACCTGTA	44150
10525	GCCTACAAGCATGGCAGATCT	22183	GGGTGAGTAGAAGGAACCGATGACA	33167	AGCCCTTACAGTGGCCTACAAAG	44151
10526	GTTCAAAATATGGCCAAGGCTTCT	22184	GCAGGGAAGGGAATCCAACAGT	33168	GTTTGGCAGTGCTGTTGTCA	44152
10527	GGTCAGTGGCGTGGGCTTA	22185	ACAGTCTGACCCCAATTTGTCTT	33169	TCAAGGGTGCCTGGTCAGT	44153

10528	CCACAGGTTGTAAGACAGGTCAA	22186	CCATTATTCCTGCAACGCTCTTT	33170	CGGTTACGCCACAGGTTGTAAG	44154
10529	GAGGTGTTGCTATCAGGTTGAGA	22187	GGGCCTTGCAATGGCTAATCTTG	33171	ACAAAGGATTGAGGTTGTCCTAT	44155
10530	CAAACGAGCTTTTGGTGATGGAT	22188	CAGACAACTTGTTCTGGGAAACAAAAG	33172	GCAGGATAAGGCTTTCAAACGAGCTT	44156
10531	TGCACTCGACAGTTTCATAGAGATG	22189	AGCGAGGACACCTGGTCAAA	33173	CCTTCAGATGCACTCGACAGTTC	44157
10532	CACCCGTACCCCTAACTACCCATAC	22190	CCTCTGCCAGTATAGGCAGTCTCT	33174	GCCAAAGCACCCGTACCCCTAA	44158
10533	GGAACCTTTCAAAGCAATAGCCTCTT	22191	TCCAGTAGGGCTCTGACCAACA	33175	GCACTGGTGGAACCTTTCAAAGCAAT	44159
10534	GTGTTCCAAAACCGATTGTAGTGA	22192	CTGCCCAATGGGTTAACAGAGAT	33176	AGGGCATGGAAGTGTCCAAA	44160
10535	GCTCCAAAGGGGCAACCA	22193	GTGTAATACGCAGTACCTACGTT	33177	CACATTCAGTGTCCACAAG	44161
10536	GTCTTCCCTTTTGTAGTGAACCCATT	22194	ACACGTAGAGTGCAAGGAATCAT	33178	GTCTCAATTCGTAACAGAGTCTTCCCTT	44162
10537	AGCTCGCCCAATCTTCTTGA	22195	CACAGCTGAACTACCAGAGAACTA	33179	GGAGCAAAAGCTCGCCACAA	44163
10538	GCGTAAAGTCAAGGAAACCCCTTAC	22196	CGTAGTAATCAGGTGCAGCCAAATAG	33180	ACTTCTGTGCGTAAAGTCAAGGAA	44164
10539	CGGACCGAAAGGCAGCATAG	22197	GCAGTAGCCAGAGAGTGGTTACA	33181	GTGAACTGAGTCGGACCGAAAG	44165
10540	GCCCCAAAAGCTTGGAGGGTAA	22198	AGGGGTTCCACCACAGATG	33182	GTTAGGCTCCTTTGCCCCAAAA	44166
10541	GCAAGTTAGCTCACTGTACCTT	22199	GCCAGAGAGGGCTACATGCAGTAAT	33183	GACACCTTGGCTGATAGAAAAATGCAA	44167
10542	GCTGACCTTTGCCCTGTAA	22200	ACTACGTGAGTATGAGGCACAAG	33184	GGGGCAGAACATGCTGACCTT	44168
10543	GCAGCGATTGTGAGGAAAGAGT	22201	GAACCTCTTATGAGCTTGCCTTGT	33185	GAGGTGTTATTATGTTGCAGCGATTG	44169
10544	CCATGAAAGCCTGGCATCCTGTT	22202	GCAGACCAAGCGGCAAGAAG	33186	CTGCCTCAATCTCCCCATGAAAG	44170
10545	CTTGCTTAAAGGCTCCCTCATC	22203	CTTGTGATGGGAATGTTCTCTTTT	33187	GTCAGAGCACACCACTTGCTT	44171
10546	GACATCTGGAGTAGCAGGAGACA	22204	ACGTGAAGAGGGCCTGAGACT	33188	CAGCAGGTGACATCTGGAGTAG	44172
10547	GGTGGGAGAAATGTCATTGGTTTG	22205	ACCAGTCGTGAGGAGTCGAA	33189	CCCTTTGGTAGGTGCGGAGAAA	44173
10548	GAGACAACTCTCCCTTATGGAAGT	22206	TGCCCAAGTCCCTGCTTTC	33190	GGGATCAGAACCCATGAGAGCAAC	44174
10549	GCCCATGTGCCAAGGAGACA	22207	CGTTATAACCTGGGCTTCCACAA	33191	ACCTCACCTACAAACACACTTG	44175
10550	TTCAGGCTTCTCAATACCCCTATT	22208	ACAAGGAAAGTTACTTGGAGTCCTT	33192	CCCCAGTCTCAGGCTTCTCAAT	44176
10551	GCCAGGCCCTTAGGTTTTACTGATG	22209	GGGAAAGAAGGCACAGGTACA	33193	CCTCATAGTGCCAGGCCCTTAGGT	44177
10552	CCTCCTCGACAGAAAGCTGAACA	22210	CCAGGCAGGACATGATACACACA	33194	AGGCATCACCTCCTCGACAGA	44178
10553	CTGTCTCTGATCCCTGAGTAGT	22211	GAAAACTGCAGGCTGACAGAGA	33195	AGACTAGGCACTGTTCTCTGTA	44179
10554	GTGAAATATTGCCCATGCTAGGTT	22212	CGCGAGGAAACTTGCTTGTGTT	33196	AAGTAGTTGGCCACCTGTGAAA	44180
10555	CTCTCAGGCATAAAGTCAGAGTTCTT	22213	TTTCTAGGAGGAAAAATAGGCCATAA	33197	CCATATAAAGTCAGTCTCTCAGGCATA	44181
10556	TGGAGGGAAAGTGGTGTGTGT	22214	CTGTGAAGCAGTCAGGGCAAA	33198	CTGTGGTGAGTTGGAGGGAAAGT	44182
10557	CCAGCCCAATAGCGGTAGCTT	22215	GGCCTGATGCAAGGATGTAAACACA	33199	CTCAAAGTGAACCAAGCCAAATAG	44183
10558	GGTCTCTGTTGGACCTCCAATATCT	22216	CCCCATGTAGGAGGACTGAGGAT	33200	AGCCACAGGCTGGTCTCTGTT	44184
10559	GCTGTGAGGTTGGTTAGAATCATTTGT	22217	CACATGATCACCTCTCTTTCAA	33201	GGTTGAAGCTGTGAGGTTGGTTAG	44185
10560	GGTTGGAGTAGCTTGTCCAGTCTT	22218	CACTGAAGGAGAGGCAAGACAGAAAT	33202	AAAAATGTACCTGGTTGGAGTAGCTT	44186
10561	GCCTCAGCATCTTGGGCTTTT	22219	GATTAGGAAGGGCTTGGCATTG	33203	GTCTTCCAGAAGCCTCAGCAT	44187
10562	GGTGTCTAAGAATGACTAAGGTCTGA	22220	CATGTTAAGGCAGCAAAAGGTAA	33204	GCCTGATAGGTGCTCAAGAATGACT	44188
10563	GTGAGAGTAAGGAAGTCTTTACAAC	22221	GTGGTAGGACTCTTGAAGTTTTG	33205	CATTCTAGGCATGTGAGAGTAAGGAA	44189
10564	TGCTCTCTCAAAGCTCCCAAC	22222	CACAGGAGAGTCTGGGTTGACT	33206	GCCAGATCATATGCTCTCTCAAG	44190
10565	CTGCATTTTTCCAGAAGCCCACTAT	22223	GGCCAGAAGTGGGCCGAAA	33207	GCTGACCACAGACAATTACTGCATT	44191
10566	CTGGGGCTGTAACCTCATCTGTTT	22224	GGATGGGTACAGTTGGAGAACAA	33208	TGCTGTACTCTGGGGCTGTA	44192
10567	CCCCTTCAGGATAGAAAGGACCTAAG	22225	AGACCAACTGGCTACCTGATGT	33209	TGCTGTCCCCCTCAGGATAGAA	44193
10568	CAAGGGCCTACCTACATCCGTTT	22226	GGCTAAGAGGAGCAGTGACCAT	33210	CACCTAGTTTCAAGGGCCTACCTA	44194
10569	GCACAGAGCATCCTGGCATA	22227	GGTGCTCAGGGGAGTGAGAAAA	33211	TACCACAGCTGATGCTGACACAGA	44195
10570	TGGCATTGAGACACTTCTGGAT	22228	GAGAAATGTAACAGGGGAAATAGGAA	33212	AGCCATTATTCTGGCATTGAGACA	44196
10571	GGGAGACCAATCTTTGTAATAGACACAT	22229	ACTTCAAAGTGATGACGCTTGCTA	33213	GCCAGGGAGACCAATCTTTGT	44197
10572	CACCAATGACTTTGACTGTGGGAGAA	22230	GCTGGGCTAGATTAGCCATCAAC	33214	GCCAGCCATCACCAATGACTT	44198
10573	CAGTGGTGCTACTTTCAAGTGCT	22231	TGGCAGTCCAGCGAATC	33215	CGCTGTGACGGTGTCTACTT	44199
10574	GCCAACCTGTAAAAAATTGTGT	22232	CTCCTCAACTCCTCACTAGGAACCT	33216	GGAGAGAATTAGCCAACCTGTAA	44200
10575	ATGGCTCCAGCAGGGGAAA	22233	GGGAAGGGCAGCAGACATCTTT	33217	ACCAAGCCATCCAGCCTCCAT	44201
10576	ACCCAGCACCTAGGGTTCCAA	22234	GGCCTGTGATTATGTCAGAAGGGTTT	33218	TCCAATGCCACCCAGCACCTA	44202
10577	GCCACCTTGGCTCATTATGACT	22235	GGGAATACAAATGGAGTCAGTGAAAG	33219	GTGTGACCATTTTTGCCACCTT	44203
10578	CCACAGGCTGTCTAACTCCTCTT	22236	GAGGAAGAGACCTTGTCTGTTCAAGTA	33220	CTTCTCCACAGGCTGTCTTA	44204
10579	GTGGTGGAAGTTCTATACCGGAGAA	22237	GCCACCTGGCAGAGAGATGAAA	33221	CTGCCCTTTGTGGTGGAAGT	44205
10580	CCAATCAGGGGAATGGCAGAAAG	22238	GGAGGCAAGTTAAAAACGTGACTAGGAA	33222	CCACAGGCCCTAGCTCCAATCA	44206
10581	TCGCCCCAGTTTGTGCTTAAG	22239	GCTAGGCTGCTATTGCAAGTGTTC	33223	CCATTCTATCGCCCCAGTTT	44207
10582	GAGGCTACTTTCATAGGCCTAAT	22240	CCCCATTGACCCCTCTTTTTCAGA	33224	ACTTAGCAAGCTATGAGGCTACTTC	44208
10583	GCATGATTTCAGAACCGCTAGAGCAT	22241	TGTGGCTCTGCTGCACAAAC	33225	CCAGGAACCTATGTCATGTAGAGAA	44209
10584	GCGCGTGTGTGGTCAATGT	22242	TGGGAGGAGGCGCGAGACTA	33226	ACGTCTGGCGGTGTTGT	44210
10585	CACCTTTCAACTTCACCTCTCCGTTA	22243	ACCCACAAGCCTCAACCATTTT	33227	GCCAGTCACACCTTTCAACTTC	44211
10586	GGTGACATTTTCCCTTGCACTTG	22244	GGCACACCTGTGTTCTGTTGA	33228	GGCCAAGATGAGAAAGTAGGTGGACAT	44212
10587	CCCCTTGGATGCCAGAACA	22245	GCCACAACCTCCTGTTTGAGAGA	33229	TGACATTCTAACCTATTTCCCACTTG	44213
10588	GGGTGCAAGGAAGCAAAAAGGAAGA	22246	GTTTCTGCTTGGACTTGACTGA	33230	CAGAAATGGGTGCAAGGAAGCAA	44214
10589	GAGAATGACAAGGCATTAGCTAGGAT	22247	GACACTATTAACCAACCCGTTCTT	33231	CCAGAAAAATGTGAGCCATGAAGA	44215
10590	GGCCATTAAAGGAATGACGTGGAT	22248	CCATCCCATCCGTCCAATACGTTAG	33232	CCCAAGGTGGCCATTAAAGGAA	44216
10591	GCTCCTCTGAACATAACAACCTT	22249	GGAGCAGCTAGAAGCTGAACAA	33233	GACCACCATATTGCTCCTCTGAAC	44217
10592	CTTCTGTGGGCTGTGATAGT	22250	CCCCTTCTTAAGGTAGAGGAGTCT	33234	GGTACCTTGGCAGTACTTCTGT	44218

10593	CAACCGTCTTCCACAAGTCTGA	22251	GGGTTTCAGAAAGTTAGAGCCATTCA	33235	ATTCTCCATGTGTCAACCGTCTT	44219
10594	AGGTACTCAGGGCTCAAGAGGAA	22252	GGAAATGGATCATCAGCAGAAGCAA	33236	CAGGGATAACTGCTCATGTAAGGTACT	44220
10595	GAAATGGTTAGGCTTCTCTGCTT	22253	ACAGCATTGGCCTTATTTCCAAAAG	33237	CGGACCAATGACAGAAATGGTTAG	44221
10596	GGGGAGTGAGGGAGGAGCTTA	22254	GGCTCTCTGCGCATCAGAAAGAA	33238	GGACGGCTGGGTTTCCTTT	44222
10597	GGGAATGGCATGTGATTTGTT	22255	GCATGGTCTGTCTAGGGAGGAA	33239	TGGTCAATGGGAATGGCATGT	44223
10598	GTACAGCCTCTCAAGGTTCACT	22256	GGAGCAGGACCTATTATTAGTCTTCGATT	33240	CCTGAAACTAGTCACAGCCTCTCA	44224
10599	CAGTGTGAGCTTCTCCGTGGAT	22257	CAGGACATTCTCTCTCTCAGACA	33241	GGTAATGGACAGTGTGAGCTTCT	44225
10600	GCCACCAATGGTGAATGCTAA	22258	CACCACATCAAGGCTCTACCAT	33242	ACTTCTCCAGCCACCAATG	44226
10601	GAGGTGAAGGCAGACATGTGGAA	22259	GGGCAGGAGGCATTCACTCACT	33243	TCCAGATAGCCCAAGAGGTTGAA	44227
10602	TGGGGTCAAAATACAACAAGAGACA	22260	CCTGGTAGTCTTAAACAGGAATCTCTCA	33244	GCCATAGACAGTTGGGGTCAA	44228
10603	GGCTTGGAGCATGGCAGGAAAT	22261	GGAGCTGCTGTGTGGAGTT	33245	GCTTATGGGTGGCTTGGAGCAT	44229
10604	CTGCTCTTGACATTGCAGACACT	22262	CTCAGCGAAGTTTAAAGCACATCATTC	33246	CCAATCCCCTGCTCTTGACAT	44230
10605	CCTTAGCTGCAAGAGAGCCTGTTA	22263	GAACCTCTCTTCCAGAGATTGAAA	33247	GTCCATGCCTTAGCTGCAAGA	44231
10606	CTTTGTAGAGGTGGCAGGAACA	22264	CTTCTCTAGCACCATGGTAGAGAT	33248	GGTAGGGGACATGGACTTTGTAG	44232
10607	CACCCTCGTTACTGGGATACTGA	22265	GGAAACCAAAGCTCTCAGTAAGTT	33249	TTCTGGCCACACCTCGCTTA	44233
10608	GGTAGGCCAGTAATTTGGTACTTG	22266	GCTTTATGAGGGTAGGGCTTTTCA	33250	TGTGCTAGGTAGGCCAGTAA	44234
10609	CAGTACCCTTTTATAGGCAGCAACTT	22267	AGTCCACATCTCCCTGAAGACA	33251	GGGGAGGTTTTATCAGTACCCTTTTA	44235
10610	GTTCCCAAATCTGCAACCCAAAG	22268	AGGGTGGGAGAAAGATAAATGCAA	33252	GGAAAGACACAGTGGTTCCTCAATC	44236
10611	GTTGCCTCACACACTAGACCTTTG	22269	TGCAGACCATCACACATCTCAAC	33253	GTCTTTTAAACAGTTGCCTCACACA	44237
10612	TCCATCAGGGAAGAACCACTTATG	22270	CAGACACTAAGCCAAGCTCTGAAG	33254	CTGTGAGTTCATCAGGGAAGAA	44238
10613	CCTGTGATTGGGGCAATGCTT	22271	CAAGAGCCCCAAGTAATGTGTGT	33255	GGATGATGGGGAGAGTCTGTGATT	44239
10614	GACAGGATTCATAGGGTCTTGTTT	22272	CCCCACCTTAAAGGCACAGAGTAG	33256	GGTCTCTTGAAGACAGGATTCCAT	44240
10615	CAGAGAGCAAGTGCACAGATCAT	22273	GGTGGGGAGAGGCAGGATTG	33257	GCCTGACACAGACAGAGAGCAA	44241
10616	TCTGCATGTCCAACACTGAACT	22274	AAATGTGTGTTTGCCTGTGGAA	33258	TGTACTTCAAACCTGTCATGTCCAA	44242
10617	GCAGTGGCAATGTGGCAAGA	22275	GGCCTAAACGCTGCTACCTAT	33259	CTGGAGCTAGAGCAGTGGCAAT	44243
10618	GCTCTCCACAAGAAGATGGCAGTT	22276	GGAAACCGGCATTGGACACA	33260	GCTGGGTGCTCTCCACAAGAA	44244
10619	ACTTTGGGTCTCTGGTCTCTGTA	22277	GTGACTGTGGCTTCAGAGTGATG	33261	GCCCTACAGAAAACTTTGGGTCTCT	44245
10620	GGCTCCCAATGCAAAAGACCTTCA	22278	GAGCACAAAAGGTAGGAGTGAGAA	33262	GCCATCTTGGCTCCCAATGCAA	44246
10621	GGGTGCAGGAACATTACCTGGAGTA	22279	TCATAACGTGGAGGAGAACTGTTG	33263	CCTCACTAAAGTTTGGGTGCAGGAA	44247
10622	GCAAGGGGTATATTGAGTTTCAGTGACTA	22280	GCCTAAAACCTTTCATGGGGTGTTC	33264	TTCCATGCAAAAGCAAGGGGTAT	44248
10623	CCAGGGGCATTGATGGGTTT	22281	ACAGACCTCAAGCTCGCTCAGA	33265	GCAAGGGAATCCAGGGGCATT	44249
10624	CAGCAAAACCAATGCAGTGTGA	22282	AGCCTGGGGCCTTGTCTGA	33266	ACCCTGATGAGCCAGCAAA	44250
10625	AGATCTTAGGATCAAGGGGAACACTA	22283	CACTGGAACATGACCTGTGAGA	33267	AGGAAGCAAAGAGATCTTAGGATCAAG	44251
10626	GGCCAGCTCTCACTATCTAAGTACAGA	22284	GACGTTTAGGTTTCCATGGCCAAA	33268	AACAGGCCAGTCTCACTATCT	44252
10627	TGGAAGCAGGCTGGATCACT	22285	TCCAGGAGAGGAAGGCCAAT	33269	CCCGAGGGAAAAACAAGAGCTGGAA	44253
10628	AGCAGGAAATGGGCCTGAAG	22286	CTCCTTAGGGTGGCATAACAAAC	33270	GGCAGGTTAGGTATTAGCAGGAAATG	44254
10629	GGCCTCATTTACTTTTGTGCTTT	22287	CAGAGAAGGAATCCCTGCTATCAAA	33271	GGCTGCTGGCTCATTTACT	44255
10630	CTGTAGAAGACGGACCTCAACAATCA	22288	GGTTTGAGAGGCACCTAGAATCACT	33272	GTCTTGACAGACTAGCCTTCTGTAG	44256
10631	GGGTGACTGCCAAGTCCAGAAA	22289	GTGTGAAAGCCAGGTGAGCAT	33273	TGTCAGAAGGAAGGGGTGACT	44257
10632	AGGTGCAAGGTATGCACTGATT	22290	GGACCACAATCTTCATGAGAGCAA	33274	GTGCTGTGCTAGGTGCAAGGTA	44258
10633	ACGGCCTTGAACCAACCAATCA	22291	CTCATTAGATGCCTTCGCTTTTCAGT	33275	ACAAGGTTTATGTAACGGCCTTGAA	44259
10634	CCATGAGGACACAAATCAGTCTCAA	22292	GTATTGGCCGTAGGTTTATTGACTTC	33276	GGGAAAATCTATGCCATTGAGGACACA	44260
10635	GCCCATATCGGTGAGGATGGAT	22293	CCAGATAGTGGCCAGATTGCTT	33277	TGAGACACAGGGAGGCCATATC	44261
10636	GCCAAGTTCTCTGTGTAACAAAGTT	22294	AGTAGGCAGCAACAGTTGTCAT	33278	GGGATTGGGATTGTTGCCAAGTTC	44262
10637	GGTGGTGGCTACTACCAAAATGT	22295	TCTCCAGCACTGGCTCAGAT	33279	GACTAGCATATGGTGGTGCTACT	44263
10638	CAGAAACAGCCACCTAGCTGGTAA	22296	ATGTCAAGACAGCCTAGGTTCAAA	33280	GGTGGGGTACCTAGATTGAGAAACA	44264
10639	CCCAGGACATCTCTTCACTGCTT	22297	TGGAGGAGCTGCTTCTAGCTT	33281	CCACAAACTCCCAGGACATCTCT	44265
10640	ACGAGCCACGACGGCTCTGA	22298	CGTGACCGGCCAACACTGA	33282	TACCACCGCCGAGAATGGAA	44266
10641	GTCAGCAGGTAAACAGCAGACT	22299	TGCTGTGGTGGGTCCCAT	33283	AGGGTCCCAGTCAAGCAGGTAA	44267
10642	CCACAAATAGGCAGTTTACAGCATGAA	22300	GTGAAATCCCTGAAGTGTGCTT	33284	GCCATGGCCACAAATAGGCGAGTT	44268
10643	GGGCTTTGACAGTCAGCAGAT	22301	AGGGTAAATGGGAGTGCTTCTCT	33285	GGGCAGAGGGGCTTTGACA	44269
10644	GGTGCTGCCTTTAGGGGAGTTT	22302	GCAGCTGGTCAGGAGATAAAGT	33286	CAGATGAGGGTGCTGCCTTT	44270
10645	CCAGCATCTGTGAGAAAACCTCGTT	22303	CGCTGGCTCCAGAAGGGTTT	33287	GGACTCCTTCCAGCATCTGTGAGA	44271
10646	GAGTGGCCAGCTGCATAAAAG	22304	TGGGTCTCTTGAAGACAGAAGATG	33288	TGCCCACTTTAAAGGCATAGAGT	44272
10647	GCACAGTTTGCAAGCCACTTC	22305	CTCTGAGAAGACGTGTCTCATTTCCAA	33289	CTGGTTTGGGGAAGCACAGT	44273
10648	CGTGTTTCTGGGATGAGTTAGTCTGT	22306	CCCTCTTCAGCTAGGACACA	33290	CCTGCTCGTGTCTTCTGGGATGA	44274
10649	GGGACATTGGTAGAGCAAAGAGT	22307	ATCGGCCCTCTCACCTTTCA	33291	GGGAGAACAGGGTAGGGACATTG	44275
10650	GCAGCGAGAGCTTAGCACATCT	22308	CCCAGGCCCATGACTACTCCTT	33292	TGGCTGGCAGCGAGAGCTT	44276
10651	GTTTGGGTCAAGTGGCAAGAGA	22309	CCTTAAGGATTCAGCCCTCTTCTAAA	33293	CTGAGGCAGAAAGTTTGGGTCACT	44277
10652	GACAGAGGAAACCGGGGAAACT	22310	CCCTCCCTTCCCTCTAAATAGACTT	33294	TGTCCAGTTTGTGACAGAGGAAAC	44278
10653	GTGGAGGGGATGATGGAGTTTCA	22311	GTCCAGGAAGCTGGAGCCTAGAA	33295	GGGGAATGTGGAGGGGATGA	44279
10654	GGGCAGAAGATTAGGGAGGTCTT	22312	GGCTCTGCTTTTGGAAACAGGTTGA	33296	GACAGTTGCTTAGGGCAGAAGATT	44280
10655	TGGGCTTGGATCTATGGGAAA	22313	GGGGCTTTGTAACACAAAGTCA	33297	CCCCAGATAACTATGGGCTTGGAT	44281
10656	CATTCAAGACTTGGTTTTTCGTACA	22314	CCTTGGCTTGGCATTTGGTT	33298	CAAGGAAAACATTTCAGGACTTGGTT	44282
10657	CACAGGGGTCTAGGCAAACTCTCA	22315	CAGAGGACACTGACAATCAAGTCA	33299	CAACGGAAACACAGGGGTCTA	44283

10658	CCTGTTCTTCCACTCCTTTTCA	22316	CCTGACCAGGGTACAGTCACTAAG	33300	GAGTTTCAAGGCTTAACCTGTTCCTT	44284
10659	CCACAAAGCTCCCTTACCATGT	22317	CAGCAACCAAGCCAATCCTGAA	33301	GGGTGAGTTGAAATGCCACAAA	44285
10660	CAAAGGCTGTTTCAGAACTGATCTCT	22318	GGGTAAGGTGGGAGAGAAGAGAGTTTC	33302	TCCCATTAACAAGGCTGTTTCAGA	44286
10661	GCCCTACCCAGTGAGGAGTAGTAG	22319	TGTAAGAGTGGCCAGTCTGTTCT	33303	AGAGGGCCCTACCCAGTGA	44287
10662	ATCCAGAAGGCAGCAAGCAA	22320	AGGCAGAGCAGTCCACAA	33304	TGCGGGCCAAGAATCCAGAA	44288
10663	CCTGCTGTAGACATTCAACAACAA	22321	GGTGCTTGAAGTGGGCTTTTC	33305	GGACTCTACAAGATCCTGCTGTAGACAT	44289
10664	CACGGGAAGTCAAATCAATTACGAT	22322	GGCCAGTTTCGTACCAAGGAA	33306	GGAGAAGATTTACGGGAAGTCAAA	44290
10665	GGTTTTGACCTCCCGAATATTAGGAAA	22323	CACCTCAGCCTCCTGCATAG	33307	CTTGGTTTTGACCTCCCGAAT	44291
10666	GGCTTTTTGGGTGTCAAGAACACACT	22324	AGTAGTCCCAACACAGCAGAGA	33308	GAGTTGAGGCTTTTGGGTGTCA	44292
10667	TGCACGTAGTTGCTAAGAGAGTTATG	22325	CCTCTTCTCATCCTGGTTAATTTGGAAGT	33309	GTGATTGGTTGCACGTAGTTGCTAAG	44293
10668	GACTGATTATGAGGCAACGTGTGT	22326	AGACGAAGGCTCAATGTAGACAAAG	33310	ACCAATGTTCCCTTCTGACTGAT	44294
10669	TGGCCATCTTGGGCGTAGAA	22327	CGTCTGTACAGTTAACCGGCAA	33311	GCTTCCGGCTGGCCATCTT	44295
10670	CCGGAGCACAAAGCAAGTGAA	22328	TCCACCTGCGGCCAAAT	33312	CTGTTCAACAACCGGAGCACAA	44296
10671	ACACACCAACAGGCACAGAAG	22329	TGCTGGGCCATGTGCTT	33313	CACACCATCGTATTACACACCAACA	44297
10672	CGCTTCATCAACCTCAATGGTAAG	22330	TGCTGGGTGCCAGGACATC	33314	GGAGAGTGCATTGCTTCATC	44298
10673	GTCTTAGGAGGAAAGTGTCCAGGTTT	22331	CTGCAGAAGACCTCAGGTAACATC	33315	GCCTGTTCCAGTCTTAGGAGGAA	44299
10674	CCATCAGTGGAGCTTTCAGTTCTTC	22332	GCCCTGTGGCATGTTCATTT	33316	ACCCTCCATCAGTGGAGCTTT	44300
10675	GCACAGCATGGAAATGAGAGACA	22333	GTGAGAGGAAATCTTGGGCTATGA	33317	CTTTGGTTAATGCACAGCATGGAA	44301
10676	AGGCACTAAAAGCTGACCTAAAGT	22334	GGAGCAAGGCACAGTTTTCAGA	33318	TGCTGAGGTCAAGGCACTAAAAG	44302
10677	AGTGGCTCCAGTGTGGATGA	22335	GCCCTTAAGCCAACCTTACA	33319	GGGGAAGCCCCTGGA AAAA	44303
10678	GCTTGCTTGTAGCTTGGTGTT	22336	GCCAGCCACTGTGTGAAC	33320	CCTGCTGATTGCTTGCTTGATG	44304
10679	AGGGTAAGGGGAGAGAGGAGTCT	22337	TGTACCACCGGGCACATT	33321	CCACGGAGCTCAGAGGGTAAG	44305
10680	AGAGTCTTGTGTCGGGAGTT	22338	GCGGAGCAGATGTGATGCCAT	33322	GGCCAGTCAGCTAGAGTCTT	44306
10681	TGGAAGACAGGGGTGAAAAAG	22339	CAATCTACCCAAACCTGCTTCT	33323	AGAGGGTCACCCAGATTGGAA	44307
10682	TGTGCTGTAGAAAGGGTAAAG	22340	CCCGTACCCCAATGAGGAGCTAT	33324	AACAACACTGTGCTGCTAGA	44308
10683	CACCTCGTTTTGACAGACACA	22341	ACAGAAAGTGTGTGCTTCACTGATA	33325	CACACCTCCTGCATCTCGTTT	44309
10684	TGCAGCCATTTGAGGAGAGA	22342	CAGTGCAAGAACCTGAAGACTCA	33326	GCAGAGGTGATGCAGCCATT	44310
10685	CTGCTCTGTTGGCAGAGACAACT	22343	ACTGATCTCCCACTCAGGGTCAAG	33327	GCCCTCAACGATCTCGTCTGTT	44311
10686	GGGGAAGAGTAATCTATGGGAGCTAAC	22344	CGAGCCCTGCTGCTTACATTA	33328	GCCTGAGGAAGGGGAAGAGTAATCTATG	44312
10687	CCCTGACCATGTCCCTTTTGACA	22345	CCCGAGGCTCCTCGGTTATTA	33329	ACAGCTGACCCGTACCATGT	44313
10688	GCTGTAGGGTCAAAGAATGTGACT	22346	CCCAGAGGACCTCACCTCAT	33330	TGGAGAGCATGGGACTCCTTCA	44314
10689	GCAGCATGCAAGCCATTGTCA	22347	CACCTGAAATGTAGGCTGTAGT	33331	AGCCAGAACGACAGCATGCAA	44315
10690	TGGTGACTAAGATTAAGGGCAGTATCT	22348	GTTACAGCAAGGTGTGCTTCTGT	33332	CTGAGCCCACTTATGGTGACTAAGAT	44316
10691	CAACTTGCCAGTCTTCCACGTATC	22349	TGGAGGGCCAGTGGGATGT	33333	CCCACCTCAACTTGCCAGTCTT	44317
10692	CTGCTCTCTGCTATAGACCTAAC	22350	GCATCACAAGAGTCTCCCTTGT	33334	TCCTGCTGGTCTCTGCAT	44318
10693	GCCTGTGTACATCCCTGAGAAG	22351	GGACAGGGTGGATACTGTGTTGTAG	33335	CCACAGTGCCTGTGTACATC	44319
10694	TCCTCTTCACTCCCTGTCTAG	22352	CTAGCACAGATAAACCACACA	33336	GTTTTCCCAATTATCTCTCTTCACT	44320
10695	GGAGAAGGTCTCATTAAAGGGAGTAGA	22353	CCCTCCCAACCTGGACTGTTCT	33337	CCCAGGAGTTGGAGAAGGTCTCATT	44321
10696	GGAGGGATGATGGAGGTGGATT	22354	CCCTCCCGCAGGACTTAAATA	33338	TGCACGTCTGGAGGGATGAT	44322
10697	CAAGCCTTATTAGTCTTGGCATCA	22355	CAGACCCAAACCATATCACCTCTTTTC	33339	CCAACCTCACTCAAGCCTTATTCAGT	44323
10698	GTCAATAGCCAGGAAACATGGGTAA	22356	GGGTGAGTCTGTAGAGTCCGTTTC	33340	GGGAGTTTCTAATTGTCAATAGCCAGGAA	44324
10699	GCAACCTGCACCGGCTTTTG	22357	TAGCAGGGCCAGAGCAA	33341	GCCTCTGCGCTTACAGCAA	44325
10700	CTCCCTAGTTATTAAGGGTGAGGTATC	22358	CTGCAGACATTCTGTACTGTGAGA	33342	CTGCTGGTAAACCTCCCTAGT	44326
10701	GGGCTTGATCTCCACTCCAACATC	22359	AAGTGTGTTCTTATGTTCCAA	33343	TGGGAATAAAGATCTGGGCTTGT	44327
10702	TTGGGGCTGAGAATACCTCTCT	22360	GTGCCACAGAGGGGAGCATTTA	33344	CCGGGGCTTGGATTCTCTTGT	44328
10703	CCTGTGTAAGTGTGTTGCTGGGATA	22361	GATCAAGATTTTACAGGAAGGAGATG	33345	CTGAGCCTTTGATCTGTGTACTGT	44329
10704	GGGCACTAAGAAGGGCTCAGAGAT	22362	CTGTGAGCATCTAGGGTACGAT	33346	TCCCTGAGCTGGGCACTAA	44330
10705	CCTAGATCCAGCCTCTATCGAGTTC	22363	CACAATGGTCCCAGACAGAAGCAA	33347	CAGGCTAACTCAAGACACTCTAGA	44331
10706	TGCCACCAGGATATTGATTGAGATT	22364	GTGCCCATACTACCAAAGCAATAC	33348	CTGTGAAGAATGCCACCAGGATATT	44332
10707	CAGCCCTAAGGGTGGGATTTC	22365	TGGGCAGGGTACCCAGTGA	33349	CCCACATGACACAGCCCTAA	44333
10708	ACGCCAGGCCAGAAAAATATTACA	22366	CATTTTCCCTGGGCTACACTCT	33350	CATCAACGCCAGCCAGAAA	44334
10709	GACCCAAGTCGCGTCAATTCT	22367	GGTGGTGATGAATGATGGACATACT	33351	CTTTATATCCAACCCAGACCCAAAGT	44335
10710	GGGAGAGCTGGTCTATAAGAGGAACTTG	22368	TCTGAAGATTTTACGACAGGAAGAA	33352	GGGTGGGAGAGCTGGTCTATAA	44336
10711	TGCTCTGTAGCATTTGACAAACAT	22369	GAACCACAAACCTTTGGAATGGAA	33353	CCCTGCCTTGCTGTAGCATTT	44337
10712	GGTGGGTAAATCTGCCTATTTTACA	22370	GCTCTGTAGCAAACCTGTGCTGTT	33354	GAGTATTGTGACTAGGTGGGTAATCT	44338
10713	CCACCTAGTCAATGTCACTATCCTTTTC	22371	ACAGGGTAGGAGGCTGCTT	33355	TGCTACCAACCTAGTCAATGTCA	44339
10714	GCCTGTCTGCCAATTTGAACAT	22372	GGGGAAGGATGGAGGTATTAAGTGA	33356	CTGTGGGACCTTATGCTGTCT	44340
10715	CAGTAGGCCTGAAGAACCACTCT	22373	TCGAGAGGAAAGGGCTGTGT	33357	TGCCAACAGTAGGCCCTGAAG	44341
10716	CCAATGACAGGTCTGCTGTT	22374	AAGGCCAGGTACCTACAGA	33358	GGCTGAAGGGTTTCACTGACA	44342
10717	TGGGGACTCTGCAGGTCAA	22375	TGTGCCAGGCCTAACTGT	33359	CGCTGAAGCTTGGGGACTCT	44343
10718	TGGGTTGTCACTGCCAGGTA	22376	AGCCTCTCAGCTACCCGGAAT	33360	AGGCTCTGGCTTGTGACAT	44344
10719	GCCTCAAGGTCTCATTTGCATAGAAAG	22377	GTGTGGTGAGGACCATGGATT	33361	CTCTGCAGCCTCAAGGTCTCAT	44345
10720	GCTGCTGGTCCATTCTGAGTTG	22378	GGGAGGGCTTCCACAAAG	33362	TGTCACTGCTGCTGGTCCAT	44346
10721	GTGCAGAATCAAAGACAGTGAGAAAC	22379	CCCGTAGAGAAGTGTCTCACATC	33363	TGGGAACATGTGCAGAATCAAAGA	44347
10722	GCCCTGAGACCAAGCAATCA	22380	ACTCAAAATGTCAGCTAGATAGCAA	33364	GCAGCAAGTTAGCCCTGAGA	44348

10723	GTGGTATGCCTTCCTCCATACTAAACA	22381	GCAGCTACCAGATAGACTTAGCTGTA	33365	GTAGCAAGTGGTATGCCTTCCTT	44349
10724	GTGCCCTTCCTCCAGTTTCA	22382	GACAGAACCCCTTGATAACAATCAGACT	33366	CCAAGTCCAAGTGCCTTCCTT	44350
10725	CACACTAGAATAGGTAGGGTGCTCTT	22383	GTCCAGGCAGAGCCATACATC	33367	GGAAGCCTCCCACTAGAAATAGGTA	44351
10726	TGCTTCGGAGTAAGACCTCCAT	22384	TAGGGCCAAAGAGCTCCTGCAA	33368	GAGGACAAATACATCTGCTCGGAGTAA	44352
10727	GACATGTGGCCAGTTGGATCAGT	22385	GAAGCCATGCAGAAAACATTTCTTAC	33369	CCTCCCCAGCCTCTTTTGACAT	44353
10728	TGTTTCCCCTCCCAAGA	22386	CCTGCCCCGCTCCATATTIA	33370	GGTTTGCTGCTGCGCTTTGT	44354
10729	GCCAGATGCTATGTAGTGGCAAA	22387	GTGGAAATAGAAGCTCACTCTCAACT	33371	GCATGTGCCAGATGCTATGT	44355
10730	TGATCAGGCACAATACTCTAGTCTCA	22388	CAACACACCAATGCAGCCAATC	33372	CCCAGACAAAAATGATCAGGCACAATACT	44356
10731	CCAGGTACTATCAGTGCCGACTGT	22389	CCTGCAGAGTTATTGGGAAGATGA	33373	GGAGGTAGGCCAGGTACTATCA	44357
10732	CTGTTGTTTGGAGCCAAAAGTGT	22390	TGGGCAGCAGCTCACAGAATC	33374	GGGGTCAGTCGTATTTCTGTGTGT	44358
10733	CCTTCCACAATGCAGAGCAGTGA	22391	AGCAGGCTGGGCCAAAATCA	33375	AGTATCAGGGGCTTCCACAA	44359
10734	CTCTGCCCTGTAAGTTTCTACTGACTA	22392	CACCTGCGAAGGAATCACCATCA	33376	TCTCTCTGCCCTGTAAGTTTTC	44360
10735	GGAGAAGGTCTTTCTACAGTAAACT	22393	TGGTGGAGCAGTCACCTCTTCT	33377	CCCCACCATAGGAGAAGGTCTTT	44361
10736	CGGCAAGACTAGGAATACAGAGGAA	22394	GCTGGCTTTGCGAGAGCTTTT	33378	GCGCTCGGCAAGACTAGGAATA	44362
10737	GCATCTTACATACAGGAAGGAGCAAA	22395	AGGGCCTTTACAAAAGAGTCTTGA	33379	AATGGCACCTTTTGTCTGCAT	44363
10738	GGTAAAGCTGCTCAATGGGCAATAG	22396	CAGCCAGGACCTCTTTTGAT	33380	TTGTCCAGGTAAGCTGCTCAAT	44364
10739	GCACCCATGTTGCTCTCAGTGT	22397	GCAGGATATGAGTGATGCTCCAT	33381	CCAAAACTCTCTTGGCACCCATGTT	44365
10740	CCTGTTTCTAGCTTGGCTCTCTTT	22398	GCCGGCCTCTCGAATCTG	33382	GCCGATCGTCTATCAACCTGTTTC	44366
10741	TCACCAACACCTTCTGGAATTAAG	22399	GTCATACTACATGGCTGGAACCTA	33383	CAAGCAATTCTTACCAACACCTT	44367
10742	TGCATGGATCACAGTTTCTCTGTGA	22400	ACCATGGACTAATGAAATCTGGCTATG	33384	CCCTGGTGATGGATCACAGTT	44368
10743	CCATGTTTCTCTCAATTCTCTGAAAG	22401	ATCCACAGCCAGCCATCAAG	33385	CAGTTGCAACCATGTTTCTCTCTCA	44369
10744	GGTGATGTGGCCAGACTTGT	22402	GAGTGCTCACTCAGCATATCTGCTATC	33386	GAAGGAACCTGTCTGGTGATGT	44370
10745	CTTGTTGATAGGACAAAAGCATACCAA	22403	TTCTGGGGACAGCTGTAGACA	33387	CCCAAGGTAAAGCAATTCTTGTGT	44371
10746	CCAAAGGCCAGGAGAGGTTT	22404	AGCAAAAATCCGAGGTAGCCAAT	33388	ACTGGGCTTCAAAGACCCAAAG	44372
10747	GAGAACTGACTCTCCAGATATAAAGAGTT	22405	GCCCAATAGGTGTGAACCTTTGAA	33389	AAGGAGAACTGACTCTCCAGAT	44373
10748	TCTCTGTGATTTAGGTTCTGCTTTAG	22406	GGATAGGCAAGTACTGGCTAAAAGT	33390	GGCTCGTCAGTCTCTTCTCTGT	44374
10749	GCCTGGCCTCAATTCTCATTTTT	22407	CCCCTACCATGACTGATGAAGAAA	33391	CCAATGTGCCTGGCCTCAAT	44375
10750	CTTGGTATGGAATCCTAGTGATTTCTGACT	22408	GGCTGAGCCCATGGAGTTAAGAT	33392	GGTTCTTGGTATGGAATCCTAGTGT	44376
10751	TTCTGTGAGAGCATGTGTGTT	22409	CAGCTGCAATTCTATGGACTA	33393	CCCATAAGTGGATTCTCTGTGAGA	44377
10752	CCAGCTAGAGGCTACTCTGTCA	22410	ACCTGTGGCTCTTCTCCATCT	33394	ACAAACAGCAATGTCTCAGCTA	44378
10753	GGCAGAGTCAAAAGGAAGTCAAC	22411	GAGTCTGATCATACAGACCATCCTT	33395	GCCCTTTGAAATAAGGCAGAGTCA	44379
10754	TGCTGGACTCAGGGTTGAATATG	22412	GAGCTCGTGATAACAATCCCTTTTG	33396	TCCATAGGCTTGTCTGGAATCA	44380
10755	ACACCTGCGAAACACTTTATTGTAG	22413	CACGCTCAATTTTCTCTGTTTTCA	33397	GACACCACACACCTGCGGAAA	44381
10756	CCTGTCAATTACCAGTGAAGTGCAT	22414	GGAAAGTGGGAACTTGAACTGAGA	33398	AGGTCACTCTAGACCTGTCTATT	44382
10757	GGCATCTTTGACCCATGATGAGA	22415	CCAGCAGGACCTGACTGTACT	33399	GGGTTGGCTTGGCATCTTTTGA	44383
10758	AGGACCAGGCTCCTTGTTT	22416	CAGGACCTGACATTAACCTTGTTTTAG	33400	AGCAGCTTTGTGGCCTGGTA	44384
10759	CCACAATGACCTAGCAGACCTT	22417	GATCTATGGGGAATGGGAGCAA	33401	GAAATACAGTGGAACCAATGACCTA	44385
10760	CCAGCTTCAACATTGGCTTTC	22418	CAGCAAGGCGTTTTCCACTGA	33402	GGCAGCAATCATTCAGCTTCA	44386
10761	GTGTCTACTAATAAGTACCAGGGCAAA	22419	GCCTGCTTGGTATCCCCGTAAT	33403	GGCAGCTGCACTACAAAGTGCT	44387
10762	TCTGAAAGTACCCATTCAAGTCAAG	22420	CAGGACACAATTGGAACACTGGTTA	33404	GAGTCTGTATCTGAAAGTACCCCAT	44388
10763	GTGGTCATTTCCTCAGTGCCAGAA	22421	CTGCCAGCTACTAAGTATGTCTATGCTA	33405	GGACCCCATCTGTGGTCAATTC	44389
10764	GGTTTTGCTTCCAAGGGACTGT	22422	GCCTAAGAGCAGGCATGCAA	33406	CCTCCCTGTAGCTTTGAGGTGGTT	44390
10765	GGCATATTCAAGCAATCTGCTTTAC	22423	GGCAGCTGTGGTAGACCTTTGT	33407	GCTAAGAGAAGCCGTTTGGCATA	44391
10766	GCCATGAGTTGATGATTGCGAGGAA	22424	CCATTAGTGGCTCCATACCCCTTCA	33408	AGGGAGGTGCCATGAGTTGA	44392
10767	GCAGCAATGCCCAGGTACTACA	22425	CCTGAAGCGATCAAGTTTCAGGTTTA	33409	GCCCTGAATAACTGGCAGCAATG	44393
10768	CTTGTTGGGCTCTGGAATTTGGAT	22426	CTGGAAGGTCGTGATATAGGTATC	33410	GCTGAACTCCCGCTTTCCTTGT	44394
10769	TGCTCTGGGTGTAGTCTGGATTTC	22427	GGCCATGGACCTTTGGCAAT	33411	GGACTTCATTGGTCTGGGTGTA	44395
10770	GGAGGCACAAACATGCATTGAGA	22428	GAATGTGGATTAGCTTCTCCCTAGA	33412	ACTCTGCAGGAGGCACAAAC	44396
10771	GTACTTGTGCTTGGATGTTTTGCTA	22429	CACCATGAGTTTGACTTTGACCTGAT	33413	ACTTACTGTGTACTTGTGCTTGGAT	44397
10772	TGGGAGTTAAGAGTGAGTGGAATG	22430	TTCTGACTCCACCGTCCTT	33414	GGTGACCTCTTGGGAGTTAAGAGT	44398
10773	CCAGAGCACACAGCTTCACAAC	22431	GGAGAAATCTCTGTTTCTCACCATGACTCT	33415	GTGGAAATACCCAGAGCACACA	44399
10774	TCTCACCGATGTTGGGCTCTA	22432	TTCCCTCACCTCAGGGATCTT	33416	GCAGCACGTATATCTACCGATGT	44400
10775	GACACAATGCTGCGTGTGCTT	22433	AGGGCCAGAGGTGCGCAA	33417	GGCAGGGCTAATTTGACACAATG	44401
10776	GAGTGAGTGAGGGTGGGAAGTT	22434	CAAGCTGCCCCACTACAACA	33418	GAGGAAAAAGGTACAGAGTGAGTGA	44402
10777	TGCCCAAAGCTCCTGCTAGT	22435	AGCCAGTGGGAGGAGCAGATA	33419	ACACAACGTCCTGCCCAAAG	44403
10778	CAGAGGCTCAGATTTGTTTAGTTG	22436	TGTACGGGAACTATCACCTTTGA	33420	TTCTCCAGCATGGCTAAGATGA	44404
10779	AGGCCAGCCTCCACATACT	22437	GGGACTAAAGCCTGAGAGCATGAGA	33421	CCTGTGGGCCAGACTTCA	44405
10780	GCCATTTGAGAGCTGCCCTAT	22438	GTGAGGCCACCTGCATTTCTTAC	33422	AGCCAGCTGCCATTTTGAGA	44406
10781	CCCACACAATCACACCTTACCTTTC	22439	AACCAGGGGACCAGGATATGT	33423	CCTGAAAGCCCAACCCACAAAT	44407
10782	GGGACTTCTGTTTCTCAGAGTAGTTC	22440	GGGTGAGGTGCTCTGGTCTGT	33424	GGGTAGTTCAAGGACTTCTGTTTC	44408
10783	TGAGAAGGCAGGAGCAGTGATA	22441	CTCATTCCTCTCTCCCACTAAC	33425	GCTTCAGCAGTGGCTAAGATGA	44409
10784	GGGTCTGTATAGCCCCATTTACA	22442	GAGCCAAGCCATGACACACT	33426	GGTCTGTGTCTATAGGGTCTGTA	44410
10785	GGATGCACTTAATTCGCCCAACAA	22443	GGAGGAGCTTCCCTGATTGGTAT	33427	GGGAGCTATGACGAGTGCACCT	44411
10786	GCAAGTTTTGGCTTGAGAGCTT	22444	GCACATGAACTGCCACGTCCTA	33428	AGCCCCCACTCTCACTTA	44412
10787	GCATGTCTGCTTCTCTAGACT	22445	GGTGTTGTAGCTGTGATTAAACAAGA	33429	CGCCTTGAAATTAGATGCACCTGT	44413

10788	GCGGGCAGTGATCATTGGAA	22446	TCCTTCTCAGTCCTGTTGAAAGTAG	33430	AACTGCTATGCGGGCAGTGA	44414
10789	GGTGAGGGTGAAATCAATAGCAGAAG	22447	ATCCTCAGGGGCTCCAGGATCT	33431	GCAGCTAGAGAGGTGAGGGTGAAATC	44415
10790	CACAGACCCAAAACGCAACACA	22448	GGTGGAGACCAGTAGGTTTTATTGT	33432	CCCTTGTTCCTTATCTCAGAGCCCAAA	44416
10791	GACCTCTCGGATTTTCTCCCTTTG	22449	CCAGGAAAATATCAGGCTCAGTTTCA	33433	TCCCAATTGACCTCTCGGAT	44417
10792	GCATGGGAGGGGTAGTCTATTAGCAA	22450	GGTGAAATGTAAGCTCTCTGGTCTTTT	33434	GTGGCATGGGAGGGGTAGT	44418
10793	GTGGTGGTTAGGACAGTTGAACCAA	22451	GGGTGCTGAAATGGTTGGAATGAGT	33435	GCATCTGGGAAAGAAGTGGTGGTT	44419
10794	ACAGCTACCCCTCCCATTACA	22452	GGCCAGCCTATAAAACCACAT	33436	ATGTCAGAGGCTCCACAGCTA	44420
10795	GGACAGTTGTTGACCTAGGCTGCTA	22453	GGTAAAAACATGGGCCTTAGAGTCA	33437	ACCTAACAGAGCTGGACAGTTG	44421
10796	GGGGCAGACTGAGTGATAGGAA	22454	CCCACAGCTAGGGCAATCTGA	33438	AGAGCTTGGGGCAGACTGA	44422
10797	GCCACATGACAACATGTAGCTGGAA	22455	GCAGAGGGCACTCATAAGTCAGT	33439	CCCACCTTGGCCATGACAACA	44423
10798	CCTGACTGGGTGACGTTTCAA	22456	GTCCGGGGACACATTCTAGTTTC	33440	TGTAACGTGGGTCCCTGACT	44424
10799	CCTGGTTTCCCCTTCATGCAAA	22457	CTAAAGACCTAAGCCTGTTACATCT	33441	CCTGGTTTGGGTACCTGGTTT	44425
10800	GGAACACAGGACTGGTTCAGAAA	22458	GTGCCACCTTACTGGCCAAAGA	33442	CACCAACCTAGCATGGAACACA	44426
10801	CCGCTCTTCAGAGTGACTACCCTAAC	22459	CAGCTGCAGATGAAGCTCAA	33443	CCAAGGCTAACAATTCCGCTCTTC	44427
10802	TGGTCTTGTAGATGGGAAGACA	22460	GTAAGTCAAGTCACACCAATTCCTTAC	33444	AGGGCCTTGATGTCCTTGATG	44428
10803	CCAGAGGACTTCAGCCAGTTGT	22461	CAGATCCCAGTGTCTGAACTTGA	33445	GGTTTATTTAAAGCCCAGAGGACTTC	44429
10804	CCTGGCCCTCATAGGGAGATAGA	22462	GCCTGTACCACCTCCTGCTAAT	33446	GTATAGTATTGTACCTGGCCCTCATAG	44430
10805	CTGGCTGCGTATTTTGGCATGT	22463	CTGAACATGCACCCGAGACAGA	33447	TAGGTGGCTGGCTGCGTAT	44431
10806	GGCAAACTGTTATGGTGACAAGACAGA	22464	AGCCAGGCTCCTGTTCT	33448	AGGGGCTTGGATCTGCGCAA	44432
10807	GGGGCACAAMATGCACCACAGA	22465	GCAAGCCCCATCAACCATCT	33449	CGGAGATCTCTGGGGCACAAA	44433
10808	TGGATGGAAGTTCACCACTCAATG	22466	GATGCTCAAACGCTCATAGAT	33450	CACAAGATGCTTATGGATGGAGTTC	44434
10809	CCCCGGTTTTTACAGTACAGA	22467	GAGTCAATGAATACTGCACCTCTT	33451	ACACGCCCCGGTTTTTCA	44435
10810	CCAGACAGAGCGCCTCCAGTT	22468	CCCAGGGAATCTGCTGGAATGTAG	33452	ACAAGCCAGAGACCCAGACAGA	44436
10811	CAGCCTCAAAATATATTACAGGGACCATA	22469	AAAATGGACCTAAGTCCAGAA	33453	GGCAACCTTTGACAGCCTCAAAAT	44437
10812	GGGTGCTCCAACAGTCTTG	22470	GGATCCCTGCCTCTAATCTGTA	33454	AACTGAGTGCCTGCTCCAA	44438
10813	CGTGTGCAATCTGGAGCATGT	22471	GTTCAGAAATCTATGAGGCCATGA	33455	CCTGAGCACGTGTGCAATCT	44439
10814	GGGTTCAAGTCTCATCTGTCT	22472	GGGAAGGCCAGAGAGTAAGCTACA	33456	GCTTCCCAAGCATGGGTTCAAG	44440
10815	TCTGTGCTTGACCTTTCACITTTCT	22473	GATTGGAAGGACATAGGCAGTTCA	33457	GCCCTGCTTCTGTTTGT	44441
10816	CGGTACAGTGAGTTTCTGCATAGATT	22474	GTCCCTTGACAAAGTTCCCTAGA	33458	ACCAATTCGGTACAGTGAGTTTCT	44442
10817	CCTGCTACTAAAGTTACTCTCCATTG	22475	GAGAGTCTGGGAAGGCTGAAT	33459	TGGCCACAGCAGCACTAATTC	44443
10818	AGTCCAGGGAAAGCATGTATGATAG	22476	CATTATTTCCACTGAGGGCATCT	33460	GACTGACTTAGTCCAGGGAAGCAT	44444
10819	ACCCATCCCAAAAACCATG	22477	CGTAGCAACCAAGCCTGAGATATGA	33461	GACTTTTCAAAACCCATCCACAA	44445
10820	CCGACTGTCCAGCTTTTCTGAAG	22478	TCGAGGAGCCAGCACATCTA	33462	GACTTTTCCGACTGTCCAGCTT	44446
10821	GGAGCATCTTTTCAACATATGAATC	22479	TGATGTCTTTGGCAGAGTGTTTTAC	33463	GTACGCTTGGAGCATCTTTTC	44447
10822	ACCTAAGCCACAGAGTGCTTATC	22480	CTAGGCCTCAGCATCAAGCAT	33464	GCAACCTGACAGCAGCTCTA	44448
10823	CCCAACTGTGTTCTGCCTACAAG	22481	CCCTGTAGCCTATGTTTATCCTTGA	33465	AAAAGCAAGACCCAAGTGTGTT	44449
10824	CTGAGGCAGATCATCCCAAT	22482	CCCAACTGGGTCTCCTCTTTGAT	33466	CTGAGTGGGTAGCTCCTTTCT	44450
10825	GGAGTAGCAGGTTTCCGTGATG	22483	CCACCTCCAGACAGCATTT	33467	TCCCTTGGAGTAGCAGGTT	44451
10826	GACTGGAACAGGTAAAGGGGAAAG	22484	TTACATTACTCGCAAGGTGAGT	33468	CACCTCTAATAGAAGACTGGAACAGGTA	44452
10827	TCAATTCAGTCTTCTGAGTGCAA	22485	TGATGACCATGCCACATCTGTAA	33469	GTACAGACTGCAACACACTCT	44453
10828	CCACAGTCAGTCCAGTCTCCAA	22486	GGGGAACACAGTGACAAGTCACGAA	33470	TCAGGCTGCCACAGTCAGT	44454
10829	CTCATAGCCAGGATTCACAGATCCAT	22487	GAGTGGTGCCACTCTGCTTCA	33471	GGTACTATTCTCTCATAGCCAGGATTC	44455
10830	GACAGTGACAGGATTGAGTAAATGCAA	22488	GCACTTGGGAGAGGGAAAAATGCAA	33472	CTGCTATGACAGTGCAGGATTGA	44456
10831	GCAGGTATGCTGGCTGGTGAAA	22489	CCCTCATTTGTAGGTCTACCCGTAT	33473	GGGTAGTTTTCTATGCAGCAGGTATG	44457
10832	GACAAATGGCTTTGCATATCCCCATAC	22490	CCCTGCCATGTTGCCAGATA	33474	GTCTGCCAATTAAGACAAATGGCTTTGCAT	44458
10833	ACCAACGGGAAATCCAGTTAATC	22491	GGGTGCGACTCTGGCATCTTC	33475	GGCAGAAAAACCAACCGGGAATC	44459
10834	GCTCCAGGCTTGCTTAGGCTAGAA	22492	AGGAGCTACACGGGGTATGAA	33476	TCTCGCTCCAGGCTTGCTT	44460
10835	GCTTGAAAGGCAGTAGGAAAGTGT	22493	GCTTTCCCTTTTCTGAAAAACCAA	33477	CACCTCAAAGTAGCTTGAAAGGCAGTA	44461
10836	TGGCCATGAAGGAGGTACAATTC	22494	CAGCTGAGATCATCTGCCCTTCAA	33478	CGCTAAGTCCAATGGCCATGAAAG	44462
10837	GCCGTGTGTTTCCAGAGCTT	22495	ACAAATCCTAACACAGCACGTGAA	33479	CCCTAGTTTGGGCCGTGTGTTT	44463
10838	GGGACTTATTGTAGCCCCTTAGTCA	22496	CTGTTTTGAGCAGCTAGGGATT	33480	GGGGTGATGAAGGGACTTATTGTAG	44464
10839	ATAGGAGGTGCGGGCAGATTCT	22497	TGGAATCCTTTCCCTGTAAAGATAAC	33481	ATAGGCCCAAGTGCCAGGATA	44465
10840	AATGTGATGAGGAAGTGGCATCT	22498	GCCAGACCACTTCAGGAACA	33482	GTGAGCAAGAATGTGATGAGGAA	44466
10841	GGAAGGGATTAAAGTGGCAGGTT	22499	CTGTTAGAAGGTTTCTCTCATGGTT	33483	GAGGGTTGGTTGGAAGGGATTAAAG	44467
10842	GCAGACACTGATATCCCTACCCATT	22500	CCAGCTGAATGCTTGGAGATGGTT	33484	GGCTTCTCTACATGGCAGACA	44468
10843	CTCCCTCAGCTAAGCTATACAGTCAGT	22501	CACGTGAGGAAGTTTGGGCTT	33485	GGTCTCAGATCTCCCTCAGCTA	44469
10844	CCTCAAAGAGTCTGTCCACAATGA	22502	GTGAGATGACTACCCTTTTGTCTAG	33486	TGCCAACTGGCCCTCCAAG	44470
10845	GCCAGCACCATGGAAGAGGTA	22503	CTGTGGGGCAGTCAGTTTTTCT	33487	GTGCCAGCCAGACCAT	44471
10846	GTCATGGAATCCTCTTTTAGCCATA	22504	ACCTAACCTATCTCAGCTGTTTT	33488	GCTGATGAAGTATGGAATCCTCTTCT	44472
10847	ACTCCACCAACCTGCCCTTG	22505	CAGATACAGAGATCAATCCAGTAGT	33489	GCTTGACCACTCACTCCACCAA	44473
10848	AGAACCGTGGTCTTCAAATAGCAT	22506	GGCTCTCAGATGGGTTTTATGTAACCT	33490	GTAGTTTTTGTAGAACCGTGCTTCT	44474
10849	AGCAAGAGTTGAGGGGCATTG	22507	GCTCCTCTCTGAAGTTGGGTTT	33491	GGTGGTCTGAATATTAAGCAAGAGTTG	44475
10850	CCCATAACAGCGCCAAGTT	22508	GGCCTGAGGCAGGTTTGAGTT	33492	CCCACAGTGCCCCACTAACA	44476
10851	GACTCCTTGGCTTTCACAAAGAGA	22509	TACCCAGGAAGCCGCTGAA	33493	GGCCTTTGACTCCTTGGCTTT	44477
10852	CAGCCGTGCATAATTTGGGTGTAG	22510	AGGCTGCCTAGGGGCTATTT	33494	CTGGCCAGCCGTGCATAAT	44478

10853	CCCTCTGTATCTCATCCCCATTC	22511	TGGGGAGGAGGGACTCTAGTTT	33495	CCTTCTGCCCTCCTGTATCTCA	44479
10854	CACCATGCCATTTTGTCTGTA	22512	AGGTGCCAGAGACTGCAGAAAC	33496	CGACATCCTTCACCATGCCATT	44480
10855	CAGACATGAAGCTCACTGAAGGTGTA	22513	CCACTGCACCTGGCCTATCA	33497	TGAAGCAGACATGAAGCTCACT	44481
10856	GCACAGCTAAACATACTCAGTGGTGAA	22514	TCCCTGTCTAGTTCTCTCTTTT	33498	ACACATACGCACAGCTAACATACT	44482
10857	CAGAGCCTTTGCTCATCCCACTAC	22515	CAGATATCCATGGGAATCAACAGTTTC	33499	GTAAGTACCTTGCAGAGCCTTT	44483
10858	GTGAATCCCAGCGGGTTACAAG	22516	TGTGCTTTCACTTCTGGAAACTT	33500	GCTGGAGGTGTTGTGGTGAATC	44484
10859	GCACGTGCTGGTGCTCAGA	22517	GCCCCAGTTCAAAATCTCTGTCA	33501	CCCTGGCTTTGGGTGGTGAT	44485
10860	CCCTACTCCCAGCAAATTTCCAT	22518	GGAAGACCAAAAAGGGATAAAGGTTGA	33502	CCAGCCTCTTCTAGCACCTACT	44486
10861	GTCTACACACACAGCCTCACTATG	22519	GCCTAGAGGGGTGGAAGCAAAG	33503	CACAGAGCAGTCTACACACACA	44487
10862	GGCACATACTGTACTCTTGATGTTG	22520	TGCGTCTGCATGGGTGGTTT	33504	GGGTGGAGGCACATACTGTACT	44488
10863	CCTAATCCAGCATCTCCTCATCTGT	22521	GACAGCCCTGTGACGTAGGAAT	33505	GGCACTGCTCTCTAATCCACGAT	44489
10864	GCAATTCCTGAAGATACCTGCTA	22522	GAGAAACAGTAGGGTCAAGGAACAGA	33506	CCTTGACCTTTGCAATTCCTGAA	44490
10865	CGGGTACACAATGTCCCCAGTT	22523	GGAGCAAATTTGGTGGATTAAAGGATAG	33507	TGTCCCCTCGGGTACACAAT	44491
10866	ACTTGGGCGAGGTGGCTAAG	22524	CGCTCCTGCCGCAAAACTCTA	33508	GGCTACAGGCTGGCACTT	44492
10867	TACTGGTATGCTCGGAAAGTTG	22525	TGCTCCACCTTGCTGCTA	33509	GGTTTCAAGCCTCACTGGTATGTCT	44493
10868	GCACCCAAGTGGAGAGGTAATC	22526	GAGCAAAGAGGTTAAGGTCACAGT	33510	GAGGACAGTGCACCCAAGT	44494
10869	CCCAAGAAGCTCTCTGTGCTATG	22527	GGCACCTGCAGACCACTTCTT	33511	GGGCTAAGGCTCCCTACACAT	44495
10870	GCTCTGCACAAGCACAGATG	22528	CGATCCCCTTGGTGTGAGAGTTG	33512	CCTGTTAGCTTTGCTCCTGCACAA	44496
10871	CTGAACACCTCCTTGAGTACAGTTC	22529	CCTAGGATAGCCCACTGGATGTAG	33513	CCTTGGATCACTGAACACCTCCTT	44497
10872	CCCAGTTTGCAAGAAGCATGAAAG	22530	CCCTCAAGGACGCTTCCCTAA	33514	GCCTGTAAGACTTTAACCCAGTTTG	44498
10873	GGTTATTCGCTGTTCTGATCTTGCTT	22531	CTTTGTGTCTCAGGCTCACCAT	33515	GCACCTCTGTGGTTATTCCGTGTTT	44499
10874	GCAGTGGCAGAAGGGCATTG	22532	AGTCCCGCCTCCTATAGTCATC	33516	CCGGATAGGCAGTGGCAGAA	44500
10875	CTCCTTAAGAACTAAGGGCAACA	22533	GCCAGGGATAGCTAACAATGACA	33517	CTGCAAACTCTTTCTCTCTCTAAGAAAC	44501
10876	CGCTAGGTTGTACTGGGAACA	22534	GTGGACTCCTAGGTCAAGCTATTTG	33518	AGCCGTACGCTAGGTTGTGT	44502
10877	GCCCATAGCTTGTCCCATGACTGTT	22535	ACATCATGTGGATAGAATGGGGATTAG	33519	GTATCCAGATTGCCATAGCTTGT	44503
10878	CCCTAAGCTTTACCTTAGATGGAGAGAAAG	22536	CCAGCCTGAGGTTCCCTCAGAT	33520	GAGGATCAGGAACCCTAAGCTTTAC	44504
10879	CACACTGGAACCAAGACCTTTATC	22537	GCGAGCTATCTTGACGCTAGTAA	33521	AGTTACCCACACTGGAACCAAG	44505
10880	GGGCTGAGTAACAAGAGTGGTTCT	22538	AAGTAATGCAGGATGAGTGATGGAT	33522	AGAATCTTGTGGGCTGAGTAACAA	44506
10881	GGTTTCCCTGTAGCTTAAGAACCAT	22539	GGGGTGGCTCAGAAACCTTT	33523	CCCTCTGTATAGGTTTCCCTGTAGCTT	44507
10882	GGTGAGGAATGACAACATGCAGAA	22540	CTCTACTGAGAGACAAGCAAAGTTTCA	33524	GCTAGGCTATGTAAGTAGGTGGAGAATG	44508
10883	ACCAGTGGGATTGATGAGACAAAA	22541	CGCCCTACTTCACTTGTTCTTG	33525	GCCCCTGTATTCTAACCACTGGGATTG	44509
10884	CCACAGAGCCTAGCATCTGGGGTTT	22542	GGGAGGCTAGTCCGCTACAGAAAAGT	33526	AGAGCACAGGAGCCACAGA	44510
10885	CCCTTCTGTGCAATGGGACTTG	22543	CCCACCCCTGCCACTTTAC	33527	CAGCTTCCCCTCTGTGCAA	44511
10886	TGTTGGCTTCTGCAGTGTGA	22544	TGGGCTCCCACACCTGTTTC	33528	AGGACCTTTCTGGCATGTGTTG	44512
10887	CAAACCTGAGAACTTGCTTCCCAAAAG	22545	GGCTGTGAAGAAGCAGTGAGGAT	33529	GCCACAACCCCTACCACTGAGA	44513
10888	CTGCCCAGGCTTTTGACTTTTG	22546	CCTCAATGAATAGTTCCACCTCAA	33530	AAGGTTTCTGCCAGGCTTT	44514
10889	GTGAAAGCTAGCATCTGGGGTTT	22547	CTTTAACTGGGATCGCTACAGAAAAG	33531	GCAAAAGTACTCGCATTTGTGAAAGCTA	44515
10890	CAAATCCTGGGGATACAGACTCTT	22548	TGCCCAGGCAGAGGGAGCAA	33532	CCTCTGCCCCAGCATATATCAAA	44516
10891	GAAACCACTGGAATACGTCCTT	22549	CCCAAAGTGCCTTGTTTCTCTGATAC	33533	CACACCAAGAACCCACTGGAA	44517
10892	GACATGATCTGACCTTGACACA	22550	GGCTGCAGCAGAGTGAATAAGA	33534	GCCCAGAGGCTTGACATGATCT	44518
10893	AGGGAGCTTAGAGGAAGGTCAA	22551	CACCTGACAGTGAGGTTCTTGTA	33535	GTCACTGCCTCAAAGGAGCTTAG	44519
10894	CAGCCACATTCAGAGCCAATC	22552	GCCATCTCCTGCTGGGTTACT	33536	CTAGCCTCTCTCAGCCACATTC	44520
10895	GTGTGTGTGGGCTTTATGAAGAAAA	22553	TGCATACAGCATACTCTGTTACAT	33537	GCTCACAGTGTGTGTGGGCTTT	44521
10896	GAAGTGAAGAAGAGTGGTCAGCTA	22554	TCCTACAGGCCCTGAACTT	33538	CCTACTTTTGGGAGGGGAAGTGA	44522
10897	ACCATGGTTTCTTGTGACGATAA	22555	CCGAAAGAGGTAGGCAGAGCTAAT	33539	GCCCCTTGATTCTCTAAACCAT	44523
10898	GAAATCAGCTTCTCTCACTCAGTT	22556	GCGAGGTGGGCACAGCACTCTCTA	33540	GAGCCCTGAATCAGCTTCTCTCT	44524
10899	TGTGGTAGAAGAGTTGTCTCCATTG	22557	CTGAAGGTAGGTGAGTCAAGCAA	33541	GGTGGTTACAGTGATTGTGTAGAAAG	44525
10900	GCCTAGCTTCAAGAGCTCCTTCT	22558	ATTCAGCCAGCCACCAATG	33542	GGCTGTGCCTAGCTTCAAGA	44526
10901	GTGGCTTACCACCAAGCAAACT	22559	ACTGTCATGTGTCTCTGCTTTT	33543	AACGGGCAGCAGGTGGCTTA	44527
10902	CTGAGTGTCTGGGGCTAGTTT	22560	GCCTTGCAACCACTACACAGAGA	33544	GAGGCAAGCCTGAGTGTCT	44528
10903	CAGAGGGCTAGTGATCTCCAAGA	22561	GGGGAGTATTACAAAGACCTAAGGAGGTA	33545	TCACCCATCAGAGGGCTAGTGT	44529
10904	GTCTCTGGGCTAATGTGCAAGT	22562	GCAATGTGTACCGGTTCTGTACT	33546	TCCAGCTTGTCTCTGGGCTTA	44530
10905	CACAGTGGACTTGTGTGTTCTGAGT	22563	GGGTCTGTTTCATCACTCAATCATT	33547	CAGATTCTGACTCACAGTGGACTTGT	44531
10906	GCTCCATTATGTTCCCATGTGCT	22564	GACACTGCCTAGCCTTGTGCTTG	33548	CCTGCCACCTTGATTGCTCCAT	44532
10907	GCTATTGGTAACGACTAGGCAGAT	22565	TGCTGGGCTGTGGATTGGTA	33549	CCACATACATTACCGTCTGCTTATTG	44533
10908	TCTCCAGAGCCTTGGCTTCTTA	22566	AGCCAAAGGAGTGGGACTTG	33550	GCAACCAAGCAGTCTTCTGTCT	44534
10909	CCACCAGCATTCAAGTGCAATGTA	22567	GCACTACAGAAGGGCAGGTAA	33551	GCTAGGACATCCACCAGCATTCA	44535
10910	ACCTTCCAGGTCTCAGCTCTCT	22568	GCTGGTGGGGAGAGGAGTATAGAT	33552	CTGTGTTGGCCATGGACACCTT	44536
10911	CACCTTGAGACAATGGGTGTAG	22569	GACCCACTGGGAAGGTATGGTA	33553	GCCCTCAATCACCTTGAGACA	44537
10912	GGACATGGAAAGATTGGACAGGTT	22570	TCCTATGGGCTCCATCATTTTCT	33554	GCTGGCTGAATAGGACATGGAA	44538
10913	CCAGTGTCAAGCTGGGTTTGT	22571	CATTAACTCAGTGTCTCTGTTAG	33555	TCCTTCATGGGCCAGTGTCA	44539
10914	AGGTAAGGGGTGGAAAAAGACATC	22572	GTGCTGATATCTCTGCTCACTTTTG	33556	CACAACTTAAGGTAAGGGGTGGAA	44540
10915	CCTTCTAACACCCCTTCTCTGTGAGAT	22573	CATTCCCAACAGCATGCCTAGATA	33557	AGAGTTTCCTTCTAACACCCCTTCT	44541
10916	GAGTGAAGACCAGCAGACAGAAG	22574	GGTTAGCTTCACTTCTGGGAGTA	33558	GGAAATGATCCACCATGAGTGAAGA	44542
10917	GGTGAACCAAGAAGAAAGGGTTT	22575	GCATCTCAGCCTTTGGGTTTTG	33559	TTGGACAGGTGGAACCAAGA	44543

10918	GCTGCCACCTAGGAAACAAAGT	22576	CCTAGCCCTATGGCAGAGTTTTC	33560	CCAGACCAAAGCTGCCACCTA	44544
10919	GGGGACATCTGTGGTCTTGCA	22577	AACTGTGGCCCTATCTCCATTAC	33561	GGAGAGGGGAAGAGTGGGGACAT	44545
10920	GCCACTTGCAAAGAACACTTTTGT	22578	CTGGTTGTCTTCATGGGATTTCCCTTA	33562	GACGCTCAAATTGTTCTTGCCACTTG	44546
10921	GCCTTTCTGCTGGCTCTTG	22579	GAGCCCTGGAGGAGTTCTGA	33563	TCCTTTTCTGGGTGCTTTCT	44547
10922	GGACCAATTTAGACTCACTGCCATCA	22580	CCAGGGTGTGGAGACATTT	33564	CTATTTACCTGGACCATTTAGACTCA	44548
10923	ACCGTGTATTATGACTTTCAGAGTTT	22581	CCAGAGGATATCCACAGTTCATCTCA	33565	GCCCCACCCGTGTATTAGACT	44549
10924	TGGGGAGGTAACCAAATCTTTTGA	22582	CCACATCAACACTATTATCCCAATTTC	33566	ACGAAGCCTTGGGGAGGTAAC	44550
10925	CAAAGGACTTGGGACGACTTT	22583	CGGCCTGAAATTTCTTTACAACCAT	33567	AGGGCTGGCACCCTACCAA	44551
10926	GACGTGTCTGTGTCCTTTGCTT	22584	CAGCCTGGTGACACCTTGATT	33568	TGGCTATGACGTTGCTGTGT	44552
10927	GCCACTGGATAGCATCATTGGATCT	22585	GTCCGAGCTGTTCTGCCTTTTG	33569	GGCTATCTGCCACTGGATAGCAT	44553
10928	CCGCTTCCATAACCTGGAGATACCTA	22586	GGAGCCTCCTACATACATTCCTCAA	33570	CCTGACCTACCGCTTCCTAATC	44554
10929	CCCCTCTATTCAAGGCTATGTTGT	22587	CCAGGAGTAAATCAGGGAATCTGAGT	33571	TGACACTTTGTTGTCCTCTATTCT	44555
10930	CATGCCGAACAGCCTCTTTTC	22588	ACACACTGTGACATGATGGGATT	33572	GGACAAAGCTCATGCCGACA	44556
10931	CCTGAGGGGAGGTAGGAGGAAAAA	22589	TCCACTCTGACTCAGTCTTCAGTA	33573	CAGTTGCTGAGGGGAGGTA	44557
10932	TGAAGCCTCAGATCTAGAGTCA	22590	AGTGACCTTTGGGGTCTCTCTG	33574	TTTCTCATTTCCAGGCTTGAA	44558
10933	GGGCATCTAACAACTACCCATGCATTT	22591	CTGTCTCTGGATCCTGTGAGTCT	33575	GGGAACCTTTGGGGCATCTAACAA	44559
10934	GAGAGCCATCACATTCGTGCTTTC	22592	GCCCAGACAGCAAGAAAGGAAGT	33576	ACCTGAGCTGAGAGCCATCACA	44560
10935	GAATCCACCCATTCAAGGAAAGAA	22593	GAACCCGTGCTGCTATTCTCTT	33577	TGGTAGGCAGAAATCCACCCATT	44561
10936	GGCAGTAGTGCTCCAATATGCTA	22594	ACAGGAAGGGCGGGAGTAG	33578	CGACATCTCACGATGGCAGTAG	44562
10937	TGGTACAGACAAGTGAGGATGA	22595	GACCTATTGAGGCTTGGGCAAGT	33579	CCCCAGCTATTAACTACTTGGCTACAGA	44563
10938	ACTCAAAGCAAAAGAGGGACAAC	22596	ACCTACCTGTGGCTCGGAAGAT	33580	AGGTGGAGCAACTCAAAGCAA	44564
10939	ACACATGGGGTCTCAGGAAC	22597	GACAGAGCTGCAGCCAGTAAT	33581	GCCACCACTGAGGAACACAT	44565
10940	CCTCATTAGACCTTAACTGGGATGACT	22598	AGGCAGAGCCAGGGCCTAAAT	33582	GGCCAAATGTCTCTCACTAGACCTT	44566
10941	GCCATCCTTGCTTGATCCTTCTCTT	22599	GAGCATGGCATGGACCTGGAAT	33583	GTGACAAAGCCATCCTTGCTTGTA	44567
10942	CTGAGTCACACAGTCCATTGAAAC	22600	AGCGCCACATGGCTGATG	33584	TCTCCACCAGCTGAGTCACA	44568
10943	TGCTGACAGCCCTCCTAAGCTA	22601	GCAAAGCTTGATGTTGGAAGAAAG	33585	GAAAAGTTGTTAAACCCTGCTGACA	44569
10944	GCCTCCATTGTCTCTCTCTGGATAA	22602	GGGAAGCAAGGAGAGCAGCTAGTA	33586	TCCAAGCCTCCATTGTCTCTCT	44570
10945	GGCCGGAGAAAAGGTTTGGCATT	22603	GGCTCAGGGGCAAAAGTTGT	33587	GAACATACTCAAGGCCGGAGAA	44571
10946	GCCACCAATTCCTTTGGATGATCCTTT	22604	GTCACCAGGAAATGCACATCTTTT	33588	CCTCATATGCCACCAATTCCTTTG	44572
10947	TCCATTCCATGTTGGAGCAAAAC	22605	GCCCTGAAAATTCGTGCTATCAAATG	33589	CCACCTAATTGTCTCATTTCCATGT	44573
10948	TGAGTAGGAATGGCAACAGCTAAT	22606	TGACAGGGGCTCTAGAAGTAGTAAG	33590	GTGGAGTAGACAGCAAAATGAGTAGGAA	44574
10949	CCCATTCACTGGGGTTTCGTT	22607	GCCAACTTCTCTGCTAAGGATTG	33591	GTGCAGTAGACCCCAATTCAGT	44575
10950	CGGCACAGAGTGGTTAAGAATAAGA	22608	GCTAGGCAATTTTGGCAGAGGCTTT	33592	CACCTATATAATCGGCACAGAGTGTTT	44576
10951	GCATCAGAACTCATAGACACTTGATTG	22609	AGAACCCGAGAGGCCTATCCAA	33593	CATGTTTCCAACACATGCATCAGA	44577
10952	GTGGCATGGAAGAATCATGTGCTTAG	22610	GCTTTCCTGCTCTGGTGCTGAA	33594	GGGAGTGGCATGGAAGAATCA	44578
10953	ACCTTCTCATAGCCCAGCTGT	22611	AACTGATCTGGCCTGCTAAAAC	33595	CAGGCTTCCCAACCTTCTCATAG	44579
10954	GCTCTTAAATAGCTCACAGCTAGT	22612	TGTGCTTAACTCTGCTAGCCTCAT	33596	ACCCGTGGCATCTGCTCTTA	44580
10955	CGTTTGTGGAATGGCTCAAGATT	22613	GGTGATATTAGTGAAGCCCTCTGTTG	33597	CAGCAAAGAGACGTTTGTGGAATG	44581
10956	TCCCACCTTGTAGTGCTCAGT	22614	CCAAAGTAGCAAAAGGTGTCTGCATT	33598	GCCTTATCTCAATGATCCCCACCTT	44582
10957	GCTCTATACATTGTGGTGCTGCAA	22615	GGATGATGCTGGCTAATGGGAGAAA	33599	ACCCAGTGTTGCTCTATACATTG	44583
10958	GAGTATGGGATCAGGTCCATGTCA	22616	ACCTTGCTCTCCACTCCAGAT	33600	CTGGGTACCGAGTATGGGATCA	44584
10959	GGCAAAACCTACATTCTGTGTA AAAAC	22617	CACATGCATAGCTTAGCCAGTGA	33601	CCAGAAAAGGCCAAACCTTACATT	44585
10960	GCTGGTGACTGGTTCATCCTAGA	22618	CGAGAGATTGGCAGTCCCAGTT	33602	AGCAGTGAGGCCAGAACTTAG	44586
10961	GCGTGTAGCCAAACTGTTG	22619	CCCAATTCAAAGGGCTCTCAGT	33603	TGGATTCCAAACTTTGCGTGCTA	44587
10962	GGTTGGGAAGACTGTGGGACAA	22620	AGCCTGAGTAACCAAGGACTCT	33604	TGGTCTGTGGGTTGGGAAGACT	44588
10963	CAAAGTGGTGGCAATTACAGGACTA	22621	CACATGCTGCTGCTAATTGTTT	33605	GGCTTCCAAGTGTGGGCAAT	44589
10964	TGGTCACTCAGGGTGGGTAAG	22622	GCTGCAGGAGTGAACTAGGAACA	33606	AGGCAGGGGTGGTCACTCA	44590
10965	ACACACTCCCCACCCCAAAC	22623	TCTCCAGAATTCCTTCAAAGCAT	33607	TCGCCACTGCCACACACT	44591
10966	GCTTCCCACTCTGCCCATCAAT	22624	GTGAAAGCAGGTGGTCATACTCT	33608	AGTAGAAGATCAGCTTCCACTCT	44592
10967	CACCACCGTAGATCCAAAAGTGT	22625	CTGCAGGTAGCAGAATTAAGTACA	33609	GCCTATAGTGAACACCACCGTAGA	44593
10968	GGTGCTATTGCTCCCTGTTCA	22626	CTGTGCTCAGATCTGCATTGGAT	33610	CCATGTCCATTGCTAGGTGCTATTG	44594
10969	GAACCTCTCCTTTTACGGTGCAA	22627	CACTCATTTGACTTCCCGCTGTT	33611	CGACGGAACAGAACTCTCCTT	44595
10970	CTCTCTGGCCAGGTGACATTGTAG	22628	ACAGGGATCCACTGGTATGATAAAGA	33612	GCTCACTGCAGCTTGCTCTCT	44596
10971	GCTCAAAACCGGCATTGATGGTA	22629	CTGAGCAGGCTATTCCAGTCTGT	33613	GCCAATAGCTAATGCTACAAGTAGCTCAA	44597
10972	TCAACCAACCAGCGGTGACA	22630	TCGCCAAGGACCTAGGAACA	33614	TTCTCCATAGACGTGACCATCAAC	44598
10973	GAGTTTCCGTGACAACGTTCTT	22631	CGGTGGTGCACAAGTAGT	33615	GCAGCTGGAGTTTCCGTCACA	44599
10974	AGGGAGGGAGTTATTGTGCTACT	22632	GAGTTGTGCAGATGGGTGAAAA	33616	CCTCAGCCAAGGGAGGGAGTTAT	44600
10975	GAAAGCTGGGTGAAGTGCTTGT	22633	CCTGGCATTACAGTGGGTACAA	33617	GCAAAATCTTAGAGAAGCTGGGTTGA	44601
10976	GGAGAGTTATCAATGAGCCTTCTGT	22634	AGTGCCCCACCGGTGTTT	33618	GGTGTCATGTACTAGAAGGAGAGTTATC	44602
10977	TGGCAAAGTGAGAACCTGCAT	22635	CCTTATAGTGGGTTCTGGGACTTAGTA	33619	GCTGTTTTTGAAGCTGGCAAAGT	44603
10978	CGTGTGCTCTGGAAGAGATGGAA	22636	GGGTAGCCTGGGAATGCTT	33620	TGCTCAGCTGTGCTCTGGAA	44604
10979	GAGAGACAGCAATTCTGGGGAACAT	22637	GAACCTCGCCTCATTTGTATTTC	33621	GCCCCATCTGAGAGACAGCAATTC	44605
10980	AGGGTTGGACTAGGGGAAAGTGA	22638	AGCACCGGCAGGCGACTTT	33622	TAGGGCGGCAGGGTTGGACTA	44606
10981	GGTTTCTCCTGAAATCGTGTGTGA	22639	CTCCAGAATTCTACGGAACTGGAAGT	33623	CCAGGGTGGTTTCTCCCTGAAA	44607
10982	CTGCACCTTGGCAACACTTTGA	22640	GCTCTGTAAGGCCACTTTGTTT	33624	ATCACCTCTCCCTGCACTTT	44608

275/279

10983 GGACCCAGGATTGAGGAGACAA
10984 TGCACATGCGCTCTTCTCA

22641 CCAGCCTAGACCTAAACCTTGA
22642 GTGATGCCAGACAGAGCTGACA

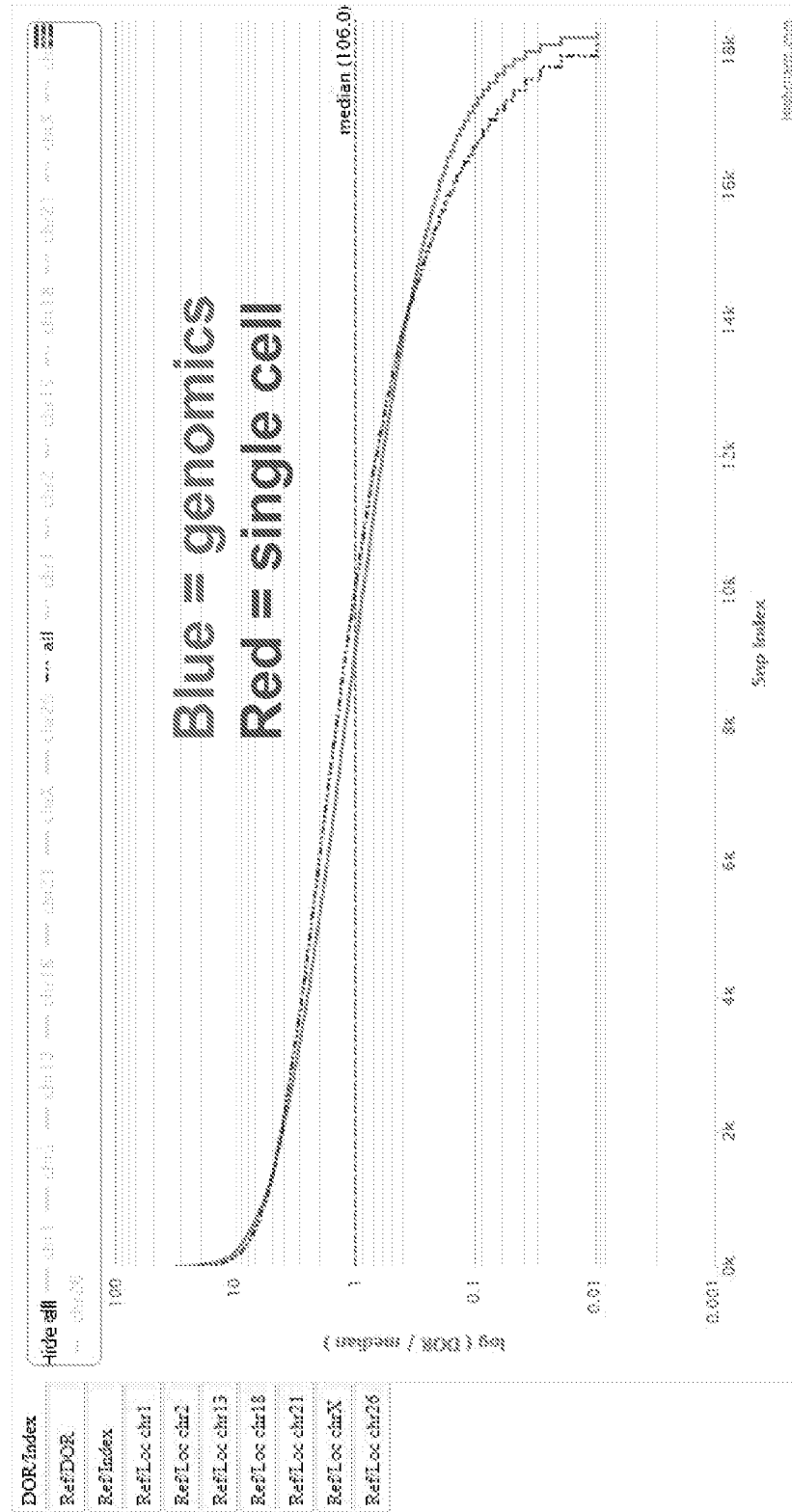
33625 CAACTAAGATGGACCCAGGATTG
33626 CCTGTGCCTGCCTTCCGAAT

44609
44610

FIG. 37

Description	MAPPED_READS	TOTAL_READS	%Mapped Reads
gMother	3,633,900	3,647,446	100%
gMother	3,567,685	3,578,549	100%
gMother	3,733,706	3,747,692	100%
gChild	3,725,554	3,737,742	100%
gChild	3,816,989	3,829,450	100%
gChild	3,524,956	3,536,569	100%
1 mother	3,467,493	7,564,869	46%
1 mother	3,868,210	7,107,028	54%
1 mother	4,918,140	7,613,240	65%
1 child	361,390	6,507,434	6%
1 child	1,885,864	6,496,348	29%
1 child	2,789,647	6,259,288	45%

FIG. 38



277/279

FIG. 39

Description	MAPPED_READS	TOTAL_READS	%Mapped Reads
case 1 blastocoeol	68,123	8,470,872	1%
case 1 cell 1	4,340,613	8,248,598	53%
case 1 cell 2	5,480,580	8,230,870	67%
case 1 cell 3	4,664,577	7,846,040	59%
case 2 blastocoeol	45,794	6,302,957	1%
case 2 cell 1	6,988,854	8,622,495	81%
case 2 cell 2	7,083,600	8,843,495	80%
case 2 cell 3	5,811,364	8,256,310	70%

FIG. 40

