

Supplemental material: Materials and Methods

Plant materials

Table S1 lists the lines used for sequencing. Maize lines included seven tropical and seven temperate inbreds, chosen to represent broad simple sequence repeat (SSR) diversity (1). For each locus, two maize lines, Mo17 and B73, were sequenced twice to examine error rates. The sixteen teosinte accessions were widely geographically distributed from across the species' range. Teosinte accessions were partially inbred by two generations of self-fertilization.

Sequencing

A total of 1000 genes were selected for sequencing from the Maize Mapping Project/Dupont Unigene set. PCR primers were designed on the 3' UTR using Primer3 (http://frodo.wi.mit.edu/primer3/primer3_code.html). Touchdown PCR was performed for each locus, and PCR was cleaned by ethanol precipitation prior to sequencing. PCR products were sequenced directly using both forward and reverse primers with BigDye v3.1. Reactions were run on ABI 3100 or 3700 sequencers. Base calling, quality checks and sequence assembly were conducted using PHRED and PHRAP (2, 3). Multiple sequence alignments were made using ClustalW (4), followed by manual editing. Sequences have been submitted to Genbank (BV123534-BV144210; BV446558-BV447590) and are available at www.panzea.org.

Based on loci where replicate sequences were successful, we estimated an error rate of 6.5×10^{-5} per base pair without regard to PHRAP quality scores. However, for SNP

analyses, we considered only variants with a minimum PHRAP quality score > 20. Using these criteria, we identified zero errors in 260,981 bp of sequence comparisons between replicates, suggesting our dataset has an error rate very close to zero ($< 3.8 \times 10^{-6}$ errors per bp) under these conditions.

From our sample of 1000 loci, 793 loci had a sample size of at least 5 individuals for each taxon (Supplemental Table 1). Of these, 19 had zero diversity in teosinte, and these were excluded from further analysis. For the remaining 774 loci, the average sample size for these loci was 12 for maize and 12.7 for teosinte. We only analyzed sites without gaps. Excluding gaps, the aligned regions ranged from 78 to 870 bp in length, with an average of 295 bp.

Sequence Analysis

Values of Watterson's estimator of θ (5), Tajima's D (6), h (number of haplotypes), R_m (minimum number of recombination events) (7), and S (number of segregating sites) were calculated for each locus using programs written in perl (Table S2). The population recombination parameter ρ was estimated using Hudson's (8) composite likelihood estimator, as implemented in the program maxhap. For Figure 2, only those loci with 9 or more segregating sites in both the observed and simulated datasets were plotted, because the estimator has extremely high bias with a smaller number of segregating sites (8).

Simulations and likelihood approach

Coalescent simulations were run using a modified version of Hudson's ms (9) program. We modeled the divergence of two populations, representing teosinte and maize, with a population bottleneck in maize (10). The goal of these simulations was to estimate the bottleneck severity that best explains the maize data.

We used rejection-sampling to condition our simulations on the observed teosinte data. Our reasoning was that the unknown and unknowable demographic history of teosinte is captured in observed sequence data; by fitting simulated data to the observed data, our simulations capture much of the demographic history of each locus. Conditioning on teosinte data also controls for variation in coalescent history, mutation rate and recombination rate across loci.

The bottleneck model has six parameters (Figure S1):

1) N_a , the ancestral population size, in number of chromosomes, prior to the split of teosinte and maize. We assumed that N_a equals the present population size of teosinte, which we estimated to be 900,000 chromosomes, based on the average from previous studies (11, 12). Under our model, N_a scales with the mutation rate μ for each locus, and thus the absolute value of N_a has little effect on estimation of the bottleneck severity (Figure S2).

2) u_i , the mutation rate at locus i . The mutation rate for each locus was estimated using Watterson's (θ_w) estimator of the population-mutation parameter from teosinte data for each locus, where $\theta_{w,i} = 4N_a u_i$. Thus, mutation rates varied among loci as a function of observed levels of teosinte diversity.

3) t , the time of the split between maize and teosinte. Estimates of the time of domestication of maize vary in the literature from 6000 years before present to 9000

years before present. In our model, t scales with population size, and thus variation in empirical measures of t represents a very minor degree of uncertainty in our simulations (Figure S2). We therefore fixed t at the midpoint of 7500 years, as this value has precedence and support from archaeological arguments (10, 13).

4) N_p , the present size of maize. Previous simulation results indicate that varying N_p by as much as an order of magnitude has little effect on diversity levels given the short time frame since the bottleneck (10, 11). We therefore fixed N_p equal to $N_a=900,000$ in our full model. We also verified that N_p has little effect on the estimation of likelihoods (data not shown).

5) r_i , the rate of recombination at each locus i . Because of inherent uncertainty in recombination rates, we used a rejection sampling approach to incorporate this uncertainty into our simulations (see below for details).

6) k , the severity of the bottleneck. k is the ratio of N_b , the number of chromosome in the maize population during the bottleneck, to d , the duration of the maize population bottleneck. Previous work has shown that the ratio $k = N_b/d$ measures the strength of the bottleneck and represents the crucial parameter determining patterns of diversity. In practice, we fixed d at 1000, chosen to represent a reasonable intermediate value (10), and varied N_b to fit the strength of the population bottleneck.

For each of the 774 genes, simulations proceeded as follows. Given assumed parameter values (see above) and observed sample sizes in maize and teosinte, a value of the population-recombination parameter $\rho (=4Nr)$ was chosen from a uniform distribution between 0 and 0.1 per base pair. The high-end of this range was purposefully

truncated to ensure both that recombination estimates were not overestimated and that test statistics for selection were conservative. Given a random value of ρ , diversity statistics were collected for simulated teosinte data. Simulated statistics were then compared with the observed data in teosinte. The simulation was accepted if the number of haplotypes (h), the minimum number of recombination events (Rm), and the number of segregating sites (S) all fell within 20% (11, 14) of the observed teosinte statistics; otherwise, we rejected the simulation. If the simulation was accepted, we collected diversity statistics for both maize and teosinte. This method continued until 1000 successful simulations were tallied for each locus i for a given value of the bottlenecked stringency k . For all but three loci, simulations were carried out for 17 values of k , ranging from 0.001 to 3.65. For the other three loci, no simulations were generated that fit the summary statistics in teosinte, and thus these were removed from further consideration.

The likelihood (L) of k given the number of segregating sites in maize at locus i was then estimated using the proportion p of simulations that fit the observed number of segregating sites at locus i :

$$L_i(k | S_i) \approx p_i(S_i | k)$$

(Note that for each locus L_i is also conditioned on the model and on the teosinte data, but both are omitted from equations for clarity.) The full multi-locus likelihood was estimated as the product of the locus likelihoods:

$$L_{multilocus} = \prod_{i=1}^n L_i$$

Note that this assumes independence across loci, which is reasonable considering that genes were sampled randomly across the genome and the vast majority is unlinked. The multilocus maximum likelihood across the 17 values of k then approximates the maximum likelihood (ML) estimate of k . For cases where no simulations at locus i fit the observed S , we assumed a p value of 10^{-3} for the multilocus analysis, i.e. we assumed that 1 in 1000 simulations fit the observed to avoid zero values. Although this inflates the likelihood for unusual models, analysis of 10,000 simulations for a subset of models suggests that this has little effect on the likelihood surface, or on our inference of selection (data not shown). Although it is difficult to adequately explore the likelihood surface with our simulation approach, we simulated a number of k values close to the peak of the likelihood surface and also used 10,000 simulations to evaluate significance of the two class model (Figure 2A). As a result, our grid is sufficiently fine to ensure that we were close to the best-fit model.

We modeled the bottleneck using S as the criterion for fitting maize data for several reasons. First, previous studies have shown that S gives a reliable method to infer bottleneck parameters, while other statistics give greater uncertainty in parameter estimation (10, 11). Second, the clearest signal of selection in small sequence fragments will be the presence of little or no polymorphism, thus other summary statistics (such as LD) have little power to detect departures from the neutral bottleneck. Finally, use of joint likelihoods across multiple summaries of the data would require a computationally unfeasible number of simulations for our large dataset using a rejection algorithm.

To test for selection, we introduced an alternative model that allows a proportion f of loci to have a different value of k from the rest of the genes. The likelihood of this model for locus i is then calculated as (15, 16):

$$L_i = (1 - f)L(k_1 | S_i) + fL(k_2 | S_i)$$

And the multilocus likelihood is:

$$L_{multilocus} = \prod_{i=1}^n L_i$$

We tested all possible pairwise models from our simulated data, across a fine grid of possible values of f . The ML of the two-class model was then compared with the ML of the 1-class model. Significance was assessed using the χ^2 approximation, using twice the difference in log likelihoods between the 1- and 2-class models, with one degree of freedom. Simulated datasets using the same bottleneck model, but generated independently of the likelihood simulations, demonstrate that significant support for the 2-class model is not expected when a single bottleneck has occurred (Figure 2B).

Approximate Bayesian posterior probabilities (PP) for each locus being in the severe bottlenecked (i.e. ‘selected’) class 1 were calculated (15, 16), using the maximum likelihood estimates of f , k_1 and k_2 :

$$PP_i(k_2) = \frac{fp(S_i | k_2)}{fp(S_i | k_2) + (1 - f)p(S_i | k_1)}$$

As a proof-of-principle, Bayesian posterior probabilities were also calculated using simulations based on data from a previous study of the *tb1* locus (17). The *tb1* data represent a noncoding fragment of 2686 bp near the center of the selective sweep (position 45.8).

Annotation of Candidate genes

We submitted candidate genes to a BLASTx search (18) of the *Arabidopsis thaliana* genome, and used the annotation from the highest matching hit. For loci that showed no match to Arabidopsis with a BLAST alignment score cutoff of 80, we checked for similarity to proteins in rice, and used this annotation when a significant match was identified.

QTL analysis

Genetic map positions for 638 of our 774 genes (83%) were inferred based on their assignment by overgo hybridization (19) to anchored contigs on the integrated genetic and physical map for maize (iMAP, www.maizemap.org). We estimated the closest genetic distance of each of these loci to the nearest QTL identified by Doebley and Stec (20, 21). We used a permutation test to assess whether the mean distance from the nearest QTL was significantly lower for the n candidate genes, where n was the number of genes in the test. Using 100,000 permutations, we randomly selected without replacement mean distances from n genes throughout the genome, and calculated the proportion of samples that had a mean as low or lower than the observed for the n candidates.

Figure Legend S1: The coalescent model and its parameters. A full description of the parameters is provided in the text.

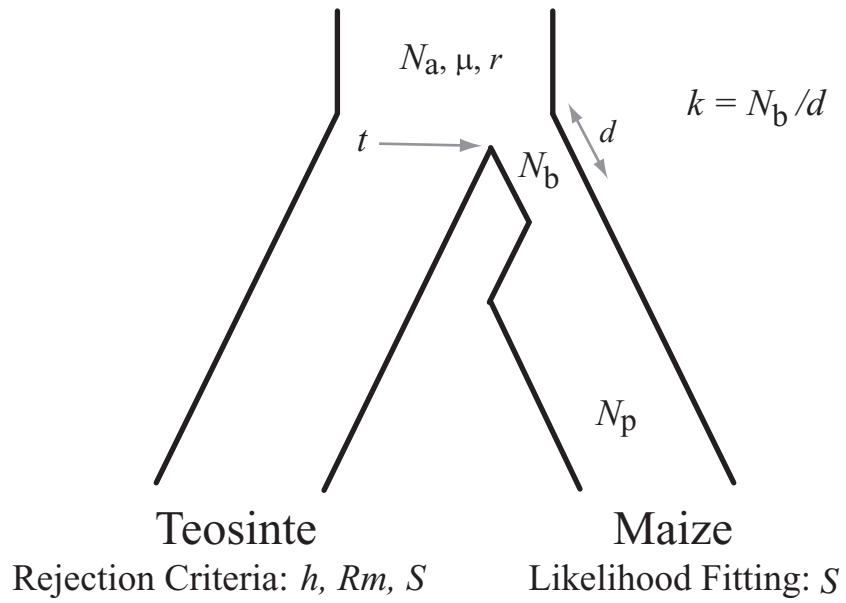
Figure Legend S2: Graphs of the effects of parameter assumptions for N_a (top panel) and t (bottom panel) on likelihood estimates. For each panel, the x-axis was the value used in full analyses and the y-axis was an alternative value used to evaluate the robustness of the method. Squares represent genes, plotted with respect to the estimated likelihood when $k = 2.45$. The diagonal line represents a slope of 1.0. The graphs indicate that varying N_a from 900,000 to 1,800,000 (or t from 7500 to 9000) have little effect on likelihood estimation for individual genes and also little effect on the multilocus likelihood. Similar results were obtained when N_a was assumed to be 450,000, when t was assumed to be 6000, or when N_p was assumed to be either 450,000 or 1,800,000 (data not shown). We also analyzed the two class model ($k = 2.45$ and $k = 0.15$) when N_a and N_p were assumed to be 450,000 and 1,800,000 and when $t = 6000$ and 9000. In all six cases, the two-class model was significantly more likely than the one class model, with estimates of f ranging from = 0.022 to 0.031.

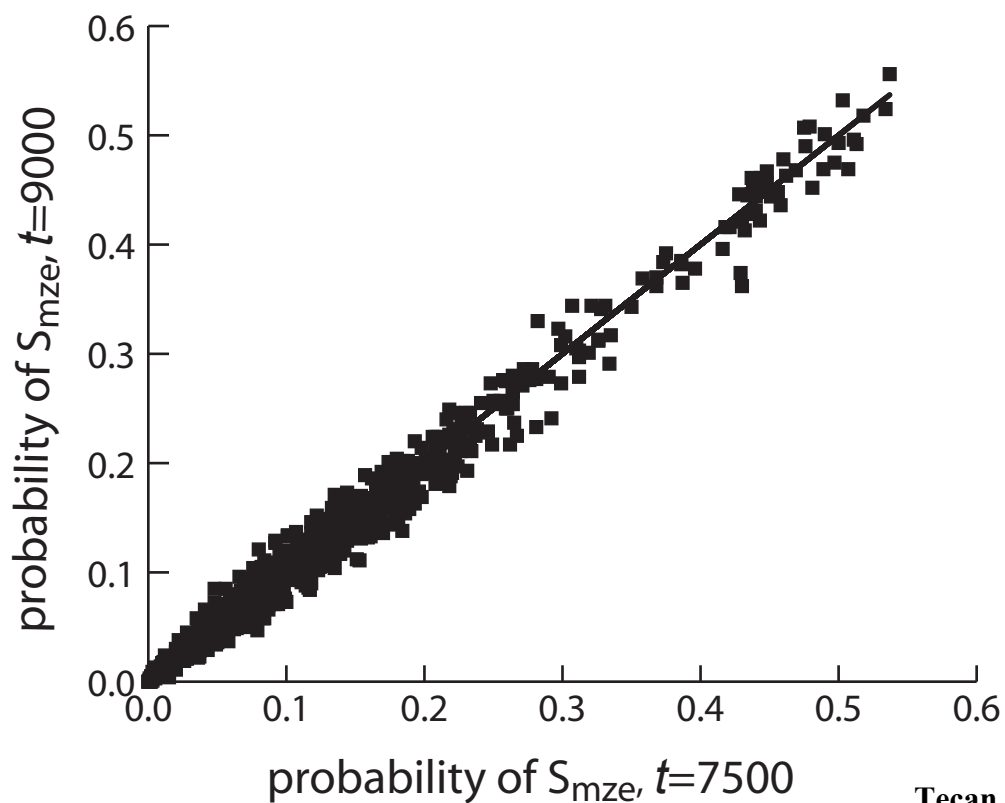
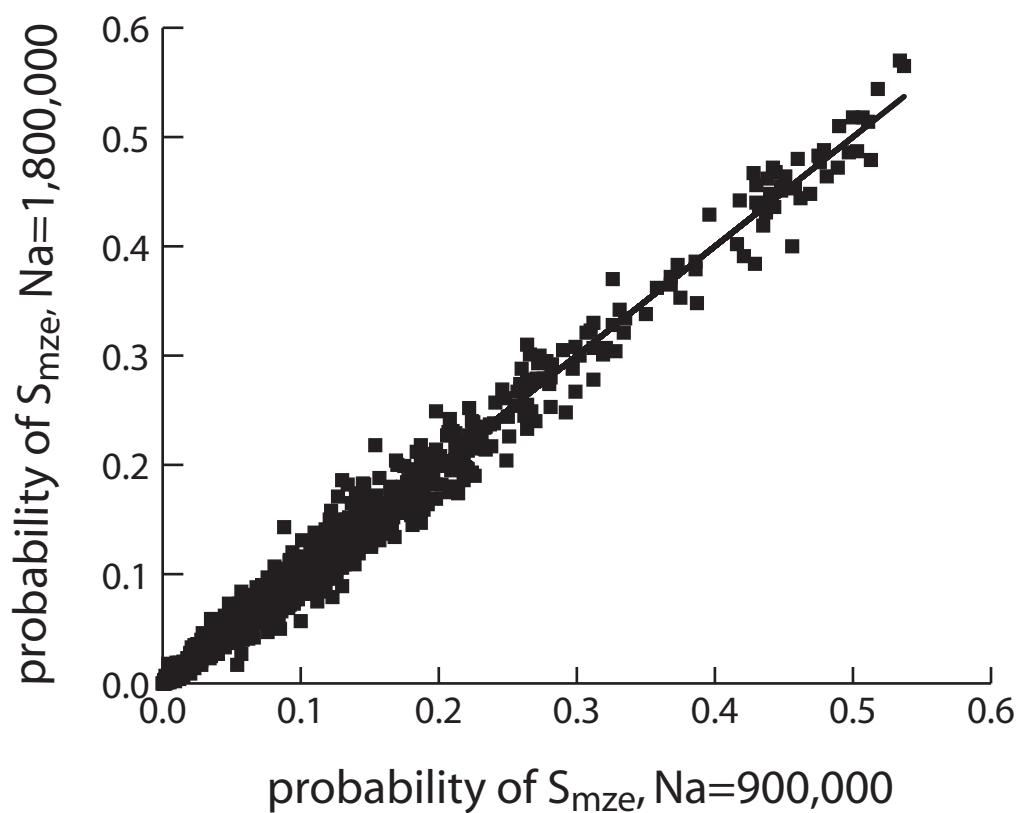
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Figure S1:





Supplementary Table 1. Plant materials used in this study

Type	Inbred (accession or type)	Origin
<i>Zea mays</i> ssp. <i>mays</i>	B73 (temperate)	Iowa, USA
	Hp301 (temperate)	Indiana, USA
	Il14H (temperate)	Illinois, USA
	Ky21 (temperate)	Kentucky, USA
	M37W (temperate)	South Africa
	Mo17 (temperate)	Missouri, USA
	Oh43 (temperate)	Ohio, USA
	CML69 (tropical)	Mexico
	CML247 (tropical)	Mexico
	CML322 (tropical)	Mexico
	CML333 (tropical)	Mexico
	Ki3 (tropical)	Thailand
	Ki11 (tropical)	Thailand
	NC350 (tropical)	North Carolina, USA
Teosinte	Balsas (CIMMYT 8783)	Mexico
<i>Zea mays</i> spp. <i>parviglumis</i>	Balsas (CIMMYT 11355)	Mexico
	Balsas (INIFAP JSG 374)	Mexico
	Balsas (INIFAP JSG 378)	Mexico
	Balsas (INIFAP JSP y Lo5130)	Mexico
	Balsas (INIFAP JSG y LOS 109)	Mexico
	Balsas (INIFAP JSG y LOS 119)	Mexico
	Balsas (INIFAP JSG y LOS 161)	Mexico
	Balsas (USDA PI566686)	Mexico
	Balsas (Beadle & KatoSite 4)	Mexico
	Balsas (Kato Site 4)	Mexico
	Balsas (Wilkes Site 6)	Mexico
	Jalisco (Benz 967)	Mexico
	Jalisco (INIFAP JSG y MAS 264)	Mexico
	Jalisco (INIFAP JSG y MAS 401)	Mexico
	Oaxaca (INIFAP JSG 197)	Mexico

PZA00625	AY112161	CL7520_-1	Chr7	278	0.00092434	14	16	269	1	1	0.001168967	0.001120318	0.000531067	0.001208178	-1.155241342	0.155745965
PZA00629	AY112154	CL18725_-2	Chr5	260.2	0.77455566	13	13	381	0	27	0	0.022836394	0	0.017094017	0	-1.096681788
PZA00631	AY112148	CL62029_1	Chr5	160.6	0.00071765	13	13	354	24	41	0.021847247	0.03732238	0.023830219	0.036143706	0.393092754	-0.140466484
PZA00633	AY112145	CL13386_1	Chr4	565.4	0.00051131	14	15	297	8	21	0.008470092	0.021745568	0.012173012	0.015648549	1.648540069	-1.152809658
PZA00635	AY112119	CL11935_1	0	-1	0.00219191	8	10	677	40	46	0.022787293	0.024018235	0.030544419	0.024749713	1.821222624	0.148496645
PZA00643	AY112087	CL31088_1	Chr5	314.6	0.00079393	13	11	295	8	7	0.008738899	0.008101424	0.01025641	0.009738059	0.672568364	0.819778121
PZA00644	AY112085	CL10793_2	Chr4	218.5	0.00030107	13	14	244	8	16	0.010565472	0.020619815	0.006830601	0.016123221	-1.369139977	-0.894674744
PZA00646	AY112083	CL11835_1	Chr4	411.3	0.47353639	12	8	379	0	8	0	0.008140896	0	0.006125141	0	-1.197396554
PZA00648	AY112075	CL52019_1	Chr2	92.6	0.00074633	9	14	480	12	29	0.009198423	0.018998153	0.00625	0.017078755	-1.51869325	-0.432695315
PZA00650	AY112056	CL3099_1	Chr1	532.8	0.0247653	13	11	156	1	6	0.002065685	0.013131429	0.001808021	0.012121212	-0.274290186	-0.30455617
PZA00652	AY112055	CL23597_2	Chr5	500.1	0.00049113	14	15	307	7	14	0.007169919	0.014024829	0.010953216	0.011850473	1.947053889	-0.614557254
PZA00654	AY112046	CL3471_2	Chr1	205	0.00011454	14	15	204	2	3	0.003082865	0.004522713	0.001993105	0.003081232	-0.959193915	-0.948075317
PZA00660	AY112043	CL52296_1	Chr1	507.5	0.00044438	13	13	257	8	11	0.010031032	0.013792669	0.008181183	0.008480495	-0.714252396	-1.556832318
PZA00661	AY112035	CL28146_1	Chr1	280	0.01229508	11	15	200	9	6	0.015363772	0.009226334	0.011818182	0.007904762	-0.969835719	-0.501451487
PZA00662	AY112031	CL34400_1	0	-6	0.00219778	8	5	161	1	2	0.002395496	0.005962733	0.001552795	0.00621118	-1.054819107	0.243139485
PZA00663	AY112029	CL14517_1	Chr4	305.2	0.00283337	9	14	220	1	3	0.001672441	0.004287984	0.002525253	0.001948052	1.401174484	-1.670526133
PZA00664	AY112024	CL19599_1	Chr1	707.7	0.00038092	10	12	180	8	11	0.015710478	0.020236289	0.021234568	0.021885522	1.517011371	0.339096065
PZA00668	AY111997	CL17677_1	Chr5	267.7	0.00076155	12	11	178	17	33	0.031625661	0.063296438	0.028941096	0.062921348	-0.368340577	-0.027578686
PZA00670	AY111979	CL1598_1	Chr7	405.5	0.00046659	14	14	386	8	12	0.006517144	0.009775716	0.006861015	0.008170586	0.198967233	-0.65391545
PZA00671	AY111929	CL2711_1	Chr5	528.7	0.00038485	9	11	244	3	10	0.004523815	0.013992506	0.004781421	0.010879285	0.217545719	-0.947118621
PZA00674	AY111916	CL4656_1	Chr5	346.5	0.05638215	10	11	454	2	19	0.001557206	0.014288383	0.00881057	0.01217461	-1.400850802	-0.667910691
PZA00675	AY111904	CL17328_1	Chr8	432.4	0.00016819	12	12	195	2	2	0.0033963	0.00333963	0.001709402	0.001709402	-1.451383229	-1.451383229
PZA00676	AY111892	CL34424_1	Chr2	572.4	0.00310238	14	14	231	9	7	0.012251364	0.009528854	0.010798725	0.011226868	-0.455033242	0.657540538
PZA00678	AY111849	CL7637_1	Chr10	483.7	0.00025598	14	13	234	3	8	0.004031438	0.011016988	0.004977928	0.009642779	0.718718946	-0.483115603
PZA00680	AY111826	CL37982_1	Chr2	0	0.00014144	12	14	307	3	4	0.003235889	0.004097097	0.003306682	0.003400508	0.071765549	-0.560069251
PZA00682	AY111822	CL60133_1	Chr4	707.8	0.00032463	14	15	324	9	14	0.008734783	0.013288958	0.008547009	0.012815991	-0.082499009	-0.141081455
PZA00684	AY111819	CL21419_1	Chr5	0	0.0005184	8	11	497	15	23	0.011640098	0.015799989	0.013509629	0.015620999	0.821790653	-0.051774973
PZA00686	AY111818	CL6775_1	Chr4	274.7	0.00024563	12	15	221	4	9	0.005993471	0.012524435	0.004113534	0.010859729	-1.103168346	-0.498398226
PZA00688	AY111812	CL5254_1	Chr1	160.6	0.06833955	14	16	182	0	1	0	0.001655855	0	0.000686813	0	-1.1622128
PZA00694	AY111798	CL1480_2	Chr10	91	0.00093274	12	11	608	28	41	0.015249835	0.023023196	0.01657197	0.019019139	0.38867359	-0.816166589
PZA00695	AY111797	CL48276_1	Chr7	471.4	0.00023933	14	15	196	2	3	0.003208696	0.004707313	0.003886858	0.005150632	0.558045548	0.280140454
PZA00696	AY111795	CL8846_1	Chr3	829	0.00047855	14	16	216	4	17	0.005823189	0.023718587	0.005647131	0.01712963	-0.099594724	-1.101694236
PZA00697	AY111785	CL244_1	Chr1	160.6	0.00049113	13	16	362	17	23	0.015133141	0.019147537	0.015016291	0.015814917	-0.032610866	-0.707702233
PZA00698	AY111783	CL1073_2	Chr1	902.1	0.00817745	13	13	186	1	4	0.00173251	0.006930041	0.001516405	0.003308519	-0.274290186	-1.774966842
PZA00699	AY111779	CL4939_1	Chr4	277.6	0.00039712	11	12	298	8	13	0.009165561	0.014445673	0.010860281	0.010728086	0.765005047	-1.090083196
PZA00700	AY111773	CL1575_1	Chr4	15.06	0.00024244	10	13	291	4	9	0.004858911	0.009666399	0.004581901	0.010221165	-0.21888232	0.100701125
PZA00701	AY111772	CL14463_1	Chr3	456.7	0.00014037	8	8	169	3	3	0.006846301	0.006846301	0.005494505	0.006762468	-0.812455389	-0.05038483
PZA00702	AY111771	CL5821_1	Chr3	488	0.00042419	13	13	281	13	21	0.014908219	0.024082508	0.012866137	0.02231043	-0.564107799	-0.31586959
PZA00703	AY111767	CL62610_1	Chr1	1087	0.00038485	12	10	306	10	14	0.010821545	0.016172551	0.012477718	0.013507625	0.629631022	-0.754689652
PZA00704	AY111763	CL20232_1	0	-1	0.00022092	9	9	596	4	8	0.002469375	0.004938751	0.00233035	0.003821775	-0.228839094	-1.026525317
PZA00705	AY111742	CL20646_1	Chr8	26.8	0.18526733	9	8	252	0	4	0	0.006121824	0	0.008078231	0	1.394198761
PZA00706	AY111711	CL9362_1	Chr8	432.4	0.00070412	11	11	528	24	36	0.015518961	0.023278442	0.019421488	0.022727273	1.152115183	-0.110583446
PZA00707	AY111703	CL41500_1	0	-1	0.00024244	12	15	617	4	8	0.00214677	0.003987611	0.00287314	0.003148877	1.190005691	-0.774565011
PZA00708	AY111697	CL1117_-1	Chr9	562.7	0.00040575	14	14	204	3	11	0.004624297	0.018955755	0.007164404	0.009857789	1.681549052	-1.649937644
PZA00709	AY111694	CL26491_-1	Chr1	1019	0.00029867	8	15	433	8	17	0.007125634	0.012074494	0.00882547	0.010249643	1.153602527	-0.610591644
PZA00710	AY111689	CL11868_1	0	-1	0.00124327	9	11	782	19	36	0.008939644	0.015717414	0.011508951	0.01202046	1.409080035	-1.098554894

PZA00711	AY111629	CL9311_1	0	-1	0.00061183	8	10	486	7	15	0.005554989	0.010910054	0.005364491	0.009190672	-0.1631911	-0.725889985
PZA00712	AY111609	CL32758_1	Chr10	273.6	0.00069109	12	13	445	14	16	0.010417865	0.011586405	0.009908069	0.009564967	-0.208776454	-0.733002009
PZA00713	AY111598	CL5522_1	Chr6	236.9	0.00031638	12	14	206	3	7	0.004822417	0.010685268	0.0070609	0.006027953	1.522662978	-1.608318637
PZA00714	AY111595	CL40218_1	Chr1	392.1	0.00022092	14	10	224	3	3	0.004211413	0.004734184	0.004218995	0.004563492	0.00551146	-0.12972211
PZA00715	AY111570	CL4342_1	0	-1	0.08720162	12	12	255	1	9	0.001298585	0.011687269	0.000653595	0.00932858	-1.140533405	-0.819185481
PZA00717	AY111566	CL12262_1	Chr8	206.2	0.14211391	13	15	552	1	14	0.00583781	0.007800041	0.000975474	0.00431332	1.475423651	-1.771942541
PZA00718	AY111549	CL846_1	Chr6	315.4	0.00039712	12	13	268	9	18	0.011120349	0.021643448	0.011702849	0.013394566	0.212619245	-1.617214763
PZA00719	AY111546	CL29743_1	Chr3	318.2	0.57231588	12	14	675	0	12	0	0.005590261	0	0.004949125	0	-0.456749592
PZA00720	AY111543	CL1878_1	Chr2	369.3	0.02409558	12	15	283	1	7	0.001170103	0.007607107	0.000588928	0.004913343	-1.140533405	-1.275243758
PZA00721	AY111530	CL8385_1	0	-1	0.00020292	14	16	291	4	5	0.004322367	0.005178103	0.004229448	0.006214204	-0.070815066	0.659408422
PZA00722	AY111528	CL2353_1	Chr4	286	.	13	13	237	1	0	0.001359692	0	0.00162285	0	0.425595349	0
PZA00723	AY111527	CL34891_1	Chr1	618.5	0.00049768	12	10	203	11	19	0.017943508	0.033084874	0.015300791	0.022331691	-0.612794559	-1.522862228
PZA00724	AY111519	CL12076_1	Chr2	92.6	0.00109716	10	10	271	3	19	0.003913127	0.024783135	0.003362034	0.019844198	-0.506694603	-0.933749207
PZA00725	AY111508	CL15997_1	Chr2	478.7	0.00033938	14	16	281	7	13	0.007833328	0.01394218	0.010871691	0.01183274	1.431248549	-0.583496182
PZA00726	AY111503	CL14541_1	0	-1	0.00039712	14	14	233	8	13	0.010796641	0.017544542	0.018110645	0.019478376	2.554523091	0.442921852
PZA00727	AY111500	CL22038_1	0	-1	0.0003733	13	11	627	9	15	0.004625553	0.008167874	0.00376232	0.006901551	-0.735183479	-0.687367156
PZA00729	AY111438	CL16362_1	Chr10	163.4	0.53746217	7	11	488	0	23	0	0.016091382	0	0.013897168	0	-0.623207921
PZA00730	AY111434	CL58207_1	Chr2	276.2	0.03460984	13	13	209	1	7	0.001541851	0.010792958	0.002208318	0.006993007	0.9505095	-1.335292995
PZA00731	AY111431	CL10432_1	Chr1	98	0.00041477	12	16	619	11	18	0.005884543	0.008763458	0.007710383	0.00868336	1.290986688	-0.036436923
PZA00732	AY111429	CL11234_1	Chr2	0	0.0001043	14	15	288	2	3	0.002183696	0.003203588	0.001755189	0.003835979	-0.532470316	0.587194397
PZA00733	AY111427	CL24621_1	Chr1	721.9	0.11424773	13	16	323	0	2	0	0.001866604	0	0.001109391	0	-1.037892551
PZA00734	AY111417	CL62214_1	Chr4	669.8	0.00338346	12	11	246	24	24	0.032306271	0.03330899	0.027223454	0.028972653	-0.699287659	-0.596450351
PZA00095	AY110972	CL21409_1	Chr4	299.9	0.23702126	10	13	741	0	5	0	0.002174405	0	0.00169556	0	-0.785124692
PZA00096	AY110964	CL40819_1	Chr7	383.8	0.0005184	14	13	534	13	27	0.007655203	0.016293382	0.007223114	0.012004225	-0.226812295	-1.148093178
PZA00097	AY110958	CL9090_1	0	-1	0.00079393	13	10	664	19	38	0.00922092	0.020229607	0.009460921	0.016532798	0.110911256	-0.885613068
PZA00098	AY110943	CL9_1	Chr3	262.9	0.00064345	13	12	260	6	16	0.007436467	0.020377802	0.009467456	0.01969697	1.008519387	-0.144254048
PZA00099	AY110934	CL40382_1	Chr3	488	0.00467279	11	12	408	1	3	0.000836807	0.002434848	0.001247772	0.001559715	1.185597262	-1.179008096
PZA00100	AY110897	CL5882_1	Chr3	67.2	0.00081118	12	12	678	19	30	0.009279714	0.01465218	0.010324484	0.012737999	0.492725909	-0.587716581
PZA00102	AY110886	CL31118_1	Chr7	169.5	0.00060197	13	16	372	14	23	0.012127571	0.018632818	0.014474773	0.021729391	0.803075952	0.6757413
PZA00103	AY110882	CL25429_1	Chr7	471.4	0.00372055	14	14	700	13	53	0.005839826	0.023808522	0.003281005	0.021899529	-1.760719535	-0.352324267
PZA00104	AY110872	CL65845_1	Chr4	312.1	0.00054888	12	14	445	10	25	0.007441332	0.017665853	0.009397344	0.015508087	1.081410189	-0.518554117
PZA00105	AY110855	CL9765_1	Chr4	707.8	0.00216648	14	15	276	1	2	0.00113932	0.002228583	0.000517598	0.000966184	-1.155241342	-1.490507586
PZA00106	AY110853	CL10_1	Chr1	103	0.00017049	14	16	263	4	7	0.004782543	0.008021137	0.004011198	0.007509506	-0.531289593	-0.224753054
PZA00107	AY110849	CL9845_1	Chr3	461.1	0.00103627	13	12	461	18	22	0.012582308	0.015802742	0.011346571	0.010648787	-0.416739661	-1.441789299
PZA00108	AY110848	CL21567_1	Chr2	153.1	0.00031372	13	11	443	7	13	0.005091937	0.010019013	0.005730161	0.008701006	0.475367199	-0.57578039
PZA00109	AY110845	CL23854_1	Chr1	656.9	0.00015056	14	14	299	3	3	0.003155039	0.003155039	0.004006027	0.003160719	0.825700069	0.00551146
PZA00110	AY110841	CL908_1	Chr7	471.4	0.00103627	11	9	205	5	3	0.008327248	0.005384443	0.007982262	0.007317073	-0.158733066	1.371220231
PZA00111	AY110837	CL1882_7	Chr8	524.6	0.00033332	14	9	312	4	9	0.004031438	0.010613565	0.004402649	0.011039886	0.303320487	0.184866804
PZA00112	AY110835	CL46086_1	Chr5	189.8	0.00042906	13	15	297	7	16	0.007595045	0.016568052	0.009410343	0.016065416	0.906476769	-0.121879794
PZA00169	AY110123	CL29782_1	Chr1	777.4	0.00514663	9	14	258	1	3	0.001426112	0.003656421	0.000861326	0.002129653	-1.088227343	-1.278262016
PZA00170	AY110082	CL50599_1	Chr2	339.3	0.53103065	9	12	328	0	16	0	0.016153135	0	0.015705839	0	-0.119559517
PZA00172	AY110012	CL907_1	Chr2	47.4	0.00027655	13	14	280	5	14	0.005754409	0.015722609	0.005677656	0.009850863	-0.047553175	-1.512458469
PZA00174	AY109975	CL914_1	Chr10	200.5	0.00741351	9	11	223	5	3	0.008249707	0.004593056	0.007224714	0.00375051	-0.526291787	-0.627850768
PZA00176	AY109951	CL2305_1	Chr2	92.6	0.00027655	5	15	311	3	12	0.004830225	0.011866668	0.004501608	0.008207013	-0.174748847	-1.20147632
PZA00178	AY109945	CL16097_1	Chr7	471.4	0.00014643	10	15	186	2	5	0.003800922	0.008267324	0.002988658	0.006349206	-0.690979993	-0.782649599
PZA00186	AY109807	CL15480_1	Chr3	371.4	0.00186374	12	12	330	21	21	0.021072499	0.021072499	0.020477502	0.01795225	-0.124441139	-0.652587043

PZA00187	AY109804	CL67_1	0	-1	0.00081118	10	10	169	4	3	0.008366527	0.006274895	0.008284024	0.006574622	-0.037860039	0.171855885
PZA00189	AY109782	CL2140_-1	Chr3	488	0.00058317	14	14	304	16	24	0.016550115	0.024825172	0.014423077	0.017314922	-0.527279002	-1.281003845
PZA00191	AY109780	CL11572_1	Chr5	0	0.00039294	12	12	609	12	17	0.006524912	0.009243625	0.006991093	0.00935463	0.300139568	0.052109288
PZA00193	AY109777	CL1187_-3	Chr4	531.7	0.00022628	8	5	212	4	4	0.007276885	0.009056604	0.009097035	0.009433962	1.091208848	0.273449766
PZA00195	AY109773	CL198_-1	0	-1	0.13160976	6	8	130	0	3	0	0.008900191	0	0.010164835	0	0.584673968
PZA00203	AY109691	CL1552_1	Chr7	471.4	0.07245318	13	10	347	0	1	0	0.001018691	0	0.000576369	0	-1.111733177
PZA00205	AY109689	CL468_2	Chr1	445.1	0.00014144	13	12	161	2	3	0.004003067	0.006170297	0.004140787	0.005364201	0.096644221	-0.428543909
PZA00209	AY109588	CL2558_1	Chr9	562.7	0.00061183	14	14	315	6	7	0.005989565	0.006987826	0.004709576	0.0005058434	-0.767140381	-1.018826819
PZA00214	AY109567	CL2242_11	Chr6	148.7	0.00219191	10	5	198	8	4	0.014282253	0.00969697	0.017732884	0.012121212	1.042363933	1.640698599
PZA00215	AY109538	CL1988_1	Chr10	260.5	0.00043405	14	13	243	7	8	0.009058293	0.010608951	0.007597341	0.008019415	-0.595129575	-0.945389189
PZA00216	AY109508	CL1574_1	Chr4	15.06	0.00025748	11	12	193	6	8	0.010614005	0.013725298	0.012435233	0.016486105	0.679281748	0.803004994
PZA00217	AY109480	CL8931_1	0	-1	0.05405888	6	9	292	1	13	0.00149985	0.016380754	0.002054795	0.015410959	1.445096912	-0.282459737
PZA00219	AY109476	CL1535_1	Chr9	226.3	0.00120321	13	9	160	6	4	0.012084258	0.009198423	0.014583333	0.011805556	0.763664509	1.152058661
PZA00221	AY109474	CL982_-1	Chr3	290.6	0.00033037	13	14	177	4	4	0.007282416	0.007106264	0.004925395	0.008940212	-1.099317043	0.850133988
PZA00223	AY109158	PCO130281	Chr6	393.9	0.0005742	14	14	224	7	16	0.009826631	0.02246087	0.011087127	0.016974097	0.473324345	-1.002205206
PZA00225	AY109146	PCO137288	Chr9	267.2	0.00027655	14	13	268	5	11	0.005866645	0.013226552	0.006232573	0.013394566	0.215955004	0.051347208
PZA00227	AY109140	PCO094517	Chr7	471.4	0.00618557	6	11	281	10	8	0.01558563	0.009720061	0.013285884	0.00698803	-0.886222878	-1.162899614
PZA00229	AY109138	PCO139579	Chr8	432.4	0.03522818	10	10	232	1	8	0.001523646	0.012189164	0.000862069	0.008045977	-1.111733177	-1.466486809
PZA00234	AY109137	PCO139799	Chr3	759.9	0.00038885	13	14	231	11	17	0.01534509	0.023141503	0.016983017	0.021549879	0.431462369	-0.283709929
PZA00235	AY109128	PCO089471	Chr1	1056	0.00310238	13	10	383	11	9	0.009255133	0.008306454	0.009439647	0.010211778	0.080586836	1.004396524
PZA00236	AY109121	PCO064217	Chr3	511.5	0.0005184	13	10	215	2	5	0.002997646	0.008220599	0.004651163	0.006923508	1.549533358	-0.631934455
PZA00237	AY109111	PCO136522	Chr10	450.8	0.00015755	10	10	256	3	4	0.004142411	0.005523215	0.002951389	0.004166667	-1.034456093	-0.942971441
PZA00238	AY109108	PCO116815	Chr2	413.1	0.00034566	5	5	314	8	12	0.012229299	0.018343949	0.012738854	0.018471338	0.293579619	0.050224393
PZA00239	AY109105	PCO078505	Chr2	47.4	0.00066642	9	10	237	7	16	0.010867335	0.023864018	0.007735584	0.016596343	-1.285522593	-1.40979485
PZA00240	AY109099	PCO085724	Chr1	1061	0.00027251	13	16	372	6	13	0.005197531	0.010531593	0.007926661	0.009587814	1.938967922	-0.345603347
PZA00241	AY109097	PCO109066	Chr6	351.6	0.00019346	11	11	218	3	6	0.004698401	0.009396802	0.003169308	0.008006672	-1.113905414	-0.585652718
PZA00242	AY109096	PCO119715	Chr5	566.3	0.00372055	13	11	228	8	6	0.011306909	0.008948462	0.00888439	0.007814992	-0.829820792	-0.515378581
PZA00243	AY109093	PCO099135	Chr5	1097	0.00065474	9	14	443	10	15	0.008305574	0.010647365	0.007273639	0.007937886	-0.578392459	-1.03768745
PZA00244	AY108956	PCO130274	Chr1	847	0.00086371	10	8	200	2	4	0.003534858	0.007713499	0.005111111	0.005	1.438632436	-1.534703725
PZA00245	AY108942	PCO138129	Chr1	973	0.00047249	14	7	394	19	23	0.015163938	0.02382679	0.016371953	0.020788011	0.331679486	-0.720520433
PZA00246	AY108936	PCO082635	Chr2	313.5	0.00028283	10	6	198	6	7	0.01071169	0.0154833	0.012121212	0.016161616	0.54437583	0.254966779
PZA00248	AY108929	PCO085503	Chr10	410.6	0.00023262	14	6	390	2	2	0.001612575	0.002245929	0.00194421	0.001709402	0.558045548	-1.131972245
PZA00249	AY108927	PCO095512	Chr10	227.9	0.01767912	14	15	281	1	6	0.001119047	0.006566786	0.001759806	0.008812066	1.212185563	1.196974503
PZA00250	AY108917	PCO073946	Chr1	377	0.00026859	11	9	305	5	10	0.005597002	0.012063506	0.005126677	0.010018215	-0.32196661	-0.789262786
PZA00251	AY108914	PCO102879	Chr10	287.9	0.00028071	14	16	282	5	7	0.005575393	0.007480706	0.003312291	0.003812057	-1.405354799	-1.728016858
PZA00254	AY108906	PCO093599	Chr3	318.2	0.00023933	14	14	352	6	10	0.00535998	0.008933301	0.004651598	0.008678821	-0.474425627	-0.110917786
PZA00255	AY108754	PCO136495	Chr5	346.5	0.0016946	13	15	269	9	8	0.010781495	0.009146304	0.011533696	0.010054877	0.274843751	0.365814471
PZA00256	AY108738	PCO103663	Chr7	151.5	0.00074633	14	15	526	21	32	0.012554175	0.018709993	0.012033594	0.015402349	-0.173971624	-0.732988965
PZA00257	AY108721	PCO112738	0	-1	0.00038885	12	15	323	7	18	0.007176393	0.017138701	0.00731776	0.013564319	0.077087421	-0.861064992
PZA00258	AY108705	PCO142716	Chr1	13.5	0.00028718	12	13	211	5	10	0.007846902	0.015272365	0.01113026	0.010086328	1.542447143	-1.356580629
PZA00259	AY108689	PCO134907	Chr6	373.8	0.00042419	6	6	399	11	12	0.012073981	0.013171615	0.012865497	0.01336675	0.396470756	0.090124347
PZA00290	AY108601	PCO078135	Chr2	584.3	0.00202294	13	7	205	1	1	0.001571936	0.00199104	0.000750469	0.001393728	-1.149147105	-1.00623059
PZA00291	AY108600	PCO131943	Chr2	349	0.00020976	13	12	168	5	7	0.009590681	0.01379747	0.00534188	0.015512266	-1.579432248	0.486357591
PZA00293	AY108576	PCO117716	Chr7	92	0.00041942	11	5	648	10	13	0.005268783	0.00962963	0.0053331089	0.008950617	0.050339115	-0.512086921
PZA00294	AY108575	PCO097136	Chr1	371.9	0.00138122	14	8	460	29	30	0.019824159	0.025152713	0.026397516	0.027717391	1.420106415	0.540490178
PZA00295	AY108565	PCO103773	0	-1	0.00031638	13	10	490	8	12	0.005261174	0.008656794	0.00303506	0.008163265	-1.638799569	-0.257500501

PZA00296	AY108561	PCO145588	Chr9	202.3	0.00047855	11	15	315	13	22	0.014090232	0.021479296	0.019393939	0.01681028	1.647499339	-0.896848781
PZA00297	AY108555	PCO137802	0	-1	0.00031908	14	16	295	7	10	0.007461577	0.010215782	0.009051965	0.009632768	0.786491873	-0.212845038
PZA00298	AY108547	PCO131047	Chr8	455.1	0.00026108	12	14	389	5	11	0.004149615	0.008669108	0.004177109	0.007601421	0.0244246	-0.485422809
PZA00299	AY108543	PCO120949	Chr8	262.7	0.38138797	11	15	287	0	8		0	0	0.004911233	0	-1.572830649
PZA00300	AY108540	PCO131924	Chr5	346.5	0.00138122	13	11	769	22	25	0.009219027	0.011099387	0.012103631	0.011348859	1.347470922	0.103209625
PZA00301	AY108536	PCO126310	0	-6	0.0016946	13	16	311	3	16	0.003108491	0.015504338	0.002638305	0.01344051	-0.478252166	-0.549378562
PZA00303	AY108531	PCO112988	Chr3	494	0.036	13	11	289	14	7	0.015610576	0.00826962	0.018454441	0.008178673	0.755909986	-0.044628173
PZA00304	AY108523	PCO097059	0	-1	0.00086226	13	11	222	1	1	0.001451563	0.001537915	0.000693001	0.001474201	-1.149147105	-0.100013214
PZA00305	AY108516	PCO134507	Chr8	132.4	0.00223923	10	8	86	1	2	0.00411103	0.00969184	0.004134367	0.009551495	0.014991995	0.241782795
PZA00306	AY108509	PCO117578	Chr7	2.7	0.00715748	12	14	183	0	1		0	0.001441182	0	-0.341438343	0
PZA00307	AY108508	PCO128559	Chr1	1057	0.00043915	12	8	344	10	11	0.009626142	0.012332629	0.00854475	0.009862957	-0.462168633	-1.00009731
PZA00308	AY108498	PCO093951	Chr3	544.4	0.00026108	12	12	231	4	7	0.005734013	0.010034524	0.003935458	0.011740784	-1.103168346	0.66541329
PZA00310	AY108492	PCO081454	Chr10	168.2	0.0001118	14	15	280	2	3	0.002246087	0.003295119	0.002708006	0.001836735	0.558045548	-1.316540048
PZA00311	AY108488	PCO073185	0	-1	0.000338346	14	14	295	2	10	0.002131879	0.010659396	0.003576085	0.009610728	1.838216344	-0.38305905
PZA00312	AY108486	PCO107502	0	-6	0.01229508	8	7	456	16	10	0.013532454	0.008950949	0.012218045	0.009816207	-0.499111623	0.518693485
PZA00313	AY108482	PCO148683	Chr1	1023	0.0005742	13	14	353	6	20	0.005477284	0.017815988	0.006246822	0.013230396	0.518809631	-1.075921296
PZA00314	AY108481	PCO113378	Chr10	191.2	0.45238587	6	7	535	0	35	0	0.02670227	0	0.031508678	0	1.031793699
PZA00315	AY108480	PCO090770	Chr4	264.9	0.00017128	12	16	184	3	6	0.00539901	0.009827138	0.004940711	0.010507246	-0.278451072	0.236891998
PZA00316	AY108478	PCO142991	Chr5	400.9	0.00027251	10	10	346	6	10	0.006129811	0.010216352	0.007064868	0.009120103	0.631067857	-0.475612911
PZA00317	AY108474	PCO064390	0	-1		12	14	242	0	0	0	0	0	0	0	0
PZA00318	AY108472	PCO119082	Chr1	386.4	0.00025057	14	16	198	5	6	0.007940712	0.009132329	0.007048507	0.010606061	-0.389011134	0.552394978
PZA00319	AY108467	PCO142331	Chr6	277.1	0.16150137	13	11	202	0	4	0	0.006760736	0	0.005040504	0	-0.931679072
PZA00325	AY108438	PCO088036	Chr4	380.2	0.00116565	7	5	134	5	3	0.015229973	0.010746269	0.014925373	0.011940299	-0.099075989	0.69899539
PZA00326	AY108433	PCO067235	Chr7	430.5	0.00032748	12	12	197	10	12	0.0168091	0.02017092	0.014920781	0.022150438	-0.462168633	0.412265271
PZA00327	AY108430	PCO127440	Chr8	49.4		5	10	108	0	0	0	0	0	0	0	0
PZA00328	AY108425	PCO146490	0	-1	0.00032748	11	10	568	7	9	0.004207606	0.005601007	0.002496799	0.004303599	-1.649954147	-1.014290154
PZA00329	AY108413	PCO089228	Chr1	527.6	0.00031111	12	11	237	6	7	0.008383273	0.010084051	0.006776627	0.010893748	-0.730897656	0.325831668
PZA00336	AY108319	PCO123850	Chr8	432.4	0.00138122	14	12	189	6	4	0.009982609	0.007008239	0.012093726	0.007455507	0.759157981	0.224458728
PZA00337	AY108314	PCO072368	Chr10	228.3	0.00017951	13	11	461	3	4	0.002097051	0.002962405	0.003504088	0.001577598	2.121451886	-1.711662425
PZA00338	AY108311	PCO113729	Chr3	238.1	0.00031372	13	12	157	7	10	0.014367696	0.021091674	0.01077903	0.014668983	-0.947294382	-1.252782176
PZA00339	AY108306	PCO129900	0	-1	0.00026667	14	11	169	2	3	0.003721328	0.00606066	0.005852136	0.003227542	1.553733945	-1.599960061
PZA00340	AY108299	PCO078330	Chr2	470.7	0.04267043	11	11	241	1	7	0.001416669	0.009916681	0.001357978	0.011165598	-0.100013214	0.511061588
PZA00342	AY108294	PCO098379	Chr1	327.3	0.00018125	12	13	308	2	5	0.002150255	0.005231281	0.00152499	0.003663004	-0.849714979	-1.068806045
PZA00343	AY108291	PCO095246	Chr1	371.9	0.00058317	12	12	329	16	20	0.016104038	0.020130047	0.016256793	0.018651561	0.040954939	-0.322615753
PZA00344	AY108287	PCO142666	Chr4	514.9	0.00020628	10	13	382	4	9	0.003701422	0.007592204	0.003781268	0.005436971	0.082821481	-1.118297256
PZA00345	AY108281	PCO132843	0	-1	0.23974763	10	5	549	2	25	0.001287744	0.021857923	0.000728597	0.02003643	-1.400850802	-0.620231158
PZA00346	AY108275	PCO147657	Chr7	375.1	0.00033037	13	13	234	8	9	0.011016988	0.012394111	0.01402586	0.014573745	1.057796353	0.692786052
PZA00347	AY108273	PCO108913	Chr5	124.7	0.00076155	13	11	164	18	21	0.035368561	0.04371805	0.041588493	0.050110865	0.746220594	0.664604184
PZA00348	AY108272	PCO108459	Chr3	190.8	0.00028283	14	12	247	5	11	0.006365429	0.014747093	0.008631045	0.012391118	1.232298463	-0.664715865
PZA00349	AY108270	PCO145900	Chr4	669.8	0.00016521	14	14	318	3	5	0.00296653	0.004944217	0.002660861	0.003386551	-0.315431909	-1.0907723
PZA00350	AY108268	PCO078526	Chr7	385.1	0.22569227	14	13	177	0	4	0	0.007282416	0	0.007677821	0	0.184417576
PZA00352	AY108254	PCO078069	0	-1	0.00045521	14	14	341	6	16	0.005532883	0.014754355	0.005929554	0.011891334	0.257361259	-0.796105155
PZA00354	AY108252	PCO090236	Chr6	120.4	0.00741351	9	13	262	4	2	0.005617358	0.0024599	0.003392706	0.001174398	-1.609736848	-1.468005781
PZA00355	AY108249	PCO075979	Chr3	482.7	0.07063122	13	12	136	1	10	0.002369462	0.024348476	0.003959276	0.021390374	1.475423651	-0.499816897
PZA00356	AY108246	PCO062242	Chr1	846.8	0.5460783	11	9	206	0	7	0	0.012502711	0	0.011326861	0	-0.419530241
PZA00357	AY108243	PCO134814	Chr6	277.1	0.00106585	13	14	359	7	18	0.006283366	0.015766405	0.007499464	0.010989011	0.734032941	-1.256038542

PZA00358	AY108239	PCO096221	Chr1	160.6	0.00372055	13	14	417	6	31	0.004636646	0.023376541	0.002828506	0.020897568	-1.440029391	-0.455798698
PZA00361	AY108233	PCO098922	Chr8	455.1	0.036	13	15	249	22	5	0.028471613	0.006175592	0.021830913	0.006425703	-1.004430776	0.136619109
PZA00362	AY108226	PCO098921	Chr8	455.1	0.00020515	14	16	258	4	5	0.004875228	0.005840418	0.005664878	0.005587855	-0.533557751	-0.148511063
PZA00363	AY108232	PCO125467	0	-1	0.00030601	13	16	250	4	6	0.00515595	0.007232774	0.004512821	0.0062	-0.423667243	-0.48764858
PZA00364	AY108217	PCO091909	Chr4	302.5	0.00019346	12	14	162	4	9	0.008176278	0.017469566	0.008323981	0.010785511	0.063534234	-1.468326356
PZA00365	AY108201	PCO137413	Chr2	0	0.00064345	10	12	548	4	16	0.002580188	0.0096683	0.002919708	0.006773944	0.505206802	-1.292549766
PZA00366	AY108192	PCO101856	0	-1	0.0649345	8	15	563	0	1	0	0.00054626	0	0.000236827	0	-1.159445936
PZA00367	AY108187	PCO080190	Chr8	404.1	0.30785375	9	12	324	0	7	0.007154244	0	0.005518144	0	0.894929232	0
PZA00368	AY108183	PCO130036	Chr8	49.4	0.00041477	13	15	341	14	21	0.013230078	0.018939689	0.016918565	0.020611646	1.156820698	0.362963787
PZA00369	AY108182	PCO085001	Chr1	707.7	0.0002489	11	15	269	4	10	0.005076835	0.01143288	0.002703616	0.01055054	-1.711662425	-0.293743558
PZA00370	AY108179	PCO089911	Chr7	298.4	0.0016946	12	15	173	6	5	0.011484599	0.008888568	0.016377649	0.008863198	1.624852146	-0.009628185
PZA00371	AY108149	PCO142893	Chr4	-2	0.00017612	13	12	213	4	5	0.006051585	0.00773222	0.006741303	0.006828852	0.387112516	-0.44784908
PZA00372	AY108146	PCO079748	0	-1	0.09170854	14	11	198	1	11	0.001588142	0.01896762	0.000721501	0.014508724	-1.155241342	-1.011535075
PZA00373	AY108139	PCO088281	Chr10	287.9	0.00079393	14	11	237	11	11	0.014594827	0.015846366	0.010339871	0.014269275	-1.149071048	-0.428246112
PZA00374	AY108138	PCO110469	0	-1	0.00033938	12	12	190	6	8	0.01045703	0.013942706	0.006937799	0.009011164	-1.283480943	-1.412435624
PZA00375	AY108130	PCO067258	Chr1	507.5	0.00098178	13	16	184	2	1	0.003502684	0.001637856	0.003623188	0.002173913	0.096644221	0.649980502
PZA00376	AY108124	PCO089515	0	-1	0.00133195	13	13	133	2	6	0.004845818	0.014537454	0.005205321	0.013688066	0.208404935	-0.215755002
PZA00378	AY108090	PCO099415	Chr7	368.9	0.01832994	14	14	440	9	7	0.006431976	0.005002648	0.006218781	0.003546454	-0.127203117	-1.074091677
PZA00379	AY108089	PCO092409	Chr8	206.2	0.00045521	14	15	314	10	14	0.010014401	0.013712174	0.0088892	0.010858356	-0.437487302	-0.824990943
PZA00380	AY108088	PCO142634	Chr3	227.8	0.00106585	12	14	199	7	6	0.011648115	0.00948097	0.009974113	0.008614501	-0.562397219	-0.32806825
PZA00381	AY108087	PCO136491	Chr5	245.1	0.00066642	12	16	606	13	27	0.007103648	0.013427179	0.00780078	0.011743674	0.415690436	-0.515377948
PZA00382	AY108077	PCO139551	Chr6	236.9	0.00128608	13	10	786	13	15	0.005329783	0.006745911	0.005219547	0.004834606	-0.085178247	-1.305013019
PZA00384	AY108030	PCO117743	Chr8	49.4	0.00079393	12	13	485	19	24	0.012972467	0.015946238	0.013089659	0.015516786	0.039536525	-0.116635839
PZA00385	AY108020	PCO086613	Chr1	1031	0.00014529	13	10	138	2	2	0.004670245	0.005122982	0.003158677	0.006441224	-0.909202209	0.830171742
PZA00386	AY108013	PCO089815	Chr7	471.4	0.01832994	12	8	376	10	5	0.008806896	0.005128656	0.008905545	0.004559271	0.04608293	-0.503443827
PZA00387	AY108012	PCO073700	Chr6	75.8	0.00071765	12	13	204	6	6	0.00973939	0.00947785	0.007130125	0.006661639	-1.021730965	-1.0977232562
PZA00389	AY107992	PCO082556	0	-1	0.00016025	14	15	271	2	2	0.00232088	0.002269701	0.001054296	0.00098401	-1.48074498	-1.490507586
PZA00390	AY107985	PCO139236	Chr2	515.8	0.00025927	14	16	270	6	10	0.006987826	0.011161688	0.005535206	0.009382716	-0.746232185	-0.594422786
PZA00391	AY107984	PCO090168	Chr3	349.5	0.00027861	14	15	223	5	11	0.007050497	0.015170355	0.006701818	0.011744608	-0.171223456	-0.870375776
PZA00392	AY107970	PCO085337	0	-1	0.00133195	13	10	897	20	44	0.007184992	0.017339324	0.004001944	0.014641397	-1.895060626	-0.757668412
PZA00393	AY107967	PCO108952	Chr1	26.1	0.00070412	13	16	523	5	5	0.003080754	0.002881124	0.00215718	0.001912046	-1.068806045	-1.108459534
PZA00394	AY107964	PCO062318	Chr2	320.7	0.00248344	8	16	280	7	7	0.009641873	0.007534139	0.009183673	0.008303571	-0.226143671	0.359849537
PZA00395	AY107939	PCO112657	Chr5	516.3	0.00032748	10	14	278	4	12	0.005086126	0.013573476	0.00554756	0.010237963	1.108614403	-0.978659215
PZA00396	AY107938	PCO066126	Chr2	47.4	0.0005184	13	9	280	12	13	0.013810581	0.017082786	0.015842491	0.016666667	0.600701351	-0.116216999
PZA00397	AY107937	PCO081323	Chr3	176.6	0.036	12	14	200	12	8	0.019868357	0.012578087	0.013409091	0.015274725	-1.365728018	0.808446721
PZA00398	AY107935	PCO066270	Chr7	188.1	0	14	14	198	1	0	0.001588142	0	0.002719503	0	1.508113926	0
PZA00399	AY107934	PCO096568	Chr4	562.8	0.0005655	12	15	182	5	5	0.009097233	0.008449024	0.009074259	0.006488749	-0.009309234	-0.782649599
PZA00400	AY107931	PCO111589	Chr10	254.5	0.00020403	13	14	230	4	6	0.005604294	0.0082031	0.007580825	0.007118968	1.197892275	-0.474425627
PZA00401	AY107930	PCO133201	Chr5	279.1	0.00023781	14	16	274	3	7	0.003442907	0.007699121	0.001564129	0.004714112	-1.670526133	-1.366120016
PZA00402	AY107929	PCO096026	Chr3	759.9	0.00014936	13	14	211	2	2	0.003054473	0.002980589	0.004010208	0.003176918	0.878969221	0.178735682
PZA00403	AY107927	PCO149284	Chr1	700.5	0.00016819	14	16	167	3	4	0.005648842	0.007218337	0.007896295	0.006736527	1.217964186	-0.208822621
PZA00404	AY107912	PCO105578	Chr3	318.2	0.02007624	13	14	323	1	6	0.000997668	0.005841217	0.000476304	0.003027932	-1.149147105	-1.728917432
PZA00405	AY107911	PCO070303	0	-1	0.00041021	14	10	479	15	22	0.009847146	0.016235254	0.011539609	0.015912781	0.700860757	-0.093904431
PZA00406	AY107907	PCO120903	Chr5	314.6	0.43224287	11	13	215	0	8	0.011990582	0	0.011568277	0	0.136410413	0
PZA00407	AY107903	PCO134259	Chr5	267.7	0.42509542	9	14	186	0	11	0	0.018596634	0	0.017665131	0	-0.197424516
PZA00408	AY107896	PCO141631	Chr5	666.9	0.00022628	14	16	199	4	6	0.006320647	0.009086399	0.005466895	0.007705193	-0.44495062	-0.520315156

PZA00409	AY107888	PCO061908	Chr10	195.4	0.00021335	14	11	245	5	9	0.006417391	0.012541855	0.008836062	0.013506494	1.304894424	0.323229161
PZA00410	AY107883	PCO131850	Chr1	226.4	.	14	12	180	1	0	0.001746957	0	0.002014652	0	0.324400474	0
PZA00411	AY107876	PCO089175	Chr8	571.5	0.00071765	13	15	349	12	15	0.011080122	0.03218244	0.009485784	0.010478919	-0.95597888	-0.827339381
PZA00412	AY107872	PCO116026	Chr1	13.5	0.00021707	14	12	92	4	7	0.013671834	0.02519538	0.009436216	0.019762846	-1.020543779	-0.843770461
PZA00413	AY107869	PCO087009	Chr1	440	0.00028941	12	16	297	8	14	0.008919576	0.014205785	0.008672584	0.012093154	-0.110578766	-0.578324677
PZA00414	AY107864	PCO073660	0	-1	0.01203101	14	16	225	1	5	0.001397565	0.00697013	0.002344322	0.004703704	1.434131835	-0.980881434
PZA00415	AY107855	PCO120585	Chr1	360.9	0.00304614	12	12	134	1	2	0.002471189	0.004942377	0.003957485	0.002487562	1.381098736	-1.451383229
PZA00416	AY107854	PCO142176	Chr8	49.4	0.00109716	14	13	202	5	4	0.00778347	0.006381127	0.012403438	0.00418888	2.055052692	-1.166882022
PZA00417	AY107851	PCO143234	Chr4	-3	0.00027655	13	13	415	4	5	0.003105994	0.003882493	0.002347853	0.002594995	-1.829057123	-1.182278586
PZA00418	AY107842	PCO075031	Chr7	188.1	0.00064345	13	15	252	3	12	0.003836273	0.014644975	0.006105006	0.010128496	1.869867623	-1.20147632
PZA00419	AY107836	PCO120288	Chr8	348.2	0.00272714	13	16	277	1	2	0.001163346	0.002175925	0.001388503	0.002256318	0.425595349	0.094569853
PZA00420	AY107833	PCO063938	Chr3	806.9	0.00022905	14	13	235	5	9	0.006690472	0.01234137	0.008510638	0.011565739	0.941914618	-0.247584127
PZA00421	AY107819	PCO061208	Chr9	425.2	0.00034566	12	11	292	4	10	0.004536154	0.011692368	0.005707763	0.010460772	0.908387827	-0.448389753
PZA00422	AY107817	PCO069306	Chr10	191.2	0.00029396	13	15	179	3	3	0.005400786	0.005154377	0.004727116	0.005959032	-0.394390745	0.46437282
PZA00423	AY107804	PCO104850	Chr7	471.4	0.00033332	12	12	246	2	5	0.002692189	0.006730473	0.001355014	0.005604829	-1.451383229	0.616518251
PZA00424	AY107799	PCO061642	0	-1	0.02839614	14	16	440	1	7	0.000714664	0.004794452	0.001198801	0.002481061	1.434131835	-1.700178639
PZA00425	AY107789	PCO148373	Chr1	160.6	0.00130405	13	14	210	2	8	0.003069018	0.011979131	0.004639805	0.011826269	1.437772793	-0.048119046
PZA00427	AY107786	PCO106817	Chr9	128.4	0.00016449	14	16	194	3	4	0.004862663	0.006213723	0.007080548	0.003994845	1.396266058	-1.117172306
PZA00428	AY107784	PCO146608	Chr9	562.7	0.00092123	14	16	302	3	10	0.003123697	0.009978993	0.003274871	0.009850993	0.148152957	-0.047838445
PZA00435	AY107693	PCO081680	0	-1	0.00025398	10	15	229	7	10	0.010805242	0.013429889	0.01416788	0.0146912	1.318138389	0.861349425
PZA00436	AY107692	PCO146629	Chr4	-2	0.00093274	13	8	526	16	16	0.009802187	0.011731557	0.010578142	0.011338946	0.332588239	-0.171969024
PZA00437	AY107689	PCO122240	Chr10	168.2	0.06716012	14	16	249	0	1	0	0.001210304	0	0.000502008	0	-1.1622128
PZA00438	AY107677	PCO123186	Chr4	474.6	0.00017865	12	15	287	2	5	0.002307591	0.005357918	0.002481259	0.006636801	0.219917464	0.80517817
PZA00439	AY107668	PCO102167	Chr1	527.6	0.00026667	14	13	253	3	9	0.003728682	0.011463328	0.004734396	0.008107834	0.825700069	-1.153125781
PZA00440	AY107667	PCO075566	Chr6	80.7	0.00031638	12	14	661	7	15	0.00350677	0.007135829	0.003094485	0.004272581	-0.460079677	-1.636204046
PZA00441	AY107665	PCO133717	Chr4	323.5	0.0005742	5	9	228	17	22	0.035789474	0.035502686	0.029824561	0.023513645	-1.224853386	-1.669494494
PZA00442	AY107661	PCO103158	Chr2	332.2	0.00026292	14	16	178	6	10	0.010599512	0.01693065	0.011482899	0.013998127	0.299177653	-0.645987346
PZA00443	AY107646	PCO072676	0	-1	0.036	13	9	260	4	1	0.004957645	0.001415142	0.003353057	0.002136752	-1.099317043	1.401174484
PZA00444	AY107644	PCO078062	Chr10	256.8	0.00143426	14	16	256	5	4	0.006141644	0.004708837	0.002790179	0.004817708	-1.889327875	0.072333234
PZA00445	AY107628	PCO087035	0	-1	0.00046083	14	14	428	8	18	0.005877611	0.013224624	0.00639314	0.012452501	0.330746582	-0.24201827
PZA00446	AY107623	PCO144466	0	379.2	0.0005257	14	14	227	8	9	0.011082015	0.012467267	0.013506317	0.008810573	0.824919139	-1.125594862
PZA00447	AY107603	PCO098394	Chr1	98	0.00047249	12	15	320	8	18	0.008278482	0.017299376	0.012452652	0.016785714	2.013503476	-0.120568487
PZA00448	AY107602	PCO090388	Chr5	584.5	0.00109716	14	15	470	7	23	0.004683333	0.015050048	0.003927987	0.011306991	-0.595129575	-1.029399574
PZA00449	AY107589	PCO085320	Chr5	257.8	0.00025398	10	8	183	5	7	0.009658081	0.014752593	0.012750455	0.009562842	1.283889798	-1.674052802
PZA00450	AY107586	PCO129255	Chr3	738.7	0.0097682	13	16	268	1	5	0.001202414	0.005622492	0.000574053	0.00233209	-1.149147105	-1.928604462
PZA00451	AY107577	PCO108633	Chr5	311.3	0.00014417	9	13	315	2	3	0.002336107	0.003069018	0.001940035	0.001872202	-0.583253898	-1.233004956
PZA00452	AY107574	PCO137295	Chr8	262.7	0.00017951	12	11	384	4	5	0.003449367	0.004445536	0.00552399	0.005587121	2.115321531	0.983901742
PZA00453	AY107572	PCO061578	Chr4	392.4	0.00022628	11	15	183	4	6	0.00746267	0.010083425	0.007948336	0.009575852	0.238295957	-0.176220978
PZA00455	AY107542	PCO066796	Chr1	507.5	0.00044338	12	12	261	6	15	0.007612397	0.019030993	0.008533612	0.01010101	0.46151891	-2.014658047
PZA00456	AY107541	PCO126911	0	-1	0.00037433	14	13	494	6	16	0.003819257	0.010437146	0.004893892	0.007993356	1.010056342	-0.983729126
PZA00457	AY107539	PCO112684	0	-1	0.08649219	13	16	222	0	1	0	0.001357503	0	0.000563063	0	-1.1622128
PZA00459	AY107531	PCO148979	0	-1	0.0001409	12	15	206	2	5	0.003214944	0.007464672	0.003383348	0.003791031	0.153065436	-1.660133366
PZA00460	AY107526	PCO105945	Chr8	455.1	0.00069109	13	15	298	10	11	0.010813654	0.011352313	0.01066942	0.011249601	-0.053285335	-0.034872584
PZA00461	AY107525	PCO115693	Chr10	410.6	0.16057434	12	15	188	0	3	0	0.004907624	0	0.00212766	0	-1.68500478
PZA00462	AY107521	PCO070988	0	-1	0.00127149	13	16	199	1	1	0.001619331	0.00151144	0.002705837	0.002512563	1.475423651	1.308959884
PZA00463	AY107512	PCO144235	Chr10	160	0.00047855	10	14	189	2	5	0.00374059	0.008318841	0.005643739	0.008023722	1.641452667	-0.122828149

PZA00464	AY107506	PCO110502	Chr5	516.3	0.00027452	13	14	184	7	13	0.012259393	0.02221673	0.009476031	0.018693263	-0.861072468	-0.637294514
PZA00465	AY107500	PCO118161	Chr3	441.3	0.00011968	14	16	206	2	3	0.003052934	0.004388819	0.002453857	0.003398058	-0.532470316	-0.65443355
PZA00466	AY107496	PCO088971	0	-1	0.00086722	13	15	185	2	1	0.00348375	0.001662403	0.003603604	0.00270721	0.096644221	-1.159445936
PZA00467	AY107491	PCO092142	Chr9	378.9	0.00047249	8	12	241	7	18	0.011202176	0.024732394	0.01437463	0.002884446	1.347670602	-0.325676178
PZA00468	AY107489	PCO148392	0	-1	0.00046083	14	16	542	7	19	0.004061191	0.010564476	0.002493816	0.008194957	-1.424102444	-0.898372263
PZA00469	AY107483	PCO113991	Chr1	570.8	0.00023482	14	12	252	6	8	0.007486957	0.010512358	0.007631258	0.007094757	0.069187488	-1.298237654
PZA00470	AY107482	PCO119066	Chr5	346.5	0.00018857	9	12	264	3	6	0.004181101	0.007525593	0.00547138	0.006772268	1.178941146	-0.381897686
PZA00472	AY107475	PCO104428	0	-1	0.27379388	9	8	235	0	5	0	0.00820585	0	0.006534954	0	-0.923365953
PZA00473	AY107473	PCO132850	Chr10	193.6	0.00018484	10	10	446	3	6	0.002377707	0.004755414	0.00284006	0.005879422	0.699617375	0.977835965
PZA00474	AY107464	PCO113489	Chr7	471.4	0.00048476	12	12	318	11	14	0.011454503	0.014578459	0.013483896	0.015818563	0.737159416	0.362919988
PZA00475	AY107461	PCO108959	0	-1	0.00049113	12	14	260	14	19	0.017830576	0.022979198	0.019522145	0.026162299	0.404751435	0.576731672
PZA00476	AY107459	PCO099192	Chr4	748.3	0.03455183	12	12	283	1	7	0.001170103	0.008190724	0.001713246	0.00594282	1.065894718	-1.073984932
PZA00477	AY107458	PCO102265	Chr1	1138	0.00020182	13	14	368	4	8	0.003502684	0.006835917	0.003762542	0.00600215	0.251982556	-0.459929511
PZA00478	AY107432	PCO118402	Chr8	404.1	0.2714727	13	13	361	0	7	0	0.006248555	0	0.007067263	0	0.496922677
PZA00479	AY107425	PCO146304	Chr2	420.6	0.00028071	12	14	157	4	5	0.008436669	0.010014401	0.005983401	0.009309162	-1.022706099	-0.243819418
PZA00480	AY107424	PCO087404	0	-1	0.07835639	12	10	225	1	8	0.00147173	0.012568383	0.000740741	0.011851852	-1.140533405	-0.245964827
PZA00481	AY107417	PCO111407	Chr8	179.5	0.12662545	13	11	323	1	10	0.000997668	0.01057019	0.000873224	0.00855615	-0.274290186	-0.811101657
PZA00482	AY107416	PCO107390	Chr3	461.1	0.00031638	14	8	349	5	5	0.004505046	0.005525429	0.004566635	0.005014327	0.046564428	-0.419459402
PZA00483	AY107411	PCO089526	Chr1	973.		14	10	120	0	0	0	0	0	0	0	0
PZA00484	AY107409	PCO129924	Chr1	507.5	0.00103627	14	12	153	2	5	0.004110486	0.010821545	0.005745888	0.012675777	1.079596613	0.631633617
PZA00485	AY107397	PCO076624	Chr4	728.5	0.00117713	13	7	367	1	1	0.000878057	0.001112161	0.001257598	0.000778513	0.9505095	-1.006230509
PZA00489	AY107342	PCO083303	Chr3	454.2	0.08772997	6	16	319	0	2	0	0.001889439	0	0.002403344	0	0.696190505
PZA00490	AY107341	PCO069226	Chr2	273.7		12	13	212	0	0	0	0	0	0	0	0
PZA00491	AY107340	PCO108160	Chr1	160.6	0.00177094	9	14	251	1	2	0.001465884	0.002505595	0.001549358	0.001138304	0.156473571	-1.480774498
PZA00492	AY107338	PCO113049	Chr4	380.2	0.00063256	14	16	245	3	2	0.003850435	0.002460127	0.003543395	0.001020408	-0.244111161	-1.497955402
PZA00493	AY107331	PCO114323	Chr3	655	0.00025572	13	16	208	6	9	0.009295583	0.013039857	0.007889546	0.012059295	-0.558551831	-0.276177295
PZA00494	AY107323	PCO119739	Chr4	488	0.00024725	14	14	265	2	8	0.002373224	0.009492896	0.003980925	0.008791209	1.838216344	-0.278732906
PZA00495	AY107322	PCO069079	0	379.2	0.00093274	14	16	222	7	7	0.009915159	0.009502518	0.014899955	0.014189189	1.854945793	1.737841357
PZA00496	AY107317	PCO061688	Chr7	471.4	0.00030601	8	10	574	9	14	0.006047168	0.008621604	0.005350921	0.007355788	-0.563992953	-0.672425751
PZA00497	AY107316	PCO128933	Chr2	197.2	0.00467473	12	13	225	1	3	0.00147173	0.004296625	0.001818182	0.002621083	0.540554689	-1.233004956
PZA00498	AY107308	PCO115804	Chr8	202	0.00024402	14	16	243	5	6	0.00647021	0.007441125	0.010853344	0.004766804	2.345436537	-1.230196862
PZA00499	AY107306	PCO141469	Chr5	247.6	0.00741351	14	15	278	12	9	0.013573476	0.00956476	0.01237252	0.012332991	-0.352367668	0.895018199
PZA00500	AY107302	PCO131529	Chr3	411.3	0.00028283	14	16	212	2	5	0.00296653	0.007107679	0.003006428	0.003459119	0.036494482	-1.691673705
PZA00501	AY107295	PCO117817	0	-1	0.0611824	6	12	311	1	12	0.001408219	0.012777078	0.001714898	0.013300205	0.850567552	0.171995907
PZA00502	AY107292	PCO067487	Chr2	146.8	0.00026108	14	15	455	4	11	0.002764415	0.007435141	0.004228543	0.006028257	1.742303385	-0.729316795
PZA00503	AY107287	PCO086846	Chr6	71.8	0.00023047	14	15	254	3	8	0.003714002	0.00968644	0.003807216	0.005024372	0.076832208	-1.772397059
PZA00504	AY107286	PCO083163	Chr7	381.2	0.00017951	14	15	270	3	7	0.003493913	0.007973375	0.004029304	0.006843034	0.469096326	-0.510529401
PZA00505	AY107261	PCO091441	Chr7	471.4	0.00040139	12	15	405	12	23	0.009811534	0.017465488	0.011036289	0.016484421	0.524390973	-0.232494907
PZA00506	AY107253	PCO116270	Chr1	1119	0.00231747	12	12	176	1	2	0.001981473	0.003762946	0.00094697	0.003443526	-1.140533405	-0.24804673
PZA00507	AY107251	PCO120698	Chr3	346.8	0.00038092	14	15	270	10	15	0.011646377	0.017085804	0.013634514	0.015555556	0.664684815	-0.357553027
PZA00508	AY107248	PCO140096	Chr4	420.6	0.0005184	13	14	548	14	26	0.008232585	0.014919264	0.008001123	0.014297746	-0.116660388	-0.17729026
PZA00509	AY107245	PCO091329	Chr3	228.2	0.01130631	13	15	373	1	5	0.000863933	0.00412258	0.000412456	0.002093706	-1.149147105	-1.660133366
PZA00510	AY107244	PCO103599	Chr2	475	0.00019755	14	15	199	4	7	0.006320647	0.010818147	0.005798222	0.009667385	-0.272272672	-0.383077008
PZA00511	AY107242	PCO110312	Chr9	526	0.00133195	9	8	221	11	9	0.018313603	0.015706219	0.014580191	0.019877182	-0.958105561	1.300849331
PZA00512	AY107236	PCO067763	Chr5	0	0.00030107	14	9	355	6	7	0.005314685	0.007255094	0.005726668	0.006729264	0.278269456	-0.323308869
PZA00513	AY107232	PCO121205	Chr4	644.3	0.0005044	13	14	218	10	12	0.014781968	0.017309294	0.020701012	0.017642908	1.599674551	0.076758022

PZA00514	AY107228	PCO090048	0	-1	0.63512491	13	16	331	0	13	0	0	0.01183611	0	0.008987915	0	-0.928030633
PZA00515	AY107227	PCO137067	0	379.2	0.00091001	9	7	816	18	19			0.009503802	0.008646514	0.008870215	0.319237005	-0.373368111
PZA00516	AY107220	PCO115287	Chr4	728.5	0.00018669	14	15	191	4	7			0.006585386	0.010586272	0.012565445	2.001320306	0.413500447
PZA00517	AY107219	PCO090715	Chr5	216.3	0.00030854	14	15	268	3	11			0.003519987	0.002050189	0.006325515	-1.278262016	-1.922892783
PZA00518	AY107211	PCO136611	Chr8	315.2	0.00020743	12	13	160	4	8			0.008278482	0.004166667	0.009935897	-1.746866321	-1.484708373
PZA00519	AY107207	PCO128140	Chr1	124.7	0.02694733	6	8	158	1	8			0.002771875	0.019527845	0.002109705	0.014692586	-0.933020529
PZA00520	AY107202	PCO110869	Chr1	1031	0.00038092	11	14	273	4	4			0.005002449	0.004607358	0.003862804	0.003944773	-0.834181153
PZA00521	AY107200	PCO104264	0	-1	0.00012572	12	16	165	2	3			0.004013809	0.002846648	0.004747475	-0.849714979	-0.387226291
PZA00522	AY107192	PCO124577	Chr5	279.1	0.00047855	13	12	509	13	20			0.008230274	0.013011366	0.008815677	0.014127344	0.292924031
PZA00523	AY107187	PCO082735	0	-1	0.00038485	9	10	220	3	10			0.005017322	0.016067535	0.003030303	0.014545455	-1.512966048
PZA00524	AY107173	PCO142224	0	-1	0.39575699	13	15	111	0	8			0	0.022165367	0	0.00960961	-2.086001416
PZA00525	AY107172	PCO127780	Chr10	450.8	0.00017696	14	13	157	4	5			0.008011521	0.01026264	0.01077903	0.011268986	1.137930568
PZA00527	AY107166	PCO109921	Chr5	286.5	0.0001778	14	15	253	3	5			0.003728682	0.006077954	0.001693958	0.002635046	-1.670526133
PZA00528	AY107154	PCO148860	0	-1	0.00020743	9	14	176	2	2			0.004181101	0.00357332	0.002525253	0.003996004	-1.362404657
PZA00529	AY107148	PCO064822	Chr9	562.7	0.00024563	5	10	204	3	9			0.007058824	0.01559496	0.007843137	0.012145098	0.69899539
PZA00530	AY107140	PCO079694	Chr8	432.4	0.00076155	6	11	345	5	19			0.006347191	0.018802684	0.007729469	0.018129117	1.218829342
PZA00581	AY107137	PCO129543	Chr3	227.8	0.00027251	11	11	117	4	8			0.011672381	0.023344763	0.015540016	0.021756022	-1.213275148
PZA00582	AY107121	PCO104774	Chr6	60.6	0.00021962	14	15	286	5	10			0.005497416	0.010753303	0.006109275	0.006060606	0.385345581
PZA00583	AY107115	PCO107270	Chr4	474.6	0.00059242	12	14	462	13	28			0.009317772	0.019057708	0.009346714	0.017054374	0.013156891
PZA00584	AY107056	PCO118491	0	-1	0.000248915	10	13	173	1	2			0.002043327	0.003725398	0.001156069	0.002519638	-1.1117133177
PZA00586	AY107051	PCO135033	Chr3	488		13	14	217	3	4			0.004455026	0.005796354	0.004608295	0.007140325	0.108777781
PZA00587	AY107045	PCO115177	Chr10	225.7	0.01186118	14	16	278	1	4			0.001131123	0.004336195	0.000513875	0.003866906	-1.155241342
PZA00588	AY107037	PCO098840	0	-1	0.00082919	7	7	510	19	20			0.015206082	0.016006403	0.013818861	0.016806723	-0.510924784
PZA00589	AY107035	PCO107884	Chr9	226.3	0.00038092	13	13	459	7	16			0.004914441	0.011233007	0.00698285	0.011731188	1.596252081
PZA00590	AY107034	PCO062352	Chr2	219	0.00741351	14	14	176	3	1			0.00535998	0.00178666	0.005806693	0.000811688	0.25513408
PZA00591	AY107022	PCO102665	Chr7	430.5	0.00016972	14	14	237	4	6			0.00530721	0.007960815	0.005007651	0.00857792	-0.185933698
PZA00593	AY106988	PCO110979	0	-1	0.07765907	13	16	280	0	2			0.002152611	0	0.003809524	0	1.97021071
PZA00594	AY106986	PCO120900	Chr2	551.1	0.00017951	12	13	192	2	6			0.003449367	0.010070215	0.004261364	0.009081197	0.687881658
PZA00595	AY106985	PCO123808	Chr2	168.6	0.00250426	13	14	373	2	8			0.001727865	0.006744283	0.000824912	0.004831629	-1.468005781
PZA00599	AY106971	PCO062071	Chr1	13.5	0.00076155	11	13	370	23	34			0.021223228	0.029611877	0.0197543	0.032224532	-0.316327264
PZA00600	AY106970	PCO080628	Chr8	240.7	0.47559838	13	15	222	0	12			0	0.016624025	0	0.010896611	0
PZA00601	AY106969	PCO114516	Chr7	368.9	0.01482611	14	9	186	1	3			0.001690603	0.005934467	0.000768049	0.006272401	-1.155241342
PZA00602	AY106966	PCO063261	Chr9	267.2	0.00015957	10	13	191	2	2			0.003701422	0.003374313	0.003839442	0.002282186	0.120300933
PZA00603	AY106964	PCO094852	Chr6	228.9	0.00231257	14	16	165	1	2			0.001905771	0.003652916	0.003196803	0.003787879	1.434131835
PZA00604	AY106963	PCO069448	Chr2	250.9	0.06459517	8	13	176	0	1			0	0.001830948	0	0.000874126	0
PZA00605	AY106962	PCO120805	Chr1	257.4	0.00106585	12	15	322	4	17			0.004113531	0.016233682	0.002493883	0.012067436	-1.38478621
PZA00606	AY106959	PCO132352	Chr6	47.8	0.00025057	14	14	269	5	10			0.005844836	0.011689672	0.005841742	0.009926876	-0.00183288
PZA00608	AY106948	PCO141323	Chr3	318.2	0.00100829	11	13	233	3	2			0.004395929	0.002766068	0.005774483	0.00286123	1.073340496
PZA00609	AY106946	PCO103853	Chr5	672.6	0.06811202	8	11	123	1	12			0.003135569	0.033303099	0.004355401	0.025270621	1.166496837
PZA00610	AY106920	PCO114964	Chr1	951.2	0.00032183	14	13	295	8	13			0.008527517	0.014200711	0.00715217	0.015297697	-0.608181278
PZA00611	AY106919	PCO087788	Chr2	459.1	0.00476493	8	11	291	2	11			0.002650687	0.012905803	0.003681885	0.010996584	-0.636563599
PZA00612	AY106898	PCO148953	Chr1	124.7	0.06878618	13	16	398	0	1			0	0.0007572	0	0.00031407	0
PZA00613	AY106896	PCO085206	Chr2	47.4	0.0005655	13	13	233	12	15			0.016596407	0.020745508	0.01518653	0.018708044	-0.346843138
PZA00614	AY106891	PCO124875	Chr7	384.4	0.00023781	10	12	350	4	10			0.004039837	0.009461122	0.002285714	0.006883117	-1.667060562
PZA00615	AY106886	PCO064741	Chr3	2	0.01229508	12	15	245	4	2			0.005406356	0.002751088	0.001554908	0.0154686321	-1.001607361
PZA00616	AY106882	PCO072967	Chr7	298.4	0.00029396	14	15	238	7	10			0.009248594	0.012922036	0.010850494	0.01352541	0.639118918

PZA00617	AY106877	PCO149877	Chr1	323.8	0.00033037	14	15	267	8	13	0.009421788	0.014974075	0.007696423	0.014125201	-0.690543371	-0.222908717
PZA00618	AY106876	PCO100812	Chr3	507.2	0.00138122	14	13	508	10	32	0.006190004	0.020299017	0.005191659	0.017666061	-0.627986187	-0.570752054
PZA00619	AY106872	PCO149273	Chr1	570.8	0.00286442	12	11	97	4	2	0.013655228	0.007309529	0.014682912	0.00787254	0.264689852	0.361892046
PZA00620	AY106884	PCO077289	Chr2	92.6	0.00205748	8	5	436	3	6	0.002653727	0.006605505	0.002129751	0.006422018	-0.812455389	-0.190922684
PZA00621	AY106849	PCO134627	Chr3	318.2	0.00081118	13	11	183	1	1	0.001760912	0.001865667	0.002101723	0.000993542	0.425595349	-1.128501595
PZA00626	AY106844	PCO147515	Chr5	286.5	0.00035895	12	14	369	5	6	0.004486982	0.005113044	0.005707481	0.005420054	1.002705795	0.215544866
PZA00628	AY106843	PCO102445	Chr2	87.8	0.00051131	11	10	233	11	14	0.016118406	0.021239488	0.017011315	0.017835002	0.238369845	-0.734123676
PZA00630	AY106837	PCO061495	Chr4	298.1	0.00929159	14	15	254	1	5	0.001238001	0.006054025	0.002119927	0.005324334	-1.508113926	-0.406585128
PZA00632	AY106835	PCO070523	Chr8	49.4	0.00030357	6	8	222	6	12	0.011836654	0.020847294	0.011111111	0.001496139	-0.350840548	-1.420549562
PZA00634	AY106831	PCO142079	Chr2	227.1	0.00618557	12	12	233	1	3	0.001421199	0.004263596	0.002341007	0.003771622	1.486166741	-0.378512963
PZA00636	AY106822	PCO104784	Chr4	580.3	0.00030352	13	13	212	9	10	0.013680293	0.015200325	0.021044993	0.019472666	2.120755584	1.1228592
PZA00637	AY106818	PCO080432	0	379.2	0.00060197	11	12	349	7	17	0.006847908	0.016129993	0.009377442	0.01328471	1.498954495	-0.765432116
PZA00638	AY106816	PCO148649	Chr7	368.9	0.00177515	11	15	525	29	75	0.018859233	0.043934924	0.022649351	0.037659864	0.929861535	-0.6222220581
PZA00639	AY106813	PCO095545	0	-1	0.00051131	12	15	259	3	11	0.00383559	0.013061734	0.003510004	0.014708586	-0.278451072	0.485960574
PZA00640	AY106812	PCO134561	0	-1	0.00022092	10	13	107	5	5	0.016518026	0.015058266	0.020768432	0.01917086	1.03180766	0.973699695
PZA00645	AY106811	PCO109530	0	-1	0.00294178	13	13	213	1	2	0.001512896	0.003025792	0.001805706	0.00312989	0.425595349	0.096644221
PZA00647	AY106810	PCO130441	0	-1	0.00026667	13	11	134	3	7	0.007214483	0.017835224	0.008993494	0.014111262	0.779669149	-0.847291116
PZA00649	AY106804	PCO072181	0	-1	0.15899673	8	15	179	0	4	0	0.006872502	0	0.002979516	0	-1.815936663
PZA00651	AY106794	PCO062997	Chr7	86.3	0.00142514	13	13	167	2	7	0.003859244	0.013507355	0.001842469	0.007216337	-1.468005781	-1.766402565
PZA00653	AY106783	PCO103251	0	-1	0.00029167	14	15	377	6	9	0.005004544	0.00734191	0.003818463	0.006214475	-0.850773168	-0.57581025
PZA00655	AY106777	PCO060082	Chr8	524.6	0.00035218	12	16	263	2	0	0.002518169	0	0.002477244	0	-0.047490647	0
PZA00656	AY106774	PCO128770	Chr10	168.2	0.00035218	13	14	260	3	9	0.003718233	0.010884883	0.005235444	0.011327134	1.366699097	0.1559229
PZA00657	AY106764	PCO064726	Chr4	392.4	0.01355192	14	16	307	1	5	0.001024274	0.004908234	0.000465333	0.002035831	-1.155241342	-1.928604462
PZA00658	AY106760	PCO115388	Chr1	714.4	0.00065474	10	8	456	24	31	0.018604514	0.026219129	0.018957115	0.024044486	0.09003339	-0.440172947
PZA00659	AY106754	PCO067360	0	-1	0.00012163	14	16	203	2	3	0.003098051	0.004453678	0.003139717	0.00320197	0.036494482	-0.814757905
PZA00665	AY106744	PCO111647	0	-1	0.00741351	9	10	186	2	13	0.003956311	0.024705994	0.004181601	0.016487455	0.195896862	-1.513721116
PZA00667	AY106743	PCO102668	0	-1	0.00089261	14	15	427	2	7	0.001472844	0.005041713	0.002470597	0.003880897	1.838216344	-0.829160383
PZA00672	AY106715	PCO087295	Chr4	380.2	0.00029867	13	13	274	6	11	0.007056501	0.012936919	0.006457047	0.011510387	-0.313696953	-0.445726464
PZA00673	AY106708	PCO070149	Chr1	847	0.00021458	5	5	211	4	4	0.009099526	0.009099526	0.009478673	0.011374408	0.273449766	1.640698599
PZA00679	AY106707	PCO115444	0	-1	0.08748835	6	15	232	0	2	0	0.002651245	0	0.001149425	0	-1.490507586
PZA00681	AY106689	PCO137705	Chr2	538.8	0.00044973	11	13	303	10	18	0.011267893	0.019143338	0.007320732	0.016332402	-1.491186477	-0.62307132
PZA00683	AY106681	PCO136360	Chr4	-2	0.00026859	8	9	182	4	5	0.008476372	0.010108157	0.007260597	0.009462759	-0.625733988	-0.270457836
PZA00687	AY106669	PCO088450	Chr7	430.5	0.00372055	11	15	261	2	10	0.002616223	0.011783313	0.00292581	0.007111549	0.361892046	-1.507769855
PZA00689	AY106664	PCO095758	0	-1	0.036	13	15	427	4	2	0.003018706	0.001440489	0.002281871	0.00111152	-0.829057123	-0.594190507
PZA00690	AY106649	PCO109526	Chr8	304.7	0.00045521	14	11	245	7	8	0.008984348	0.011148315	0.008656649	0.012467532	-0.134589092	0.489590096
PZA00691	AY106648	PCO066900	Chr1	205	0.00042861	11	11	169	2	6	0.00404044	0.012121319	0.006024744	0.008391608	1.501936943	-1.218119951
PZA00692	AY106642	PCO120819	Chr6	81.7	0.14936628	14	15	213	0	4	0	0.005775483	0	0.008405992	0	1.460105099
PZA00693	AY106637	PCO086047	Chr9	202.3	0.00129164	14	15	201	1	1	0.001564439	0.001530072	0.000710732	0.002084814	-1.155241342	0.742098827
PZA00001	AY106636	PCO129491	Chr8	455.1	0.00068475	12	14	281	2	7	0.002356863	0.007833328	0.004151839	0.004810136	2.225478295	-1.424102444
PZA00002	AY106630	PCO104029	Chr1	450.8	0.00263613	14	15	214	1	2	0.001469403	0.002874247	0.001232412	0.001246106	-0.341438343	-1.490507586
PZA00003	AY106628	PCO125444	Chr6	241.2	0.00031908	13	14	387	10	14	0.008326793	0.011375531	0.009342079	0.013402618	0.487105397	0.721674767
PZA00004	AY106625	PCO123708	Chr5	189.8	0.10348326	11	15	127	0	2	0	0.00484322	0	0.003749531	0	-0.594190507
PZA00005	AY106622	PCO111431	Chr4	669.8	0.0005184	12	16	284	9	13	0.01049385	0.013794903	0.010616731	0.012265258	0.047530489	-0.427635359
PZA00006	AY106617	PCO087396	Chr6	75.8	0.00093274	13	15	378	19	25	0.016197595	0.020340242	0.019468186	0.018216175	0.860425924	-0.434670851
PZA00007	AY106615	PCO073362	Chr10	450.8	0.00046083	13	15	269	6	8	0.007187663	0.009146304	0.006577066	0.008284652	-0.313696953	-0.346922705
PZA00009	AY106611	PCO079496	Chr4	295.2	0.09534535	13	16	359	1	11	0.000897624	0.009234043	0.001285622	0.004433612	0.9505095	-1.964078382

PZA00010	AY106608	PCO144090	Chr1	438.8	0.00024244	12	14	296	5	11	0.005593569	0.011685723	0.006910319	0.010766261	0.867770457	-0.3101195
PZA00012	AY106605	PCO137466	0	-1	0.00032463	11	13	156	6	12	0.013131429	0.024788223	0.018648019	0.032215648	1.663119666	1.223373443
PZA00013	AY106600	PCO144935	Chr1	874.6	0.61094519	10	15	373	0	16	0	0.013192256	0	0.014707009	0	0.461288158
PZA00014	AY106592	PCO063726	Chr1	1061	0.00023335	10	13	141	4	5	0.010027965	0.011427195	0.005673759	0.008183306	-1.667060562	-1.012069774
PZA00015	AY106591	PCO136380	0	-1	0.00027452	14	14	298	7	11	0.007386461	0.011607295	0.006748285	0.011136514	-0.318805285	-0.159859522
PZA00016	AY106589	PCO088738	Chr6	72.7	0.06930285	9	9	260	0	1	0	0.001415142	0	0.000854701	0	-1.088227343
PZA00017	AY106585	PCO110346	Chr1	224.8	0.00025057	14	16	388	5	8	0.004052219	0.006213723	0.002152487	0.006335911	-1.623142683	0.070892522
PZA00018	AY106579	PCO084622	Chr8	399.5	0.0001905	12	16	285	4	5	0.004647569	0.005287115	0.003934078	0.005175439	-0.539932618	-0.069609292
PZA00019	AY106565	PCO096548	Chr10	213.2	0.00049113	10	6	378	7	10	0.006546033	0.011586143	0.003703704	0.009876543	-1.839126245	-0.886222878
PZA00020	AY106558	PCO081168	Chr8	455.1	0.00032748	8	13	470	5	12	0.004102935	0.008222758	0.003951368	0.006983088	-0.167506126	-0.617570134
PZA00021	AY106552	PCO118077	Chr1	198.4	0.01036809	14	16	294	1	5	0.001069565	0.005125265	0.000485909	0.002494331	-1.155241342	-1.691673705
PZA00022	AY106543	PCO142103	Chr6	75.8	0.00138122	10	7	438	22	21	0.017754993	0.019569472	0.014459665	0.018917156	-0.877465301	-0.187573454
PZA00023	AY106539	PCO098449	Chr10	168.2	0.00037707	14	16	392	7	7	0.005615218	0.005381528	0.004933842	0.0046113095	-0.447756621	-0.503135239
PZA00025	AY106532	PCO105052	0	-1	0.16213654	13	14	205	0	3	0	0.004601739	0	0.002090592	0	-1.670526133
PZA00026	AY106523	PCO062309	Chr10	380.5	0.01196676	12	13	254	1	5	0.001303698	0.006343443	0.000656168	0.003533212	-1.140533405	-1.579432248
PZA00028	AY106511	PCO110617	Chr6	393.9	0.00025927	14	13	212	6	8	0.00889959	0.01216026	0.005442671	0.007982583	-1.394386284	-1.330617178
PZA00029	AY106506	PCO061840	Chr2	357.5	0.00036244	12	15	508	3	12	0.001955547	0.00726483	0.001729897	0.006261717	-0.378512963	-0.537932908
PZA00031	AY106496	PCO121832	Chr2	492.5	0.29722798	14	15	155	0	5	0	0.009920789	0	0.008110599	0	-0.615509834
PZA00032	AY106494	PCO082977	Chr5	340.4	0.00066642	14	15	196	13	17	0.020856522	0.026674775	0.024781341	0.026627794	0.756184598	-0.00711566
PZA00033	AY106492	PCO102560	Chr8	315.2	.	12	16	150	0	0	0	0	0	0	0	0
PZA00035	AY106483	PCO145034	Chr1	847	0.00016025	14	16	227	3	6	0.004155756	0.00796561	0.00188798	0.006167401	-1.670526133	-0.77271754
PZA00036	AY106473	PCO118561	Chr1	907.1	0.07140018	13	13	253	0	1	0	0.001273703	0	0.001520219	0	0.425595349
PZA00037	AY106472	PCO062666	0	-1	0.00023781	5	14	197	3	10	0.007309645	0.01596204	0.008121827	0.008980867	0.69899539	-1.702944178
PZA00038	AY106462	PCO083489	Chr2	377.4	0.00033332	6	13	381	5	11	0.005747457	0.009303716	0.007874016	0.005787738	2.070766179	-1.527592691
PZA00039	AY106451	PCO082226	Chr9	251.8	0.0288574	14	14	182	1	6	0.001272759	0.010366555	0.002717063	0.006702089	1.212185563	-1.268937103
PZA00040	AY106447	PCO091383	Chr7	336.6	0.00039294	5	15	400	3	13	0.0036	0.009995195	0.0045	0.006238095	1.572739627	-1.478036108
PZA00041	AY106443	PCO068394	0	-1	0.00016995	13	14	205	3	6	0.004715808	0.009203479	0.0068793	0.009809702	1.450560518	0.236453062
PZA00042	AY106421	PCO138756	Chr6	393.9	0.00052517	10	13	367	7	9	0.006742235	0.007902512	0.008295489	0.007650388	0.975784392	-0.125684289
PZA00043	AY106390	PCO137432	Chr7	471.4	0.00013985	11	14	203	3	5	0.005045574	0.007745128	0.00447828	0.007524495	-0.384823444	-0.098627495
PZA00044	AY106388	PCO089076	Chr7	430.5	0.00110364	14	16	170	2	6	0.003699437	0.010636432	0.004654169	0.008186275	0.700286747	-0.788492689
PZA00045	AY106377	PCO111367	Chr8	315.2	0.00025927	14	15	205	4	10	0.006135652	0.015002169	0.007879925	0.01068525	0.936472962	-1.095236647
PZA00046	AY106362	PCO121991	Chr2	251.1	0.20399225	14	14	266	0	4	0	0.004728604	0	0.002148228	0	-1.797594543
PZA00047	AY106361	PCO118979	Chr4	378.9	0.00108248	14	15	244	1	1	0.001288738	0.001260428	0.00058548	0.001014832	-1.155241342	-0.398828031
PZA00048	AY106358	PCO146855	0	-1	0.00027861	14	13	210	5	7	0.007486957	0.010741563	0.010570382	0.00952381	1.425887693	-0.429962898
PZA00049	AY106357	PCO078250	Chr8	374.9	0.00027452	14	11	153	5	10	0.010276215	0.022314847	0.004668534	0.016161616	-1.889327875	-1.173813561
PZA00050	AY106349	PCO103153	Chr1	1097	0.00120321	13	13	253	8	7	0.010189625	0.008915922	0.013986014	0.009830749	1.443024341	0.389145285
PZA00051	AY106348	PCO073261	Chr4	707.8	0.00186374	12	13	285	15	15	0.017428383	0.016960363	0.017650186	0.01448493	0.054641504	-0.609630027
PZA00052	AY106326	PCO086652	Chr4	474.6	.	10	10	124	0	0	0	0	0	0	0	0
PZA00053	AY106313	PCO145155	Chr3	2	0.0007774	13	15	197	13	18	0.021265023	0.02810051	0.020955356	0.016823795	-0.059971429	-1.629504761
PZA00055	AY106305	PCO061645	0	-6	0.26939401	14	14	209	0	5	0	0.007522779	0	0.003417635	0	-1.889327875
PZA00057	AY106294	PCO061917	Chr4	362.4	0.00021458	13	12	155	3	7	0.006237037	0.014954677	0.007444169	0.014662757	0.611946307	-0.076388893
PZA00058	AY106292	PCO061640	Chr8	49.4	0.00039712	13	13	307	5	5	0.005248321	0.005248321	0.00534536	0.004844233	0.065919366	-0.274498257
PZA00059	AY106287	PCO094144	Chr4	218.5	0.0005184	6	8	355	11	18	0.013570474	0.019555349	0.013896714	0.016800805	0.145392974	-0.729064599
PZA00060	AY106286	PCO078601	Chr9	322.6	0.00034093	12	12	163	2	5	0.004063059	0.010157647	0.005112474	0.007343372	0.754733686	-1.021324263
PZA00061	AY106284	PCO101835	Chr2	251.1	0.00012488	11	15	154	2	3	0.004433989	0.005991126	0.004486423	0.007700062	0.036164933	-0.641021374
PZA00062	AY106278	PCO137999	Chr10	483.7	0.00028718	11	15	379	6	9	0.005405021	0.007303167	0.006908131	0.00537756	1.10092657	-0.988674376

PZA00063	AY106277	PCO097025	Chr2	273.7	0.15734266	12	16	222	0	5	0	0.006787513	0	0.004316817	0	-1.199586748
PZA00065	AY106265	PCO093974	Chr9	373.2	0.00021458	14	12	287	4	7	0.004382609	0.008076568	0.005666807	0.006704677	0.96525262	-0.664714762
PZA00067	AY106255	PCO077512	0	-1	0.00055707	11	14	329	5	5	0.005188711	0.004778909	0.005084277	0.005778416	-0.077116294	0.724126734
PZA00068	AY106250	PCO070212	0	-1	0.00028071	9	10	442	6	8	0.004994619	0.006379932	0.003645048	0.005128205	-1.178858538	-0.856225818
PZA00069	AY106236	PCO149257	Chr5	666.9	0.00100829	13	14	236	5	4	0.006827265	0.005329698	0.00684485	0.004097597	0.009183096	-0.761526887
PZA00070	AY106233	PCO102100	0	-1	0.00044973	10	9	286	10	12	0.012359642	0.015437913	0.015073815	0.013791764	0.973356625	-0.505212667
PZA00071	AY106232	PCO147906	Chr8	571.5	0.00019966	13	13	173	3	7	0.005588096	0.013038892	0.005483919	0.013783904	-0.058945061	0.216701457
PZA00072	AY106229	PCO149655	0	-1	0.00074633	10	13	184	2	8	0.003842237	0.014010734	0.003623188	0.010312152	-0.183929414	-1.022434787
PZA00073	AY106226	PCO146698	Chr3	103.3	0.00013778	8	11	242	2	3	0.003187396	0.004232444	0.002804014	0.002854996	-0.447939441	-1.113905414
PZA00074	AY106217	PCO093522	Chr2	551.1	0.036	12	9	299	14	8	0.015504849	0.009844466	0.00907064	0.009661836	-1.770483807	-0.084202318
PZA00075	AY106216	PCO144716	0	-1	0.07754891	13	16	240	0	2	0	0.002511138	0	0.001944444	0	-0.577829699
PZA00076	AY106212	PCO103031	Chr9	562.7	0.00018038	12	9	163	3	5	0.006094588	0.011286409	0.009481316	0.011588275	1.822848653	0.11329309
PZA00077	AY106209	PCO092896	Chr9	378.9	0.00192788	14	16	271	3	15	0.00348102	0.016680752	0.001581444	0.010147601	-1.670526133	-1.534262881
PZA00078	AY106207	PCO121644	Chr4	200.3	0.00043405	6	7	499	9	12	0.00789901	0.009815549	0.008016032	0.010115469	0.088237958	0.16637449
PZA00079	AY106206	PCO139290	Chr10	168.2	0.00029167	14	14	281	6	8	0.006714281	0.008952375	0.009385632	0.01075437	1.428220277	0.759029465
PZA00081	AY106187	PCO126579	Chr1	257.4	0.00036961	13	12	275	5	12	0.005859034	0.014449714	0.008578089	0.012341598	1.654534942	-0.612884013
PZA00083	AY106171	PCO100840	Chr1	450.8	0.01329563	12	16	266	1	5	0.001244884	0.005664767	0.000626566	0.00316416	-1.140533405	-1.454742948
PZA00084	AY106170	PCO135607	0	-1	0.00029167	14	14	281	6	8	0.006714281	0.008952375	0.009385632	0.01075437	1.428220277	0.759029465
PZA00085	AY106140	PCO128309	0	-1	0.00029167	10	13	267	4	0	0.005295667	0	0.002996255	0	-1.667060562	0
PZA00086	AY106134	PCO097859	Chr4	707.8	0.00025398	10	15	159	5	10	0.011115904	0.0193424219	0.006289308	0.01605271	-1.741095865	-0.64734345
PZA00087	AY106132	PCO073447	Chr3	212.2	0.00036961	14	13	191	6	13	0.009878079	0.021933035	0.01041367	0.021210901	0.194636669	-0.135591884
PZA00088	AY106131	PCO096827	Chr3	856.6	0.00016595	11	11	186	4	6	0.007342304	0.011013457	0.008602151	0.011534702	0.628287634	0.187362789
PZA00089	AY106121	PCO144011	Chr8	368.5	0.00043405	13	12	375	4	12	0.0034373	0.010596457	0.003692308	0.007070707	0.251982556	-1.397763934
PZA00090	AY106120	PCO081923	Chr8	381.7	0.00027054	14	11	193	6	8	0.009775716	0.014152006	0.012867961	0.014319359	1.135505522	0.048926173
PZA00091	AY106117	PCO122535	Chr6	75.8	0.07009279	13	12	179	0	1	0	0.00184994	0	0.000931099	0	-1.140533405
PZA00092	AY106115	PCO097482	Chr4	299.9	0.0071428	14	15	280	3	4	0.003369131	0.004393492	0.001962323	0.003061224	-1.278262016	-0.9721077
PZA00093	AY106111	PCO074668	Chr8	337.2	0.04576957	14	12	179	1	16	0.001756716	0.029599042	0.002455645	0.01887591	0.842275109	-1.564189613
PZA00094	AY106110	PCO079634	0	-1	0.00184532	11	7	193	2	6	0.003538002	0.012689013	0.005463966	0.011843079	1.6648005	-0.3386942
PZA00113	AY106109	PCO077553	Chr7	178	0.00024563	12	9	467	5	6	0.003545388	0.004727241	0.0023039549	0.003449917	-1.291194937	-1.178858538
PZA00114	AY106108	PCO137403	0	-1	0.00016895	13	9	258	3	5	0.003747057	0.007130561	0.006261181	0.006459948	2.121451886	-0.398374812
PZA00116	AY106099	PCO066535	Chr9	322.6	0.00024087	13	16	212	5	9	0.007600163	0.012793822	0.003628447	0.009669811	-1.8631113832	-0.896804873
PZA00118	AY106093	PCO112665	Chr8	348.2	0.00020743	14	15	385	3	8	0.002450277	0.006390534	0.003824747	0.003661101	1.717209427	-1.572830649
PZA00119	AY106088	PCO099462	Chr8	413.1	0.00016669	13	5	223	3	3	0.00433516	0.006457399	0.005059216	0.007174888	0.528084886	0.69899539
PZA00120	AY106085	PCO077224	Chr8	368.5	0.00011281	14	10	195	2	3	0.003225151	0.005438242	0.002085094	0.005698006	-0.959193915	0.171855885
PZA00125	AY106061	PCO065638	Chr4	254	0.0005184	5	13	221	4	4	0.008687783	0.005832523	0.008144796	0.004524887	-0.41017465	-0.761492143
PZA00127	AY106044	PCO067562	Chr9	162.5	0.00033632	14	13	9	179	0	0	0	0	0	0	0
PZA00130	AY106019	PCO139265	Chr10	410.6	0.00033632	14	14	358	6	8	0.005270148	0.007026864	0.005832157	0.006353981	0.38281044	-0.361094999
PZA00131	AY106010	PCO109103	0	-1	0.00248344	14	13	256	5	3	0.006141644	0.003776331	0.006095467	0.003055609	-0.026031534	-0.226667903
PZA00132	AY106000	PCO136000	Chr7	336.6	0.00070712	14	9	455	16	19	0.011057659	0.015364399	0.012712443	0.012454212	0.413612534	-0.928635044
PZA00133	AY105998	PCO139754	0	-1	0.00019651	9	9	304	3	6	0.003630956	0.007261913	0.002741228	0.006761696	-0.936128792	-0.300521642
PZA00134	AY105995	PCO140028	Chr3	2	0.00031111	13	15	323	8	13	0.007981347	0.012377951	0.00777963	0.007607253	-0.097887614	-1.515502598
PZA00135	AY105994	PCO089746	Chr1	1023	0.00266036	14	15	213	2	8	0.002952603	0.011550966	0.002373214	0.007690588	-0.532470316	-1.230716804
PZA00136	AY105992	PCO117584	Chr4	15.06	0.00013431	14	15	257	3	4	0.003670648	0.004786684	0.003292427	0.005113952	-0.315431909	0.219180202
PZA00137	AY105989	PCO105536	Chr1	805	0.00030854	14	11	255	5	10	0.006165729	0.013388908	0.009696186	0.014331551	1.98245673	0.299703549
PZA00138	AY105987	PCO101966	Chr5	235.6	0.00014144	10	8	313	3	4	0.003388042	0.004928753	0.003265886	0.004107713	-0.12972211	-0.726730625
PZA00139	AY105977	PCO089407	Chr4	200.3	0.00026667	12	10	316	8	12	0.003838273	0.01342351	0.009781358	0.011392405	0.66596743	-0.683421864

PZA00140	AY105973	PCO078387	0	-6	0.0005655	14	11	255	7	14	0.008632021	0.018744471	0.003921569	0.025098039	-2.013594262	1.493773602
PZA00141	AY105966	PCO143261	Chr9	263.8	0.24084795	13	13	256	0	4	0	0.005035108	0	0.003305288	0	-1.166882022
PZA00142	AY105958	PCO114043	Chr8	395.9	0.58241675	11	13	636	0	11	0	0.005573453	0	0.006611837	0	0.753098274
PZA00143	AY105953	PCO124678	Chr3	806.9	0.00047855	14	16	282	2	4	0.002230157	0.004274689	0.0022221183	0.002955083	-0.010919251	-0.965780692
PZA00144	AY105952	PCO068771	Chr2	572.4	0.0038414	11	15	258	1	3	0.001323322	0.003576098	0.001268499	0.003912883	-0.100013214	0.280140454
PZA00146	AY105924	PCO141348	Chr5	227.3	0.036	13	16	197	8	4	0.013086168	0.006119098	0.015488741	0.008840948	0.711091163	1.391603014
PZA00147	AY105914	PCO135100	Chr6	71.5	0.0794893	11	7	135	0	1	0	0.003023432	0	0.002116402	0	-1.00623059
PZA00148	AY105906	PCO103687	Chr5	343.5	0.00044438	13	13	284	10	20	0.011346722	0.022693443	0.014445648	0.020585049	1.09107151	-0.397427176
PZA00150	AY105901	PCO082767	Chr1	1023	0	12	13	166	0	0	0	0	0	0	0	0
PZA00151	AY105894	PCO083965	Chr3	544.6	0.00012364	13	16	312	2	3	0.002065685	0.002897746	0.002218935	0.002617521	0.208404935	-0.280343388
PZA00152	AY105892	PCO103778	0	-1	0.00264215	14	15	236	1	2	0.001332425	0.002606309	0.001862544	0.002744149	0.842275109	0.139159831
PZA00153	AY105888	PCO125513	0	-1	0.00013529	12	15	241	2	4	0.002748044	0.005104472	0.003269207	0.004070342	0.554177603	-0.649467226
PZA00158	AY105866	PCO121254	Chr6	71.5	0.01438443	14	16	262	1	6	0.001200199	0.006901502	0.001887426	0.003912214	1.212185563	-1.482599247
PZA00162	AY105844	PCO090678	Chr3	617.5	0	12	12	163	0	0	0	0	0	0	0	0
PZA00163	AY105839	PCO061004	Chr2	600.3	0.00025572	14	13	208	4	10	0.006047157	0.015492639	0.008717244	0.014546351	1.454506805	-0.244011475
PZA00164	AY105837	PCO124224	Chr2	492.5	0.00016376	12	16	211	4	7	0.006277522	0.00999791	0.008688784	0.010110585	1.350930185	0.039710023
PZA00166	AY105819	PCO069666	0	-1	0.00098178	13	13	297	3	2	0.003255019	0.002170013	0.001554002	0.003626004	-1.652312061	1.884815651
PZA00167	AY105815	PCO102946	0	-1	0.01132261	7	5	141	1	4	0.002894775	0.013617021	0.003377237	0.012765957	0.559016994	-0.41017465
PZA00168	AY105809	PCO090443	0	-1	0.65153268	14	15	222	0	17	0	0.023550702	0	0.012441012	0	-1.90585717
PZA00173	AY105793	PCO117628	Chr5	263.8	0.06721454	11	14	207	0	1	0	0.001519093	0	0.000690131	0	-1.155241342
PZA00175	AY105791	PCO061743	Chr1	98	0.01558905	10	14	184	1	6	0.001921118	0.010253876	0.002898551	0.007226469	1.302677905	-1.059855136
PZA00177	AY105784	PCO113764	Chr8	399.5	0.00122693	12	16	154	1	1	0.002150255	0.001956919	0.001082251	0.001515152	-1.140533405	-0.448318469
PZA00180	AY105776	PCO070385	Chr9	193.2	0.00016521	14	16	198	3	3	0.004764427	0.004566145	0.002164502	0.001893939	-1.670526133	-1.696541859
PZA00181	AY105773	PCO130847	Chr1	82.8	0.00014252	13	15	161	3	4	0.0060046	0.007640956	0.005892658	0.006861875	-0.058945061	-0.326826753
PZA00182	AY105767	PCO096351	Chr6	228.9	0.23676973	5	6	195	0	9	0	0.020213363	0	0.018461538	0	-0.516192055
PZA00183	AY105760	PCO070107	Chr9	253.8	0.00157989	11	7	186	2	6	0.003671152	0.013166557	0.003910068	0.011264721	0.19902849	-0.733837434
PZA00184	AY105759	PCO072785	Chr9	562.7	0.00100829	8	10	463	4	3	0.003331965	0.002290405	0.003933971	0.002207823	0.788218936	-0.12972211
PZA00188	AY105750	PCO146963	Chr4	277.6	0.02191558	12	8	540	2	11	0.001226442	0.007856341	0.000617284	0.007010582	-1.451383229	-0.53763193
PZA00192	AY105747	PCO110345	Chr1	224.8	0.00017128	11	13	415	3	6	0.002468076	0.004658991	0.002365827	0.002533321	-0.141796121	-1.684884269
PZA00194	AY105740	PCO079161	Chr3	299.2	0.00054888	5	6	333	11	16	0.015855856	0.021042941	0.018018018	0.018018018	0.981452758	-0.889013117
PZA00196	AY105739	PCO084555	Chr1	1099	0.00408547	6	14	158	1	4	0.002771875	0.007960815	0.002109705	0.004381694	-0.933020529	-1.481018306
PZA00197	AY105735	PCO078539	Chr6	420.4	0.00020515	14	13	195	3	6	0.004837726	0.009915289	0.004621102	0.008284024	-0.137130038	-0.607522807
PZA00198	AY105732	PCO085152	Chr3	504.8	0.00070412	10	6	381	9	18	0.008350057	0.020690844	0.007465733	0.015748031	-0.463739242	-1.485711303
PZA00200	AY105707	PCO095943	Chr1	1031	0.00054888	7	10	567	13	23	0.009358241	0.014338929	0.010078105	0.013129532	0.421260587	-0.399751438
PZA00204	AY105694	PCO071849	Chr10	301.6	0.00019966	14	15	299	4	6	0.004206718	0.006171461	0.004116285	0.002675585	-0.070815066	-1.983057138
PZA00206	AY105693	PCO060490	0	-1	0.00024563	14	16	191	7	10	0.011524426	0.01578303	0.00788217	0.015052356	-1.166199774	-0.17159339
PZA00208	AY105690	PCO065072	Chr9	90.1	0.00019755	14	14	222	3	8	0.004249354	0.01133161	0.001930502	0.007029007	-1.670526133	-1.431802207
PZA00210	AY105688	PCO142867	Chr3	190.8	0.00021707	14	13	238	4	7	0.005284911	0.00947785	0.00558685	0.010342599	0.188201855	0.346034328
PZA00211	AY105684	PCO121840	Chr7	300	0.00018763	14	14	232	3	6	0.004066192	0.008132384	0.003216184	0.004736643	0.707696027	-1.498927268
PZA00212	AY105681	PCO127407	Chr6	91.9	0.01832994	10	15	263	10	7	0.013440523	0.008185594	0.014110689	0.00854608	0.221007058	0.158595662
PZA00213	AY105678	PCO138313	Chr9	354.4	0.00041942	14	11	418	10	19	0.007522779	0.015518961	0.009753404	0.012875163	1.154539089	-0.769145855
PZA00218	AY105676	PCO101325	Chr4	302.5	0.00058317	14	15	296	11	13	0.011685723	0.01350702	0.008316008	0.014800515	-1.136549383	0.376555111
PZA00220	AY105675	PCO100130	Chr3	597.6	0.00028718	14	13	221	2	4	0.002845721	0.005832523	0.002635374	0.006845342	-0.200574184	0.589807456
PZA00222	AY105672	PCO122536	Chr5	275.9	0.00049113	12	9	227	3	11	0.00437629	0.017829543	0.00680817	0.019500073	1.822848653	-1.022617889
PZA00224	AY105671	PCO084217	Chr2	383.4	0.00030992	10	10	241	5	5	0.00733373	0.00733373	0.007284463	0.007007838	-0.026937323	-0.178186606
PZA00226	AY105667	PCO062057	Chr2	292.5	0.00020976	11	9	263	4	7	0.005192656	0.009792998	0.005254062	0.010350655	0.043300119	0.254019366

PZA00230	AY105651	PCO130567	Chr1	1128	0.00015178	14	15	235	3	5	0.004014283	0.006543499	0.003273322	0.005511651	-0.565054529	-0.531939951
PZA00232	AY105631	PCO101908	Chr7	471.4	0.00046659	13	12	363	10	18	0.008877325	0.016420129	0.010948647	0.015735871	0.932133059	-0.181637668
PZA00233	AY105629	PCO093770	0	-1	0.00070412	13	9	170	5	15	0.00947795	0.032465023	0.005279035	0.023529412	-1.57943248	-1.328114027
PZA00260	AY105616	PCO125437	0	-1	.	14	9	146	0	0	0	0	0	0	0	0
PZA00261	AY105608	PCO070562	Chr4	720.5	0.00069109	12	11	269	7	7	0.008617007	0.008884461	0.011771995	0.01000338	1.432794858	0.511061588
PZA00262	AY105587	PCO132289	Chr8	413.9	0.00034566	13	13	161	7	10	0.014010734	0.020015335	0.014014971	0.013059404	0.001146672	-1.388368319
PZA00263	AY105580	PCO127552	Chr6	72.7	0.00033938	11	13	193	2	8	0.003538002	0.013357384	0.004521903	0.010096984	0.850482716	-0.945389189
PZA00265	AY105544	PCO132999	0	-1	0.00067853	11	9	188	5	12	0.009080243	0.023485336	0.011025145	0.019208038	0.820668198	-0.862911697
PZA00266	AY105541	PCO077463	Chr6	420.4	0.00016234	13	14	160	3	4	0.006042129	0.007861305	0.00625	0.008241758	0.108777781	0.159422197
PZA00267	AY105537	PCO097944	Chr6	228.9	0.00034566	11	6	248	8	10	0.011013457	0.017659524	0.009824047	0.015053763	-0.44682074	-0.886222878
PZA00268	AY105531	PCO113958	Chr5	346.5	0.00016164	14	15	223	3	4	0.004230298	0.005516493	0.005075642	0.005210335	0.611737823	-0.177915766
PZA00269	AY105527	PCO143520	Chr8	357.9	0.0008533	13	15	181	1	1	0.00178037	0.001699141	0.000849979	0.000736648	-1.149147105	-1.159445936
PZA00270	AY105508	PCO114533	Chr8	0	0.00028499	14	15	230	6	9	0.0082031	0.012034349	0.008361204	0.008198758	0.069187488	-1.195106439
PZA00271	AY105505	PCO080224	0	-6	0.15385747	12	13	163	0	4	0	0.007907899	0	0.007078811	0	-0.356102263
PZA00272	AY105491	PCO100080	Chr3	738.7	0.00017448	14	13	200	2	5	0.003144522	0.008056172	0.001428571	0.006666667	-1.48074498	-0.61491588
PZA00273	AY105487	PCO096212	Chr5	307	0.00066642	12	15	400	7	20	0.005794937	0.015377223	0.008030303	0.014333333	1.509533015	-0.278064887
PZA00274	AY105485	PCO065024	Chr1	1061	0.00186374	6	6	323	14	12	0.018982622	0.016270819	0.018988648	0.01754386	0.001949372	0.475969209
PZA00276	AY105480	PCO116288	Chr1	1057	0.00103627	9	7	478	35	44	0.026940988	0.037571514	0.022198977	0.038951982	-0.887926645	0.211841934
PZA00277	AY105475	PCO126622	Chr2	358.6	0.00054888	9	5	515	17	19	0.012145491	0.017708738	0.007335491	0.020970874	-1.927936827	1.35938824
PZA00279	AY105471	PCO067475	0	-1	0.0003733	11	9	359	8	13	0.007608182	0.013323621	0.008609775	0.014004952	0.544673086	0.243975599
PZA00280	AY105462	PCO098051	0	-1	0.00025748	10	15	236	2	3	0.002995642	0.003909464	0.002354049	0.004035513	-0.690979993	0.095908089
PZA00282	AY105452	PCO132358	Chr4	707.8	0.00065474	14	15	317	12	18	0.011903553	0.017463093	0.010261032	0.010575334	-0.549533525	-1.601561497
PZA02788	AY105290	PCO095497	Chr5	467.2	0.00130862	13	16	258	3	9	0.003747057	0.010512753	0.004571656	0.007687339	0.695807728	-0.987077975
PZA02789	AY105285	PCO104509	Chr3	759.9	0.00113037	8	13	560	20	27	0.01374105	0.015536904	0.016517857	0.012957875	1.037067319	-0.723949211
PZA02790	AY105281	PCO065609	Chr1	210.6	.	10	15	374	20	3	0.018902982	0.002466934	0.01734997	0.001375095	-0.386205903	-1.316540048
PZA02791	AY105275	PCO143153	0	-1	0.00028718	13	13	232	5	10	0.006944976	0.013889952	0.010167993	0.012709991	1.654534942	-0.339374546
PZA02792	AY105273	PCO080549	Chr6	228.9	0.00039712	8	15	647	10	18	0.005960973	0.008556106	0.008279974	0.007683815	1.925856262	-1.413972762
PZA02793	AY105268	PCO098806	0	-1	0.00061183	11	14	391	13	18	0.011351465	0.01447606	0.012090212	0.00736067	0.284844021	-1.070939604
PZA02806	AY105208	PCO111553	Chr1	224.8	0.00029167	5	9	813	5	8	0.00295203	0.003620536	0.002706027	0.002801695	-0.561987125	-1.026525317
PZA02807	AY105206	PCO101779	Chr5	346.5	0.00526261	11	13	194	1	2	0.001759882	0.003322133	0.001686973	0.001586043	-0.100013214	-1.458005781
PZA02808	AY105203	PCO121645	Chr2	292.5	0.00042906	10	15	362	9	23	0.00878832	0.019540118	0.0090885328	0.016153644	0.147983994	-0.717325019
PZA02811	AY105196	PCO075854	Chr2	342.4	0.00013677	10	13	299	2	4	0.002364453	0.004310995	0.003344482	0.002486922	1.33722232	-1.437141942
PZA02812	AY105195	PCO078174	Chr1	886.1	0.00067853	6	7	537	15	23	0.012233414	0.017481853	0.009310987	0.020395495	-1.47246982	0.941589202
PZA02815	AY105188	PCO141473	0	-1	0.00024244	6	10	772	4	11	0.002629203	0.005036714	0.001727116	0.004173863	-1.295030853	-0.767103134
PZA02817	AY105186	PCO137477	Chr7	258.4	0.00034889	8	13	268	5	11	0.007195428	0.013226552	0.008928571	0.00822809	1.092260252	-1.527592691
PZA02818	AY105182	PCO117620	Chr4	704	0.00207039	9	16	421	8	8	0.006991676	0.005726662	0.00567432	0.004968329	-0.855193862	-0.477401811
PZA02819	AY105180	PCO105283	Chr4	411.3	0.00046659	8	12	480	9	21	0.007231405	0.014487343	0.008035714	0.014046717	0.544832188	-0.134043792
PZA02820	AY105176	PCO111982	Chr5	516.3	0.00046083	10	12	199	10	13	0.017763104	0.021632214	0.021998883	0.019872088	1.056951021	-0.344650705
PZA02822	AY105153	PCO138377	Chr7	410.5	0.17496026	11	13	199	0	3	0	0.004857993	0	0.002963356	0	-1.233004956
PZA02823	AY105141	PCO120313	Chr1	735.2	0.0005655	11	15	216	6	6	0.00948381	0.008542902	0.009090909	0.006084656	-0.164007896	-1.007365612
PZA02824	AY105140	PCO135758	Chr3	738.7	0.00018576	9	15	226	4	4	0.006512158	0.005443265	0.006637168	0.00658239	0.078027074	0.71555016
PZA02825	AY105129	PCO004576	Chr6	47.8	0.00106585	9	15	423	9	11	0.007828445	0.00799761	0.009062254	0.004277834	0.725363765	-1.792684494
PZA02826	AY105126	PCO124988	Chr2	544.4	0.00253974	7	11	239	2	11	0.003415592	0.01571376	0.004383343	0.011259034	1.16842887	-1.219852562
PZA02827	AY105121	PCO076603	Chr4	135.4	0.08663846	5	10	186	0	2	0	0.003800922	0	0.002986858	0	-0.690979993
PZA02828	AY105120	PCO133097	Chr5	641.4	0.0007774	8	15	239	5	18	0.008068513	0.023162345	0.007172744	0.014026699	-0.503443827	-1.601561497
PZA02831	AY105098	PCO087970	Chr5	227.3	0.00023933	6	10	340	2	6	0.002576213	0.006237984	0.001960784	0.006470588	-1.131972245	0.154261707

PZA02832	AY105097	PCO128421	Chr4	411.3	0.21735096	6	10	260	0	7	0	0.009516924	0	0.007777778	0	-0.774024923
PZA02833	AY105074	PCO087822	Chr10	483.7	0.00067853	8	10	236	7	7	0	0.011439511	0.010484747	0.010895884	0.00913371	-0.226143671
PZA02834	AY105069	PCO099796	Chr5	415.8	0.0002363	5	8	404	4	7	0	0.004752475	0.006862486	0.003960396	0.004773692	-1.093799066
PZA02835	AY105062	PCO090513	Chr5	617.6	0.43066696	8	11	325	2	14	0	0.002373384	0.001538462	0.001538462	0.012307692	-0.719005959
PZA02839	AY105036	PCO138614	Chr1	570.8	0.0001986	9	16	284	2	2	0	0.002591105	0.002122793	0.002738654	0.00080282	-1.497955402
PZA02841	AY105022	PCO085279	Chr2	377.4	0.00033632	10	8	250	7	8	0	0.009897601	0.012341598	0.011288889	0.012142857	0.595391063
PZA02844	AY105014	PCO078370	Chr9	145.1	0.0009161	9	11	252	1	1	0	0.001460067	0.00135483	0.000881834	0.001731602	-1.088227343
PZA02845	AY105012	PCO097858	Chr5	295	0.00033037	10	15	186	7	9	0	0.013303228	0.014881184	0.007526882	0.015924219	-1.839126245
PZA02846	AY105001	PCO123892	Chr9	128.4	0.00785928	8	10	180	1	4	0	0.002142639	0.007855239	0.001388889	0.009012346	-1.054819107
PZA02847	AY104999	PCO110981	0	-6	0.00069109	11	14	320	11	11	0	0.011736215	0.010809294	0.012159091	0.013495879	0.155042851
PZA02849	AY104983	PCO092463	Chr5	227.3	0.58662093	8	11	249	0	13	0	0.017824992	0	0.010733844	0	-1.74120928
PZA02850	AY104982	PCO116187	Chr7	471.4	0.27041016	8	14	212	0	9	0	0.013349385	0	0.009330292	0	-1.1553976
PZA02851	AY104979	PCO112869	Chr1	26.1	.	8	16	208	0	0	0	0	0	0	0	0
PZA02853	AY104970	PCO083519	Chr10	180.7	0.00186374	8	12	358	6	5	0	0.006463826	0.004189944	0.003470459	-1.639820509	-0.92012276
PZA02854	AY104960	PCO149599	Chr7	368.9	0.00017612	7	10	124	2	6	0	0.006583278	0.01710415	0.00921659	0.016487455	1.64954664
PZA02855	AY104955	PCO113584	Chr3	167	0.00081118	9	9	287	9	9	0	0.011538092	0.011538092	0.013162989	0.012001549	0.648149914
PZA02856	AY104948	PCO114882	0	-1	0.49432239	8	11	196	0	12	0	0.020903091	0	0.019480519	0	-0.295532751
PZA02860	AY104942	PCO129434	Chr3	738.7	0.00021962	10	11	230	4	8	0	0.006147578	0.011875379	0.005507246	0.009486166	-0.3999046
PZA02861	AY104938	PCO129661	0	-1	0.00024563	5	11	233	4	8	0	0.008240343	0.011722477	0.008583691	0.007491221	0.273449766
PZA02862	AY104937	PCO082324	Chr4	720.5	0.00030107	6	10	258	5	8	0	0.008487523	0.010960799	0.009560724	0.009732989	0.707667241
PZA02864	AY104931	PCO092603	Chr9	342	0.00048476	7	13	298	4	4	0	0.005478702	0.004325462	0.004742373	0.002065049	-0.876417963
PZA02865	AY104927	PCO113544	0	-1	0.0005742	7	9	491	4	3	0	0.003325159	0.002248087	0.003103482	0.002489251	-0.318697441
PZA02868	AY104900	PCO136752	Chr7	410.5	0.00054093	9	13	238	5	5	0	0.007729767	0.006769893	0.007936508	0.003770739	-1.1329309
PZA02869	AY104892	PCO092088	Chr1	26.1	0.00021962	10	12	258	5	8	0	0.006850499	0.010267985	0.003875969	0.008515386	-1.741095865
PZA02872	AY104876	PCO064560	Chr7	127.6	0.00027251	8	11	302	5	11	0	0.006385347	0.012435724	0.004139073	0.013365443	-1.595241355
PZA02873	AY104873	PCO115429	0	-1	0.11872257	7	13	261	0	3	0	0.003703987	0	0.001768347	0	-1.652312061
PZA02876	AY104855	PCO149530	Chr9	230.6	0.00019755	7	13	212	5	7	0	0.009626492	0.010640228	0.011230907	0.012215772	0.825633243
PZA02878	AY104853	PCO142365	Chr9	258.9	0.00041942	5	8	261	7	10	0	0.012873563	0.014776817	0.011494253	0.015462507	-0.746820038
PZA02881	AY104835	PCO128889	Chr5	124.7	0.00041021	8	8	250	3	2	0	0.004628099	0.003085399	0.006428571	0.002	1.600768046
PZA02886	AY104823	PCO129663	Chr8	329.4	0.00282114	7	9	235	1	2	0	0.001736865	0.003131378	0.001215805	0.001891253	-1.00623059
PZA02887	AY104818	PCO063451	Chr9	258.9	0.00057642	9	8	348	2	4	0	0.00211458	0.004433045	0.002075351	0.003899836	-0.063820058
PZA02888	AY104816	PCO092107	0	-1	0.00040306	7	11	248	1	3	0	0.00164582	0.004130046	0.001920123	0.002199413	0.559016994
PZA02894	AY104790	PCO093811	Chr5	0	0.00059875	5	5	257	2	5	0	0.003735409	0.009338521	0.004669261	0.009338521	1.458836909
PZA02897	AY104778	PCO100106	Chr9	244.1	0.18118893	6	9	234	0	5	0	0.0078619	0	0.00617284	0	-0.910042714
PZA02921	AY104664	PCO077365	Chr1	170	0.00022766	10	14	330	4	6	0	0.004284676	0.005717312	0.005656566	0.003663004	1.229295923
PZA02923	AY104661	PCO084514	0	-1	0.0087568	7	14	194	1	6	0	0.002103934	0.009725325	0.00245459	0.006797326	0.559016994
PZA02924	AY104660	PCO141288	Chr8	304.2	0.18210924	6	8	253	0	5	0	0.007622034	0	0.006352343	0	-0.755397103
PZA02927	AY104624	PCO140637	Chr8	200.3	0.01056209	9	14	205	0	2	0	0.003067826	0	0.00369874	0	0.558045548
PZA02935	AY104601	PCO085879	Chr1	1023	0.16406206	7	13	288	0	4	0	0.004475651	0	0.002581909	0	-1.437141942
PZA02938	AY104587	PCO104634	Chr4	298.9	0.00040575	7	13	286	2	7	0	0.002854289	0.007887162	0.003330003	0.004662005	0.6873111
PZA02939	AY104584	PCO129366	0	-1	0.00047855	10	12	219	3	14	0	0.004842271	0.021168721	0.002739726	0.02435312	-1.562217583
PZA02940	AY104575	PCO138774	0	-1	.	10	15	223	1	0	0	0.001585138	0	0.000898661	0	-1.111733177
PZA02941	AY104573	PCO144645	Chr5	257.8	0.00020858	9	13	271	4	9	0	0.005430803	0.010701926	0.004510045	0.009745482	-0.689138345
PZA02944	AY104556	PCO062780	Chr3	356.4	0.00160363	9	16	240	2	8	0	0.003066141	0.010045519	0.003935185	0.005902778	0.975047622
PZA02945	AY104553	PCO132517	0	-1	0.00924974	5	7	672	27	24	0	0.019285714	0.014577259	0.020535714	0.015589569	0.483378797
PZA02946	AY104550	PCO101158	0	-1	0.00059108	12	15	306	1	1	0	0.001082154	0.001005047	0.001584472	0.00043573	1.065894718
																-1.1594445936

PZA02948	AY104537	PCO143243	0	-1	0.00049113	8	8	400	10	16	0.009641873	0.015426997	0.012053571	0.012767857	1.238230862	-0.885734693
PZA02949	AY104530	PCO115834	Chr4	474.6	0.27639437	8	14	394	0	5	0	0.00399051	0	0.004127852	0	0.119160389
PZA02950	AY104529	PCO103931	Chr8	455.1	0.00029396	7	6	264	5	9	0.007730365	0.01430325	0.006132756	0.014393399	-1.023785221	-0.213977048
PZA02951	AY104528	PCO111841	Chr8	262.7	0.01832994	6	10	269	3	1	0.00488427	0.001314073	0.003717472	0.000743494	-1.233111763	-1.111731177
PZA02957	AY104500	PCO129440	Chr10	62.4	0.00023047	11	14	234	4	8	0.005836191	0.010750502	0.006371406	0.008171316	0.335793876	-0.904684812
PZA02958	AY104486	PCO109435	Chr6	373.8	0.00031638	6	11	160	2	5	0.005474453	0.010669286	0.004166667	0.005681818	-1.131972245	-1.791068507
PZA02959	AY104484	PCO107854	Chr5	160.2	0.00030854	9	7	407	6	9	0.005424132	0.009025723	0.004777505	0.007254007	-0.520105866	-1.043291696
PZA02960	AY104481	PCO077711	Chr1	929.5	0.00033632	13	15	216	9	14	0.013426954	0.019933438	0.010565052	0.020502646	-0.839669054	0.113192585
PZA02961	AY104475	PCO093080	Chr9	202.3	0.00413223	11	11	181	4	2	0.00754513	0.003772565	0.008237067	0.005253506	0.335793876	1.17620983
PZA02962	AY104472	PCO112919	Chr5	584.5	0.01229508	5	9	223	6	3	0.012914798	0.004949824	0.011659193	0.006228201	-0.668229394	0.98666206
PZA02963	AY104466	PCO114350	0	-1	0.00047855	7	12	320	4	13	0.005102041	0.013452533	0.003571429	0.01188447	-1.434138485	-0.493737203
PZA02964	AY104462	PCO061491	Chr2	544.4	0.01050927	13	15	218	1	5	0.001478197	0.007053772	0.001293813	0.005417213	-0.274290186	-0.782649599
PZA02965	AY104456	PCO066778	Chr5	343.5	0.00054888	8	13	214	4	4	0.007208877	0.006023306	0.007343124	0.006350347	0.081242474	0.184417576
PZA02966	AY104453	PCO071460	Chr1	170	0.01906384	6	13	480	1	8	0.000912409	0.005370782	0.000694444	0.004380342	-0.933020529	-0.714252396
PZA02968	AY104446	PCO085677	Chr4	264.9	0.00729286	9	15	225	1	4	0.001635275	0.005467457	0.000987654	0.006941799	-1.088227343	0.864461148
PZA02969	AY104445	PCO063886	Chr10	410.6	0.00026478	7	10	203	3	7	0.006031969	0.012189164	0.007975604	0.013355227	1.459038141	0.405194398
PZA02970	AY104443	PCO095642	0	-1	0.00019966	9	12	191	4	6	0.007705485	0.010402281	0.00901687	0.012295732	0.69175941	0.694185558
PZA02972	AY104439	PCO064449	Chr4	15.06	0.32514297	7	10	204	0	9	0	0.01559496	0	0.013180828	0	-0.677842375
PZA02977	AY104410	PCO116331	Chr7	368.9	0.00109716	5	9	231	3	2	0.006233766	0.003185601	0.005194805	0.002645503	-1.048493085	-0.583253898
PZA02980	AY104395	PCO082299	0	-1	0.01101512	11	9	504	2	11	0.00135483	0.008030369	0.000721501	0.007164903	-1.429607077	-0.506519265
PZA02981	AY104393	PCO063492	Chr2	478.7	0.00025927	12	16	313	4	4	0.004231812	0.003851317	0.004501888	0.003354633	0.224458728	-0.403468982
PZA02982	AY104386	PCO096835	Chr2	346.2	0.00028718	10	10	432	7	12	0.005727779	0.009819049	0.005864198	0.009156379	0.100879735	-0.304825097
PZA02983	AY104384	PCO096143	0	-1	0.00060197	11	15	347	11	15	0.010823022	0.013294429	0.010060257	0.01399779	-0.30325562	0.211135716
PZA02984	AY104370	PCO130633	Chr7	190.6	0.00054888	10	14	313	2	4	0.002258695	0.004018558	0.002129925	0.003475757	-0.183929414	-0.44495062
PZA02985	AY104366	PCO066933	Chr9	562.7	0.00033938	9	14	225	4	5	0.006541101	0.006987826	0.00691358	0.006007326	0.231460158	-0.485805955
PZA02986	AY104358	PCO066324	Chr3	2	0.0005184	5	6	206	9	11	0.020970874	0.023386011	0.0242771845	0.017799353	1.118605399	-1.4447466313
PZA02989	AY104324	PCO147488	Chr2	572.4	0.00032748	9	14	319	4	13	0.004613629	0.012814866	0.00522466	0.008612078	0.538326326	-1.317830825
PZA02990	AY104323	PCO085485	Chr3	189	0.0895766	5	10	78	0	2	0	0.009063737	0	0.005128205	0	-1.400850802
PZA02992	AY104311	PCO111126	Chr5	469.6	0.00034889	9	6	341	8	7	0.008631951	0.008990303	0.009123493	0.00684262	0.258460591	-1.390307981
PZA02993	AY104301	PCO071296	Chr2	538.8	0.00106585	10	8	291	9	7	0.010932549	0.009277404	0.012752959	0.0082222877	0.729121068	-0.540906525
PZA02995	AY104293	PCO110259	Chr7	123.5	0.01440256	5	8	216	1	7	0.002222222	0.012498725	0.002777778	0.008928571	1.224744871	-1.359289947
PZA02996	AY104290	PCO085555	Chr9	145.1	0.02269917	5	13	284	1	9	0.001690141	0.010212049	0.002112676	0.009660527	1.224744871	-0.212755602
PZA02997	AY104285	PCO088782	Chr1	405	0.00095663	9	9	325	3	14	0.003396341	0.015849591	0.002905983	0.012991453	-0.551570622	-0.865556768
PZA02999	AY104277	PCO120628	Chr8	206.2	0.1156483	5	5	320	0	2	0	0.003	0	0.003125	0	0.243139485
PZA03000	AY104272	PCO147921	Chr2	425.3	0.00031638	6	10	195	4	12	0.008983717	0.02175297	0.007863248	0.015612536	-0.676126573	-1.274979313
PZA03003	AY104255	PCO124332	0	-1	0.00024244	9	11	328	4	8	0.004487036	0.008327248	0.002710027	0.009866962	-1.609736848	0.765005047
PZA03004	AY104246	PCO107465	Chr1	170	0.00054093	9	16	317	6	7	0.006964106	0.00665476	0.004731861	0.005625657	-1.398442762	-0.544892567
PZA03005	AY104242	PCO062167	Chr8	374.9	0.00029867	9	15	333	6	14	0.006629494	0.012929797	0.00617284	0.009323609	-0.300521642	-1.105569194
PZA03006	AY104241	PCO131873	Chr1	1120	0.00033332	7	12	347	7	14	0.008233841	0.013360086	0.008508302	0.010261113	0.172567875	-0.98963013
PZA03007	AY104239	PCO127742	Chr7	92	0.00044438	9	14	350	5	11	0.005256242	0.009882783	0.005079365	0.005180534	-0.1425540861	-1.875327612
PZA03008	AY104238	PCO120536	Chr3	567.6	0.00028071	5	13	523	3	12	0.002753346	0.00739381	0.002294455	0.005343923	-1.048493085	-1.131951428
PZA03009	AY104236	PCO121439	0	-1	0.00027054	6	12	303	3	9	0.0043362	0.00983582	0.003960396	0.0090009	-0.447361477	-0.344555307
PZA03010	AY104223	PCO139470	Chr9	273.2	0.00165333	11	15	290	1	2	0.001177301	0.002120996	0.001128527	0.002627258	-0.100013214	0.628060056
PZA03011	AY104197	PCO110873	Chr3	-3	0.0021155	11	16	270	1	2	0.001264508	0.002232358	0.000673401	0.002067901	-1.128501595	-0.188545748
PZA03012	AY104190	PCO098162	0	-1	0.00026292	9	15	325	4	5	0.004528454	0.004731453	0.004273504	0.005157509	-0.228839094	0.303758874
PZA03013	AY104189	PCO120932	Chr4	0	0.1156483	6	12	297	0	3	0	0.003344841	0	0.002142639	0	-1.179008096

PZA03014	AY104183	PCO088366	Chr1	433	0.00667711	9	13	339	2	18	0.002170719	0.017110455	0.001311046	0.021632252	-1.362404657	1.121369063
PZA03015	AY104180	PCO062733	Chr5	189.8	.	12	11	183	1	0	0.001809504	0	0.000910747	0	-1.140533405	0
PZA03016	AY104162	PCO135861	0	-1	0.00177515	6	13	319	2	10	0.002745807	0.010101783	0.002089864	0.004822763	-1.131972245	-2.087697502
PZA03017	AY104160	PCO080306	Chr4	669.8	0.00063256	5	9	347	13	19	0.017982709	0.020146402	0.02074928	0.020012808	1.117280555	-0.03251093
PZA03018	AY104148	PCO088579	Chr1	1097	0.00046659	8	12	374	10	16	0.010312164	0.014166386	0.011268144	0.01328472	0.458922076	-0.25537944
PZA03019	AY104147	PCO106418	Chr3	349.5	0.43568939	10	16	312	0	13	0	0.012556899	0	0.008547009	0	-1.231549077
PZA03020	AY104145	PCO074309	Chr7	471.4	0.00054093	6	7	291	3	12	0.004515012	0.016831475	0.003436426	0.012763868	-1.233111763	-1.315870965
PZA03024	AY104127	PCO110287	Chr5	500.1	0.00042419	12	15	301	7	18	0.007700913	0.018391363	0.007953287	0.012403101	0.128246192	-1.322128853
PZA03025	AY104125	PCO068046	Chr1	467	0.00300082	14	15	228	1	2	0.001379176	0.002697758	0.002608566	0.002589808	-1.155241342	-0.105290282
PZA03027	AY104121	PCO141133	Chr6	393.9	0.00116565	12	10	326	17	16	0.017267999	0.017348994	0.002026399	0.018882072	0.752859064	0.409066848
PZA03028	AY104119	PCO102509	Chr1	450.8	0.05669378	10	5	235	1	6	0.001504195	0.012255319	0.000851064	0.011063317	-1.111733177	-0.668229394
PZA03032	AY104108	PCO105395	Chr1	526.4	0.00091001	6	13	393	6	21	0.006866354	0.0172193	0.008142494	0.013505578	1.24649089	-0.925806987
PZA03033	AY104096	PCO134301	Chr2	251.1	0.10865505	10	11	227	0	2	0	0.003008081	0	0.002242691	0	-0.778152851
PZA03034	AY104090	PCO128580	Chr5	124.7	0.54135798	9	8	418	0	10	0	0.009226673	0	0.00683527	0	-1.28306227
PZA03035	AY104088	PCO138983	Chr3	261.1	0.01024682	10	14	302	1	3	0.001170483	0.003123697	0.000662252	0.001419111	-1.111733177	-1.670526133
PZA03036	AY104086	PCO095808	Chr9	275.1	0.00041021	8	11	350	12	22	0.01322314	0.021460507	0.012755102	0.017246753	-0.17809013	-0.894994267
PZA03037	AY104085	PCO081708	Chr1	987.3	0.00043915	9	11	307	8	12	0.009587933	0.013345296	0.010857763	0.011015694	0.601123499	-0.758045815
PZA03041	AY104072	PCO110104	Chr6	235.8	0.00025398	12	10	321	6	8	0.006189519	0.00809614	0.008260172	0.009899619	1.275852175	0.533813107
PZA03042	AY104065	PCO076650	Chr5	286.5	0.35615295	8	16	349	0	6	0	0.00518107	0	0.003629417	0	-1.025119925
PZA03043	AY104064	PCO115996	Chr4	245.5	0.00033332	10	15	269	8	11	0.010512588	0.012576168	0.011978521	0.011046203	0.601619884	-0.4689000216
PZA03046	AY104052	PCO143347	Chr5	0	0.00030107	9	15	251	4	4	0.005863537	0.004901107	0.004648074	0.005767407	-0.842571429	0.566639173
PZA03047	AY104051	PCO093410	Chr8	315.2	0.00033938	8	13	316	8	13	0.009763922	0.013256992	0.011188969	0.010386238	0.705793178	-0.89179644
PZA03048	AY104045	PCO119540	Chr1	1097	0.00025226	11	14	268	5	9	0.006369723	0.01059961	0.007327001	0.007831721	0.575817882	-0.991482538
PZA03049	AY104044	PCO146768	Chr4	554.1	0.00106585	8	11	450	10	22	0.008570554	0.016691505	0.011349206	0.016727273	1.604964409	0.00976752
PZA03051	AY104037	PCO139346	0	-1	0.40523798	7	5	339	0	8	0	0.011327434	0	0.01179941	0	0.293579619
PZA03054	AY104021	PCO094851	Chr3	190.8	0.00022357	8	14	290	5	9	0.006649568	0.009758861	0.004310345	0.008147025	-1.595241355	-0.633849674
PZA03055	AY104018	PCO062587	Chr9	638.7	0.03484181	6	7	302	1	8	0.001450186	0.010812272	0.01103753	0.010091454	-0.933020529	-0.3502156
PZA03056	AY104011	PCO104919	Chr9	193.2	0.00040139	8	8	143	9	12	0.024273247	0.03236433	0.015734266	0.02227772	-1.723219238	-1.575856991
PZA03057	AY103999	PCO068021	0	-1	0.00026667	8	9	190	5	8	0.01014934	0.015492081	0.011842105	0.011988304	0.756322551	-1.026525317
PZA03058	AY103996	PCO067521	Chr9	162.5	0.0016946	8	13	425	16	16	0.014519527	0.012131648	0.01605042	0.013695324	0.541796645	0.541527503
PZA03060	AY103994	PCO089335	Chr4	244.5	0.00019147	10	11	277	3	7	0.003828366	0.00862787	0.002727637	0.006038727	-1.034456093	-1.217751
PZA03061	AY103992	PCO096443	Chr8	571.5	0.00103627	10	15	265	8	8	0.010671268	0.009284361	0.006037736	0.004025157	-1.87332747	-2.086001416
PZA03063	AY103983	PCO126984	0	-1	0.00028718	11	11	250	5	11	0.006828343	0.015022355	0.005090909	0.014472727	-0.974900787	-0.157433379
PZA03064	AY103973	PCO124850	Chr1	805	0.00024244	7	7	233	3	6	0.005255321	0.010510642	0.003678725	0.011444921	-1.358414821	0.451592267
PZA03067	AY103963	PCO106203	Chr3	461.1	0.00120321	8	6	317	7	5	0.008516481	0.006907827	0.007548445	0.006519453	-0.540906525	-0.314656963
PZA03068	AY103959	PCO088678	0	-1	0.08769716	9	13	416	1	14	0.000884464	0.010844847	0.000534188	0.012512327	-1.088227343	0.63799507
PZA03069	AY103957	PCO116832	Chr9	562.7	0.00024725	9	13	345	3	9	0.003199452	0.008406441	0.003703704	0.006837607	0.60210389	-0.735183479
PZA03070	AY103956	PCO081262	0	-1	0.00044438	9	16	291	5	6	0.00632194	0.006213723	0.008400153	0.005756014	1.392462845	-0.252137622
PZA03071	AY103950	PCO137410	Chr10	309	.	5	14	504	13	7	0.01238092	0.004367391	0.011111111	0.004513344	-0.744853703	0.123313578
PZA03073	AY103945	PCO073257	Chr8	413.9	0.00031111	8	16	362	6	11	0.006392462	0.009157518	0.008385951	0.005709024	1.453720502	-1.422728866
PZA03074	AY103941	PCO095480	Chr1	618.5	0.00033938	9	13	395	9	18	0.008383373	0.014684669	0.011392405	0.010094125	1.651929985	-1.3264747
PZA03075	AY103931	PCO140521	Chr5	85.1	0.0003733	10	11	191	4	11	0.007402843	0.019662768	0.008260617	0.016373156	0.444866042	-0.719890593
PZA03076	AY103922	PCO082497	Chr1	1015	0.00039294	9	11	318	9	17	0.010413309	0.01825186	0.011355695	0.015037164	0.416508359	-0.788786912
PZA03079	AY103907	PCO122604	Chr9	562.7	0.00086772	9	14	199	6	18	0.011093576	0.028442911	0.008096036	0.017173781	-1.178858538	-1.642331979
PZA03081	AY103898	PCO115124	0	-1	0.00034566	8	10	238	6	7	0.009722897	0.01039664	0.013505402	0.009430439	1.813434573	-0.393631593
PZA03082	AY103896	PCO149247	Chr6	75.8	0.00040575	9	11	317	7	10	0.008124279	0.010770257	0.004907115	0.010553484	-1.766629455	-0.085677849

PZA03083	AY103895	PCO112590	Chr2	375.3	0.12657204	7	14	327	0	3	0	0.002884882	0	0.002385993	0	-0.529394155
PZA03085	AY103868	PCO116159	0	-1	0.0005257	5	8	494	13	23		0.017956525	0.013360324	0.014097744	0.418980208	-1.126620338
PZA03086	AY103866	PCO068679	0	-1	0.00020515	9	14	386	2	7		0.005702501	0.00115141	0.004355748	-1.362404657	-0.871453865
PZA03089	AY103861	PCO062153	Chr6	504.8	0.00015688	11	12	202	3	4		0.005070552	0.003420342	0.003975398	-1.113905414	-1.38478621
PZA03090	AY103859	PCO146670	Chr6	98.4	0.00073171	6	10	274	7	21		0.011188662	0.01459854	0.025709651	1.773681943	-0.240567856
PZA03091	AY103857	PCO135707	Chr5	230.4	0.11036383	10	15	249	0	3		0.003705355	0	0.002065404	0	-1.316540048
PZA03092	AY103848	PCO061754	Chr7	471.4	0.00042906	10	14	338	9	19		0.009412343	0.011439842	0.013524937	0.943224201	-0.977818137
PZA03094	AY103841	PCO136641	0	-1	0.00040575	9	12	223	8	11		0.013199531	0.010961634	0.013996467	-0.769528135	-0.595487456
PZA03095	AY103840	PCO125096	Chr5	286.5	0.39277395	9	7	428	0	7		0.006675567	0	0.006898086	0	0.172567875
PZA03097	AY103830	PCO109717	Chr9	226.3	0.00025927	7	11	264	5	9		0.007730365	0.006854257	0.010606061	-0.561430605	-0.373036544
PZA03099	AY103825	PCO072668	Chr7	405.5	0.00039712	8	8	250	7	15		0.010798898	0.010285714	0.020142857	-0.226143671	-0.662810187
PZA03100	AY103811	PCO091453	Chr1	280	0.00033632	7	10	187	6	10		0.013096148	0.018902982	0.016042781	0.451592267	-0.670666503
PZA03101	AY103801	PCO153908	0	-1	0.00106585	5	12	248	10	31		0.019354839	0.04139241	0.023387097	1.490831735	0.089709523
PZA03102	AY103798	PCO149393	Chr6	322.9	0.00046083	8	10	353	8	9		0.008740508	0.007689195	0.007176582	-0.5816587	-0.891945507
PZA03103	AY103776	PCO077793	Chr8	128.6	0.00020743	9	8	188	5	7		0.009785557	0.012115839	0.011208207	1.008711918	-1.044527092
Notes:																
PZ no. is the reference number of the alignment at www.panzea.org																
Unigene is the Genbank reference number of the Unigene to which primers were designed																
Overgo identification can be used to identify corresponding BACs and contigs in MaizeFPC (http://www.genome.arizona.edu/fpc/maize/)																