

Fig S1 A maximum likelihood phylogenetic tree of *V. cholerae* based on the SNP differences within the core genome. The 6 major O1 clinical groups are L1 - L6 with L2 being the 7th pandemic El Tor and L1 representing the classical lineage. L7 and L8 are formed solely by V52 and BX3300286 respectively. The numbers of SNP differences indicated are relative to the reference N16961 El Tor strain in L2, marked by the bright pink arrow, and in brackets is the information about the date range covered in our strain collection. The scale is given as the number of substitutions per variable site.

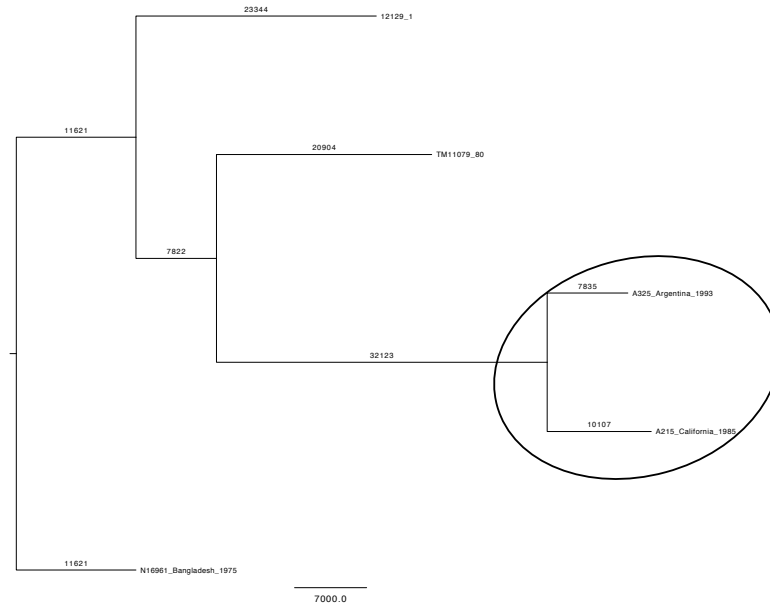


Fig S2 Comparison of the Non-conventional strains in our collection (clinical) with those from Chun *et al* (environmental). The two clinical Non-Conventional O1 strains are circled, which although they share common ancestor with TM11079_80, are different from their environmental counterparts by ~40,000 SNPs and form a separate lineage. The tree is rooted using N16961 reference El Tor strain and the scale bar indicates the number of SNPs differences against it.

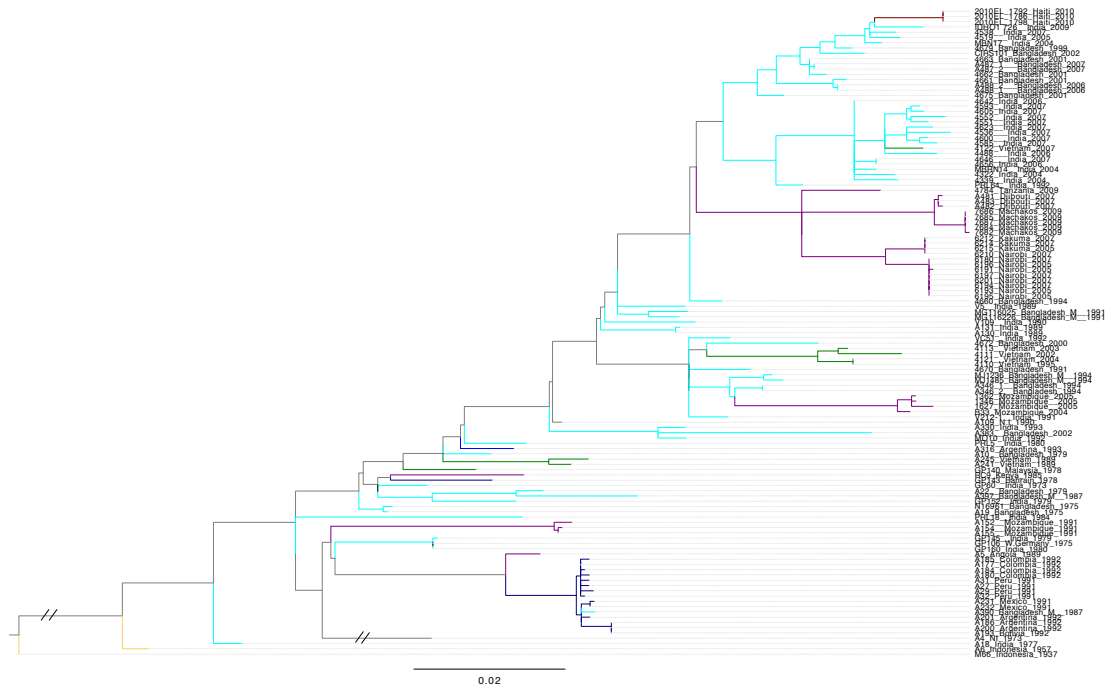


Fig S3 The maximum likelihood phylogenetic tree of the 7th pandemic lineage of *V. cholerae* based on the SNP differences across the whole core genome, excluding likely recombination events. The pre-7th pandemic isolate M66 was used as an outgroup to root the tree. Branches are colored based on the region of isolation of the strains and the names of taxa include metadata about their isolation place and year. The scale is given as the number of substitutions per variable site.

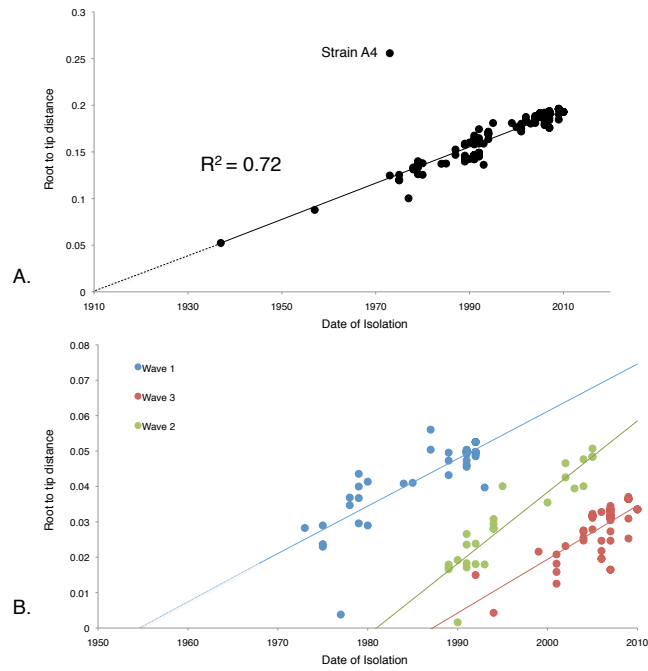


Fig S4 A) Linear regression plot of the 7th pandemic strains showing the correlation (R^2) between the root-to-tip distance (y-axis) and the date of isolation (x-axis). B) Plot of root-to-tip distance for each wave considered separately. Laboratory strain A4, a clear outlier in the 7th pandemic analysis, was not taken into account in the separate wave 1 analysis.

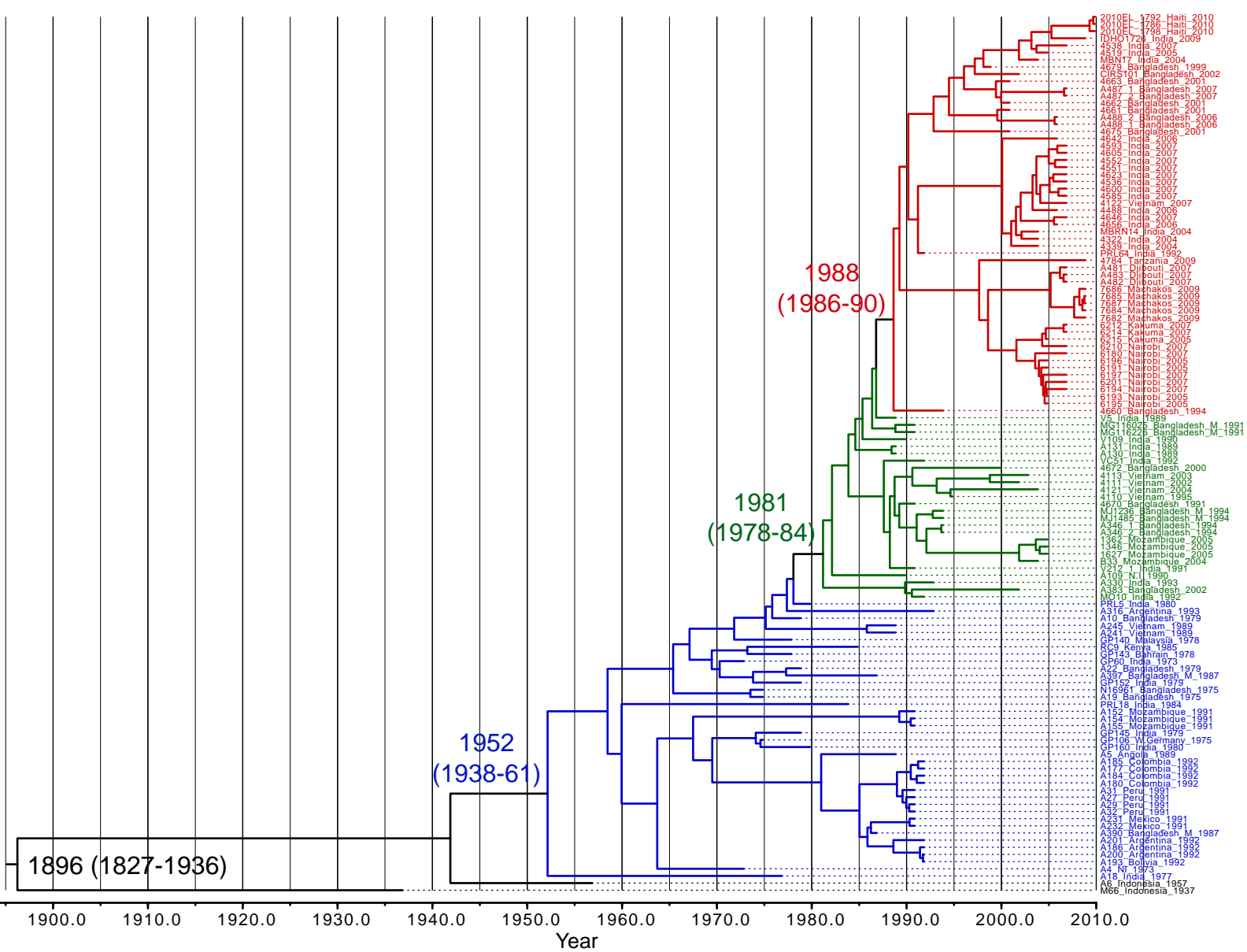


Fig S5 Maximum clade credibility tree generated by the BEAST analysis of 7th cholera pandemic. Node heights are the median values obtained from the BEAST analysis. Highlighted dates are the median values predicted by BEAST with the date range provided representing the 95% confidence interval on the estimate. The dates shown are for the MRCAs of the El Tor lineage, wave 1, SXT acquisition, wave 2 and wave 3.

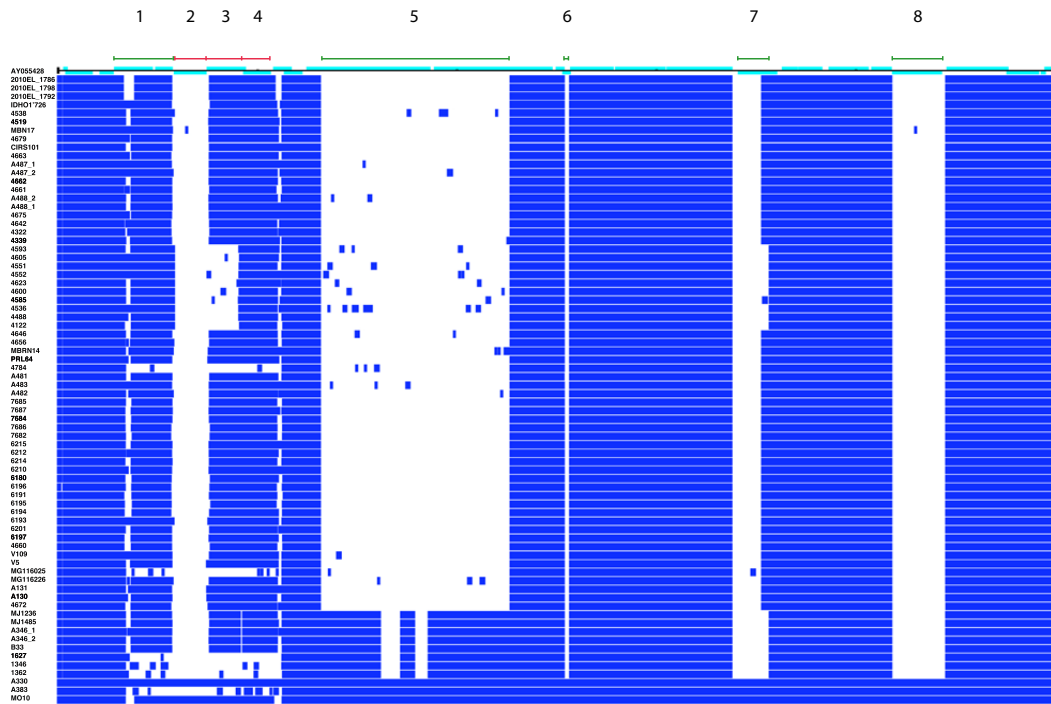


Fig S6 Plots showing presence (blue) or absence (white) information of the genes of SXT of O139 strain MO10 (accession number AY055428) in all the 7th pandemic strains possessing SXT/R391 ICE insertion in their *prfC* gene. The regions marked by green bars are variable and those marked with red bars are variable and encode antibiotic resistance (2, Trimethoprim; 3, Floramphenicol; and 4, Streptomycin and Sulfonamide). Regions numerically marked are (as in Genbank): *tnp* - *tnpB* (1), *dhfR18* - *dcd* (2), ‘*tnpB* - *tnpB*’ (3), *strB* - *sulIII* (4), *s026* - *s040* (5), *s044* - *s045* (6), *s060* - *s062* (7) and CDS - CDS (8).

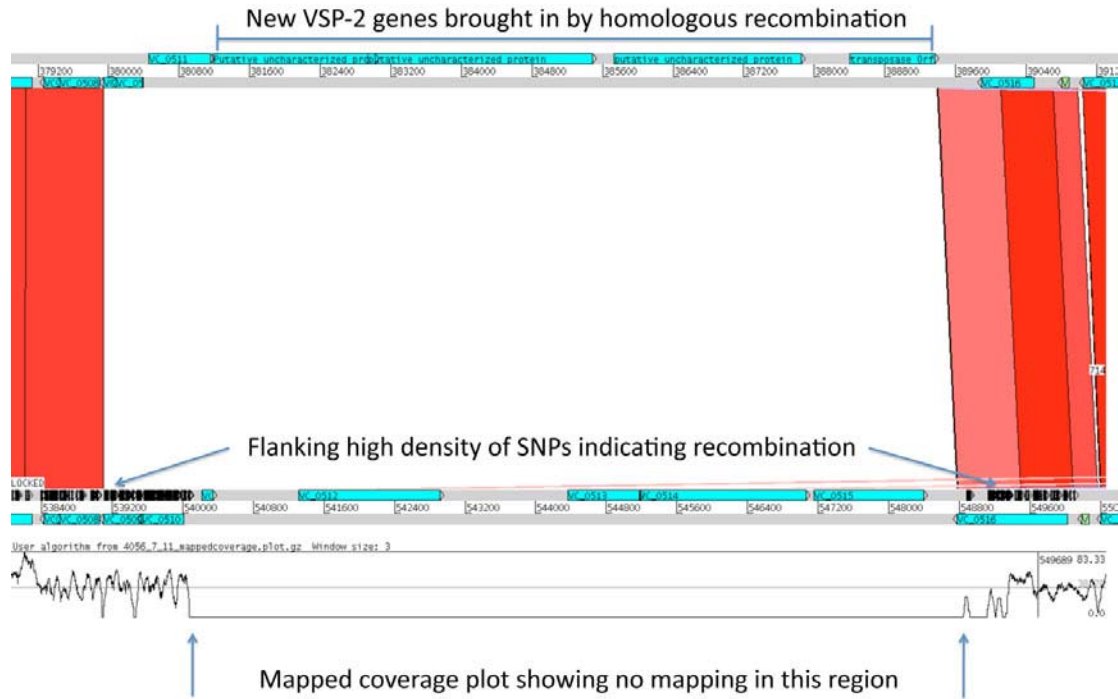


Fig S7 ACT picture showing recombination in WASA cluster. The genomes compared are A193 (top) and N16961 (bottom) where A193 represents the WASA cluster. High SNP density flanking the region replaced with new genes indicates the likely recombination event.

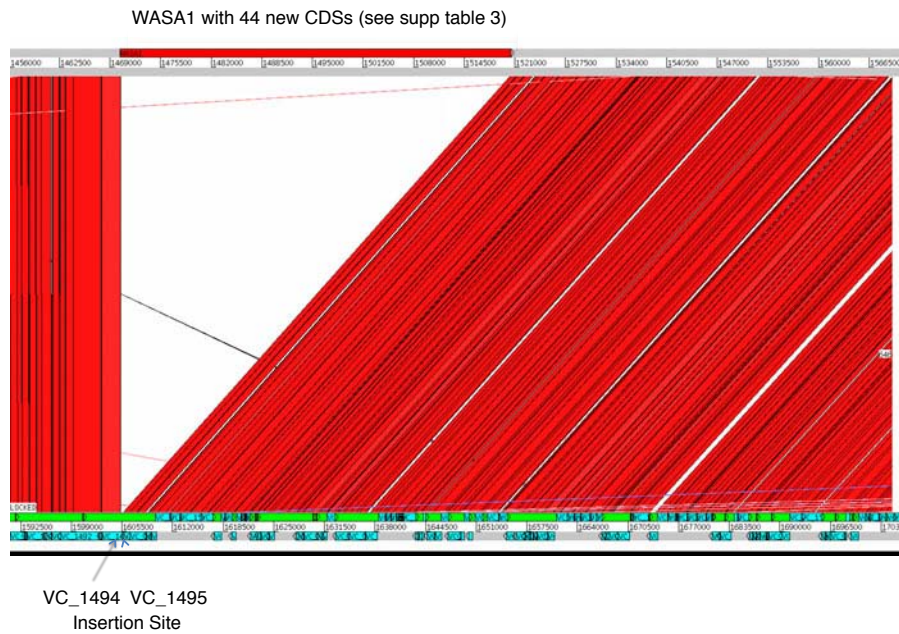


Fig S8 ACT picture showing insertion of WASA 1 within VC_1494 (product, aminopeptidase N). The genomes compared are A193 (top) and N16961 (bottom) and the insertion was present in all the WASA strains in our collection.

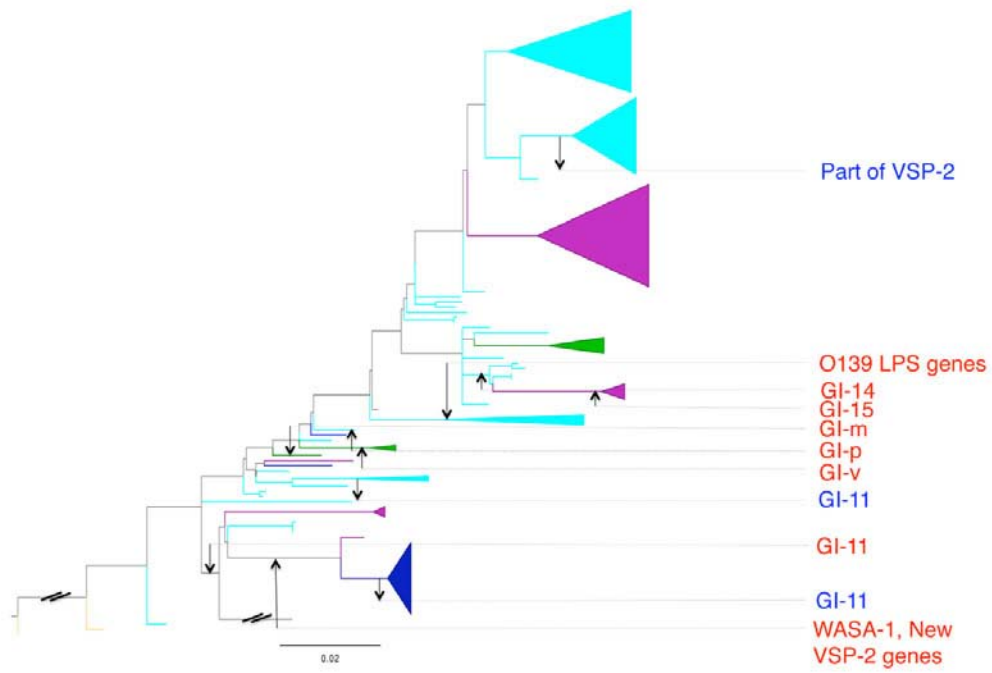


Fig S9 The maximum likelihood tree for 7th pandemic strains with the gene flux plotted on the branches. Genomic Islands colored red are the insertions and those colored blue denote the deletions. The details of the genes carried on these genomic islands or region of differences are in the supplementary table S3.

Table S1. Strains used in this study. The colours indicate the lineage (L1-L8) they belong to, as shown in Fig S1.

Strain Name	Isolation place	Isolation Year	Serotype	Original ID	Accession Number
A330	India	1993	O139	A330	ERS013124
A383	Bangladesh	2002	O139	A383	ERS013125
A488(2)	Bangladesh	2006	Ogawa	A488	ERS013129
V5	India	1989	Ogawa	V5	ERS013130
V109	India	1990	Ogawa	V109	ERS013131
V212-1	India	1991	Ogawa	V212-1	ERS013132
VC51	India	1992	Ogawa	VC51	ERS013133
MBN17	India	2004	Inaba	MBN17	ERS013134
MG116025	Bangladesh(M)	1991	Ogawa	MG116025	ERS013135
MJ1485	Bangladesh(M)	1994	Inaba	MJ1485	ERS013126
MBRN14	India	2004	Ogawa	MBRN14	ERS013127
GP8	India	1970	Inaba	GP8	ERS013128
GP16	India	1971	Inaba	GP16	ERS013136
GP60	India	1973	Ogawa	GP60	ERS013137
GP106	W.Germany	1975	Ogawa	GP106	ERS013140
GP140	Malaysia	1978	Ogawa	GP140	ERS013141
GP143	Bahrain	1978	Inaba	GP143	ERS013142
GP145	India	1979	Inaba	GP145	ERS013143
PRL5	India	1980	Ogawa	PRL5	ERS013145
GP152	India	1979	Inaba	GP152	ERS013146
IDHO1'726	India	2009	Ogawa	IDHO1'726	ERS013147
PRL18	India	1984	Ogawa	PRL18	ERS013138
PRL64	India	1992	Ogawa	PRL64	ERS013139
A46	N.I	1964	Ogawa	A46	ERS013160
A49	N.I	1962	Inaba	A49	ERS013161
A50	Bangladesh	1963	Ogawa	A50	ERS013164
A51	Egypt	1949	Ogawa	Cairo 50	ERS013165
A57	India	1980	Ogawa	U10198	ERS013166
A59	India	1970	Inaba	A59	ERS013167
A60	Thailand	1958	Inaba	A60	ERS013168
A61	India	1970	Inaba	A61	ERS013169
A66	Bangladesh	1962	Inaba	A66	ERS013170
A68	Egypt	1949	Inaba	Cairo 48	ERS013171
A70	Bangladesh	1969	Inaba	G28190	ERS013162
A76	Bangladesh	1982	Inaba	X19850	ERS013163
A103	N.I	1990	Inaba	V584	ERS013172
A109	N.I	1990	Ogawa	V588	ERS013173
A111	N.I	1990	Inaba	V591	ERS013176
A130	India	1989	Ogawa	IDH-11	ERS013177
A131	India	1989	Ogawa	IDH-12	ERS013178
A152	Mozambique	1991	Ogawa	VC1	ERS013179
A154	Mozambique	1991	Ogawa	VC3	ERS013180
A155	Mozambique	1991	Inaba	VC3 no hem	ERS013181
A177	Colombia	1992	Inaba	602	ERS013182
A180	Colombia	1992	Inaba	1388	ERS013183
A184	Colombia	1992	Ogawa	6216	ERS013174
A185	Colombia	1992	Ogawa	6216 no hem	ERS013175
A186	Argentina	1992	Ogawa	S122	ERS013184
A193	Bolivia	1992	Ogawa	S132	ERS013185
A200	Argentina	1992	Ogawa	F14	ERS013188
A201	Argentina	1992	Inaba	BsAs110	ERS013189
A209	Florida	1980	Inaba	2741-80	ERS013190
A213	Georgia	1984	Inaba	0917-84	ERS013191
A215	California	1985	Inaba	2483-85	ERS013192
A217	Louisiana	1986	Inaba	2469-86	ERS013193
A219	Georgia	1986	Inaba	2538-86	ERS013194
A231	Mexico	1991	Inaba	VC21R	ERS013195
A232	Mexico	1991	Inaba	VC22S	ERS013186
A241	Vietnam	1989	Inaba	43/89	ERS013187
A245	Vietnam	1989	Ogawa	148/89	ERS013196
A279	Sweden	1990	Inaba	K216/92	ERS013197
A316	Argentina	1993	Ogawa	SO1419	ERS013200
A325	Argentina	1993	Inaba	B1/W	ERS013201
A346(2)	Bangladesh	1994	Ogawa	A346	ERS013202
A389	Bangladesh(M)	1987	Inaba	VM11647	ERS013203
A390	Bangladesh(M)	1987	Ogawa	VM12229	ERS013204

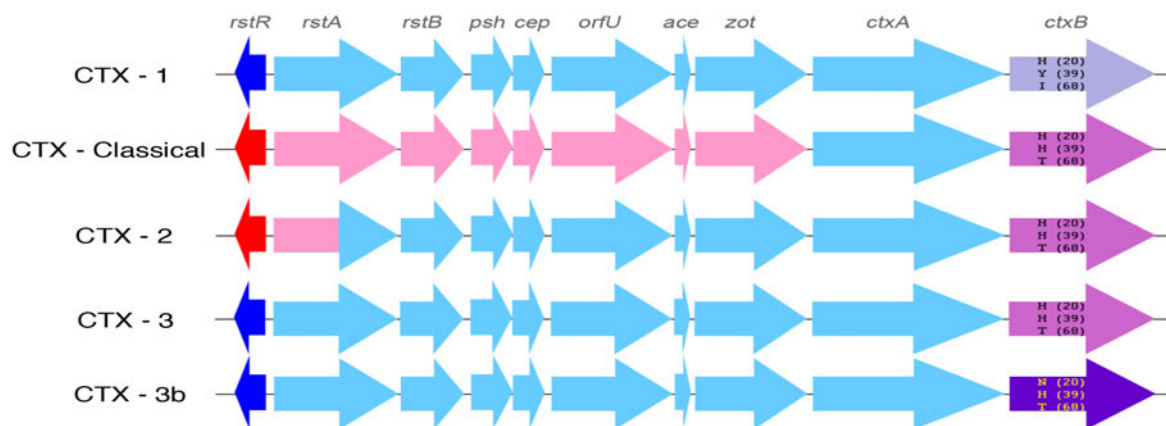
A397	Bangladesh(M)	1987	Ogawa	VM14169	ERS013205
A481	Djibouti	2007	Inaba	1	ERS013206
A482	Djibouti	2007	Inaba	2	ERS013207
A483	Djibouti	2007	Inaba	3	ERS013198
A487(2)	Bangladesh	2007	Inaba	A487	ERS013199
4110	Vietnam	1995	Inaba	IB4110	ERS013252
4111	Vietnam	2002	Inaba	IB4111	ERS013253
4322	India	2004	Inaba	IB4322	ERS013254
4642	India	2006	Inaba	IB4642	ERS013255
4670	Bangladesh	1991	Inaba	MG116926	ERS013256
4672	Bangladesh	2000	Ogawa	E1781	ERS016137
4122	Vietnam	2007	Ogawa	IB4122	ERS013264
4605	India	2007	Ogawa	IB4605	ERS013257
4656	India	2006	Ogawa	IB4656	ERS013258
4675	Bangladesh	2001	Ogawa	E1978	ERS013259
4679	Bangladesh	1999	Ogawa	AR-32732	ERS013260
4663	Bangladesh	2001	Ogawa	MQ1273	ERS013261
4661	Bangladesh	2001	Ogawa	MQ4	ERS013263
4660	Bangladesh	1994	Ogawa	VC073	ERS013262
6180	Nairobi	2007	Inaba	6180	ERS013208
6210	Nairobi	2007	Inaba	6210	ERS013218
6201	Nairobi	2007	Inaba	6201	ERS013217
6197	Nairobi	2007	Inaba	6197	ERS013216
6196	Nairobi	2005	Inaba	6196	ERS013215
6195	Nairobi	2005	Inaba	6195	ERS013214
6194	Nairobi	2007	Inaba	6194	ERS013213
6193	Nairobi	2005	Inaba	6193	ERS013212
6215	Kakuma	2005	Inaba	6215	ERS013211
6214	Kakuma	2007	Inaba	6214	ERS013210
6191	Nairobi	2005	Inaba	6191	ERS013209
6212	Kakuma	2007	Inaba	6212	ERS013219
7682	Machakos	2009	Inaba	7682	ERS013220
7687	Machakos	2009	Inaba	7687	ERS013226
7686	Machakos	2009	Inaba	7686	ERS013225
7685	Machakos	2009	Inaba	7685	ERS013224
7684	Machakos	2009	Inaba	7684	ERS013221
1346	Mozambique	2005	Inaba	IB1346	ERS013265
4551	India	2007	Ogawa	IB4551	ERS013266
4623	India	2007	Ogawa	IB4623	ERS013267
4593	India	2007	Ogawa	IB4593	ERS013268
4538	India	2007	Inaba	IB4538	ERS013269
4339	India	2004	Ogawa	IB4339	ERS013270
4121	Vietnam	2004	Ogawa	IB4121	ERS013271
4113	Vietnam	2003	Inaba	IB4113	ERS013273
4585	India	2007	Ogawa	IB4585	ERS013232
4552	India	2007	Ogawa	IB4552	ERS013233
4488	India	2006	Ogawa	IB4488	ERS013234
4784	Tanzania	2009	Ogawa	IB4784	ERS013235
4600	India	2007	Ogawa	IB4600	ERS013236
4646	India	2007	Ogawa	IB4646	ERS013237
4662	Bangladesh	2001	Ogawa	IB4662	ERS013238
4519	India	2005	Ogawa	IB4519	ERS013239
4536	India	2007	Ogawa	IB4536	ERS013240
1362	Mozambique	2005	Ogawa	IB1362	ERS013241
1627	Mozambique	2005	Ogawa	IB1627	ERS013242
GP160	India	1980	Ogawa	GP160	ERS013243
A4	N.I	1973	Inaba	1824	ERS013244
A5	Angola	1989	Inaba	SBL	ERS013245
A6	Indonesia	1957	Inaba	C5	ERS013246
A10	Bangladesh	1979	Ogawa	T20567	ERS013247
A18	India	1977	Inaba	Phil6973	ERS013248
A19	Bangladesh	1971	Inaba	N16961	ERS013249
A22	Bangladesh	1979	Inaba	T19479	ERS013250
A27	Peru	1991	Inaba	174	ERS013251
A29	Peru	1991	Inaba	175	ERS013274
A31	Peru	1991	Inaba	176	ERS013275
A32	Peru	1991	Inaba	176 no hem	ERS013276

A346(1)	Bangladesh	1994	Ogawa	A346	ERS013278
A488(1)	Bangladesh	2006	Ogawa	A488	ERS013279
A487(1)	Bangladesh	2007	Inaba	A487	ERS013281
MG116226	Bangladesh(M)	1991	Ogawa	MG116226	ERS013282
A215	California	1985	Inaba	2483-85	ERS013277
A325	Argentina	1993	Inaba	B1/W	ERS013280
N16961	Bangladesh	1975*	Inaba	N16961	AE003852/AE003853
M66	Indonesia	1937	N.I	M66	CP001233/CP001234
2010EL_1786	Haiti	2010	Ogawa	2010EL_1786	AELH00000000.1
2010EL_1792	Haiti	2010	Ogawa	2010EL_1792	AELJ00000000.1
2010EL_1798	Haiti	2010	Ogawa	2010EL_1798	AELI00000000.1
B33	Mozambique	2004	Ogawa	B33	ACHZ00000000
CIRS101	Bangladesh	2002	Inaba	CIRS101	ACVW00000000
MJ1236	Bangladesh(M)	1994	Inaba	MJ1236	CP001485/CP001486
MO10	India	1992	O139	MO10	AAKF03000000
RC9	Kenya	1985	Ogawa	RC9	ACHX00000000
BX330286	Australia	1986	Inaba	BX330286	ACIA00000000
MAK757	Celebes_Islands	1937	Ogawa	MAK757	AAUS00000000
NCTC_8457	Saudi_Arabia	1910	Inaba	NCTC_8457	AAWD01000000
V52(O37)	Sudan	1968	O37	V52(O37)	AAKJ02000000
2740_80	USGulfCoast	1980	Inaba	2740_80	AAUT01000000
O395_Combined	India	1965	Ogawa	O395_Combined	CP000626/CP000627
12129_1	Australia	1985	Inaba	12129	ACFQ00000000
TM11079-80	Brazil	1980	Ogawa	TM11079-80	ACHW00000000

*incorrectly assigned 1971 in all previous publications, corrected in our manuscript to 1975 after a record check by G Balakrish Nair

NI = No Information
(M) = Matlab

Table S2. 7th Pandemic strains coloured according to their membership of each of the waves (wave 1, 2 or 3). The CTX type and structure information for each strain is also given.



Strain Name	Chr 1 CTX structure	Chr 2 CTX structure	Note
2010EL_1792_Haiti_2010	TLC-RS1-CTX-3	Blank	
2010EL_1786_Haiti_2010	TLC-RS1-CTX-3	Blank	
2010EL_1798_Haiti_2010	TLC-RS1-CTX-3	Blank	
IDHO1726_India_2009	TLC-RS1-RS1-CTX-3	Blank	
4538_India_2007	TLC-RS1-CTX-3	Blank	
4519_India_2005	TLC-RS1-CTX-3	Blank	
MBN17_India_2004	TLC-RS1-CTX-3	Blank	
4679_Bangladesh_1999	TLC-RS1-CTX-3	Blank	
CIRS101_Bangladesh_2002	TLC-RS1-CTX-3	Blank	
4663_Bangladesh_2001	TLC-RS1-CTX-3	Blank	
A487_1_Bangladesh_2007	TLC-RS1-CTX-3	Blank	
A487_2_Bangladesh_2007	TLC-RS1-CTX-3	Blank	
4662_Bangladesh_2001	TLC-RS1-CTX-3	Blank	
4661_Bangladesh_2001	TLC-RS1-CTX-3	Blank	
A488_2_Bangladesh_2006	TLC-RS1-CTX-3	Blank	
A488_1_Bangladesh_2006	TLC-RS1-CTX-3	Blank	
4675_Bangladesh_2001	TLC-RS1-CTX-3	Blank	
4642_India_2006	TLC-RS1-CTX-3	Blank	
4593_India_2007	TLC-RS1-CTX-3	Blank	CTX-3b (A instead of C at nucleotide base position 58 in ctxB)
4605_India_2007	TLC-RS1-CTX-3	Blank	CTX-3b (A instead of C at nucleotide base position 58 in ctxB)
4552_India_2007	TLC-RS1-CTX-3	Blank	
4551_India_2007	TLC-RS1-CTX-3	Blank	
4623_India_2007	TLC-RS1-CTX-3	Blank	
4536_India_2007	TLC-RS1-CTX-3	Blank	
4600_India_2007	TLC-RS1-CTX-3	Blank	
4585_India_2007	TLC-RS1-CTX-3	Blank	
4122_Vietnam_2007	TLC-RS1-CTX-3	Blank	
4488_India_2006	TLC-RS1-CTX-3	Blank	
4646_India_2007	TLC-RS1-CTX-3	Blank	
4656_India_2006	TLC-RS1-CTX-3	Blank	
MBRN14_India_2004	TLC-RS1-RS1-CTX-3	Blank	CTX-3b (A instead of C at nucleotide base position 58 in ctxB)
4322_India_2004	TLC-RS1-CTX-3	Blank	
4339_India_2004	TLC-RS1-CTX-3	Blank	
PRL64_India_1992	TLC-RS1-RS1-CTX-3	Blank	
4784_Tanzania_2009	TLC-RS1-CTX-3	Blank	
A481_Djibouti_2007	TLC-RS1-CTX-3	Blank	
A483_Djibouti_2007	TLC-RS1-CTX-3	Blank	
A482_Djibouti_2007	TLC-RS1-CTX-3	Blank	
7686_Machakos_2009	TLC-RS1-CTX-3	Blank	
7685_Machakos_2009	TLC-RS1-CTX-3	Blank	
7687_Machakos_2009	TLC-RS1-CTX-3	Blank	
7684_Machakos_2009	TLC-RS1-CTX-3	Blank	
7682_Machakos_2009	TLC-RS1-CTX-3	Blank	
6212_Kakuma_2007	TLC-RS1-CTX-3	Blank	
6214_Kakuma_2007	TLC-RS1-CTX-3	Blank	
6215_Kakuma_2005	TLC-RS1-CTX-3	Blank	
6210_Nairobi_2007	TLC-RS1-CTX-3	Blank	
6180_Nairobi_2007	TLC-RS1-CTX-3	Blank	
6196_Nairobi_2005	TLC-RS1-CTX-3	Blank	
6191_Nairobi_2005	TLC-RS1-CTX-3	Blank	
6197_Nairobi_2007	TLC-RS1-CTX-3	Blank	
6201_Nairobi_2007	TLC-RS1-CTX-3	Blank	
6194_Nairobi_2007	TLC-RS1-CTX-3	Blank	
6193_Nairobi_2005	TLC-RS1-CTX-3	Blank	
6195_Nairobi_2005	TLC-RS1-CTX-3	Blank	
4660_Bangladesh_1994	TLC-RS1-CTX-3	Blank	
V5_India_1989	Blank	Blank	
MG116025_Bangladesh_M_1991	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
MG116226_Bangladesh_M_1991	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
V109_India_1990	TLC-RS1-CTX-3-CTX-3-RS1-RS1	Blank	

A131_India_1989	TLC-RS1-RS1-CTX-1	Blank	
A130_India_1989	TLC-RS1-RS1-CTX-1	Blank	
VC51_India_1992	Blank	CTX-2	20bp deletion in rst A
4672_Bangladesh_2000	RS1-RS1	CTX-2-CTX-2	
4113_Vietnam_2003	CTX-2	CTX-2-CTX-2	
4111_Vietnam_2002	Blank	CTX-2-CTX-2	
4121_Vietnam_2004	Blank	CTX-2-CTX-2	
4110_Vietnam_1995	CTX-2	CTX-2-CTX-2	
4670_Bangladesh_1991	TLC-RS1-RS1	CTX-2-CTX-2	
MJ1236_Bangladesh_M_1994	Blank	CTX-2-CTX-2	
MJ1485_Bangladesh_M_1994	Blank	CTX-2-CTX-2	
A346_1_Bangladesh_1994	TLC-RS1-RS1	CTX-2	
A346_2_Bangladesh_1994	TLC-RS1-RS1	CTX-2-CTX-2	
1362_Mozambique_2005	Blank	CTX-2-CTX-2	
1346_Mozambique_2005	TLC-RS1-CTX-2-RS1env-RS1env	CTX-2-CTX-2	
1627_Mozambique_2005	CTX-2-RS1cla	CTX-2-CTX-2	
B33_Mozambique_2004	Blank	CTX-2-CTX-2	
V212-1_India_1991	TLC-RS1-*-*-RS1-RS1	CTX-2	* = Could not be determined
A109_N.I_1990	TLC-CTX-1-CTX-1-RS1	Blank	
A330_India_1993	TLC-CTX-1	Blank	
A383_Bangladesh_2002	TLC-RS1-*	Blank	* = Could not be determined
MO10_India_1992	TLC-CTX-1-VSK	Blank	VSK is pre-CTX prophage (Chun <i>et al</i> , 2009)
PRL5_India_1980	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
A316_Argentina_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A10_Bangladesh_1979	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
A245_Vietnam_1989	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
A241_Vietnam_1989	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
GP140_Malaysia_1978	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
RC9_Kenya_1985	TLC-RS1-CTX-1-CTX-1-RS1-RS1	ΔRS1-ΔCTX--1	
GP143_Bahrain_1978	TLC-RS1-RS1-CTX-1-CTX-1-RS1	Blank	
GP60_India_1973	TLC-RS1-CTX-1-CTX-1-RS1	Blank	
A22_Bangladesh_1979	*	Blank	* = Could not be determined
A397_Bangladesh_M_e1991	TLC-RS1-CTX-1-CTX-1-RS1	Blank	
GP152_India_1979	RS1	Blank	
N16961_Bangladesh_1975	TLC-RS1-CTX-1-CTX-1-RS1-RS1	*	
A19_Bangladesh_1975	TLC-CTX-1-RS1	Blank	
PRL18_India_1984	TLC-CTX-1-RS1	Blank	
A152_Mozambique_1991	TLC-RS1-RS1-CTX-1-CTX-1	Blank	
A154_Mozambique_1991	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
A155_Mozambique_1991	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
GP145_India_1979	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
GP106_W.Germany_1975	TLC-RS1-CTX-1-CTX-1-RS1-RS1	Blank	
GP160_India_1980	TLC-RS1-RS1-CTX-1	Blank	
A5_Angola_e1991	TLC-CTX-1-RS1-CTX-1-CTX-1	Blank	
A185_Colombia_1992	TLC-CTX-1-CTX-1-RS1	Blank	
A177_Colombia_1992	TLC-CTX-1-CTX-1-RS1	Blank	
A184_Colombia_1992	TLC-CTX-1-CTX-1-RS1	Blank	
A180_Colombia_1992	TLC-CTX-1-CTX-1-RS1	Blank	
A31_Peru_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A27_Peru_1982	TLC-CTX-1-CTX-1-RS1	Blank	
A29_Peru_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A32_Peru_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A231_Mexico_1991	TLC-CTX-1-CTX-1-RS1	Blank	
A232_Mexico_1991	TLC-CTX-1-CTX-1-RS1	Blank	
A390_Bangladesh_M_e1991	TLC-RS1-CTX-1-CTX-1-RS1	Blank	
A201_Argentina_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A186_Argentina_1992	TLC-CTX-1-CTX-1-RS1	Blank	
A200_Argentina_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A193_Bolivia_e1991	TLC-CTX-1-CTX-1-RS1	Blank	
A18_Sweden_1973	TLC-CTX-1-CTX-1-RS1	Blank	
A6_Indonesia_1957	TLC-CTX-1-CTX-1	RS1	
M66_Indonesia_1937			

Table S4. SNPs used to build the 7th pandemic phylogenetic tree and associated information.

SNP Information for the 7th Pandemic Strains	
SNP Position	825
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113
SNP Position	1435
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=V212-1
SNP Position	2494
	/strand=reverse
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	5414
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663, 4662, A487_1, A487_2, CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538, 4661, A488_2, A488_1, PRL64, MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322, 4784, 6210, 6215, 6214, 6212, 6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180, A482, A483, A481, 7682, 7684, 7687, 7685, 7686, V5, V109, A130, A131, VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113, A109, A383, A330, MO10
SNP Position	6622
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	15074
	/SNP="G->T"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	21662
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4600
SNP Position	23148

	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	25588
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4672
SNP Position	27804
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A31, A27, A185, A184, A32,
	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	33997
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180
SNP Position	34254
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	42082
	/strand=reverse
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60
SNP Position	47520

	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4623
SNP Position	49027
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A330
SNP Position	50039
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=V212-1
SNP Position	51020
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	59473
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A245, A241
SNP Position	59817
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	62257
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	68893
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	70605
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=GP60
SNP Position	72585
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4663, 4662, A487_1, A487_2, CIRS101,
	4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792,
	IDHO1726, 4519, 4538, 4661, A488_2,
	A488_1
SNP Position	74144
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383
SNP Position	84054
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A245
SNP Position	89430

	/strand=reverse
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	103247
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	110502
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A29
SNP Position	116786
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	116869
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=4538
SNP Position	117490
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=V5
SNP Position	125122
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=RC9, GP143, GP152, A397, A22,
	GP60
SNP Position	126236
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	126947
	/strand=reverse
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	129480
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	136455
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=CIRS101
SNP Position	137164

	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	137214
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	139591
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
SNP Position	141168
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	143732
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	144569
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111, 4113
SNP Position	147853
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=A488_2, A488_1
SNP Position	148860
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
SNP Position	151043
	/SNP="C->A"
	/homoplasy=convergence with branch leading to 4339,

	convergence with branch leading to 231
	/codon_type=Intergenic
	/taxa=MG116025, MG116226
SNP Position	151043
	/SNP="C->A"
	/homoplasy=convergence with branch leading to 2, convergence with branch leading to 231
	/codon_type=Intergenic
	/taxa=4339
SNP Position	151043
	/SNP="C->A"
	/homoplasy=convergence with branch leading to 2, convergence with branch leading to 4339
	/codon_type=Intergenic
	/taxa=4672, 4121, 4110, 4111, 4113
SNP Position	155949
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=MG116025, MG116226, 4660, 4675, 4663, 4662, A487_1, A487_2, CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538, 4661, A488_2, A488_1, PRL64, MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322, 4784, 6210, 6215, 6214, 6212, 6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180, A482, A483, A481, 7682, 7684, 7687, 7685, 7686, V5, V109, A130, A131, VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113, A109, A383, A330, MO10, PRL5, A316, A245, A241, A10, GP140, RC9, GP143, GP152, A397, A22, GP60, N16961, A19
SNP Position	155976
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184, A32, A177, A29, A180, A232, A231, A201, A186, A200, A193, A390, GP145, GP160, GP106, A152, A155, A154, A4, PRL18
SNP Position	159549
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	160398
	/strand=reverse
	/SNP="C->T"

	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	162624
	/strand=reverse
	/SNP="G->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A4
SNP Position	164418
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	167268
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A186, A200, A193
SNP Position	167384
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A180
SNP Position	169910
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A346_2, A346_1
SNP Position	170848
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=V5
SNP Position	170925
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	173961
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	182454
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=MG116025, MG116226
SNP Position	182735
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,

	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109
SNP Position	184804
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383
SNP Position	185099
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106, A152,
	A155, A154
SNP Position	187462
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	188880
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	189316
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=GP152
SNP Position	190191
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=4670
SNP Position	191990
	/SNP="A->C"
	/codon_type=Intergenic
	/taxa=A18
SNP Position	199598
	/strand=reverse
	/SNP="C->T"
	/homoplasy=convergence with branch leading to M66
	/codon_type=Synonymous
	/taxa=PRL18
SNP Position	200144
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous

	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
SNP Position	203857
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	208078
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=A245
SNP Position	211988
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	212579
	/strand=reverse
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=A27
SNP Position	215519
	/SNP="C->T"
	/homoplasy=convergence with branch leading to M66
	/codon_type=Synonymous
	/taxa=A4
SNP Position	221288
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	228046
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=PRL5
SNP Position	228108
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	228600
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	228855
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=GP60
SNP Position	234339
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	237956
	/strand=reverse
	/SNP="G->A"

	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	238743
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4661, A488_2, A488_1
SNP Position	245860
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245863
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245869
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245885
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	245890
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245902
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245938
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	245998
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	246006
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	246046

	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	246688
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	252140
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226
SNP Position	254692
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=1362
SNP Position	254869
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19
SNP Position	255429
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	258823
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4661
SNP Position	259085
	/SNP="G->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A4
SNP Position	260643

	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260664
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260675
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260691
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	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260707
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260715
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260734
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260751
	/SNP="T->A"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260803
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260897
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260913
	/SNP="G->T"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260949
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	260988
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SNP Position	261925
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	/taxa=A383, A330, MO10
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	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
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	6197, 6180
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	/codon_type=Nonsynonymous
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	IDHO1726, 4519, 4538
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	/taxa=A18
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	2010EL_1792, IDHO1726, 4519, 4538, 4661,
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SNP Position	277737
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SNP Position	278480
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	/taxa=A4
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	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,

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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	A231, A201, A186, A200, A193,
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	/taxa=GP152, A397, A22
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	PRL64, MBRN14, 4122, 4488, 4600,

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	/taxa=A383
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	/taxa=GP152
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	318869
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A18
SNP Position	318956
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	/codon_type=Nonsynonymous
	/taxa=V212-1
SNP Position	318999
	/SNP="C->A"
	/codon_type=Nonsynonymous
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	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226
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	/codon_type=Nonsynonymous
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	/codon_type=Intergenic
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SNP Position	329519
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	/taxa=6196, 6191, 6195, 6193, 6194,
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SNP Position	329531
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	/taxa=6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180
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	7687, 7685, 7686
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	332701
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	333332
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	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	335337
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=B33
SNP Position	335660
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=N16961
SNP Position	336613
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	/codon_type=Intergenic
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	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316

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	/taxa=PRL18
SNP Position	342966
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP140
SNP Position	343122
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	/codon_type=Nonsynonymous
	/taxa=PRL5
SNP Position	347027
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	347722
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
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	/taxa=GP143
SNP Position	349029
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	/codon_type=Nonsynonymous

	/taxa=4605
SNP Position	349049
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	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4552
SNP Position	358817
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	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	364550
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	/codon_type=Nonsynonymous
	/taxa=A31, A27, A185, A184, A32,
	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	367158
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	368120
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	/codon_type=Nonsynonymous
	/taxa=4679, MBN17, 2010EL_1798, 2010EL_1786,
	2010EL_1792, IDHO1726, 4519, 4538
SNP Position	376379
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
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SNP Position	378700
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	/codon_type=Synonymous
	/taxa=A232, A231
SNP Position	381631
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	385154
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	/codon_type=Nonsynonymous
	/taxa=1627
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	/taxa=4784
SNP Position	400120
	/SNP="T->G"
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	/taxa=A10
SNP Position	401064
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	/taxa=GP143
SNP Position	401111
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	/taxa=A4
SNP Position	401736
	/SNP="A->C"
	/homoplasy=convergence with branch leading to A6
	/codon_type=Intergenic
	/taxa=7682, 7684, 7687, 7685, 7686
SNP Position	401736
	/SNP="A->C"
	/homoplasy=convergence with branch leading to 107
	/codon_type=Intergenic
	/taxa=A6
SNP Position	406901
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A245, A241
SNP Position	406984
	/SNP="T->C"
	/homoplasy=reversal from branch leading to 127
	/codon_type=Intergenic
	/taxa=CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	406984
	/SNP="C->T"
	/homoplasy=reversed in branch leading to 20
	/codon_type=Intergenic
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SNP Position	417150
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	/taxa=A4
SNP Position	418775
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A482, A483, A481, 7682, 7684,
	7687, 7685, 7686
SNP Position	424778
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	/codon_type=Nonsynonymous
	/taxa=A6
SNP Position	426049
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	/codon_type=Synonymous
	/taxa=6210, 6215, 6214, 6212
SNP Position	427292
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	/codon_type=Nonsynonymous
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
	4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
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SNP Position	429679
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	430898
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=6196, 6191, 6195, 6193, 6194,
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SNP Position	432681
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	/codon_type=Nonsynonymous
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
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	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
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	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,

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	7686
SNP Position	437712
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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=MJ1485, MJ1236
SNP Position	442222
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4538
SNP Position	442375
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=A10
SNP Position	442531
	/SNP="A->C"
	/homoplasy=convergence with branch leading to 4605
	/codon_type=Nonsynonymous
	/taxa=4536
SNP Position	442531
	/SNP="A->C"
	/homoplasy=convergence with branch leading to 4536
	/codon_type=Nonsynonymous
	/taxa=4605
SNP Position	442603
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4623
SNP Position	442641
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4551
SNP Position	442755
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	442807
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=4322
SNP Position	443048
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP145, GP160, GP106
SNP Position	443117
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	444125
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=4784
SNP Position	451218

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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=4672
SNP Position	452426
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4111, 4113
SNP Position	454454
	/SNP="T->A"
	/codon_type=Intergenic
	/taxa=MG116025, MG116226
SNP Position	456918
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=GP152
SNP Position	458366
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	460404
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4121, 4110
SNP Position	463919
	/SNP="G->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=MG116025, MG116226, 4660, 4675, 4663, 4662, A487_1, A487_2, CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538, 4661, A488_2, A488_1, PRL64, MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322, 4784, 6210, 6215, 6214, 6212, 6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180, A482, A483, A481, 7682, 7684, 7687, 7685, 7686, V5, V109, A130, A131, VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113, A109, A383, A330, MO10, PRL5, A316, A245, A241, A10
SNP Position	466599
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140
SNP Position	468203
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	/codon_type=Synonymous
	/taxa=4600, 4585
SNP Position	472377
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=V5
SNP Position	481917
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	482966
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	483690
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4121, 4110
SNP Position	484014
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=RC9
SNP Position	484916
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	489366
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A152, A155, A154

SNP Position	490184
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	491911
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=MO10
SNP Position	501928
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=GP143
SNP Position	508073
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4675
SNP Position	514443
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=4672
SNP Position	515075
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4111
SNP Position	515554
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	519739
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	521838
	/SNP="T->A"
	/codon_type=Intergenic
	/taxa=A31, A27, A185, A184, A32,
	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	522136
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	/SNP="C->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106
SNP Position	522155
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	522866
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=4536
SNP Position	524293
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4670
SNP Position	525542
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	526320
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684, 7687, 7685, 7686
SNP Position	529129
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	/codon_type=Nonsynonymous
	/taxa=4663, 4662, A487_1, A487_2, CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538, 4661, A488_2, A488_1
SNP Position	530265
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	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113
SNP Position	532392
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	532440
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322
SNP Position	532441
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	/codon_type=Intergenic
	/taxa=MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322
SNP Position	532443
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	4536, 4623, 4605, 4593, 4552,
	4551, 4642, 4656, 4646, 4339, 4322
SNP Position	532447
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	/codon_type=Intergenic
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	4536, 4623, 4605, 4593, 4552,
	4551, 4642, 4656, 4646, 4339, 4322
SNP Position	535382
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	/codon_type=Intergenic
	/taxa=6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180
SNP Position	537406
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A245, A241
SNP Position	537808
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537817
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	A231, A201, A186, A200, A193,
	A390
SNP Position	537826
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537845
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390

SNP Position	537853
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537859
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537869
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537871
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537883
	/strand=reverse
	/SNP="T->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537893
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537916
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,

	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537917
	/strand=reverse
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537928
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537953
	/strand=reverse
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537954
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537955
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537985
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537991
	/strand=reverse

	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	537994
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538009
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538066
	/strand=reverse
	/SNP="G->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538099
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538114
	/strand=reverse
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538125
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,

	A390
SNP Position	538126
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538216
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538243
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538389
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538395
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538402
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538433
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,

	A390
SNP Position	538453
	/strand=reverse
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538454
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538458
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538486
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538502
	/strand=reverse
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538510
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538522
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous

	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538531
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538534
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538552
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538566
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538603
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538611
	/strand=reverse
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538612
	/strand=reverse

	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538617
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538640
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538645
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538654
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538664
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538702
	/strand=reverse
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,

	A390
SNP Position	538708
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538744
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538792
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538795
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538828
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538837
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538858
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous

	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538952
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538963
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538974
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538976
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538981
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	538986
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539019

	/strand=reverse
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539020
	/strand=reverse
	/SNP="T->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539025
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539106
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539130
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539141
	/strand=reverse
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539178
	/strand=reverse
	/SNP="G->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,

	A231, A201, A186, A200, A193,
	A390
SNP Position	539190
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539196
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539199
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539217
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539220
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539226
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539277
	/strand=reverse
	/SNP="T->C"

	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539283
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539293
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539307
	/strand=reverse
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539328
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539348
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539355
	/strand=reverse
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390

SNP Position	539363
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
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SNP Position	539373
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539382
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539426
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539427
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539436
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539445
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,

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	A231, A201, A186, A200, A193,
	A390
SNP Position	539468
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
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	A390
SNP Position	539474
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	/taxa=A5, A31, A27, A185, A184,
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SNP Position	539484
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SNP Position	539486
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	A390
SNP Position	539496
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
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	A390
SNP Position	539517
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539561
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539564
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539570
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539576
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	/SNP="C->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539597
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539617
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
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	A390
SNP Position	539618
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
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	A390
SNP Position	539621
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539633
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	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539639
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539657
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539669
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539672
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	/SNP="A->G"
	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539699
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	/codon_type=Synonymous

	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539723
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539740
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539747
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539759
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
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	A390
SNP Position	539771
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	A390
SNP Position	539798
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539818

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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539840
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539845
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	/codon_type=Nonsynonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539864
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539888
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539892
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	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
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	A390
SNP Position	539897
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,

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	A390
SNP Position	539903
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539918
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	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539919
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	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539924
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539933
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539936
	/strand=reverse
	/SNP="G->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	539984
	/strand=reverse
	/SNP="C->A"

	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540008
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540029
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540031
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540061
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540070
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	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	540184
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	/codon_type=Intergenic
	/taxa=GP152, A397, A22, GP60
SNP Position	544298
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	/taxa=PRL18
SNP Position	544446
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	/codon_type=Nonsynonymous
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	4552, 4551, 4642, 4656, 4646,
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	6214, 6212, 6196, 6191, 6195,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10
SNP Position	545918
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	/codon_type=Nonsynonymous
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SNP Position	547187
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	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	548862
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	548881
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	548884
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	548898
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	/codon_type=Synonymous

	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	548899
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	548902
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
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	A390
SNP Position	548905
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
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	A390
SNP Position	548917
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549123
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549127
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549133

	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549145
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549166
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549169
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549172
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549175
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549181
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,

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	A390
SNP Position	549187
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549223
	/strand=reverse
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549226
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549234
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549238
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549241
	/strand=reverse
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549244
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549268
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	/codon_type=Synonymous
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	A231, A201, A186, A200, A193,
	A390
SNP Position	549271
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	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549274
	/strand=reverse
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549280
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549286
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549289
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390

SNP Position	549292
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549295
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549325
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549331
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549338
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549339
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549340
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,

	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549355
	/strand=reverse
	/SNP="G->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549357
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549435
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549460
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549478
	/strand=reverse
	/SNP="A->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549499
	/strand=reverse
	/SNP="T->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549553
	/strand=reverse

	/SNP="T->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549580
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549640
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549652
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549665
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549675
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549692
	/strand=reverse
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,

	A390
SNP Position	549718
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549754
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549757
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549760
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549778
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549835
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549837
	/strand=reverse
	/SNP="A->T"
	/codon_type=Nonsynonymous

	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549865
	/strand=reverse
	/SNP="G->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549871
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549904
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549922
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549982
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	549988
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	550006

	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	550051
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	550102
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	550869
	/strand=reverse
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=4339
SNP Position	551391
	/strand=reverse
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=4675
SNP Position	554545
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	556978
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	558813
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	558833
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	560255
	/SNP="T->C"

	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	566051
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	568021
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A130, A131
SNP Position	568661
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	573670
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4111
SNP Position	575610
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=N16961, A19
SNP Position	581098
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	581099
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	581339
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=4488
SNP Position	581574
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A6
SNP Position	581591
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A6
SNP Position	584417
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	586104
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	593828

	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	594850
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=A22
SNP Position	598995
	/strand=reverse
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=4672
SNP Position	599512
	/SNP="T->A"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	602082
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4662
SNP Position	603442
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	607918
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=VC51
SNP Position	608416
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	612222
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	612223
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	612300
	/SNP="C->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=GP152
SNP Position	612673
	/SNP="C->T"
	/homoplasy=convergence with branch leading to 4113
	/codon_type=Intergenic
	/taxa=4660
SNP Position	612673
	/SNP="C->T"

	/homoplasy=convergence with branch leading to 4660
	/codon_type=Intergenic
	/taxa=4113
SNP Position	612803
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=A18
SNP Position	612822
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=4551
SNP Position	612825
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=4661
SNP Position	612830
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=MBN17
SNP Position	612847
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A487_1, A487_2
SNP Position	612988
	/SNP="A->C"
	/codon_type=Intergenic
	/taxa=A184
SNP Position	613023
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=4536
SNP Position	613052
	/SNP="A->C"
	/codon_type=Intergenic
	/taxa=4675
SNP Position	613071
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=MG116226
SNP Position	613074
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A330
SNP Position	613143
	/SNP="C->T"
	/homoplasy=convergence with branch leading to A245
	/codon_type=Intergenic
	/taxa=A481
SNP Position	613143
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=MO10
SNP Position	613143

	/SNP="C->T"
	/homoplasy=convergence with branch leading to A481
	/codon_type=Intergenic
	/taxa=A245
SNP Position	613262
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=PRL5
SNP Position	613288
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=GP145, GP160, GP106
SNP Position	614171
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=4660
SNP Position	620174
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A131
SNP Position	623498
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	632341
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	633761
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	639109
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	641983
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	645425
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	648634
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=4600, 4585, 4536, 4623

SNP Position	652539
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180
SNP Position	655376
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	656622
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A31, A27, A185, A184, A32,
	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	659772
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684,
	7687, 7685, 7686
SNP Position	667063
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A10
SNP Position	667453
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=4600, 4585
SNP Position	668932
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	668980
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=7682, 7684, 7687, 7685, 7686
SNP Position	674883
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4552
SNP Position	674884
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	674887
	/strand=reverse

	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=4663, 4662, A487_1, A487_2
SNP Position	675273
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4675
SNP Position	676185
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	676781
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=4111
SNP Position	681577
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551
SNP Position	684801
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	692531
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4661, A488_2, A488_1
SNP Position	693227
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A383
SNP Position	694305
	/SNP="C->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=4519
SNP Position	694516
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	696937
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	697749
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=N16961, A19
SNP Position	698661
	/strand=reverse

	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	701738
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	703938
	/SNP="G->C"
	/codon_type=Synonymous
	/taxa=4672
SNP Position	708717
	/SNP="G->A"
	/homoplasy=convergence with branch leading to V109
	/codon_type=Synonymous
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
	4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	708717
	/SNP="G->A"
	/homoplasy=convergence with branch leading to 5
	/codon_type=Synonymous
	/taxa=V109
SNP Position	710243
	/SNP="G->T"
	/codon_type=Intergenic
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,
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	A488_2, A488_1, PRL64, MBRN14, 4122,
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SNP Position	712993
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	/taxa=A397, A22
SNP Position	720770
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	/codon_type=Nonsynonymous
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SNP Position	737108
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SNP Position	741333
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SNP Position	742004
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	/SNP="G->A"
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SNP Position	742062
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	/taxa=4593
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	/taxa=4339
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	/codon_type=Nonsynonymous
	/taxa=A4
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	/codon_type=Nonsynonymous
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	/codon_type=Intergenic
	/taxa=A383
SNP Position	743406
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	/codon_type=Intergenic
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	/taxa=A4
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	/codon_type=Nonsynonymous
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SNP Position	749098
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	/codon_type=Synonymous
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	A481, 7682, 7684, 7687, 7685,
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	/codon_type=Intergenic
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	/taxa=A152, A155, A154
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	6214, 6212, 6196, 6191, 6195,

	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	4113, A109, A383, A330, MO10, PRL5,
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	/taxa=4784
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	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	760185
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	/codon_type=Nonsynonymous
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SNP Position	767620
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SNP Position	768079
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A383
SNP Position	768875
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	768890
	/SNP="C->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A397
SNP Position	769058
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	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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SNP Position	775461
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	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106, A152,
	A155, A154, A4
SNP Position	775752
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	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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SNP Position	777549
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	/codon_type=Nonsynonymous
	/taxa=GP60
SNP Position	783276
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	/codon_type=Synonymous
	/taxa=A397
SNP Position	784434
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=MBRN14
SNP Position	790746
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	/codon_type=Intergenic
	/taxa=A4
SNP Position	790967
	/SNP="C->T"
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SNP Position	791369
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SNP Position	795540
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	PRL64, MBRN14, 4122, 4488, 4600,
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	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
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	A316, A245, A241, A10, GP140
SNP Position	795691
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	/codon_type=Synonymous
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SNP Position	799726
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	/codon_type=Intergenic
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	4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792,
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SNP Position	800032
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	/taxa=PRL18
SNP Position	801279
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	803926
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A397
SNP Position	805327
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
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	A231, A201, A186, A200, A193,
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SNP Position	806675
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	/taxa=A10
SNP Position	806765
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	807595
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=A330
SNP Position	810411
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	/codon_type=Nonsynonymous
	/taxa=4600
SNP Position	818029
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	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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SNP Position	819598
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	1627, 1346, 1362
SNP Position	821345
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SNP Position	822442
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	826948
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	830082
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=PRL18
SNP Position	831783
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=IDHO1726
SNP Position	832486
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=V5
SNP Position	832536
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4661, A488_2, A488_1
SNP Position	834536
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	/codon_type=Synonymous
	/taxa=A4

SNP Position	837327
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SNP Position	840677
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SNP Position	840869
	/strand=reverse
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SNP Position	841032
	/strand=reverse
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	/codon_type=Nonsynonymous
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SNP Position	841084
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=4536
SNP Position	841522
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	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	841776
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4519
SNP Position	844674
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SNP Position	847179
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	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
	A232, A231, A201, A186, A200,
	A193, A390, GP145, GP160, GP106,
	A152, A155, A154, A4, PRL18
SNP Position	856642
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	/taxa=4661, A488_2, A488_1
SNP Position	858279
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	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	858380
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	858400
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	858526
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	/codon_type=Intergenic
	/taxa=PRL18
SNP Position	858666
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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SNP Position	864622
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	/taxa=A4
SNP Position	865620
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A130, A131
SNP Position	867307
	/strand=reverse
	/SNP="T->G"
	/codon_type=Synonymous
	/taxa=A245
SNP Position	870056
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	874995
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	881438
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=4661, A488_2, A488_1
SNP Position	883337
	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=4552
SNP Position	884096
	/SNP="T->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=MG116025
SNP Position	890234
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=MJ1485, MJ1236
SNP Position	890325
	/SNP="C->T"
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	/codon_type=Intergenic
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
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SNP Position	890325
	/SNP="C->T"
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	/codon_type=Intergenic
	/taxa=A130, A131
SNP Position	890712
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	890713
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=6191
SNP Position	890719
	/SNP="G->A"
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	/taxa=A383
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
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	4113, A109, A383, A330, MO10, PRL5,
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	GP143, GP152, A397, A22, GP60, N16961,
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	/taxa=RC9
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SNP Position	918801
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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SNP Position	929976
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	/codon_type=Synonymous
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	988870
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	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	990223
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	990394
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	/codon_type=Nonsynonymous
	/taxa=A397, A22
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SNP Position	994228
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SNP Position	994234
	/SNP="G->A"
	/codon_type=Nonsynonymous
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	4585, 4536, 4623, 4605, 4593,
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	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	A184, A32, A177, A29, A180,
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	A482, A483, A481, 7682, 7684,
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SNP Position	1046697
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SNP Position	1047069
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SNP Position	1050398
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	/codon_type=Nonsynonymous
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	/taxa=PRL18
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	/taxa=MG116025
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	/taxa=MJ1236
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	/taxa=RC9
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	6214, 6212, 6196, 6191, 6195,
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	/codon_type=Nonsynonymous
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	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
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	/taxa=IDHO1726
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	/codon_type=Nonsynonymous
	/taxa=A346_2, A346_1

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	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10
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	/taxa=PRL5
SNP Position	1125913
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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=RC9
SNP Position	1129403
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	/codon_type=Nonsynonymous
	/taxa=6210, 6215, 6214, 6212
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	/codon_type=Synonymous
	/taxa=A316
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	/codon_type=Intergenic
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	PRL64, MBRN14, 4122, 4488, 4600,

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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
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	/taxa=A186, A200, A193
SNP Position	1158888
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	/codon_type=Nonsynonymous
	/taxa=GP145
SNP Position	1162276
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	/codon_type=Nonsynonymous
	/taxa=4536
SNP Position	1170642
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SNP Position	1174930
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	/codon_type=Nonsynonymous
	/taxa=4600, 4585, 4536, 4623
SNP Position	1182089
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	/codon_type=Nonsynonymous
	/taxa=A383
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	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=MJ1236
SNP Position	1188173
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	/codon_type=Nonsynonymous
	/taxa=4113
SNP Position	1198135
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	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
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	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
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	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
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SNP Position	1198270
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	/taxa=V109
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	/SNP="T->C"
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	/taxa=A4
SNP Position	1207460
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=PRL5
SNP Position	1207911
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	1211834
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4122
SNP Position	1211913
	/SNP="G->C"
	/codon_type=Intergenic
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726
SNP Position	1212075
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	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4552
SNP Position	1216033
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	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106, A152,
	A155, A154, A4, PRL18

SNP Position	1221186
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	/codon_type=Nonsynonymous
	/taxa=GP145, GP160, GP106
SNP Position	1221901
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=V109
SNP Position	1224173
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=PRL64
SNP Position	1234387
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	1241084
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	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684, 7687, 7685, 7686
SNP Position	1252279
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	1254767
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1255464
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=A6
SNP Position	1262261
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	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184, A32, A177, A29, A180, A232, A231, A201, A186, A200, A193, A390
SNP Position	1263491
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SNP Position	1265183
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A383
SNP Position	1266132
	/SNP="A->G"
	/codon_type=Intergenic
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SNP Position	1266572
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
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SNP Position	1269128
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	1269147
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=GP152
SNP Position	1273461
	/SNP="C->A"
	/codon_type=Synonymous
	/taxa=PRL18
SNP Position	1273701
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1279342
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
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SNP Position	1280976
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP152
SNP Position	1281512
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=GP152, A397, A22
SNP Position	1285653
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A397, A22

SNP Position	1287937
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	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4670
SNP Position	1294800
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	/codon_type=Nonsynonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	1296501
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1304630
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	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=PRL18
SNP Position	1305544
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1308881
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP152, A397, A22
SNP Position	1315183
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1317879
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	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	1327608
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	1329397
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=GP152
SNP Position	1330462
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=A346_2, A346_1, B33, 1627, 1346,
	1362

SNP Position	1330463
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	/homoplasy=convergence with branch leading to A383
	/codon_type=Nonsynonymous
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,
	2010EL_1792, IDHO1726, 4519, 4538, 4661,
	A488_2, A488_1, PRL64, MBRN14, 4122,
	4488, 4600, 4585, 4536, 4623,
	4605, 4593, 4552, 4551, 4642,
	4656, 4646, 4339, 4322, 4784,
	6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180, A482, A483, A481,
	7682, 7684, 7687, 7685, 7686
SNP Position	1330463
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	/homoplasy=convergence with branch leading to 7
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	/taxa=A383
SNP Position	1336264
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1344021
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	/codon_type=Nonsynonymous
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SNP Position	1356757
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SNP Position	1359187
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	/codon_type=Nonsynonymous
	/taxa=CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	1360772
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	/codon_type=Nonsynonymous
	/taxa=4605, 4593, 4552, 4551
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	/codon_type=Nonsynonymous
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SNP Position	1363966
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	/codon_type=Synonymous
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SNP Position	1368686
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	/codon_type=Nonsynonymous
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	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
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	A481, 7682, 7684, 7687, 7685,
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SNP Position	1373908
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	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=MJ1485, MJ1236, A346_2, A346_1, B33,
	1627, 1346, 1362
SNP Position	1381191
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=4585
SNP Position	1382680
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=4121, 4110
SNP Position	1382893
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	1395635
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	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
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	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
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SNP Position	1397469
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	/codon_type=Synonymous
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SNP Position	1398108
	/SNP="C->A"
	/codon_type=Synonymous

	/taxa=4672
SNP Position	1400592
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	1401879
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
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	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	4113, A109, A383, A330, MO10
SNP Position	1402970
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SNP Position	1409690
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP140
SNP Position	1409737
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	/codon_type=Nonsynonymous
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SNP Position	1417110
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	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
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	6201, 6197, 6180, A482, A483,
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SNP Position	1417928

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	/taxa=RC9, GP143
SNP Position	1418195
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	/codon_type=Synonymous
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SNP Position	1418484
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SNP Position	1418807
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	/codon_type=Intergenic
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SNP Position	1418822
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SNP Position	1422030
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=4121, 4110, 4111, 4113
SNP Position	1422964
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A245, A241
SNP Position	1423585
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=PRL18
SNP Position	1435705
	/strand=reverse

	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	1436263
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140
SNP Position	1444449
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	/taxa=A130, A131
SNP Position	1452764
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	/codon_type=Nonsynonymous
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	4339, 4322
SNP Position	1457193
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	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	1457519
	/strand=reverse
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1462630
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	/codon_type=Nonsynonymous
	/taxa=A397

SNP Position	1466928
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	1467059
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	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=MJ1485, MJ1236, A346_2, A346_1, B33,
	1627, 1346, 1362
SNP Position	1469436
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	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10
SNP Position	1469597
	/SNP="C->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=PRL18
SNP Position	1472551
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	/taxa=6210, 6215, 6214, 6212
SNP Position	1473651
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=V5
SNP Position	1476103
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=MG116025
SNP Position	1476801
	/SNP="C->T"

	/codon_type=Nonsynonymous
	/taxa=GP60
SNP Position	1481020
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4661, A488_2, A488_1
SNP Position	1481520
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	1481609
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	1483449
	/SNP="C->G"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	1487442
	/strand=reverse
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=4122
SNP Position	1491861
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	1501888
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP60
SNP Position	1504479
	/SNP="G->T"
	/codon_type=Synonymous
	/taxa=PRL5
SNP Position	1510235
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=4111, 4113
SNP Position	1513879
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	1520785
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	1522728
	/strand=reverse
	/SNP="G->A"

	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	1526955
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	/codon_type=Intergenic
	/taxa=6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180
SNP Position	1530305
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A397, A22
SNP Position	1532920
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1536242
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=GP143
SNP Position	1539733
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	1540216
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=MO10
SNP Position	1540518
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	1547519
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	1548643
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,

	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109
SNP Position	1553009
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A390
SNP Position	1553152
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553155
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553231
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553232
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553237
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553242
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,

	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1553903
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1557936
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1562814
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A397, A22
SNP Position	1563760
	/SNP="G->A"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,
	2010EL_1792, IDHO1726, 4519, 4538, 4661,
	A488_2, A488_1
SNP Position	1564047
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=4672
SNP Position	1564137
	/SNP="G->A"
	/homoplasy=reversal from branch leading to 119,
	convergence with branch leading to 223, convergence with
	branch leading to 231
	/codon_type=Intergenic
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
	4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1564137
	/SNP="G->A"
	/homoplasy=reversal from branch leading to 119,
	convergence with branch leading to 5, convergence with
	branch leading to 231
	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564137
	/SNP="G->A"
	/homoplasy=reversal from branch leading to 119,

	convergence with branch leading to 5, convergence with
	branch leading to 223
	/codon_type=Intergenic
	/taxa=4672, 4121, 4110, 4111, 4113
SNP Position	1564137
	/SNP="A->G"
	/homoplasy=reversed in branch leading to 5, reversed in
	branch leading to 223, reversed in branch leading to 231
	/codon_type=Intergenic
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111, 4113
SNP Position	1564138
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=4111, 4113
SNP Position	1564152
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564154
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564569
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564572
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564689
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=4538
SNP Position	1564752
	/strand=reverse

	/SNP="T->C"
	/homoplasy=convergence with branch leading to A383
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564752
	/strand=reverse
	/SNP="T->C"
	/homoplasy=convergence with branch leading to 223
	/codon_type=Synonymous
	/taxa=A383
SNP Position	1564760
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564771
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	1564814
	/strand=reverse
	/SNP="C->G"
	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	1564972
	/SNP="A->C"
	/homoplasy=convergence with branch leading to 171
	/codon_type=Intergenic
	/taxa=1627
SNP Position	1564972
	/SNP="A->C"
	/homoplasy=convergence with branch leading to 1627
	/codon_type=Intergenic
	/taxa=A186, A200, A193
SNP Position	1564981
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 171
	/codon_type=Intergenic
	/taxa=1627
SNP Position	1564981
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 1627
	/codon_type=Intergenic
	/taxa=A186, A200, A193
SNP Position	1564987
	/SNP="G->A"
	/homoplasy=convergence with branch leading to 171
	/codon_type=Intergenic
	/taxa=1627
SNP Position	1564987
	/SNP="G->A"
	/homoplasy=convergence with branch leading to 1627

	/codon_type=Intergenic
	/taxa=A186, A200, A193
SNP Position	1565020
	/SNP="A->G"
	/homoplasy=convergence with branch leading to A18
	/codon_type=Intergenic
	/taxa=1346, 1362
SNP Position	1565020
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 227
	/codon_type=Intergenic
	/taxa=A18
SNP Position	1565140
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	1565221
	/SNP="A->G"
	/codon_type=Intergenic
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SNP Position	1565260
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	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	1566728
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113
SNP Position	1566729

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	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	1566753
	/SNP="C->T"
	/homoplasy=convergence with branch leading to A383
	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	1566753
	/SNP="C->T"
	/homoplasy=convergence with branch leading to 209
	/codon_type=Intergenic
	/taxa=A383
SNP Position	1566755
	/SNP="G->T"
	/homoplasy=reversal from branch leading to 121
	/codon_type=Intergenic
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131
SNP Position	1566755
	/SNP="T->G"
	/homoplasy=reversed in branch leading to 118
	/codon_type=Intergenic
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,

	4113, A109, A383, A330, MO10
SNP Position	1566832
	/SNP="G->T"
	/homoplasy=convergence with branch leading to A383
	/codon_type=Intergenic
	/taxa=1627, 1346, 1362
SNP Position	1566832
	/SNP="G->T"
	/homoplasy=convergence with branch leading to 225
	/codon_type=Intergenic
	/taxa=A383
SNP Position	1566848
	/SNP="A->C"
	/homoplasy=reversal from branch leading to 209
	/codon_type=Intergenic
	/taxa=1627, 1346, 1362
SNP Position	1566848
	/SNP="C->A"
	/homoplasy=reversed in branch leading to 225
	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	1566856
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=RC9
SNP Position	1567151
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 209,
	convergence with branch leading to A383
	/codon_type=Nonsynonymous
	/taxa=4660, 4675, 4663, 4662, A487_1,
	A487_2, CIRS101, 4679, MBN17, 2010EL_1798,
	2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538,
	4661, A488_2, A488_1, PRL64, MBRN14,
	4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551,
	4642, 4656, 4646, 4339, 4322,
	4784, 6210, 6215, 6214, 6212,
	6196, 6191, 6195, 6193, 6194,
	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	1567151
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 5,
	convergence with branch leading to A383
	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,

	4672, 4121, 4110, 4111, 4113
SNP Position	1567151
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 5, convergence with branch leading to 209
	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	1567239
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 209
	/codon_type=Nonsynonymous
	/taxa=4660, 4675, 4663, 4662, A487_1, A487_2, CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538, 4661, A488_2, A488_1, PRL64, MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322, 4784, 6210, 6215, 6214, 6212, 6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180, A482, A483, A481, 7682, 7684, 7687, 7685, 7686
SNP Position	1567239
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 5
	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2, A346_1, B33, 1627, 1346, 1362, 4670, 4672, 4121, 4110, 4111, 4113
SNP Position	1567296
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	1570141
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1570602
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A383
SNP Position	1571429
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous

	/taxa=B33, 1627, 1346, 1362
SNP Position	1571581
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A186, A200, A193
SNP Position	1571665
	/strand=reverse
	/SNP="C->T"
	/homoplasy=convergence with branch leading to A4
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	1571665
	/strand=reverse
	/SNP="C->T"
	/homoplasy=convergence with branch leading to 146
	/codon_type=Synonymous
	/taxa=A4
SNP Position	1571677
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to A4
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	1571677
	/strand=reverse
	/SNP="A->G"
	/homoplasy=convergence with branch leading to 146
	/codon_type=Synonymous
	/taxa=A4
SNP Position	1571683
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	1571888
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	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
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	/taxa=RC9
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	/codon_type=Nonsynonymous
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	/taxa=4536
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	/strand=reverse
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	/codon_type=Synonymous
	/taxa=A152, A155, A154
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	/SNP="T->C"
	/codon_type=Nonsynonymous
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	/taxa=4552
SNP Position	1712052
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	1712460
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SNP Position	1712749
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	/codon_type=Intergenic
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SNP Position	1712749
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SNP Position	1717465
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	/taxa=A4
SNP Position	1720452
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	1722839
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
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	A346_2, A346_1, B33, 1627, 1346, 1362,
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	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
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	2010EL_1792, IDHO1726, 4519, 4538, 4661,

	A488_2, A488_1, PRL64, MBRN14, 4122,
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	/codon_type=Nonsynonymous
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SNP Position	1733732
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SNP Position	1736731
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SNP Position	1736731
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SNP Position	1739766
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	/codon_type=Intergenic
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SNP Position	1741227
	/SNP="G->A"
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	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	1748797
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	/codon_type=Intergenic
	/taxa=GP145, GP160, GP106
SNP Position	1749208
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A383
SNP Position	1750231
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	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	1750632
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	/codon_type=Nonsynonymous
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	/codon_type=Synonymous
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	/codon_type=Synonymous
	/taxa=M66, A6
SNP Position	1756924
	/strand=reverse
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	/taxa=4662
SNP Position	1763485
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	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	1767520
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A4
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	/codon_type=Nonsynonymous
	/taxa=A4

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	/codon_type=Nonsynonymous
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SNP Position	1776827
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	/taxa=A232, A231
SNP Position	1781911
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	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106, A152,
	A155, A154, A4
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SNP Position	1798880
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SNP Position	1809138
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	/codon_type=Nonsynonymous
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SNP Position	1813939
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SNP Position	1814216
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	/taxa=PRL18
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	/codon_type=Synonymous
	/taxa=GP140
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	6193, 6194, 6201, 6197, 6180,
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	/taxa=RC9
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
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	GP143, GP152, A397, A22, GP60, N16961,

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	A184, A32, A177, A29, A180,
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	A193, A390
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SNP Position	1989285
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SNP Position	2004766
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SNP Position	2005878
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	6193, 6194, 6201, 6197, 6180,
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	A346_2, A346_1, B33, 1627, 1346, 1362,
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	A346_2, A346_1, B33, 1627, 1346, 1362,
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	PRL64, MBRN14, 4122, 4488, 4600,
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	4113, A109, A383, A330, MO10, PRL5,
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SNP Position	2047456
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SNP Position	2068465
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	/codon_type=Nonsynonymous
	/taxa=A130, A131
SNP Position	2074526
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	/codon_type=Synonymous
	/taxa=RC9
SNP Position	2075894
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4111
SNP Position	2075922
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SNP Position	2076292
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SNP Position	2076706
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	/homoplasy=convergence with branch leading to 4623, convergence with branch leading to 4322, convergence with branch leading to A152
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SNP Position	2076706
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SNP Position	2076709
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SNP Position	2076709
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	/taxa=4552, 4551
SNP Position	2076897
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	/taxa=4642, 4656, 4646
SNP Position	2076927
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	/codon_type=Nonsynonymous
	/taxa=A10
SNP Position	2078459
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SNP Position	2078496
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	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
	A232, A231, A201, A186, A200,
	A193, A390, GP145, GP160, GP106,
	A152, A155, A154, A4, PRL18
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
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	/codon_type=Synonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
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	/taxa=PRL18
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	/taxa=MG116025, MG116226, 4660, 4675, 4663,
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	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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SNP Position	2444399
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	/codon_type=Nonsynonymous
	/taxa=A4
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	/codon_type=Nonsynonymous
	/taxa=GP145, GP160, GP106
SNP Position	2454053
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	/codon_type=Nonsynonymous
	/taxa=A346_2, A346_1

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	/codon_type=Synonymous
	/taxa=4519
SNP Position	2466625
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
SNP Position	2466776
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2468457
	/strand=reverse
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	/codon_type=Synonymous
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	/codon_type=Synonymous
	/taxa=A185, A184
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	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	2476933
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	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=IDHO1726
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	/codon_type=Nonsynonymous
	/taxa=B33
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	/codon_type=Synonymous
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	/taxa=A245
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SNP Position	2486542
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	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	2486548
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	/codon_type=Nonsynonymous
	/taxa=GP140
SNP Position	2489012
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	/codon_type=Intergenic
	/taxa=RC9, GP143
SNP Position	2489368
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	/codon_type=Intergenic
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	/taxa=A152, A155, A154
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	/codon_type=Synonymous
	/taxa=A180
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	/taxa=V109
SNP Position	2506199
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	/taxa=4670
SNP Position	2508494
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	/codon_type=Nonsynonymous
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SNP Position	2509420
	/strand=reverse
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	/codon_type=Nonsynonymous
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SNP Position	2513615
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	/taxa=A152, A155, A154
SNP Position	2515178
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	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	2515959
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	6197, 6180
SNP Position	2516632
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	/codon_type=Nonsynonymous
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SNP Position	2517042
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SNP Position	2518818
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	/codon_type=Nonsynonymous
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	PRL64, MBRN14, 4122, 4488, 4600,
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	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
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SNP Position	2523254
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SNP Position	2524140
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	/codon_type=Nonsynonymous
	/taxa=V5
SNP Position	2524822
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	/taxa=MBN17
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	/homoplasy=convergence with branch leading to MBN17
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	2525089
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2535649
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	/codon_type=Synonymous
	/taxa=V5
SNP Position	2539644
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A330
SNP Position	2542470
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=MJ1485, MJ1236

SNP Position	2543491
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4322
SNP Position	2547742
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	/codon_type=Nonsynonymous
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
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	7687, 7685, 7686, V5, V109,
	A130, A131
SNP Position	2550743
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SNP Position	2551703
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	/codon_type=Synonymous
	/taxa=M66, A6
SNP Position	2551912
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	2552770
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2555105
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	/codon_type=Nonsynonymous
	/taxa=A10
SNP Position	2557134
	/strand=reverse
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=4660
SNP Position	2558974
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	PRL64, MBRN14, 4122, 4488, 4600,
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	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
	A232, A231, A201, A186, A200,
	A193, A390, GP145, GP160, GP106,
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SNP Position	2577815
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	/taxa=GP140
SNP Position	2586841
	/strand=reverse
	/SNP="C->A"
	/codon_type=Nonsynonymous
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SNP Position	2587665
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=GP145, GP160, GP106
SNP Position	2587691
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	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=4519
SNP Position	2587890

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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2589327
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	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684, 7687, 7685, 7686
SNP Position	2594944
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=VC51
SNP Position	2596835
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2596997
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	2598498
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	/codon_type=Synonymous
	/taxa=A10
SNP Position	2604400
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	/codon_type=Synonymous
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SNP Position	2605370
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	/codon_type=Nonsynonymous
	/taxa=MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	2605370
	/strand=reverse
	/SNP="G->A"
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	/codon_type=Nonsynonymous
	/taxa=PRL64, MBRN14, 4122, 4488, 4600, 4585, 4536, 4623, 4605, 4593, 4552, 4551, 4642, 4656, 4646, 4339, 4322
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SNP Position	2608097
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SNP Position	2609068
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SNP Position	2610023
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SNP Position	2619351
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	/taxa=MG116025, MG116226
SNP Position	2625954
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	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684,
	7687, 7685, 7686
SNP Position	2630882
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	/taxa=GP152
SNP Position	2631910
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	/codon_type=Nonsynonymous
	/taxa=GP140

SNP Position	2635357
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SNP Position	2635690
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	/codon_type=Nonsynonymous
	/taxa=A397, A22
SNP Position	2635704
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	2637398
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	2640124
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	/codon_type=Nonsynonymous
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SNP Position	2646922
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	/taxa=A109
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	6214, 6212, 6196, 6191, 6195,
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SNP Position	2657172

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	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
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	PRL64, MBRN14, 4122, 4488, 4600,
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	4552, 4551, 4642, 4656, 4646,
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	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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SNP Position	2661564
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	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,

	A184, A32, A177, A29, A180,
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SNP Position	2669958
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	A488_1
SNP Position	2676480
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	6197, 6180
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	/taxa=MJ1485, MJ1236
SNP Position	2681482
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SNP Position	2690294
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	/taxa=A245, A241
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	2714520
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	/taxa=A4
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SNP Position	2729721
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	/taxa=4672, 4121, 4110, 4111, 4113
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	/taxa=V5
SNP Position	2765089
	/SNP="G->A"
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	/taxa=A383, A330, MO10
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	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226
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	/codon_type=Nonsynonymous
	/taxa=A201
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	/codon_type=Synonymous
	/taxa=PRL18
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	/taxa=GP143
SNP Position	2774333
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
	/taxa=4672
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	/codon_type=Synonymous
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	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	4113, A109, A383, A330, MO10, PRL5,
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	/codon_type=Nonsynonymous
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SNP Position	2866848
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	/taxa=GP152
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	/taxa=PRL18
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	/codon_type=Intergenic
	/taxa=A383, A330, MO10
SNP Position	2943365
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	/codon_type=Synonymous
	/taxa=4552
SNP Position	2956546
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	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	2958550
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=GP140
SNP Position	2959050
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	/codon_type=Synonymous
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	/codon_type=Intergenic
	/taxa=N16961, A19
SNP Position	2961183
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	/homoplasy=convergence with branch leading to 194
	/codon_type=Intergenic
	/taxa=M66, A6
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	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=7682, 7684, 7687, 7685, 7686
SNP Position	2971338
	/strand=reverse
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	/codon_type=Nonsynonymous

	/taxa=GP140
SNP Position	2971712
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=MO10
SNP Position	2972676
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4679
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	/strand=reverse
	/SNP="G->A"
	/homoplasy=convergence with branch leading to 129
	/codon_type=Nonsynonymous
	/taxa=MJ1485
SNP Position	2972755
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	/homoplasy=reversal from branch leading to 129, convergence with branch leading to 136
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	/taxa=GP143
SNP Position	2972755
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	/homoplasy=reversal from branch leading to 129, convergence with branch leading to GP143
	/codon_type=Nonsynonymous
	/taxa=A397, A22
SNP Position	2972755
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	/SNP="G->A"
	/homoplasy=convergence with branch leading to MJ1485, reversed in branch leading to GP143, reversed in branch leading to 136
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	/taxa=RC9, GP143, GP152, A397, A22, GP60
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	/codon_type=Nonsynonymous
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	/codon_type=Nonsynonymous
	/taxa=4322
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	/taxa=PRL5

SNP Position	2980806
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	/codon_type=Intergenic
	/taxa=GP143
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	/codon_type=Synonymous
	/taxa=A130, A131
SNP Position	2981196
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	2983318
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=4122
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	/codon_type=Nonsynonymous
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	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390, GP145, GP160, GP106, A152,
	A155, A154, A4
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	/taxa=A4
SNP Position	2988500
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	/taxa=A245, A241
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	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	/taxa=B33, 1627, 1346, 1362
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	/codon_type=Nonsynonymous
	/taxa=A4
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	4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792,
	IDHO1726, 4519, 4538
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	/taxa=A31, A27, A185, A184, A32,
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	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	3005329
	/strand=reverse
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3009847
	/SNP="T->A"
	/codon_type=Intergenic
	/taxa=GP140
SNP Position	3013876
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	3014670
	/SNP="T->C"
	/codon_type=Synonymous
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SNP Position	3019906
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	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,

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	4672, 4121, 4110, 4111, 4113
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	/codon_type=Nonsynonymous
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SNP Position	3023520
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	/codon_type=Synonymous
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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SNP Position	3032674
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	/taxa=A397
SNP Position	3040151
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	/codon_type=Nonsynonymous
	/taxa=A245, A241
SNP Position	3044579
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	/codon_type=Nonsynonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726
SNP Position	3046740

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	/taxa=4538
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	/codon_type=Synonymous
	/taxa=A316
SNP Position	3052473
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	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	3054255
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	3061594
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=4488
SNP Position	3063780
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=VC51
SNP Position	3064574
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	3069998
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	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=GP152, A397, A22
SNP Position	3070533
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A245, A241
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	/codon_type=Nonsynonymous
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	/taxa=M66, A6
SNP Position	3080140

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	/taxa=A245, A241
SNP Position	3088953
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	/codon_type=Nonsynonymous
	/taxa=1627
SNP Position	3090462
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3092526
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	3104942
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	/codon_type=Nonsynonymous
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,
	2010EL_1792, IDHO1726, 4519, 4538, 4661,
	A488_2, A488_1, PRL64, MBRN14, 4122,
	4488, 4600, 4585, 4536, 4623,
	4605, 4593, 4552, 4551, 4642,
	4656, 4646, 4339, 4322
SNP Position	3107874
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	/codon_type=Nonsynonymous
	/taxa=GP152
SNP Position	3110089
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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A245, A241
SNP Position	3117174
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	/codon_type=Nonsynonymous
	/taxa=A4
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	/taxa=4339
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	/codon_type=Nonsynonymous
	/taxa=MBRN14, 4122, 4488, 4600, 4585,
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	/codon_type=Nonsynonymous
	/taxa=PRL5
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3135388
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	3138378
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	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=RC9
SNP Position	3140106
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	3143055
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	/codon_type=Intergenic
	/taxa=4672
SNP Position	3145181
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	3159854
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	/codon_type=Nonsynonymous
	/taxa=A31, A27, A185, A184, A32,
	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	3161859
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	/codon_type=Nonsynonymous
	/taxa=4661, A488_2, A488_1
SNP Position	3164546
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	/codon_type=Intergenic
	/taxa=MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792,
	IDH01726, 4519, 4538
SNP Position	3167881
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	/codon_type=Nonsynonymous
	/taxa=4672
SNP Position	3175627

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	/taxa=4672, 4121, 4110, 4111, 4113
SNP Position	3177110
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	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	3180574
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	/codon_type=Synonymous
	/taxa=GP143
SNP Position	3181762
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A241
SNP Position	3183602
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	/codon_type=Nonsynonymous
	/taxa=A19
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	3189227
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	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180
SNP Position	3189446
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	/codon_type=Nonsynonymous
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SNP Position	3193335
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	/codon_type=Intergenic
	/taxa=4111
SNP Position	3197425
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	/codon_type=Nonsynonymous
	/taxa=4672
SNP Position	3199636
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	/codon_type=Synonymous
	/taxa=A397, A22
SNP Position	3200052
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A397, A22
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	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
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	PRL64, MBRN14, 4122, 4488, 4600,
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
	A232, A231, A201, A186, A200,
	A193, A390, GP145, GP160, GP106,
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
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	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
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	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
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SNP Position	3209651
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SNP Position	3209969
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SNP Position	3212132
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	/codon_type=Nonsynonymous
	/taxa=4122
SNP Position	3214195
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	/taxa=4672
SNP Position	3215466
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	/codon_type=Intergenic
	/taxa=A4
SNP Position	3219004
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	/taxa=GP152
SNP Position	3222072
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	/taxa=A5, A31, A27, A185, A184,
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	A231, A201, A186, A200, A193,
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3226737
	/strand=reverse

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	/taxa=A4
SNP Position	3227197
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=MBRN14, 4122, 4488, 4600, 4585,
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SNP Position	3227892
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	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	3229072
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
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	A193, A390, GP145, GP160, GP106,
	A152, A155, A154, A4, PRL18
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
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SNP Position	3232005
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	/taxa=CIRS101
SNP Position	3241941
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	/taxa=A5, A31, A27, A185, A184,
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	A231, A201, A186, A200, A193,
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	A201, A186, A200, A193, A390
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	/taxa=7682
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	/taxa=A31
SNP Position	3253125
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	/codon_type=Nonsynonymous

	/taxa=A155, A154
SNP Position	3256783
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	/codon_type=Intergenic
	/taxa=4661, A488_2, A488_1
SNP Position	3258810
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=V212-1
SNP Position	3260202
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=PRL18
SNP Position	3277228
	/SNP="T->G"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3278097
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3279270
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A383
SNP Position	3281628
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=A130, A131
SNP Position	3284515
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A5
SNP Position	3290147
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=GP152, A397, A22
SNP Position	3292473
	/SNP="C->A"
	/codon_type=Intergenic
	/taxa=PRL5
SNP Position	3295053
	/SNP="G->C"
	/codon_type=Intergenic
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	4623, 4605, 4593, 4552, 4551
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	/codon_type=Intergenic
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	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3298445
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3298458
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	/codon_type=Synonymous
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	/taxa=A152, A155, A154
SNP Position	3299294
	/SNP="T->G"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3299298
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3299300
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3303075
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	/codon_type=Intergenic
	/taxa=A4
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	/codon_type=Intergenic
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
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	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
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	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,

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	/taxa=M66, A6
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SNP Position	3315931
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	/taxa=4488
SNP Position	3315932
	/SNP="G->C"
	/codon_type=Intergenic
	/taxa=4488
SNP Position	3321051
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	/codon_type=Intergenic
	/taxa=M66, A6
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	/codon_type=Intergenic
	/taxa=4670
SNP Position	3325016
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	/codon_type=Intergenic

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SNP Position	3325130
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	/codon_type=Intergenic
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SNP Position	3325202
	/SNP="C->G"
	/codon_type=Intergenic
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SNP Position	3325244
	/SNP="A->C"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3325606
	/SNP="A->G"
	/codon_type=Intergenic
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SNP Position	3325675
	/SNP="T->C"
	/codon_type=Intergenic
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SNP Position	3325702
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	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3325723
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	/codon_type=Intergenic
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SNP Position	3325813
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	/codon_type=Intergenic
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	/codon_type=Intergenic
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SNP Position	3325854
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=M66, A6
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	/codon_type=Intergenic
	/taxa=MG116226
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	/codon_type=Intergenic
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SNP Position	3328682
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	/codon_type=Intergenic
	/taxa=MG116226
SNP Position	3328830
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3329542
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3329577
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3338344
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	/codon_type=Intergenic
	/taxa=A4
SNP Position	3339340
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3340813
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	/codon_type=Intergenic
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SNP Position	3343982
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SNP Position	3343983
	/SNP="A->C"
	/codon_type=Nonsynonymous
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SNP Position	3343985
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3344009
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	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3344082
	/SNP="G->A"
	/codon_type=Nonsynonymous

	/taxa=M66, A6
SNP Position	3344087
	/SNP="A->T"
	/codon_type=Synonymous
	/taxa=M66, A6
SNP Position	3344090
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=M66, A6
SNP Position	3352745
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3353357
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=M66, A6
SNP Position	3353422
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3353525
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=M66, A6
SNP Position	3356283
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	/codon_type=Intergenic
	/taxa=4121, 4110
SNP Position	3359295
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	/homoplasy=convergence with branch leading to A4
	/codon_type=Nonsynonymous
	/taxa=6210, 6215, 6214, 6212, 6196,
	6191, 6195, 6193, 6194, 6201,
	6197, 6180
SNP Position	3359295
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	/homoplasy=convergence with branch leading to 78
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3362647
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	/codon_type=Nonsynonymous
	/taxa=4122, 4488, 4600, 4585, 4536,
	4623, 4605, 4593, 4552, 4551
SNP Position	3367148
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	/codon_type=Intergenic
	/taxa=PRL5
SNP Position	3369076
	/SNP="T->C"
	/codon_type=Nonsynonymous

	/taxa=MG116025, MG116226, 4660, 4675, 4663,
	4662, A487_1, A487_2, CIRS101, 4679, MBN17,
	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19, A5, A31, A27, A185,
	A184, A32, A177, A29, A180,
	A232, A231, A201, A186, A200,
	A193, A390, GP145, GP160, GP106,
	A152, A155, A154, A4, PRL18
SNP Position	3375244
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	/taxa=B33, 1627, 1346, 1362
SNP Position	3375644
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	/codon_type=Intergenic
	/taxa=4663, 4662, A487_1, A487_2, CIRS101,
	4679, MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792,
	IDHO1726, 4519, 4538
SNP Position	3377134
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	3384140
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	/codon_type=Synonymous
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,
	2010EL_1792, IDHO1726, 4519, 4538, 4661,
	A488_2, A488_1
SNP Position	3385149
	/SNP="G->T"
	/codon_type=Intergenic
	/taxa=4122
SNP Position	3391580
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3400592

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	/codon_type=Nonsynonymous
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	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	/taxa=A383, A330, MO10
SNP Position	3404066
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	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3406328
	/SNP="C->T"
	/codon_type=Intergenic
	/taxa=A383
SNP Position	3411265
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=V212-1
SNP Position	3414683
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3415430
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	3420265
	/strand=reverse
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3420418
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	/codon_type=Synonymous
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	6201, 6197, 6180, A482, A483,

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	7686
SNP Position	3421571
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	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=4784
SNP Position	3423352
	/SNP="C->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=4672
SNP Position	3428051
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=V109
SNP Position	3431089
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4663, 4662, A487_1, A487_2
SNP Position	3431972
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	3433964
	/strand=reverse
	/SNP="G->C"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
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SNP Position	3437366
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	/codon_type=Nonsynonymous
	/taxa=4322
SNP Position	3443938
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3444786
	/SNP="T->A"
	/codon_type=Synonymous
	/taxa=MBRN14
SNP Position	3446126
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	/codon_type=Nonsynonymous
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	2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726,
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,

	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5,
	A316, A245, A241, A10, GP140, RC9,
	GP143, GP152, A397, A22, GP60, N16961,
	A19
SNP Position	3447252
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	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	3448829
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	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	3455480
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	3455770
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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=PRL18
SNP Position	3469174
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	/codon_type=Intergenic
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	3469259
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	/codon_type=Intergenic
	/taxa=A397
SNP Position	3479479
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390

SNP Position	3481314
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	/codon_type=Nonsynonymous
	/taxa=A397, A22
SNP Position	3481451
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4784
SNP Position	3488087
	/strand=reverse
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3493603
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A383, A330, MO10
SNP Position	3496450
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A22
SNP Position	3506149
	/SNP="C->G"
	/codon_type=Intergenic
	/taxa=A232, A231, A201, A186, A200, A193, A390
SNP Position	3509641
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=GP143
SNP Position	3510685
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	/codon_type=Nonsynonymous
	/taxa=A383
SNP Position	3510884
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3512085
	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3516237
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	3521495
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4784, 6210, 6215, 6214, 6212, 6196, 6191, 6195, 6193, 6194, 6201, 6197, 6180, A482, A483,

	A481, 7682, 7684, 7687, 7685,
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SNP Position	3523258
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	/taxa=A397
SNP Position	3523311
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=V212-1
SNP Position	3525800
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=PRL64, MBRN14, 4122, 4488, 4600,
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	4552, 4551, 4642, 4656, 4646,
	4339, 4322
SNP Position	3527832
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	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	3528400
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3529415
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A152, A155, A154
SNP Position	3529656
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=IDHO1726
SNP Position	3533157
	/strand=reverse
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	3533392
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	/taxa=A10
SNP Position	3533464

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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A383, A330, MO10
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	4519, 4538, 4661, A488_2, A488_1,
	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
	4339, 4322, 4784, 6210, 6215,
	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
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	/codon_type=Intergenic
	/taxa=A482, A483, A481, 7682, 7684,
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	/codon_type=Nonsynonymous
	/taxa=GP152, A397, A22
SNP Position	3545044
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	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	3548192
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	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3549798
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=4660
SNP Position	3552630
	/SNP="A->G"
	/codon_type=Nonsynonymous

	/taxa=A4
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	/SNP="A->G"
	/homoplasy=convergence with branch leading to A245
	/codon_type=Intergenic
	/taxa=4660
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	/homoplasy=convergence with branch leading to 4660
	/codon_type=Intergenic
	/taxa=A245
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	/codon_type=Intergenic
	/taxa=4600, 4585, 4536, 4623
SNP Position	3561665
	/SNP="G->C"
	/codon_type=Intergenic
	/taxa=A397, A22
SNP Position	3561898
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=PRL64
SNP Position	3561996
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	3562020
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=V212-1
SNP Position	3562181
	/SNP="A->C"
	/codon_type=Nonsynonymous
	/taxa=4536
SNP Position	3563242
	/SNP="T->C"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3564789
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A245, A241
SNP Position	3566294
	/SNP="A->G"
	/codon_type=Intergenic
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SNP Position	3571072
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	/codon_type=Nonsynonymous

	/taxa=IDHO1726
SNP Position	3575754
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	/codon_type=Synonymous
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	6197, 6180
SNP Position	3576706
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	/codon_type=Synonymous
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	6201, 6197, 6180, A482, A483,
	A481, 7682, 7684, 7687, 7685,
	7686
SNP Position	3577104
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3577937
	/strand=reverse
	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=4111, 4113
SNP Position	3578873
	/SNP="T->C"
	/codon_type=Intergenic
	/taxa=A245, A241
SNP Position	3581904
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	/codon_type=Nonsynonymous
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	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
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	/codon_type=Synonymous
	/taxa=4122
SNP Position	3586850
	/SNP="G->T"
	/codon_type=Nonsynonymous
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SNP Position	3587117
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3587617
	/strand=reverse
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4121, 4110, 4111, 4113

SNP Position	3590730
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=MJ1485
SNP Position	3591984
	/SNP="T->C"
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	/taxa=A4
SNP Position	3592256
	/SNP="G->A"
	/codon_type=Intergenic
	/taxa=A4
SNP Position	3592981
	/strand=reverse
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3597595
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	3600133
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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	4113, A109, A383, A330, MO10
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SNP Position	3600873
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=4675, 4663, 4662, A487_1, A487_2,
	CIRS101, 4679, MBN17, 2010EL_1798, 2010EL_1786,

	2010EL_1792, IDHO1726, 4519, 4538, 4661,
	A488_2, A488_1, PRL64, MBRN14, 4122,
	4488, 4600, 4585, 4536, 4623,
	4605, 4593, 4552, 4551, 4642,
	4656, 4646, 4339, 4322
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	/taxa=4679
SNP Position	3612593
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	/codon_type=Synonymous
	/taxa=RC9
SNP Position	3620109
	/SNP="C->A"
	/codon_type=Nonsynonymous
	/taxa=4679
SNP Position	3622449
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A201
SNP Position	3634585
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A397
SNP Position	3638144
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP140
SNP Position	3639560
	/SNP="C->T"
	/codon_type=Intergenic
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	7687, 7685, 7686
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3644378
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=PRL18
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	/strand=reverse
	/SNP="G->T"
	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=4679, MBN17, 2010EL_1798, 2010EL_1786,

	2010EL_1792, IDHO1726, 4519, 4538
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	/codon_type=Intergenic
	/taxa=GP152
SNP Position	3652034
	/SNP="A->T"
	/codon_type=Intergenic
	/taxa=A10
SNP Position	3652035
	/SNP="G->T"
	/codon_type=Intergenic
	/taxa=4111
SNP Position	3652038
	/SNP="C->G"
	/codon_type=Intergenic
	/taxa=4111
SNP Position	3653029
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	/codon_type=Synonymous
	/taxa=A4
SNP Position	3655649
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A130, A131
SNP Position	3657508
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=GP145, GP160, GP106
SNP Position	3660780
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	/codon_type=Intergenic
	/taxa=A383
SNP Position	3666073
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	/codon_type=Intergenic
	/taxa=MBN17, 2010EL_1798, 2010EL_1786, 2010EL_1792, IDHO1726, 4519, 4538
SNP Position	3669444
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	/codon_type=Intergenic
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SNP Position	3673617
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	/codon_type=Nonsynonymous
	/taxa=GP152
SNP Position	3677459
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4642, 4656, 4646

SNP Position	3678162
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=GP140
SNP Position	3679465
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=IDHO1726
SNP Position	3681207
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A390
SNP Position	3681708
	/SNP="G->A"
	/codon_type=Synonymous
	/taxa=A130, A131
SNP Position	3684727
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	/codon_type=Intergenic
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	A177, A29, A180, A232, A231,
	A201, A186, A200, A193, A390
SNP Position	3685686
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	/SNP="T->G"
	/codon_type=Nonsynonymous
	/taxa=4339
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	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3688432
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=4488
SNP Position	3696787
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3711659
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=A397, A22
SNP Position	3724939
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=4121, 4110, 4111, 4113
SNP Position	3728246
	/SNP="G->T"
	/codon_type=Nonsynonymous
	/taxa=A4

SNP Position	3732948
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	/codon_type=Intergenic
	/taxa=M66, A6
SNP Position	3733388
	/SNP="A->G"
	/codon_type=Intergenic
	/taxa=A152, A155, A154
SNP Position	3734677
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	/SNP="T->A"
	/codon_type=Nonsynonymous
	/taxa=MBRN14, 4122, 4488, 4600, 4585,
	4536, 4623, 4605, 4593, 4552,
	4551, 4642, 4656, 4646, 4339, 4322
SNP Position	3734835
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	/codon_type=Intergenic
	/taxa=4672
SNP Position	3749727
	/SNP="T->G"
	/codon_type=Intergenic
	/taxa=N16961, A19
SNP Position	3753795
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=V109
SNP Position	3755916
	/strand=reverse
	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=A4
SNP Position	3757907
	/strand=reverse
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=VC51, V212-1, MJ1485, MJ1236, A346_2,
	A346_1, B33, 1627, 1346, 1362, 4670,
	4672, 4121, 4110, 4111, 4113
SNP Position	3765165
	/strand=reverse
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	/codon_type=Synonymous
	/taxa=A482, A483, A481, 7682, 7684,
	7687, 7685, 7686
SNP Position	3765343
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	/codon_type=Nonsynonymous
	/taxa=MG116025, MG116226, 4660, 4675, 4663,
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	6193, 6194, 6201, 6197, 6180,
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	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,
	A346_2, A346_1, B33, 1627, 1346, 1362,
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SNP Position	3766219
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	/taxa=A245
SNP Position	3767657
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	/codon_type=Nonsynonymous
	/taxa=PRL18
SNP Position	3769960
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	/SNP="A->T"
	/codon_type=Nonsynonymous
	/taxa=V212-1
SNP Position	3770215
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	/codon_type=Intergenic
	/taxa=A316
SNP Position	3779310
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	/taxa=A4
SNP Position	3781844
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	/codon_type=Synonymous
	/taxa=2010EL_1798, 2010EL_1786, 2010EL_1792
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	6197, 6180
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	/codon_type=Nonsynonymous
	/taxa=A152, A155, A154
SNP Position	3789684

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	/codon_type=Nonsynonymous
	/taxa=4600, 4585
SNP Position	3800954
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	/SNP="A->G"
	/codon_type=Synonymous
	/taxa=PRL64, MBRN14, 4122, 4488, 4600,
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	4339, 4322
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	/taxa=A152, A155, A154
SNP Position	3805839
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	/codon_type=SNOP (non-stop codon to stop condon)
	/taxa=A383
SNP Position	3810829
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	/codon_type=Nonsynonymous
	/taxa=A482, A483, A481, 7682, 7684,
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SNP Position	3815171
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	/codon_type=Intergenic
	/taxa=A397
SNP Position	3818412
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	/taxa=1346
SNP Position	3819258
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3822140
	/strand=reverse
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=A383, A330, MO10
SNP Position	3822833
	/strand=reverse
	/SNP="T->C"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3823559
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	/codon_type=Synonymous
	/taxa=B33, 1627, 1346, 1362
SNP Position	3826193
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	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	3828252
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=A330
SNP Position	3828256
	/SNP="C->T"
	/codon_type=Nonsynonymous
	/taxa=VC51
SNP Position	3831412
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	/codon_type=Intergenic
	/taxa=B33, 1627, 1346, 1362
SNP Position	3833179
	/SNP="A->G"
	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3834415
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=RC9
SNP Position	3834966
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=CIRS101
SNP Position	3837840
	/strand=reverse
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3839643
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	PRL64, MBRN14, 4122, 4488, 4600,
	4585, 4536, 4623, 4605, 4593,
	4552, 4551, 4642, 4656, 4646,
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
	A482, A483, A481, 7682, 7684,
	7687, 7685, 7686, V5, V109,
	A130, A131, VC51, V212-1, MJ1485, MJ1236,

	A346_2, A346_1, B33, 1627, 1346, 1362,
	4670, 4672, 4121, 4110, 4111,
	4113, A109, A383, A330, MO10, PRL5
SNP Position	3845699
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	A231, A201, A186, A200, A193,
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SNP Position	3847191
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	/codon_type=Intergenic
	/taxa=RC9, GP143, GP152, A397, A22,
	GP60
SNP Position	3849186
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	/codon_type=Nonsynonymous
	/taxa=A4
SNP Position	3849480
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	/codon_type=Nonsynonymous
	/taxa=A4
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	/codon_type=Intergenic
	/taxa=A5, A31, A27, A185, A184,
	A32, A177, A29, A180, A232,
	A231, A201, A186, A200, A193,
	A390
SNP Position	3852218
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	/taxa=4672
SNP Position	3852674
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	/codon_type=Nonsynonymous
	/taxa=4623
SNP Position	3852708
	/SNP="G->A"
	/codon_type=Nonsynonymous
	/taxa=4339
SNP Position	3855996
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SNP Position	3862193
	/SNP="C->T"
	/codon_type=Synonymous
	/taxa=GP152, A397, A22
SNP Position	3866818

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	/taxa=B33, 1627, 1346, 1362
SNP Position	3869652
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	/codon_type=Intergenic
	/taxa=A482
SNP Position	3875878
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	6214, 6212, 6196, 6191, 6195,
	6193, 6194, 6201, 6197, 6180,
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	GP143, GP152, A397, A22, GP60, N16961,
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	GP143, GP152, A397, A22, GP60, N16961,
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	A184, A32, A177, A29, A180,
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