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BLAST® >> **Global Alignment** >> results for RID-PKDMJ7XV114

Job Title	SEQ_ID_NO10 ...
RID	PKDMJ7XV114 Search expires on 11-09 08:53 am
Program	Needleman-Wunsch alignment of two sequences
Query ID	lcl Query_50573 (dna)
Query Descr	SEQ_ID_NO10 ...
Query Length	10676

Subject ID

lcl|Query_50575 (dna)

Subject Descr

[SEQ_ID_NO72 ...](#)

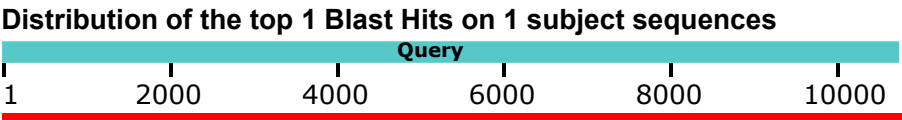
Subject Length

10773

Descriptions

Description	Score	Percent Ident	Accession
SEQ_ID_NO72	20664	98.00%	Query_50575

Graphic Summary



Alignments

Alignment view

Pairwise

☐ CDS feature

Restore defaults

SEQ_ID_NO72
Sequence ID: Query_50575 Length: 10773 Number of Matches: 1
Range 1: 1 to 10773

NW Score	Identities	Gaps	Strand	Frame
20664	10584/10792(98%)	20/10792(0%)	Plus/Plus	
Query 1	GTTGTTACTGTTGCTGACTCAGACTGCGACAGTTCGAGTTTGAAGCGAAAGCTAGCAACA			60
Sbjct 1	CAGACTGCGACAGTTCGAGTTTGAAGCGAAAGCTAGCAACA			41
Query 61	GTATCAACAGGTTTTATTT-GGATTTGGAACGAGAGTTTCTGGTCATGAAAAACCCAAA			119
Sbjct 42	GTATCAACAGGTTTTATTTTGGATTTGGAACGAGAGTTTCTGGTCATGAAAAACCCAAA			101
Query 120	AAAGAAATCCGGAGGATTCCGGATTGTCAATATGCTAAACGCGGAGTAGCCCGTGTGAG			179
Sbjct 102	AAAGAAATCCGGAGGATTCCGGATTGTCAATATGCTAAACGCGGAGTAGCCCGTGTGAG			161
Query 180	CCCCTTTGGGGGCTTGAAGAGGCTGCCAGCCGGACTTCTGCTGGGTCATGGGCCCATCAG			239
Sbjct 162	CCCCTTTGGGGGCTTGAAGAGGCTGCCAGCCGGACTTCTGCTGGGTCATGGGCCCATCAG			221
Query 240	GATGGTCTTGGCAATTCTAGCCTTTTTGAGATTACGGCAATCAAGCCATCACTGGGTCT			299
Sbjct 222	GATGGTCTTGGCGATTCTAGCCTTTTTGAGATTACGGCAATCAAGCCATCACTGGGTCT			281
Query 300	CATCAATAGATGGGGTTCA GTGGGAAAAAAGATGCTATGGAAATAATAAAGAAGTTCAA			359
Sbjct 282	CATCAATAGATGGGGTTCA GTGGGAAAAAAGAGGCTATGGAAATAATAAAGAAGTTCAA			341
Query 360	GAAAGATCTGGCTGCCATGCTGAGAATAATCAATGCTAGGAAGGAGAAGAAGAGACGAGG			419
Sbjct 342	GAAAGATCTGGCTGCCATGCTGAGAATAATCAATGCTAGGAAGGAGAAGAAGAGACGAGG			401
Query 420	CGCAGATACTAGTGTGCGAATTGTTGGCCTCCTGCTGACCACAGCTATGGCAGCGGAGGT			479
Sbjct 402	CGCAGATACTAGTGTGCGAATTGTTGGCCTCCTGCTGACCACAGCTATGGCAGCGGAGGT			461
Query 480	CACTAGACGTGGGAGTGCATACTATGTACTTGGACAGAAACGATGCTGGGGAGGCCAT			539
Sbjct 462	CACTAGACGTGGGAGTGCATACTATGTACTTGGACAGAAACGACGCTGGGGAGGCCAT			521
Query 540	ATCTTTTCCAACCACATTGGGGATGAATAAGTGTTATACAGATCATGGATCTTGGACA			599
Sbjct 522	ATCTTTTCCAACCACATTGGGGATGAATAAGTGTTATACAGATCATGGATCTTGGACA			581
Query 600	CATGTGTGATGCCACCATGAGCTATGAATGCCCTATGCTGGATGAGGGGGTGGAAACCAGA			659
Sbjct 582	CATGTGTGATGCCACCATGAGCTATGAATGCCCTATGCTGGATGAGGGGGTGGAAACCAGA			641
Query 660	TGACGTCGATTGTTGGTGCAACACGACGTCAACTTGGGTTGTGTACGGAACCTGCCATCA			719

Sbjct	642	TGACGTCGATTGTTGGTGCAACACGACGTCAACTTGGGTGTGTACGGAACTGCCATCA	701
Query	720	CAAAAAAGGTGAAGCACGGAGATCTAGAAGAGCTGTGACGCTCCCTTCCCATTCCACTAG	779
Sbjct	702	CAAAAAAGGTGAAGCACGGAGATCTAGAAGAGCTGTGACGCTCCCTTCCCATTCCACTAG	761
Query	780	GAAGCTGCAAAACGCGGTGCGAAACCTGGTTGGAATCAAGAGAATACACAAAGCACTTGAT	839
Sbjct	762	GAAGCTGCAAAACGCGGTGCGAAACCTGGTTGGAATCAAGAGAATACACAAAGCACTTGAT	821
Query	840	TAGAGTCGAAAATTGGATATTCAGGAACCTGGCTTCGCGTTAGCAGCAGCTGCCATCGC	899
Sbjct	822	TAGAGTCGAAAATTGGATATTCAGGAACCTGGCTTCGCGTTAGCAGCAGCTGCCATCGC	881
Query	900	TTGGCTTTTGGGAAGCTCAACGAGCCAAAAAGTCATATACTTGGTCATGATACTGCTGAT	959
Sbjct	882	TTGGCTTTTGGGAAGCTCAACGAGCCAAAAAGTCATATACTTGGTCATGATACTGCTGAT	941
Query	960	TGCCCCGGCATACAGCATCAGGTGCATAGGAGTCAGCAATAGGGACTTTGTGGAAGGTAT	1019
Sbjct	942	TGCCCCGGCATACAGCATCAGGTGCATAGGAGTCAGCAATAGGGACTTTGTGGAAGGTAT	1001
Query	1020	GTCAGGTGGGACTTGGGTTGATGTTGTCTTGAACATGGAGGTTGTGTACCCGAATGGC	1079
Sbjct	1002	GTCAGGTGGGACTTGGGTTGATGTTGTCTTGAACATGGAGGTTGTGTACCCGAATGGC	1061
Query	1080	ACAGGACAAACCGACTGTCGACATAGAGCTGGTTACAACAACAGTCAGCAACATGGCGGA	1139
Sbjct	1062	ACAGGACAAACCGACTGTCGACATAGAGCTGGTTACAACAACAGTCAGCAACATGGCGGA	1121
Query	1140	GGTAAGATCCTACTGCTATGAGGCATCAATATCAGACATGGCTTCGGACAGCCGCTGCC	1199
Sbjct	1122	GGTAAGATCCTACTGCTATGAGGCATCAATATCAGACATGGCTTCGGACAGCCGCTGCC	1181
Query	1200	AACACAAGGTGAAGCCTACCTTGACAAGCAATCAGACACTCAATATGTTTGCAAAAGAAC	1259
Sbjct	1182	AACACAAGGTGAAGCCTACCTTGACAAGCAATCAGACACTCAATATGTTTGCAAAAGAAC	1241
Query	1260	GTTAGTGGACAGAGGCTGGGGAAATGGATGTGGACTTTTGGCAAAGGGAGCTGGTGAC	1319
Sbjct	1242	GTTAGTGGACAGAGGCTGGGGAAATGGATGTGGACTTTTGGCAAAGGGAGCTGGTGAC	1301
Query	1320	ATGCGCTAAGTTTGCATGCTCCAAGAAAATGACCGGAAGAGCATCCAGCCAGAGAATCT	1379
Sbjct	1302	ATGCGCTAAGTTTGCATGCTCCAAGAAAATGACCGGAAGAGCATCCAGCCAGAGAATCT	1361
Query	1380	GGAGTACCGGATAATGCTGTGAGTTTATGGCTCCAGCACAGTGGGATGCTCGTTAATGA	1439
Sbjct	1362	GGAGTACCGGATAATGCTGTGAGTTTATGGCTCCAGCACAGTGGGATGATCGTTAATGA	1421
Query	1440	CACAGGACATGAACTGATGAGAATAGAGCGAAGGTTGAGATAACGCCCAATTACCAAG	1499
Sbjct	1422	CACAGGACATGAACTGATGAGAATAGAGCGAAGGTTGAGATAACGCCCAATTACCAAG	1481
Query	1500	AGCCGAAGCCACCCTGGGGGGTTTTGGAAGCCTAGGACTTGATTGTGAACCGAGGACAGG	1559
Sbjct	1482	AGCCGAAGCCACCCTGGGGGGTTTTGGAAGCCTAGGACTTGATTGTGAACCGAGGACAGG	1541
Query	1560	CCTTGACTTTTTCAGATTTGTATTACTTGACTATGAATAACAAGCACTGGTTGGCTCACA	1619
Sbjct	1542	CCTTGACTTTTTCAGATTTGTATTACTTGACTATGAATAACAAGCACTGGTTGGCTCACA	1601
Query	1620	GGAGTGGTTCCACGACATTCCATTACCTTGGCACGCTGGGGCAGCACCGGAACCTCACA	1679
Sbjct	1602	GGAGTGGTTCCACGACATTCCATTACCTTGGCACGCTGGGGCAGCACCGGAACCTCACA	1661
Query	1680	CTGGAACAACAAGAAGCACTGGTAGAGTTCAAGGACGCACATGCCAAAAGGCAAACTGT	1739
Sbjct	1662	CTGGAACAACAAGAAGCACTGGTAGAGTTCAAGGACGCACATGCCAAAAGGCAAACTGT	1721
Query	1740	CGTGGTTCTAGGGAGTCAAGAAGGAGCAGTTCACACGGCCCTTGCTGGAGCTCTGGAGGC	1799
Sbjct	1722	CGTGGTTCTAGGGAGTCAAGAAGGAGCAGTTCACACGGCCCTTGCTGGAGCTCTGGAGGC	1781
Query	1800	TGAGATGGATGGTGCAAAAGGAAGGCTGTCTCTGGCCACTTGAAATGTCGCCTGAAAAT	1859
Sbjct	1782	TGAGATGGATGGTGCAAAAGGAAGGCTGTCTCTGGCCACTTGAAATGTCGCCTGAAAAT	1841
Query	1860	GGATAAACTTAGATTGAAGGGCGTGTCACTACTCCTTGTTGTACCGCAGCGTTACATTAC	1919
Sbjct	1842	GGATAAACTTAGATTGAAGGGCGTGTCACTACTCCTTGTTGTACCGCAGCGTTACATTAC	1901
Query	1920	CAAGATCCCGGCTGAAACAGTGGACGGGACAGTCACAGTGGAGGGACAGTACGGAGGGAC	1979
Sbjct	1902	CAAGATCCCGGCTGAAACACTGCACGGGACAGTCACAGTGGAGGTACAGTACGCAGGGAC	1961
Query	1980	AGATGGACCTTGCAAGGTTCCAGCTCAGATGGCGGTGGACATGCAGACTCTGACCCCACT	2039
Sbjct	1962	AGATGGACCTTGCAAGGTTCCAGCTCAGATGGCGGTGGACATGCAGACTCTGACCCCACT	2021
Query	2040	TGGGAGGTTGATAACCGCTAACCCCGTAATCACTGAAAGCACTGAGAACTCTAAGATGAT	2099

Sbjct	2022	TGGGAGGTTGATAACCGCTAACCCCGTAATCACTGAAAGCACTGAGAACTCTAAGATGAT	2081
Query	2100	GCTGGAACCTTGATCCACCATTGTTGGGACTCTTACATTGTCATAGGAGTCGGGGAGAAGAA	2159
Sbjct	2082	GCTGGAACCTTGATCCACCATTGTTGGGACTCTTACATTGTCATAGGAGTCGGGGAGAAGAA	2141
Query	2160	GATCACCCACCCTGGCACAGGAGTGGCAGCACCATTGAAAAGCATTGAAGCCACTGT	2219
Sbjct	2142	GATCACCCACCCTGGCACAGGAGTGGCAGCACCATTGAAAAGCATTGAAGCCACTGT	2201
Query	2220	GAGAGGTGCCAAGAGAATGGCAGTCTTGGGAGACACAGCCTGGGACTTTGGATCAGTTGG	2279
Sbjct	2202	GAGAGGTGCCAAGAGAATGGCAGTCTTGGGAGACACAGCCTGGGACTTTGGATCAGTTGG	2261
Query	2280	AGGCGCTCTCAACTCATTGGGCAAGGGCATCCATCAAATTATTGGAGCAGCTTCAAATC	2339
Sbjct	2262	AGGCGCTCTCAACTCATTGGGCAAGGGCATCCATCAAATTTTGGAGCAGCTTCAAATC	2321
Query	2340	ATTGTTTGGAGGAATGTCCTGGTTCTCACAATTTCTATTGGGACGTTGCTGATGTGGTT	2399
Sbjct	2322	ATTGTTTGGAGGAATGTCCTGGTTCTCACAATTTCTATTGGAACGTTGCTGATGTGGTT	2381
Query	2400	GGGTCTGAACACAAAGAATGGATCTATTTCCCTTATGTGCTTGGCCTTAGGGGGAGTGTT	2459
Sbjct	2382	GGGTCTGAACACAAAGAATGGATCTATTTCCCTTATGTGCTTGGCCTTAGGGGGAGTGTT	2441
Query	2460	GATCTTCTTATCCACAGCCGTCTCAGGTGGTGTGGGGTGCTCGGTGGACTTCTCAAAGAA	2519
Sbjct	2442	GATCTTCTTATCCACAGCTGTCTCTGCTGATGTGGGGTGCTCGGTGGACTTCTCAAAGAA	2501
Query	2520	GGAGACGAGATGCGGTACAGGGGTGTTCTGTCTATAACGATGTTGAAGCCTGGAGGGACAG	2579
Sbjct	2502	GGAGACGAGATGCGGTACAGGGGTGTTCTGTCTATAACGACGTTGAAGCCTGGAGGGACAG	2561
Query	2580	GTACAAGTACCATCCTGACTCCCCCGTAGATTGGCAGCAGCAGTCAAGCAAGCCTGGGA	2639
Sbjct	2562	GTACAAGTACCATCCTGACTCCCCCGTAGATTGGCAGCAGCAGTCAAGCAAGCCTGGGA	2621
Query	2640	AGATGGTATCTGCGGGATCTCCTCTGTTTCAAGAATGGAAAACATCATGTGGAGATCAGT	2699
Sbjct	2622	AGATGGTATCTGTGGGATCTCCTCTGTTTCAAGAATGGAAAACATCATGTGGAGATCAGT	2681
Query	2700	AGAAGGGGAGCTCAACGCAATCCTGGAAGAGAATGGAGTTCAACTGACGGTCGTTGTGGG	2759
Sbjct	2682	AGAAGGGGAGCTCAACGCAATCCTGGAAGAGAATGGAGTTCAACTGACGGTCGTTGTGGG	2741
Query	2760	ATCTGTAAAAAACCCCATGTGGAGAGGTCCACAGAGATTGCCCGTGCTGTGAACGAGCT	2819
Sbjct	2742	ATCTGTAAAAAACCCCATGTGGAGAGGTCCACAGAGATTGCCCGTGCTGTGAACGAGCT	2801
Query	2820	GCCCCACGGCTGGAAGGCTTGGGGGAAATCGTACTTCGTCAGAGCAGCAAAGACAAATAA	2879
Sbjct	2802	GCCCCACGGCTGGAAGGCTTGGGGGAAATCGTACTTCGTCAGAGCAGCAAAGACAAATAA	2861
Query	2880	CAGCTTTGTCTGGGATGGTGACACACTGAAGGAATGCCCACTCAAACATAGAGCATGGAA	2939
Sbjct	2862	CAGCTTTGTCTGGGATGGTGACACACTGAAGGAATGCCCACTCAAACATAGAGCATGGAA	2921
Query	2940	CAGCTTTCTTGTGGAGGATCATGGGTTGCGGGTATTTACACTAGTGTCTGGCTCAAGGT	2999
Sbjct	2922	CAGCTTTCTTGTGGAGGATCATGGGTTGCGGGTATTTACACTAGTGTCTGGCTCAAGGT	2981
Query	3000	TAGAGAAGACTATTGGTTAGAGTGTGATCCAGCCGTTATTGGAACAGCTGTTAAGGGAAA	3059
Sbjct	2982	TAGAGAAGATTATTATTAGAGTGTGATCCAGCCGTTATTGGAACAGCTGTTAAGGGAAA	3041
Query	3060	GGAGGCTGTACACAGTGATCTAGGCTACTGGATTGAGAGTGAGAAGAATGACACATGGTG	3119
Sbjct	3042	GGAGGCTGTACACAGTGATCTAGGCTACTGGATTGAGAGTGAGAAGAATGACACATGGAG	3101
Query	3120	GCTGAAGAGGGCCCATCTGATCGAGATGAAAACATGTGAATGGCCAAAGTCCCACACATT	3179
Sbjct	3102	GCTGAAGAGGGCCCATCTGATCGAGATGAAAACATGTGAATGGCCAAAGTCCCACACATT	3161
Query	3180	GTGGACAGATGGAATAGAAGAGAGTGATCTGATCATACCCAAGTCTTTAGCTGGGCCACT	3239
Sbjct	3162	GTGGACAGATGGAATAGAAGAGAGTGATCTGATCATACCCAAGTCTTTAGCTGGGCCACT	3221
Query	3240	CAGCCATCACAAATGCCAGAGAGGGCTACAGGACCCAAATGAAAGGGCCATGGCACAGTGA	3299
Sbjct	3222	CAGCCATCACAAATACCAGAGAGGGCTACAGGACCCAAATGAAAGGGCCATGGCACAGTGA	3281
Query	3300	AGAGCTTGAAATTCGGTTTGGAGGAATGCCAGGCACTAAGGTCCACGTGGAGGAAACATG	3359
Sbjct	3282	AGAGCTTGAAATTCGGTTTGGAGGAATGCCAGGCACTAAGGTCCACGTGGAGGAAACATG	3341
Query	3360	TGGAACAAGAGGACCATCTCTGAGATCAACCACTGCAAGCGGAAGGGTGATCGAGGAATG	3419
Sbjct	3342	TGGAACAAGAGGACCATCTCTGAGATCAACCACTGCAAGCGGAAGGGTGATCGAGGAATG	3401

Query	3420	GTGCTCCAGGGAGTGCACAATGCCCCACTGTCTTCCAGGCTAAAGATGGCTGTTGGTA	3479
Sbjct	3402	GTGCTGCAGGGAGTGCACAATGCCCCACTGTCTTCCGGGCTAAAGATGGCTGTTGGTA	3461
Query	3480	TGGAATGGAGATAAGGCCAGGAAAGAACAGAAAGCAACTTAGTAAGGTCAATGGTGAC	3539
Sbjct	3462	TGGAATGGAGATAAGGCCAGGAAAGAACAGAAAGTAACCTAGTAAGGTCAATGGTGAC	3521
Query	3540	TGCAGGATCAACTGATCACATGGATCACTTCTCCCTTGGAGTGCTTGTGATTCTGCTCAT	3599
Sbjct	3522	TGCAGGATCAACTGATCACATGGATCACTTCTCCCTTGGAGTGCTTGTGATTCTGCTCAT	3581
Query	3600	GGTGCAGGAAGGGCTGAAGAAGAGAAATGACCACAAAGATCATCATAAGCACATCAATGGC	3659
Sbjct	3582	GGTGCAGGAAGGGCTGAAGAAGAGAAATGACCACAAAGATCATCATAAGCACATCGATGGC	3641
Query	3660	AGTGCTGGTAGCTATGATCCTGGGAGGATTTTCAATGAGTGACCTGGCTAAGCTTGCAAT	3719
Sbjct	3642	AGTGCTGGTAGCTATGATCCTGGGAGGATTTTCAATGAGTGACCTGGCTAAGCTTGCAAT	3701
Query	3720	TTTGATGGGTGCCACCTTCGCGGAAATGAACACTGGAGGAGATGTAGCTCATCTGGCGCT	3779
Sbjct	3702	TTTGATGGGTGCCACCTTCGCGGAAATGAACACTGGAGGAGATGTAGCTCATCTGGCGCT	3761
Query	3780	GATAGCGGCATTCAAAGTCAGACCAGCGTTGCTGGTATCTTTCATCTTCAGAGCTAATTG	3839
Sbjct	3762	GATAGCGGCATTCAAAGTCAGACCAGCGTTGCTGGTATCTTTCATCTTCAGAGCTAATTG	3821
Query	3840	GACACCCCGTGAAAGCATGCTGCTGGCCTTGGCCTCGTGTCTTTTGCAAACCTGCGATCTC	3899
Sbjct	3822	GACACCCCGTGAAAGCATGCTGCTGGCCTTGGCCTCGTGTCTTTTGCAAACCTGCGATCTC	3881
Query	3900	CGCCTTGGGAAGGCGACCTGATGGTTCTCATCAATGGTTTTGCTTTGGCCTGGTTGGCAAT	3959
Sbjct	3882	CGCCTTGGGAAGGCGACCTGATGGTTCTCATCAATGGTTTTGCTTTGGCCTGGTTGGCAAT	3941
Query	3960	ACGAGCGATGGTTGTTCCACGCACTGATAACATCACCTTAGCAATCCTGGCTGCTCTGAC	4019
Sbjct	3942	ACGAGCGATGGTTGTTCCACGCACTGATAACATCACCTTAGCAATCCTGGCTGCTCTGAC	4001
Query	4020	ACCACTGGCCCGGGGCACACTGCTTGTGGCGTGGAGAGCAGGCCTTGCTACTTGCGGGGG	4079
Sbjct	4002	ACCACTGGCCCGGGGCACACTGCTTGTGGCGTGGAGAGCAGGCCTTGCTACTTGCGGGGG	4061
Query	4080	GTTTATGCTCCTCTCTCTGAAGGGAAAGGAGTGTGAAGAAGAACTTACCATTGTGCAT	4139
Sbjct	4062	GTTTATGCTCCTCTCTCTGAAGGGAAAGGAGTGTGAAGAAGAACTTACCATTGTGCAT	4121
Query	4140	GGCCCTGGGACTAACCCTGTGAGGCTGGTCGACCCCATCAACGTGGTGGGACTGCTGTT	4199
Sbjct	4122	GGCCCTGGGACTAACCCTGTGAGGCTGGTCGACCCCATCAACGTGGTGGGACTGCTGTT	4181
Query	4200	GCTCACAAGGAGTGGGAAGCGGAGCTGGCCCCCTAGCGAAGTACTCACAGCTGTTGGCCT	4259
Sbjct	4182	GCTCACAAGGAGTGGGAAGCGGAGCTGGCCCCCTAGCGAAGTACTCACAGCTGTTGGCCT	4241
Query	4260	GATATGCGCATTGGCTGGAGGGTTCGCCAAGGCAGATATAGAGATGGCTGGGCCCATGGC	4319
Sbjct	4242	GATATGCGCATTGGCTGGAGGGTTCGCCAAGGCAGATATAGAGATGGCTGGGCCCATGGC	4301
Query	4320	CGCGGTGGTCTGCTAATTGTGAGTTACGTGGTCTCAGGAAAGAGTGTGGACATGTACAT	4379
Sbjct	4302	CGCGGTGGTCTGCTAATTGTGAGTTACGTGGTCTCAGGAAAGAGTGTGGACATGTACAT	4361
Query	4380	TGAAAGAGCAGGTGACATCACATGGGAAAAAGATGCGGAAGTCACTGGAAACAGTCCCCG	4439
Sbjct	4362	TGAAAGAGCAGGTGACATCACATGGGAAAAAGATGCGGAAGTCACTGGAAACAGTCCCCG	4421
Query	4440	GCTCGATGTGGCGTAGATGAGAGTGGTGATTTCTCCCTGGTGGAGGATGACGGTCCCCC	4499
Sbjct	4422	GCTCGATGTGGCGTAGATGAGAGTGGTGATTTCTCCCTGGTGGAGGATGACGGTCCCCC	4481
Query	4500	CATGAGAGAGATCATACTCAAGGTGGTCTGATGACCATCTGTGGCATGAACCCAATAGC	4559
Sbjct	4482	CATGAGAGAGATCATACTCAAGGTGGTCTGATGACCATCTGTGGCATGAACCCAATAGC	4541
Query	4560	CATACCCCTTTGAGCTGGAGCGTGGTACGTATACGTGAAGACTGGAAAAAGGAGTGGTGC	4619
Sbjct	4542	CATACCCCTTTGAGCTGGAGCGTGGTACGTATACGTGAAGACTGGAAAAAGGAGTGGTGC	4601
Query	4620	TCTATGGGATGTGCTGCTCCCAAGGAAGTAAAAAAGGGGGAGACCACAGATGGAGTGTA	4679
Sbjct	4602	TCTATGGGATGTGCTGCTCCCAAGGAAGTAAAAAAGGGGGAGACCACAGATGGAGTGTA	4661
Query	4680	CAGAGTAATGACTCGCAGACTGCTAGGTTCAACACAAGTTGGAGTGGGAGTTATGCAAGA	4739
Sbjct	4662	CAGAGTAATGACTCGTAGACTGCTAGGTTCAACACAAGTTGGAGTGGGAGTTATGCAAGA	4721
Query	4740	GGGGGTCTTTCACACTATGTGGCACGTCACAAAAGGATCCGCGCTGAGAAGCGGTGAAGG	4799
Sbjct	4722	GGGGGTCTTTCACACTATGTGGCACGTCACAAAAGGATCCGCGCTGAGAAGCGGTGAAGG	4781

Query	4800	GAGACTTGATCCATACTGGGAGATGTCAAGCAGGATCTGGTGTCTACTGTGGTCCATG	4859
Sbjct	4782	GAGACTTGATCCATACTGGGAGATGTCAAGCAGGATCTGGTGTCTACTGTGGTCCATG	4841
Query	4860	GAAGCTAGATGCCGCTGGGACGGGCACAGCGAGGTGCAGCTCTTGGCCGTGCCCCCGG	4919
Sbjct	4842	GAAGCTAGATGCCGCTGGGACGGGCACAGCGAGGTGCAGCTCTTGGCCGTGCCCCCGG	4901
Query	4920	AGAGAGAGCGAGGAACATCCAGACTCTGCCCGGAATATTTAAGACAAAGGATGGGGACAT	4979
Sbjct	4902	AGAGAGAGCGAGGAACATCCAGACTCTGCCCGGAATATTTAAGACAAAGGATGGGGACAT	4961
Query	4980	TGGAGCGGTTGCACTGGATTACCCAGCAGGAACCTCAGGATCTCCAATCCTAGACAAGTG	5039
Sbjct	4962	TGGAGCGGTTGCGCTGGATTACCCAGCAGGAACCTCAGGATCTCCAATCCTAGACAAGTG	5021
Query	5040	TGGGAGAGTGATAGGACTTTATGGCAATGGGGTCGTGATCAAAAATGGGAGTTATGTTAG	5099
Sbjct	5022	TGGGAGAGTGATAGGACTTTATGGCAATGGGGTCGTGATCAAAAATGGGAGTTATGTTAG	5081
Query	5100	TGCCATCACCCAAGGGAGGAGGGAGGAAGAGACTCCTGTTGAGTGCTTCGAGCCTTCGAT	5159
Sbjct	5082	TGCCATCACCCAAGGGAGGAGGGAGGAAGAGACTCCTGTTGAGTGCTTCGAGCCTTCGAT	5141
Query	5160	GCTGAAGAAGAAGCAGCTAACTGTCTTAGACTTGCATCCTGGAGCTGGGAAAACAGGAG	5219
Sbjct	5142	GCTGAAGAAGAAGCAGCTAACTGTCTTAGACTTGCATCCTGGAGCTGGGAAAACAGGAG	5201
Query	5220	AGTTCTTCTGAAATAGTCGCTGAAGCCATAAAAACAAGACTCCGTAAGTGTGATCTTGGC	5279
Sbjct	5202	AGTTCTTCTGAAATAGTCGCTGAAGCCATAAAAACAAGACTCCGTAAGTGTGATCTTAGC	5261
Query	5280	TCCAACCAGGGTTGTCGCTGCTGAAATGGAGGAGGCCCTTAGAGGGCTTCCAGTGCGTTA	5339
Sbjct	5262	TCCAACCAGGGTTGTCGCTGCTGAAATGGAGGAAGCCCTTAGAGGGCTTCCAGTGCGTTA	5321
Query	5340	TATGACAACAGCAGTCAATGTCAACCACTCTGGAACAGAAATCGTCGACTTAATGTGCCA	5399
Sbjct	5322	TATGACAACAGCAGTCAATGTCAACCACTCTGGAACAGAAATCGTCGACTTAATGTGCCA	5381
Query	5400	TGCCACCTTCACTTACAGTCTACTACAGCCAATTAGAGTCCCAACTATAATCTGTATAT	5459
Sbjct	5382	TGCCACCTTCACTTACAGTCTACTACAGCCAATCAGAGTCCCAACTATAATCTGTATAT	5441
Query	5460	TATGGATGAGGCCCACTTACAGATCCCTCAAGTATAGCAGCAAGAGGATACATTTCAAC	5519
Sbjct	5442	TATGGATGAGGCCCACTTACAGATCCCTCAAGTATAGCAGCAAGAGGATACATTTCAAC	5501
Query	5520	AAGGGTTGAGATGGGCGAGGCGGCTGCCATCTTCATGACCGCCACGCCACCAGGAACCCG	5579
Sbjct	5502	AAGGGTTGAGATGGGCGAGGCGGCTGCCATCTTCATGACCGCCACGCCACCAGGAACCCG	5561
Query	5580	TGACGCATTTCCGGACTCCAACCTACCAATTATGGACACCGAAGTGGAAAGTCCAGAGAG	5639
Sbjct	5562	TGACGCATTTCCGGACTCCAACCTACCAATTATGGACACCGAAGTGGAAAGTCCAGAGAG	5621
Query	5640	AGCCTGGAGCTCAGGCTTTGATTGGGTGACGGAGTATTCTGGAAAAACAGTTTGGTTTGT	5699
Sbjct	5622	AGCCTGGAGCTCAGGCTTTGATTGGGTGACGGATATTCTGGAAAAACAGTTTGGTTTGT	5681
Query	5700	TCCACGCGTGAGGAACGGCAATGAGATCGCAGCTTGTCTGACAAAGGCTGGAAAAACGGGT	5759
Sbjct	5682	TCCAAGCGTGAGGAACGGCAATGAGATCGCAGCTTGTCTGACAAAGGCTGGAAAAACGGGT	5741
Query	5760	CATACAGCTCAGCAGAAAGACTTTTGAGACAGAGTTCCAGAAAAACAAACATCAAGAGTG	5819
Sbjct	5742	CATACAGCTCAGCAGAAAGACTTTTGAGACAGAGTTCCAGAAAAACAAACATCAAGAGTG	5801
Query	5820	GGACTTTGTCTGTGACAACTGACATTTAGAGATGGGCGCAACTTTAAAGCTGACCGTGT	5879
Sbjct	5802	GGACTTTGTCTGTGACAACTGACATTTAGAGATGGGCGCAACTTTAAAGCTGACCGTGT	5861
Query	5880	CATAGATTCAGGAGATGCCTAAAGCCGGTCATACTTGGTGGCGAGAGAGTCATTCTGGC	5939
Sbjct	5862	CATAGATTCAGGAGATGCCTAAAGCCGGTCATACTTGGTGGCGAGAGAGTCATTCTGGC	5921
Query	5940	TGGACCCATGCCTGTCACACATGCCAGCGCTGCCAGAGGAGGGGGCGCATAGGCAGGAA	5999
Sbjct	5922	TGGACCCATGCCTGTCACACATGCCAGCGCTGCCAGAGGAGGGGGCGCATAGGCAGGAA	5981
Query	6000	TCCCAACAAACCTGGAGATGAGTATCTGTATGGAGGTGGGTGCGCAGAGACTGACGAAGA	6059
Sbjct	5982	TCCCAACAAACCTGGAGATGAGTATCTGTATGGAGGTGGGTGCGCAGAGACTGACGAAGA	6041
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Sbjct	6042	CCATGCACACTGGCTTGAAGCAAGAATGCTCCTTGACAATATTTACCTCCAAGATGGCCT	6101
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Taxonomy

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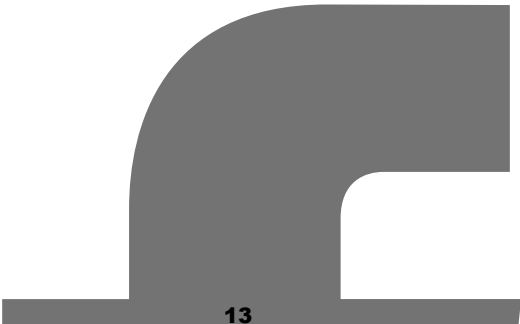
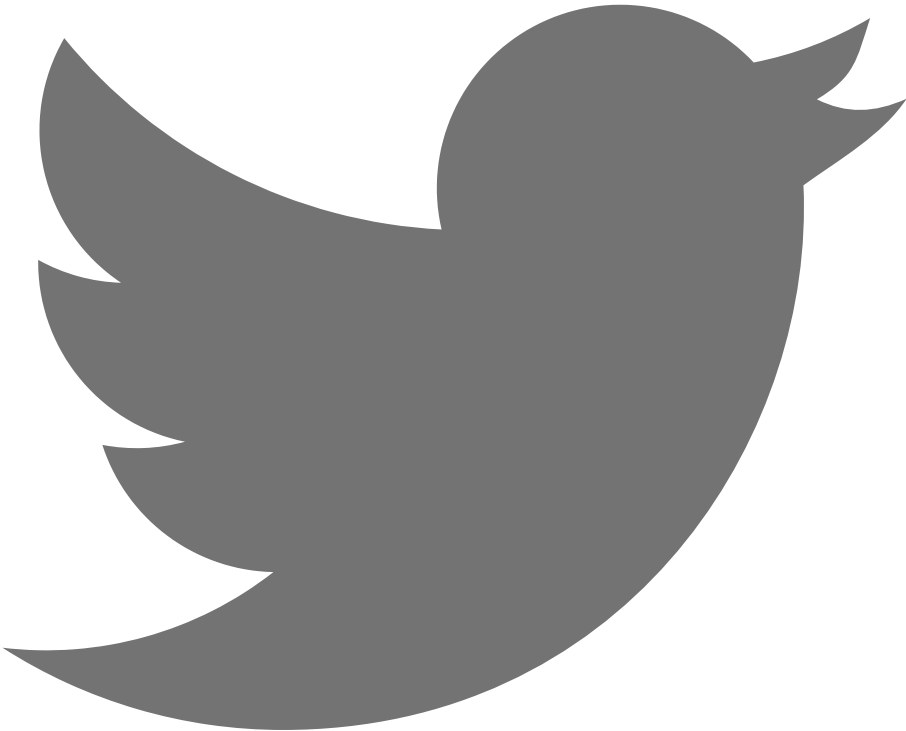
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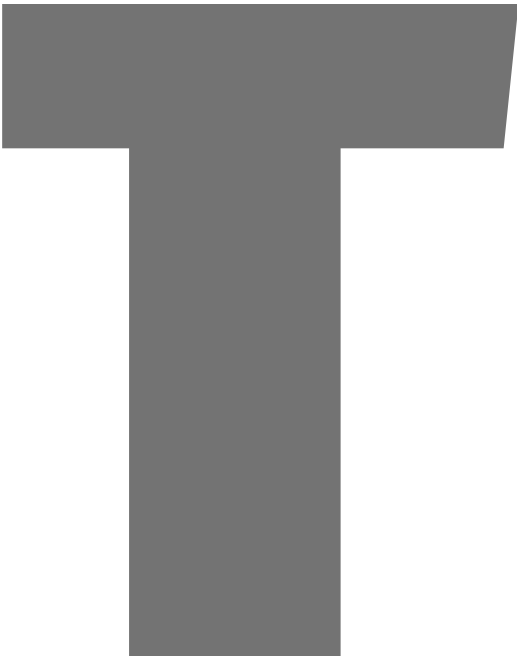
Dot Plot

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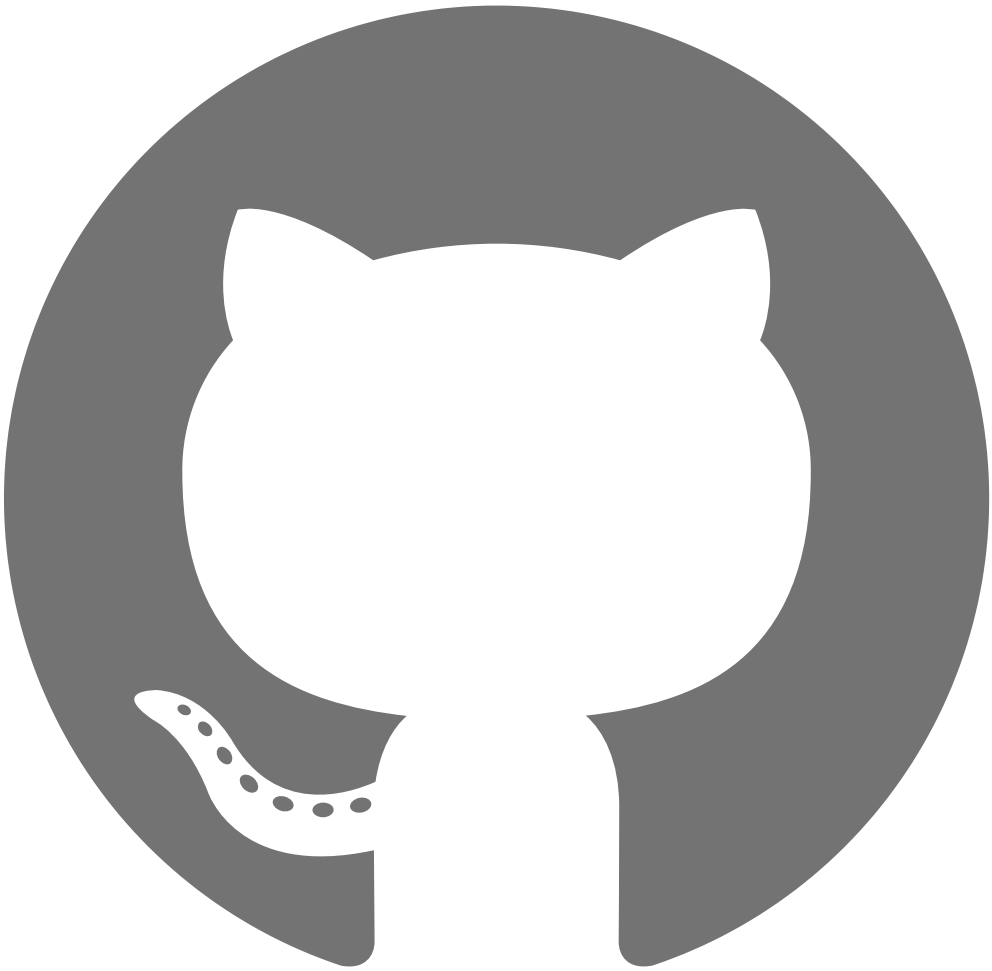
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