

Supplementary material

**Assembly and comparative analyses of the mitochondrial genome of
Castanospermum australe (Papilionoideae, Leguminosae)**

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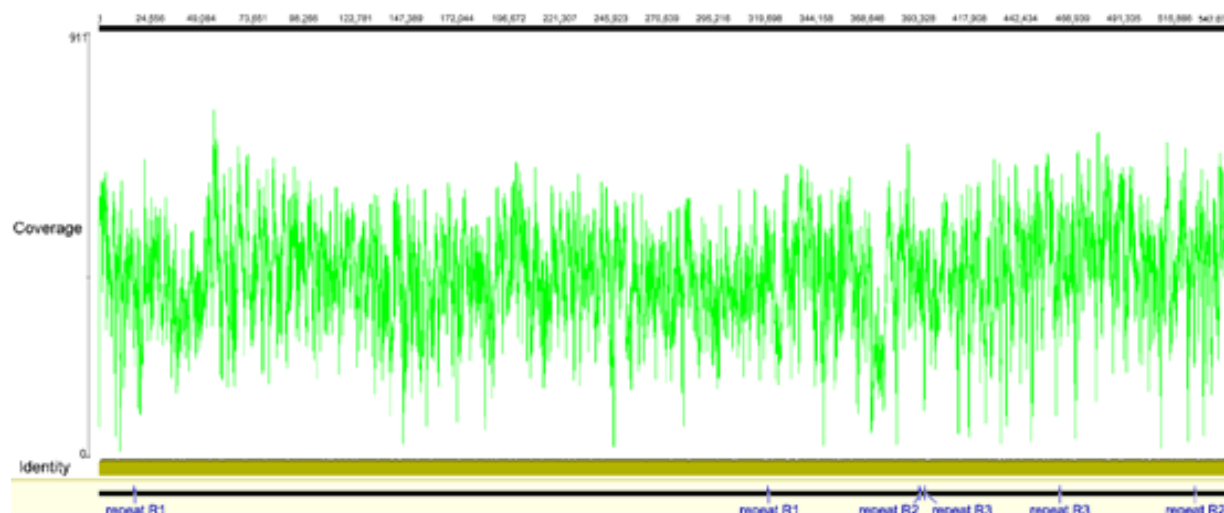


Fig. S1. Mitochondrial genome coverage of MC1. Illumina paired-end reads were mapped using default bowtie2 parameters to the assembled mitochondrial genome, so as to visualise coverage across the genome. Annotated regions represent repeats >100 bp.

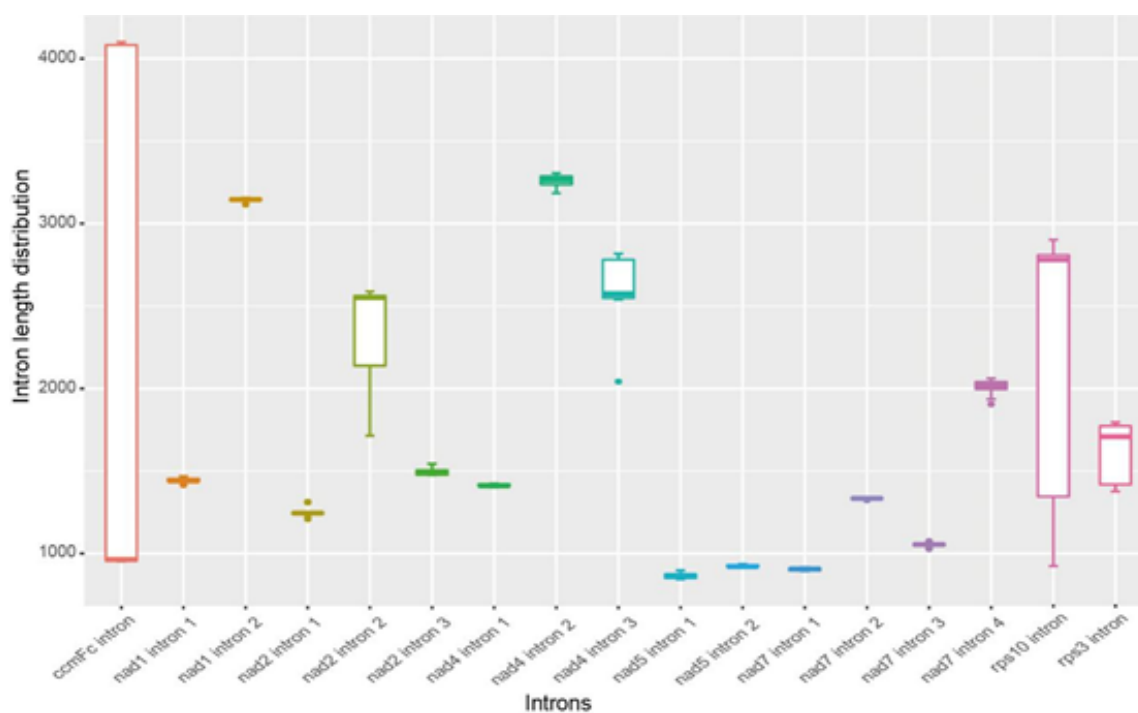


Fig. S2. Boxplot diagram of the length distributions of 17 introns in eight genes showing the length ranges of introns across the 10 Papilionoideae mitogenomes.

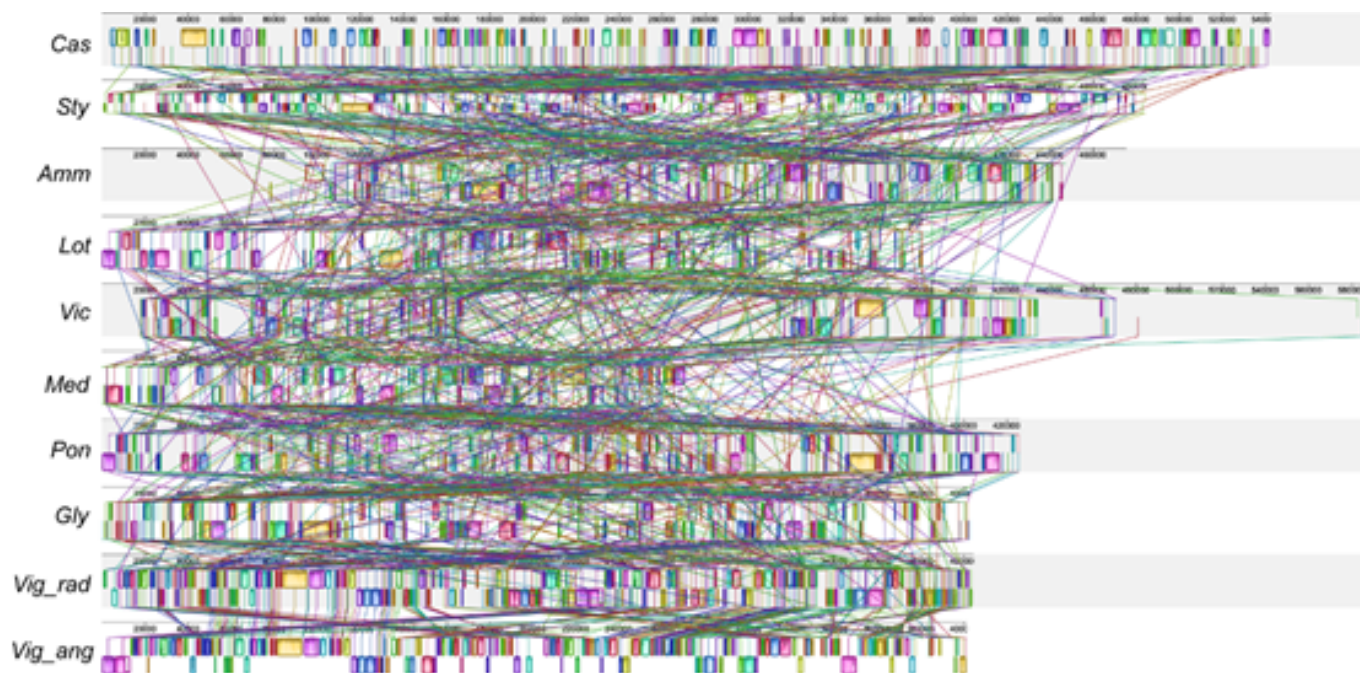


Fig. S3. Mitochondrial genome alignment constructed with progressiveMauve, showing global rearrangements across the ten Papilionoideae species listed in Table S1. Each mitochondrial genome is laid out horizontally and homologous fragments are shown as coloured blocks. Blocks shifted downward in each mitochondrial genome represent fragments that are inverted relative to the mitochondrial genome of *Castanospermum australe*.

Table S1. Genomic features and intron content of the mitochondrial genomes of *Castanospermum australe* and nine other Papilionoideae species

Species abbreviations: *Cas*, *Castanospermum australe*; *Sty*, *Styphnolobium japonicum*; *Amm*, *Ammopiptanthus mongolicus*; *Lot*, *Lotus japonicus*; *Vic*, *Vicia faba*; *Med*, *Medicago truncatula*; *Pon*, *Pongamia pinnata*; *Gly*, *Glycine max*; *Vig_rad*, *Vigna radiata* and *Vig_ang*, *Vigna angularis*

Genomic feature	<i>Cas</i>	<i>Sty</i>	<i>Amm</i>	<i>Lot</i>	<i>Vic</i>	<i>Med</i>	<i>Pon</i>	<i>Gly</i>	<i>Vig_rad</i>	<i>Vig_ang</i>
Length of genome (bp)	542079	484916	475396	380361	588000	217618	425718	402558	401262	404466
GC content (%)	45.3	45.4	42.7	45.4	45.0	45.4	45.4	45.0	45.1	43.4
Introns										
Num of <i>cis</i> intron	9	8	11	9	12	15	14	9	13	15
Num of <i>trans</i> intron	8	9	6	8	5	2	3	8	4	2
The length of introns										
<i>ccmFc</i> intron	960	952	967	961	955	955	4073	4100	4085	4085
<i>nad1-1</i> intron	1440	1439	1468	1434	1439	1415	1438	1442	1456	1456
<i>nad1-2</i> intron	3152	3142	3140	3143	3143	3155	3115	3149	3148	3148
<i>nad2-1</i> intron	1313	1233	1242	1243	1209	1310	1245	1245	1247	1247
<i>nad2-2</i> intron	1840	2552	2563	1714	2144	2136	2589	2570	2553	2556
<i>nad2-3</i> intron	1544	1505	1501	1513	1498	1483	1475	1477	1477	1476
<i>nad4-1</i> intron	1415	1423	1424	1421	1409	1405	1403	1408	1411	1411
<i>nad4-2</i> intron	3277	3306	3270	3258	3226	3184	3293	3290	3238	3237
<i>nad4-3</i> intron	2785	2801	2817	2569	2769	2578	2042	2569	2542	2539
<i>nad5-1</i> intron	848	844	844	875	874	898	859	859	873	872
<i>nad5-2</i> intron	935	930	925	932	915	915	920	920	920	920
<i>nad7-1</i> intron	916	910	908	913	910	897	904	900	894	894
<i>nad7-2</i> intron	1336	1333	1334	1332	1323	1333	1334	1331	1338	1337
<i>nad7-3</i> intron	1056	1054	1075	1055	1033	1028	1048	1055	1061	1059

Genomic feature	<i>Cas</i>	<i>Sty</i>	<i>Amm</i>	<i>Lot</i>	<i>Vic</i>	<i>Med</i>	<i>Pon</i>	<i>Gly</i>	<i>Vig_rad</i>	<i>Vig_ang</i>
<i>nad7-4</i> intron	1905	2011	1935	2062	2049	1992	2042	2033	2013	2026
<i>rps3</i> intron	1757	1748	1795	1668	1791	1778	1506	1376	1385	1389
<i>rps10</i> intron	2810	2773	2902	973	972	924	2460	2829	2790	2804
Total length	29289	29956	30110	27066	27659	27386	31746	32553	32431	32456

Table S2. The number of predicted RNA editing sites in 30 mitochondrial genes in *Castanospermum australe* and nine additional Papilionoideae species

Species abbreviations are same as those in Table S1

Gene	<i>Cas</i>	<i>Sty</i>	<i>Amm</i>	<i>Lot</i>	<i>Vic</i>	<i>Med</i>	<i>Pon</i>	<i>Gly</i>	<i>Vig_rad</i>	<i>Vig_ang</i>	Average
<i>atp1</i>	1	1	1	1	1	1	2	1	1	1	1.1
<i>atp4</i>	12	12	12	12	12	12	12	12	12	12	12
<i>atp6</i>	18	19	2	20	10	4	17	17	18	18	14.3
<i>atp8</i>	3	3	3	3	3	3	3	3	3	3	3
<i>atp9</i>	2	2	2	1	2	2	2	2	2	2	1.9
<i>ccmB</i>	33	33	30	29	29	29	30	30	31	31	30.5
<i>ccmC</i>	30	29	28	27	28	28	26	28	29	29	28.2
<i>ccmFc</i>	21	20	21	20	20	20	20	20	20	20	20.2
<i>ccmFn</i>	34	36	33	33	33	33	33	33	33	33	33.4
<i>cob</i>	15	15	15	16	15	15	14	14	14	14	14.7
<i>cox1</i>	19	19	19	19	19	19	19	18	17	17	18.5
<i>cox3</i>	12	12	12	12	12	12	9	11	10	10	11.2
<i>matR</i>	13	14	13	13	12	12	13	13	15	15	13.3
<i>mttB</i>	26	25	26	25	25	25	26	25	26	26	25.5
<i>nad1</i>	20	20	21	21	19	19	20	20	20	20	20
<i>nad2</i>	29	30	29	29	28	27	28	28	27	27	28.2
<i>nad3</i>	14	14	14	14	13	13	14	13	13	13	13.5
<i>nad4</i>	42	41	41	42	36	42	41	41	41	41	40.8
<i>nad4L</i>	13	13	13	13	13	13	12	13	13	13	12.9
<i>nad5</i>	27	28	28	28	28	28	28	27	28	28	27.8
<i>nad6</i>	12	12	12	12	11	11	12	13	12	12	11.9
<i>nad7</i>	30	31	29	30	30	30	29	29	29	29	29.6
<i>nad9</i>	9	9	8	8	7	7	8	8	8	8	8
<i>rpl5</i>	8	8	8	8	8	7	8	8	8	8	7.9
<i>rpl16</i>	4	4	4	4	4	4	4	4	5	5	4.2
<i>rps3</i>	8	7	8	9	9	9	8	9	8	8	8.3
<i>rps4</i>	18	18	18	18	18	18	18	18	18	18	18
<i>rps10</i>	4	4	4	4	3	3	4	4	4	4	3.8
<i>rps12</i>	7	7	7	7	7	6	7	7	7	7	6.9
<i>rps14</i>	3	3	3	3	3	3	3	3	3	3	3
Sum	487	489	464	481	458	455	470	472	475	475	

Table S3. The frequency (%) of predicted RNA editing per site in 30 mitochondrial genes in *Castanospermum australe* and nine additional Papilionoideae species

Species abbreviations are the same as those in Table S1

Gene	<i>Cas</i>	<i>Sty</i>	<i>Amm</i>	<i>Lot</i>	<i>Vic</i>	<i>Med</i>	<i>Pon</i>	<i>Gly</i>	<i>Vig_rad</i>	<i>Vig_ang</i>
<i>atp1</i>	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
<i>atp4</i>	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.06	2.05	2.02
<i>atp6</i>	2.38	2.54	2.52	2.52	2.21	2.84	2.48	2.62	2.62	2.62
<i>atp8</i>	0.62	0.63	0.62	0.62	0.60	0.62	0.62	0.62	0.60	0.60
<i>atp9</i>	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
<i>ccmB</i>	5.31	5.31	5.26	5.31	5.31	5.31	5.31	5.31	5.31	5.31
<i>ccmC</i>	4.05	3.91	2.94	4.01	3.88	3.88	3.91	3.91	4.01	3.91
<i>ccmFc</i>	1.55	1.42	1.46	1.67	1.50	1.42	1.42	1.46	1.43	1.43
<i>ccmFn</i>	1.96	2.00	2.07	2.07	2.07	2.07	2.08	2.07	2.07	2.07
<i>cob</i>	1.27	1.27	1.27	0.87	1.27	1.27	1.27	1.28	1.27	1.27
<i>cox1</i>	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
<i>cox3</i>	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
<i>matR</i>	0.65	0.72	0.70	0.71	0.69	0.70	0.70	0.70	0.70	0.70
<i>mtfB</i>	3.47	3.46	3.33	3.23	3.47	3.46	3.33	3.46	3.46	3.46
<i>nad1</i>	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04
<i>nad2</i>	1.98	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04
<i>nad3</i>	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
<i>nad4</i>	2.82	2.76	2.76	2.76	2.88	2.76	2.76	2.76	2.76	2.76
<i>nad4L</i>	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
<i>nad5</i>	1.34	1.39	1.41	1.39	1.39	1.39	1.39	1.39	1.35	1.35
<i>nad6</i>	1.94	1.92	1.94	1.94	1.94	1.94	1.94	1.82	1.94	1.94
<i>nad7</i>	2.53	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
<i>nad9</i>	1.57	1.57	1.57	1.57	1.52	1.52	1.57	1.57	1.57	1.57
<i>rpl5</i>	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
<i>rpl16</i>	0.78	0.78	0.72	0.78	0.78	0.77	0.78	0.78	0.78	0.77
<i>rps3</i>	0.47	0.44	0.41	0.41	0.41	0.43	0.41	0.41	0.41	0.41
<i>rps4</i>	1.65	1.60	1.71	1.73	1.73	1.71	1.73	1.73	1.73	1.73
<i>rps10</i>	1.10	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
<i>rps12</i>	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
<i>rps14</i>	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99

Table S4. Predicted RNA editing sites of the mitochondrial genome of *Ammopiptanthus mongolicus*

Position	CDS/exon name	codon/AA change
334271	atp1 CDS	CCA (P) => CTA (L)
220317	atp4 CDS	CCA (P) => CTA (L)
220320	atp4 CDS	TCT (S) => TTT (F)
220350	atp4 CDS	TCA (S) => TTA (L)
220379	atp4 CDS	CGT (R) => TGT (C)
220476	atp4 CDS	TCG (S) => TTG (L)
220487	atp4 CDS	CCC (P) => TTC (F)
220488	atp4 CDS	CCC (P) => TTC (F)
220509	atp4 CDS	CCT (P) => CTT (L)
220656	atp4 CDS	TCA (S) => TTA (L)
220668	atp4 CDS	CCA (P) => CTA (L)
220677	atp4 CDS	ACT (T) => ATT (I)
220751	atp4 CDS	CCC (P) => TCC (S)
244062	atp6 CDS	CCC (P) => TCC (S)
243381	atp6 CDS	CAA (Q) => TAA (X)
307489	atp8 CDS	TCA (S) => TTA (L)
307500	atp8 CDS	CTC (L) => TTC (F)
307897	atp8 CDS	CCA (P) => CTA (L)
203074	atp9 CDS	TCA (S) => TTA (L)
203044	atp9 CDS	TCA (S) => TTA (L)
315202	ccmB CDS	CCC (P) => TCC (S)
315174	ccmB CDS	CCA (P) => CTA (L)
315165	ccmB CDS	TCG (S) => TTG (L)
315117	ccmB CDS	TCA (S) => TTA (L)
315108	ccmB CDS	TCC (S) => TTC (F)
315096	ccmB CDS	CCG (P) => CTG (L)
315091	ccmB CDS	CGG (R) => TGG (W)
315085	ccmB CDS	CCT (P) => TCT (S)
315081	ccmB CDS	CCG (P) => CTG (L)
315066	ccmB CDS	CCT (P) => CTT (L)
315064	ccmB CDS	CCC (P) => TCC (S)
315052	ccmB CDS	CCT (P) => TTT (F)
315051	ccmB CDS	CCT (P) => TTT (F)
314959	ccmB CDS	CGG (R) => TGG (W)
314907	ccmB CDS	CCG (P) => CTG (L)
314878	ccmB CDS	CGG (R) => TGG (W)
314865	ccmB CDS	CCA (P) => CTA (L)
314821	ccmB CDS	CGT (R) => TGT (C)
314772	ccmB CDS	TCG (S) => TTG (L)
314763	ccmB CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
314754	ccmB CDS	TCA (S) => TTA (L)
314745	ccmB CDS	TCA (S) => TTA (L)
314736	ccmB CDS	CCA (P) => CTA (L)
314727	ccmB CDS	TCT (S) => TTT (F)
314725	ccmB CDS	CGT (R) => TGT (C)
314688	ccmB CDS	TCA (S) => TTA (L)
314685	ccmB CDS	TCG (S) => TTG (L)
314673	ccmB CDS	TCC (S) => TTC (F)
314670	ccmB CDS	TCT (S) => TTT (F)
314667	ccmB CDS	CCG (P) => CTG (L)
439391	ccmC CDS	CGG (R) => TGG (W)
439364	ccmC CDS	CAT (H) => TAT (Y)
439352	ccmC CDS	CGG (R) => TGG (W)
439334	ccmC CDS	CTT (L) => TTT (F)
439288	ccmC CDS	GCG (A) => GTG (V)
439283	ccmC CDS	CGG (R) => TGG (W)
439186	ccmC CDS	ACA (T) => ATA (I)
439136	ccmC CDS	CGG (R) => TGG (W)
439072	ccmC CDS	TCG (S) => TTG (L)
439046	ccmC CDS	CGT (R) => TGT (C)
439031	ccmC CDS	CCT (P) => TCT (S)
439021	ccmC CDS	CCG (P) => CTG (L)
439016	ccmC CDS	CCT (P) => TCT (S)
439009	ccmC CDS	TCA (S) => TTA (L)
439004	ccmC CDS	CGT (R) => TGT (C)
439000	ccmC CDS	GCT (A) => GTT (V)
438994	ccmC CDS	CCG (P) => CTG (L)
438970	ccmC CDS	TCT (S) => TTT (F)
438919	ccmC CDS	TCT (S) => TTT (F)
438899	ccmC CDS	CCT (P) => TCT (S)
438892	ccmC CDS	CCC (P) => CTC (L)
438859	ccmC CDS	CCC (P) => CTC (L)
438857	ccmC CDS	CTC (L) => TTC (F)
438853	ccmC CDS	TCA (S) => TTA (L)
438848	ccmC CDS	CGT (R) => TGT (C)
438817	ccmC CDS	CCT (P) => CTT (L)
438802	ccmC CDS	CCC (P) => CTC (L)
438794	ccmC CDS	CCT (P) => TCT (S)
169704	ccmFc exon1	TCT (S) => TTT (F)
169692	ccmFc exon1	CCT (P) => CTT (L)
169690	ccmFc exon1	CGT (R) => TGT (C)
169639	ccmFc exon1	CCC (P) => TCC (S)

Position	CDS/exon name	codon/AA change
169620	ccmFc exon1	TCC (S) => TTC (F)
169591	ccmFc exon1	CCT (P) => TCT (S)
169587	ccmFc exon1	TCA (S) => TTA (L)
169582	ccmFc exon1	CCT (P) => TCT (S)
169437	ccmFc exon1	TCA (S) => TTA (L)
169432	ccmFc exon1	CGT (R) => TGT (C)
169336	ccmFc exon1	CGT (R) => TGT (C)
169330	ccmFc exon1	CTC (L) => TTC (F)
169036	ccmFc exon1	CAC (H) => TAC (Y)
169026	ccmFc exon1	GCT (A) => GTT (V)
167885	ccmFc exon2	TCT (S) => TTT (F)
167847	ccmFc exon2	CCC (P) => TCC (S)
167624	ccmFc exon2	CCA (P) => CTA (L)
167603	ccmFc exon2	TCG (S) => TTG (L)
167529	ccmFc exon2	CGG (R) => TGG (W)
167504	ccmFc exon2	TCG (S) => TTG (L)
167448	ccmFc exon2	CGA (R) => TGA (X)
189647	ccmFn CDS	CCG (P) => CTG (L)
189707	ccmFn CDS	CCT (P) => CTT (L)
189746	ccmFn CDS	TCG (S) => TTG (L)
189751	ccmFn CDS	CGT (R) => TGT (C)
189760	ccmFn CDS	CCT (P) => TCT (S)
189857	ccmFn CDS	TCA (S) => TTA (L)
189865	ccmFn CDS	CGG (R) => TGG (W)
189872	ccmFn CDS	CCA (P) => CTA (L)
189892	ccmFn CDS	CTT (L) => TTT (F)
189943	ccmFn CDS	CAT (H) => TAT (Y)
189974	ccmFn CDS	TCG (S) => TTG (L)
190087	ccmFn CDS	CGT (R) => TGT (C)
190168	ccmFn CDS	CCT (P) => TTT (F)
190169	ccmFn CDS	CCT (P) => TTT (F)
190318	ccmFn CDS	CCT (P) => TTT (F)
190319	ccmFn CDS	CCT (P) => TTT (F)
190328	ccmFn CDS	TCA (S) => TTA (L)
190366	ccmFn CDS	CGT (R) => TGT (C)
190388	ccmFn CDS	TCA (S) => TTA (L)
190400	ccmFn CDS	CCA (P) => CTA (L)
190415	ccmFn CDS	TCA (S) => TTA (L)
190564	ccmFn CDS	CGC (R) => TGC (C)
190882	ccmFn CDS	CGG (R) => TGG (W)
190910	ccmFn CDS	CCA (P) => CTA (L)
190927	ccmFn CDS	CAT (H) => TAT (Y)

Position	CDS/exon name	codon/AA change
190942	ccmFn CDS	CGG (R) => TGG (W)
190960	ccmFn CDS	CGG (R) => TGG (W)
191011	ccmFn CDS	CGT (R) => TGT (C)
191054	ccmFn CDS	TCG (S) => TTG (L)
191074	ccmFn CDS	CTT (L) => TTT (F)
191078	ccmFn CDS	CCA (P) => CTA (L)
191090	ccmFn CDS	TCA (S) => TTA (L)
191173	ccmFn CDS	CGG (R) => TGG (W)
423911	cob CDS	CTC (L) => TTC (F)
423899	cob CDS	CAC (H) => TAC (Y)
423872	cob CDS	CAT (H) => TAT (Y)
423839	cob CDS	CGG (R) => TGG (W)
423790	cob CDS	ACA (T) => ATA (I)
423778	cob CDS	CCA (P) => CTA (L)
423629	cob CDS	CAT (H) => TAT (Y)
423389	cob CDS	CCC (P) => TCC (S)
423344	cob CDS	CAT (H) => TAT (Y)
423289	cob CDS	CCA (P) => CTA (L)
423215	cob CDS	CAC (H) => TAC (Y)
423182	cob CDS	CGC (R) => TGC (C)
423116	cob CDS	CCT (P) => TCT (S)
423113	cob CDS	CCT (P) => TCT (S)
423073	cob CDS	CCG (P) => CTG (L)
225473	cox1 CDS	CCG (P) => CTG (L)
225704	cox1 CDS	TCT (S) => TTT (F)
225716	cox1 CDS	TCT (S) => TTT (F)
225905	cox1 CDS	TCA (S) => TTA (L)
225914	cox1 CDS	TCT (S) => TTT (F)
225977	cox1 CDS	TCC (S) => TTC (F)
226013	cox1 CDS	TCA (S) => TTA (L)
226037	cox1 CDS	CCA (P) => CTA (L)
226052	cox1 CDS	CCA (P) => CTA (L)
226130	cox1 CDS	TCT (S) => TTT (F)
226177	cox1 CDS	CGG (R) => TGG (W)
226208	cox1 CDS	CCC (P) => CTC (L)
226223	cox1 CDS	TCC (S) => TTC (F)
226541	cox1 CDS	CCG (P) => CTG (L)
226648	cox1 CDS	CAC (H) => TAC (Y)
226741	cox1 CDS	CTC (L) => TTC (F)
226864	cox1 CDS	CGT (R) => TGT (C)
226867	cox1 CDS	CGT (R) => TGT (C)
226895	cox1 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
283928	cox3 CDS	CCT (P) => CTT (L)
283916	cox3 CDS	TCT (S) => TTT (F)
283910	cox3 CDS	CCG (P) => CTG (L)
283884	cox3 CDS	CTT (L) => TTT (F)
283869	cox3 CDS	CGG (R) => TGG (W)
283862	cox3 CDS	TCT (S) => TTT (F)
283859	cox3 CDS	TCT (S) => TTT (F)
283785	cox3 CDS	CGG (R) => TGG (W)
283760	cox3 CDS	CCT (P) => CTT (L)
283661	cox3 CDS	TCA (S) => TTA (L)
283419	cox3 CDS	CGG (R) => TGG (W)
283409	cox3 CDS	CCA (P) => CTA (L)
404553	matR CDS	TCC (S) => TTC (F)
404500	matR CDS	CGC (R) => TGC (C)
404392	matR CDS	CCA (P) => TCA (S)
404349	matR CDS	TCC (S) => TTC (F)
404259	matR CDS	CCA (P) => CTA (L)
403524	matR CDS	CCC (P) => CTC (L)
403179	matR CDS	GCG (A) => GTG (V)
402909	matR CDS	TCT (S) => TTT (F)
402888	matR CDS	CCT (P) => CTT (L)
402868	matR CDS	CGC (R) => TGC (C)
402832	matR CDS	CAC (H) => TAC (Y)
402762	matR CDS	CCC (P) => CTC (L)
402744	matR CDS	TCA (S) => TTA (L)
299284	mttB CDS	CCG (P) => CTG (L)
299246	mttB CDS	CGG (R) => TGG (W)
299210	mttB CDS	CGT (R) => TGT (C)
299198	mttB CDS	CCG (P) => TCG (S)
299182	mttB CDS	TCT (S) => TTT (F)
299179	mttB CDS	CCA (P) => CTA (L)
299122	mttB CDS	TCA (S) => TTA (L)
299110	mttB CDS	TCC (S) => TTC (F)
299108	mttB CDS	CCG (P) => TCG (S)
299048	mttB CDS	CAT (H) => TAT (Y)
298982	mttB CDS	CTC (L) => TTC (F)
298966	mttB CDS	TCT (S) => TTT (F)
298964	mttB CDS	CGC (R) => TGC (C)
298957	mttB CDS	TCC (S) => TTC (F)
298934	mttB CDS	CCC (P) => TCC (S)
298931	mttB CDS	CGG (R) => TGG (W)
298873	mttB CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
298838	mttB CDS	CAT (H) => TAT (Y)
298813	mttB CDS	TCG (S) => TTG (L)
298805	mttB CDS	CCA (P) => TCA (S)
298762	mttB CDS	CCA (P) => CTA (L)
298756	mttB CDS	CCA (P) => CTA (L)
298700	mttB CDS	CCG (P) => TCG (S)
298643	mttB CDS	CGT (R) => TGT (C)
298627	mttB CDS	TCG (S) => TTG (L)
298597	mttB CDS	TCG (S) => TTG (L)
362320	nad1 exon1	ACG (T) => ATG (M)
362107	nad1 exon1	TCC (S) => TTC (F)
362057	nad1 exon1	CGG (R) => TGG (W)
362014	nad1 exon1	TCG (S) => TTG (L)
361954	nad1 exon1	ACA (T) => ATA (I)
230110	nad1 exon3	CCC (P) => TCC (S)
230113	nad1 exon3	CGT (R) => TGT (C)
230120	nad1 exon3	TCG (S) => TTG (L)
230156	nad1 exon3	TCC (S) => TTC (F)
230200	nad1 exon3	CGT (R) => TGT (C)
230255	nad1 exon3	TCA (S) => TTA (L)
405276	nad1 exon4	TCT (S) => TTT (F)
402085	nad1 exon5	CCA (P) => CTA (L)
402076	nad1 exon5	TCG (S) => TTG (L)
402070	nad1 exon5	TCT (S) => TTT (F)
402067	nad1 exon5	CCA (P) => CTA (L)
402055	nad1 exon5	CCG (P) => CTG (L)
401987	nad1 exon5	CTT (L) => TTT (F)
401912	nad1 exon5	CGG (R) => TGG (W)
401882	nad1 exon5	CGG (R) => TGG (W)
401857	nad1 exon5	TCA (S) => TTA (L)
309240	nad2 exon1	TCC (S) => TTC (F)
310670	nad2 exon2	CGG (R) => TGG (W)
310718	nad2 exon2	CTT (L) => TTT (F)
310764	nad2 exon2	TCT (S) => TTT (F)
310767	nad2 exon2	TCC (S) => TTC (F)
310791	nad2 exon2	TCT (S) => TTT (F)
310812	nad2 exon2	CCA (P) => CTA (L)
310817	nad2 exon2	CCT (P) => TCT (S)
310823	nad2 exon2	CGC (R) => TGC (C)
310850	nad2 exon2	CAT (H) => TAT (Y)
310857	nad2 exon2	TCA (S) => TTA (L)
310884	nad2 exon2	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
310953	nad2 exon2	TCG (S) => TTG (L)
310979	nad2 exon2	CCC (P) => TCC (S)
319735	nad2 exon3	TCT (S) => TTT (F)
319750	nad2 exon3	TCC (S) => TTC (F)
322436	nad2 exon4	TCA (S) => TTA (L)
322445	nad2 exon4	TCT (S) => TTT (F)
322556	nad2 exon4	CCT (P) => CTT (L)
322564	nad2 exon4	CAT (H) => TAT (Y)
322594	nad2 exon4	CGT (R) => TGT (C)
322598	nad2 exon4	ACT (T) => ATT (I)
322763	nad2 exon4	TCG (S) => TTG (L)
322883	nad2 exon4	CCA (P) => CTA (L)
324435	nad2 exon5	GCG (A) => GTG (V)
324537	nad2 exon5	TCA (S) => TTA (L)
324540	nad2 exon5	TCC (S) => TTC (F)
324546	nad2 exon5	CCA (P) => CTA (L)
324594	nad2 exon5	TCA (S) => TTA (L)
441390	nad3 CDS	TCA (S) => TTA (L)
441333	nad3 CDS	CCA (P) => CTA (L)
441315	nad3 CDS	CCC (P) => CTC (L)
441187	nad3 CDS	CCT (P) => TTT (F)
441186	nad3 CDS	CCT (P) => TTT (F)
441180	nad3 CDS	CCG (P) => CTG (L)
441165	nad3 CDS	TCT (S) => TTT (F)
441148	nad3 CDS	CCT (P) => TCT (S)
441144	nad3 CDS	CCC (P) => CTC (L)
441129	nad3 CDS	CCG (P) => CTG (L)
441120	nad3 CDS	TCT (S) => TTT (F)
441078	nad3 CDS	TCT (S) => TTT (F)
441051	nad3 CDS	TCG (S) => TTG (L)
441046	nad3 CDS	CGG (R) => TGG (W)
181391	nad4 exon1	TCT (S) => TTT (F)
181376	nad4 exon1	CCT (P) => CTT (L)
181343	nad4 exon1	CCT (P) => CTT (L)
181313	nad4 exon1	CCG (P) => CTG (L)
181262	nad4 exon1	CCT (P) => CTT (L)
181256	nad4 exon1	CCT (P) => CTT (L)
181254	nad4 exon1	CGG (R) => TGG (W)
181223	nad4 exon1	TCT (S) => TTT (F)
181058	nad4 exon1	ACA (T) => ATA (I)
181052	nad4 exon1	TCT (S) => TTT (F)
181044	nad4 exon1	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
181017	nad4 exon1	CGC (R) => TGC (C)
181004	nad4 exon1	CCT (P) => CTT (L)
180987	nad4 exon1	CTT (L) => TTT (F)
180984	nad4 exon1	CCC (P) => TTC (F)
180983	nad4 exon1	CCC (P) => TTC (F)
179358	nad4 exon2	TCA (S) => TTA (L)
179307	nad4 exon2	TCT (S) => TTT (F)
179199	nad4 exon2	CCT (P) => CTT (L)
179196	nad4 exon2	TCA (S) => TTA (L)
179182	nad4 exon2	CAC (H) => TAC (Y)
179130	nad4 exon2	TCC (S) => TTC (F)
179109	nad4 exon2	CCA (P) => CTA (L)
179070	nad4 exon2	TCA (S) => TTA (L)
175716	nad4 exon3	CCG (P) => CTG (L)
175686	nad4 exon3	CCA (P) => CTA (L)
175683	nad4 exon3	CCG (P) => CTG (L)
175660	nad4 exon3	CCT (P) => TCT (S)
175564	nad4 exon3	CTC (L) => TTC (F)
175551	nad4 exon3	TCC (S) => TTC (F)
175545	nad4 exon3	TCT (S) => TTT (F)
175542	nad4 exon3	TCC (S) => TTC (F)
175521	nad4 exon3	TCA (S) => TTA (L)
175488	nad4 exon3	CCC (P) => CTC (L)
175482	nad4 exon3	TCA (S) => TTA (L)
175338	nad4 exon3	CCA (P) => CTA (L)
172504	nad4 exon4	TCC (S) => TTC (F)
172472	nad4 exon4	CGG (R) => TGG (W)
172460	nad4 exon4	CAC (H) => TAC (Y)
172444	nad4 exon4	CCG (P) => CTG (L)
172439	nad4 exon4	CGC (R) => TGC (C)
219741	nad4L CDS	ACG (T) => ATG (M)
219747	nad4L CDS	CCT (P) => CTT (L)
219780	nad4L CDS	TCT (S) => TTT (F)
219794	nad4L CDS	CGG (R) => TGG (W)
219825	nad4L CDS	CCT (P) => CTT (L)
219834	nad4L CDS	TCA (S) => TTA (L)
219839	nad4L CDS	CCA (P) => TCA (S)
219849	nad4L CDS	TCA (S) => TTA (L)
219870	nad4L CDS	TCG (S) => TTG (L)
219897	nad4L CDS	TCG (S) => TTG (L)
219918	nad4L CDS	TCA (S) => TTA (L)
219927	nad4L CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
219936	nad4L CDS	TCA (S) => TTA (L)
379198	nad5 exon1	CCG (P) => CTG (L)
380204	nad5 exon2	CCG (P) => CTG (L)
380234	nad5 exon2	TCC (S) => TTC (F)
380320	nad5 exon2	CTT (L) => TTT (F)
380336	nad5 exon2	CCA (P) => CTA (L)
380360	nad5 exon2	TCT (S) => TTT (F)
380456	nad5 exon2	ACA (T) => ATA (I)
380468	nad5 exon2	CCT (P) => CTT (L)
380501	nad5 exon2	CCT (P) => CTT (L)
380515	nad5 exon2	CGT (R) => TGT (C)
380560	nad5 exon2	CGT (R) => TGT (C)
380591	nad5 exon2	TCT (S) => TTT (F)
380638	nad5 exon2	CTT (L) => TTT (F)
380675	nad5 exon2	TCG (S) => TTG (L)
380687	nad5 exon2	TCA (S) => TTA (L)
380797	nad5 exon2	CCA (P) => TCA (S)
380825	nad5 exon2	TCT (S) => TTT (F)
380837	nad5 exon2	ACG (T) => ATG (M)
381272	nad5 exon2	TCA (S) => TTA (L)
290793	nad5 exon4	CCC (P) => CTC (L)
290733	nad5 exon4	ACC (T) => ATC (I)
290703	nad5 exon4	TCA (S) => TTA (L)
290694	nad5 exon4	TCT (S) => TTT (F)
290673	nad5 exon4	CCC (P) => CTC (L)
289462	nad5 exon5	TCA (S) => TTA (L)
289441	nad5 exon5	TCT (S) => TTT (F)
289439	nad5 exon5	CGT (R) => TGT (C)
289399	nad5 exon5	TCG (S) => TTG (L)
144453	nad6 CDS	CTT (L) => TTT (F)
144407	nad6 CDS	GCA (A) => GTA (V)
144372	nad6 CDS	CCC (P) => TTC (F)
144371	nad6 CDS	CCC (P) => TTC (F)
144365	nad6 CDS	CCA (P) => CTA (L)
144357	nad6 CDS	CGC (R) => TGC (C)
144314	nad6 CDS	TCC (S) => TTC (F)
144299	nad6 CDS	CCA (P) => CTA (L)
144291	nad6 CDS	CAT (H) => TAT (Y)
144269	nad6 CDS	TCA (S) => TTA (L)
144171	nad6 CDS	CTT (L) => TTT (F)
143997	nad6 CDS	CCT (P) => TCT (S)
212736	nad7 exon1	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
212775	nad7 exon1	TCA (S) => TTA (L)
212781	nad7 exon1	TCA (S) => TTA (L)
213806	nad7 exon2	TCT (S) => TTT (F)
215164	nad7 exon3	ACG (T) => ATG (M)
215184	nad7 exon3	CAT (H) => TAT (Y)
215191	nad7 exon3	TCA (S) => TTA (L)
215256	nad7 exon3	CGT (R) => TGT (C)
215275	nad7 exon3	TCA (S) => TTA (L)
215284	nad7 exon3	TCA (S) => TTA (L)
215323	nad7 exon3	TCA (S) => TTA (L)
215332	nad7 exon3	TCC (S) => TTC (F)
215518	nad7 exon3	TCA (S) => TTA (L)
215619	nad7 exon3	CCA (P) => TCA (S)
216713	nad7 exon4	TCG (S) => TTG (L)
216739	nad7 exon4	CAT (H) => TAT (Y)
216749	nad7 exon4	TCG (S) => TTG (L)
216754	nad7 exon4	CCT (P) => TTT (F)
216755	nad7 exon4	CCT (P) => TTT (F)
216784	nad7 exon4	CGC (R) => TGC (C)
216851	nad7 exon4	CCT (P) => CTT (L)
218876	nad7 exon5	TCA (S) => TTA (L)
218923	nad7 exon5	CCT (P) => TCT (S)
219007	nad7 exon5	CGT (R) => TGT (C)
219029	nad7 exon5	TCT (S) => TTT (F)
219038	nad7 exon5	TCA (S) => TTA (L)
219053	nad7 exon5	TCT (S) => TTT (F)
219074	nad7 exon5	CCA (P) => CTA (L)
219116	nad7 exon5	TCT (S) => TTT (F)
125822	nad9 CDS	TCC (S) => TTC (F)
125744	nad9 CDS	TCT (S) => TTT (F)
125669	nad9 CDS	TCG (S) => TTG (L)
125538	nad9 CDS	CCG (P) => TCG (S)
125508	nad9 CDS	CGG (R) => TGG (W)
125468	nad9 CDS	TCC (S) => TTC (F)
125438	nad9 CDS	TCA (S) => TTA (L)
125397	nad9 CDS	CTT (L) => TTT (F)
235405	rpl16 CDS	CAG (Q) => TAG (X)
235553	rpl16 CDS	ACT (T) => ATT (I)
235850	rpl16 CDS	CCA (P) => CTA (L)
235856	rpl16 CDS	TCG (S) => TTG (L)
426418	rpl5 CDS	TCA (S) => TTA (L)
426406	rpl5 CDS	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
426389	rpl5 CDS	CAC (H) => TAC (Y)
426361	rpl5 CDS	TCG (S) => TTG (L)
426284	rpl5 CDS	CGC (R) => TGC (C)
426136	rpl5 CDS	TCG (S) => TTG (L)
425941	rpl5 CDS	CCA (P) => CTA (L)
425938	rpl5 CDS	CCG (P) => CTG (L)
221989	rps10 exon1	ACG (T) => ATG (M)
222225	rps10 exon1	CGG (R) => TGG (W)
225191	rps10 exon2	TCG (S) => TTG (L)
225220	rps10 exon2	CGA (R) => TGA (X)
440919	rps12 CDS	TCG (S) => TTG (L)
440890	rps12 CDS	CGC (R) => TGC (C)
440886	rps12 CDS	CCG (P) => CTG (L)
440844	rps12 CDS	CCA (P) => CTA (L)
440794	rps12 CDS	CAC (H) => TAC (Y)
440769	rps12 CDS	TCG (S) => TTG (L)
440706	rps12 CDS	TCC (S) => TTC (F)
425845	rps14 CDS	GCG (A) => GTG (V)
425698	rps14 CDS	TCC (S) => TTC (F)
425621	rps14 CDS	CCT (P) => TCT (S)
232034	rps3 exon1	CGG (R) => TGG (W)
234286	rps3 exon2	TCA (S) => TTA (L)
234499	rps3 exon2	TCG (S) => TTG (L)
234817	rps3 exon2	CCA (P) => CTA (L)
235150	rps3 exon2	CCG (P) => CTG (L)
235288	rps3 exon2	TCA (S) => TTA (L)
235341	rps3 exon2	CGT (R) => TGT (C)
235405	rps3 exon2	TCA (S) => TTA (L)
271709	rps4 CDS	TCA (S) => TTA (L)
271720	rps4 CDS	CGG (R) => TGG (W)
271804	rps4 CDS	CCG (P) => TCG (S)
271835	rps4 CDS	TCA (S) => TTA (L)
271855	rps4 CDS	CCC (P) => TCC (S)
271864	rps4 CDS	CAT (H) => TAT (Y)
271937	rps4 CDS	CCA (P) => CTA (L)
271949	rps4 CDS	TCG (S) => TTG (L)
271961	rps4 CDS	CCG (P) => CTG (L)
271978	rps4 CDS	CGT (R) => TGT (C)
272006	rps4 CDS	CCG (P) => CTG (L)
272153	rps4 CDS	TCA (S) => TTA (L)
272588	rps4 CDS	TCG (S) => TTG (L)
272599	rps4 CDS	CAT (H) => TAT (Y)

Position	CDS/exon name	codon/AA change
272609	rps4 CDS	CCA (P) => CTA (L)
272675	rps4 CDS	CCA (P) => CTA (L)
272684	rps4 CDS	CCT (P) => CTT (L)
272689	rps4 CDS	CGG (R) => TGG (W)

Table S5. Predicted RNA editing sites of the mitochondrial genome of *Castanospermum australe*

Position	CDS/exon name	codon/AA change
323997	atp1 CDS	CCA (P) => CTA (L)
244597	atp4 CDS	CCA (P) => CTA (L)
244594	atp4 CDS	TCT (S) => TTT (F)
244564	atp4 CDS	TCA (S) => TTA (L)
244535	atp4 CDS	CGT (R) => TGT (C)
244438	atp4 CDS	TCG (S) => TTG (L)
244427	atp4 CDS	CCC (P) => TTC (F)
244426	atp4 CDS	CCC (P) => TTC (F)
244405	atp4 CDS	CCT (P) => CTT (L)
244258	atp4 CDS	TCA (S) => TTA (L)
244246	atp4 CDS	CCA (P) => CTA (L)
244237	atp4 CDS	ACT (T) => ATT (I)
244163	atp4 CDS	CCC (P) => TCC (S)
139928	atp6 CDS	CCA (P) => TCA (S)
140007	atp6 CDS	TCA (S) => TTA (L)
140058	atp6 CDS	CCG (P) => CTG (L)
140127	atp6 CDS	TCG (S) => TTG (L)
140145	atp6 CDS	TCG (S) => TTG (L)
140160	atp6 CDS	CCC (P) => CTC (L)
140292	atp6 CDS	TCA (S) => TTA (L)
140351	atp6 CDS	CCT (P) => TCT (S)
140354	atp6 CDS	CAT (H) => TAT (Y)
140376	atp6 CDS	TCA (S) => TTA (L)
140418	atp6 CDS	TCA (S) => TTA (L)
140439	atp6 CDS	TCC (S) => TTC (F)
140547	atp6 CDS	TCA (S) => TTA (L)
140555	atp6 CDS	CAT (H) => TAT (Y)
140562	atp6 CDS	TCT (S) => TTT (F)
140571	atp6 CDS	TCA (S) => TTA (L)
140598	atp6 CDS	ACA (T) => ATA (I)
140609	atp6 CDS	CAA (Q) => TAA (X)
427936	atp8 CDS	TCA (S) => TTA (L)
427925	atp8 CDS	CTC (L) => TTC (F)
427528	atp8 CDS	CCA (P) => CTA (L)
90321	atp9 CDS	TCA (S) => TTA (L)
90291	atp9 CDS	TCA (S) => TTA (L)
346457	ccmB CDS	CAT (H) => TAT (Y)
346472	ccmB CDS	CCC (P) => TCC (S)
346500	ccmB CDS	CCA (P) => CTA (L)
346509	ccmB CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
346557	ccmB CDS	TCA (S) => TTA (L)
346566	ccmB CDS	TCC (S) => TTC (F)
346578	ccmB CDS	CCG (P) => CTG (L)
346583	ccmB CDS	CGG (R) => TGG (W)
346589	ccmB CDS	CCT (P) => TCT (S)
346593	ccmB CDS	CCG (P) => CTG (L)
346601	ccmB CDS	CCT (P) => TCT (S)
346608	ccmB CDS	CCT (P) => CTT (L)
346610	ccmB CDS	CCC (P) => TCC (S)
346622	ccmB CDS	CCT (P) => TTT (F)
346623	ccmB CDS	CCT (P) => TTT (F)
346715	ccmB CDS	CGG (R) => TGG (W)
346767	ccmB CDS	CCG (P) => CTG (L)
346796	ccmB CDS	CGG (R) => TGG (W)
346809	ccmB CDS	CCA (P) => CTA (L)
346853	ccmB CDS	CGT (R) => TGT (C)
346896	ccmB CDS	TCG (S) => TTG (L)
346905	ccmB CDS	CCA (P) => CTA (L)
346914	ccmB CDS	TCA (S) => TTA (L)
346923	ccmB CDS	TCA (S) => TTA (L)
346932	ccmB CDS	CCA (P) => CTA (L)
346941	ccmB CDS	TCT (S) => TTT (F)
346943	ccmB CDS	CGT (R) => TGT (C)
346980	ccmB CDS	TCA (S) => TTA (L)
346983	ccmB CDS	TCG (S) => TTG (L)
346995	ccmB CDS	TCC (S) => TTC (F)
346998	ccmB CDS	TCT (S) => TTT (F)
347001	ccmB CDS	CCG (P) => CTG (L)
347025	ccmB CDS	TCG (S) => TTG (L)
12826	ccmC CDS	CGG (R) => TGG (W)
12799	ccmC CDS	CAT (H) => TAT (Y)
12787	ccmC CDS	CGG (R) => TGG (W)
12769	ccmC CDS	CTT (L) => TTT (F)
12723	ccmC CDS	GCG (A) => GTG (V)
12718	ccmC CDS	CGG (R) => TGG (W)
12621	ccmC CDS	ACA (T) => ATA (I)
12571	ccmC CDS	CGG (R) => TGG (W)
12507	ccmC CDS	TCG (S) => TTG (L)
12502	ccmC CDS	CTT (L) => TTT (F)
12481	ccmC CDS	CGT (R) => TGT (C)
12466	ccmC CDS	CCT (P) => TCT (S)
12456	ccmC CDS	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
12451	ccmC CDS	CCT (P) => TCT (S)
12444	ccmC CDS	TCA (S) => TTA (L)
12439	ccmC CDS	CGT (R) => TGT (C)
12435	ccmC CDS	GCT (A) => GTT (V)
12429	ccmC CDS	CCG (P) => CTG (L)
12405	ccmC CDS	TCT (S) => TTT (F)
12381	ccmC CDS	TCG (S) => TTG (L)
12354	ccmC CDS	TCT (S) => TTT (F)
12334	ccmC CDS	CCT (P) => TCT (S)
12327	ccmC CDS	CCC (P) => CTC (L)
12294	ccmC CDS	CCC (P) => CTC (L)
12288	ccmC CDS	TCA (S) => TTA (L)
12283	ccmC CDS	CGT (R) => TGT (C)
12252	ccmC CDS	CCT (P) => CTT (L)
12246	ccmC CDS	CCA (P) => CTA (L)
12237	ccmC CDS	CCC (P) => CTC (L)
12229	ccmC CDS	CCT (P) => TCT (S)
158522	ccmFc exon1	TCT (S) => TTT (F)
158534	ccmFc exon1	CCT (P) => CTT (L)
158536	ccmFc exon1	CGT (R) => TGT (C)
158587	ccmFc exon1	CCC (P) => TCC (S)
158606	ccmFc exon1	TCC (S) => TTC (F)
158635	ccmFc exon1	CCT (P) => TCT (S)
158639	ccmFc exon1	TCA (S) => TTA (L)
158644	ccmFc exon1	CCT (P) => TCT (S)
158789	ccmFc exon1	TCA (S) => TTA (L)
158794	ccmFc exon1	CGT (R) => TGT (C)
158890	ccmFc exon1	CGT (R) => TGT (C)
158896	ccmFc exon1	CTC (L) => TTC (F)
159074	ccmFc exon1	GCC (A) => GTC (V)
159184	ccmFc exon1	CAC (H) => TAC (Y)
159194	ccmFc exon1	GCT (A) => GTT (V)
160360	ccmFc exon2	TCT (S) => TTT (F)
160621	ccmFc exon2	CCA (P) => CTA (L)
160642	ccmFc exon2	TCG (S) => TTG (L)
160716	ccmFc exon2	CGG (R) => TGG (W)
160741	ccmFc exon2	TCG (S) => TTG (L)
160797	ccmFc exon2	CGA (R) => TGA (X)
114997	ccmFn CDS	CCG (P) => CTG (L)
115057	ccmFn CDS	CCT (P) => CTT (L)
115096	ccmFn CDS	TCG (S) => TTG (L)
115101	ccmFn CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
115110	ccmFn CDS	CCT (P) => TCT (S)
115207	ccmFn CDS	TCA (S) => TTA (L)
115215	ccmFn CDS	CGG (R) => TGG (W)
115222	ccmFn CDS	CCA (P) => CTA (L)
115242	ccmFn CDS	CTT (L) => TTT (F)
115293	ccmFn CDS	CAT (H) => TAT (Y)
115315	ccmFn CDS	TCC (S) => TTC (F)
115324	ccmFn CDS	TCG (S) => TTG (L)
115437	ccmFn CDS	CGT (R) => TGT (C)
115518	ccmFn CDS	CCT (P) => TTT (F)
115519	ccmFn CDS	CCT (P) => TTT (F)
115665	ccmFn CDS	CCT (P) => TTT (F)
115666	ccmFn CDS	CCT (P) => TTT (F)
115675	ccmFn CDS	TCA (S) => TTA (L)
115713	ccmFn CDS	CGT (R) => TGT (C)
115735	ccmFn CDS	TCA (S) => TTA (L)
115747	ccmFn CDS	CCA (P) => CTA (L)
115762	ccmFn CDS	TCA (S) => TTA (L)
115911	ccmFn CDS	CGC (R) => TGC (C)
116229	ccmFn CDS	CGG (R) => TGG (W)
116257	ccmFn CDS	CCA (P) => CTA (L)
116274	ccmFn CDS	CAT (H) => TAT (Y)
116289	ccmFn CDS	CGG (R) => TGG (W)
116307	ccmFn CDS	CGG (R) => TGG (W)
116358	ccmFn CDS	CGT (R) => TGT (C)
116401	ccmFn CDS	TCG (S) => TTG (L)
116421	ccmFn CDS	CTT (L) => TTT (F)
116425	ccmFn CDS	CCA (P) => CTA (L)
116437	ccmFn CDS	TCA (S) => TTA (L)
116520	ccmFn CDS	CGG (R) => TGG (W)
275382	cob CDS	CTC (L) => TTC (F)
275394	cob CDS	CAC (H) => TAC (Y)
275421	cob CDS	CAT (H) => TAT (Y)
275454	cob CDS	CGG (R) => TGG (W)
275503	cob CDS	ACA (T) => ATA (I)
275515	cob CDS	CCA (P) => CTA (L)
275664	cob CDS	CAT (H) => TAT (Y)
275904	cob CDS	CCC (P) => TCC (S)
275949	cob CDS	CAT (H) => TAT (Y)
276004	cob CDS	CCA (P) => CTA (L)
276078	cob CDS	CAC (H) => TAC (Y)
276111	cob CDS	CGC (R) => TGC (C)

Position	CDS/exon name	codon/AA change
276177	cob CDS	CCT (P) => TCT (S)
276180	cob CDS	CCT (P) => TCT (S)
276220	cob CDS	CCG (P) => CTG (L)
304227	cox1 CDS	CCG (P) => CTG (L)
303996	cox1 CDS	TCT (S) => TTT (F)
303984	cox1 CDS	TCT (S) => TTT (F)
303795	cox1 CDS	TCA (S) => TTA (L)
303786	cox1 CDS	TCT (S) => TTT (F)
303723	cox1 CDS	TCC (S) => TTC (F)
303687	cox1 CDS	TCA (S) => TTA (L)
303663	cox1 CDS	CCA (P) => CTA (L)
303648	cox1 CDS	CCA (P) => CTA (L)
303570	cox1 CDS	TCT (S) => TTT (F)
303523	cox1 CDS	CGG (R) => TGG (W)
303492	cox1 CDS	CCC (P) => CTC (L)
303477	cox1 CDS	TCC (S) => TTC (F)
303159	cox1 CDS	CCG (P) => CTG (L)
303052	cox1 CDS	CAC (H) => TAC (Y)
302959	cox1 CDS	CTC (L) => TTC (F)
302836	cox1 CDS	CGT (R) => TGT (C)
302833	cox1 CDS	CGT (R) => TGT (C)
302805	cox1 CDS	TCA (S) => TTA (L)
425857	cox3 CDS	CCT (P) => CTT (L)
425845	cox3 CDS	TCT (S) => TTT (F)
425839	cox3 CDS	CCG (P) => CTG (L)
425813	cox3 CDS	CTT (L) => TTT (F)
425798	cox3 CDS	CGG (R) => TGG (W)
425791	cox3 CDS	TCT (S) => TTT (F)
425788	cox3 CDS	TCT (S) => TTT (F)
425714	cox3 CDS	CGG (R) => TGG (W)
425689	cox3 CDS	CCT (P) => CTT (L)
425590	cox3 CDS	TCA (S) => TTA (L)
425348	cox3 CDS	CGG (R) => TGG (W)
425338	cox3 CDS	CCA (P) => CTA (L)
235360	matR CDS	TCC (S) => TTC (F)
235307	matR CDS	CGC (R) => TGC (C)
235199	matR CDS	CCA (P) => TCA (S)
235156	matR CDS	TCC (S) => TTC (F)
235066	matR CDS	CCA (P) => CTA (L)
234328	matR CDS	CCC (P) => CTC (L)
233983	matR CDS	GCG (A) => GTG (V)
233713	matR CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
233692	matR CDS	CCT (P) => CTT (L)
233672	matR CDS	CGC (R) => TGC (C)
233636	matR CDS	CAC (H) => TAC (Y)
233566	matR CDS	CCA (P) => CTA (L)
233548	matR CDS	TCA (S) => TTA (L)
335497	mttB CDS	CCG (P) => CTG (L)
335459	mttB CDS	CGG (R) => TGG (W)
335423	mttB CDS	CGT (R) => TGT (C)
335411	mttB CDS	CCG (P) => TCG (S)
335395	mttB CDS	TCT (S) => TTT (F)
335392	mttB CDS	CCA (P) => CTA (L)
335335	mttB CDS	TCA (S) => TTA (L)
335323	mttB CDS	TCC (S) => TTC (F)
335321	mttB CDS	CCG (P) => TCG (S)
335261	mttB CDS	CAT (H) => TAT (Y)
335195	mttB CDS	CTC (L) => TTC (F)
335179	mttB CDS	TCT (S) => TTT (F)
335177	mttB CDS	CGC (R) => TGC (C)
335170	mttB CDS	TCC (S) => TTC (F)
335147	mttB CDS	CCC (P) => TCC (S)
335144	mttB CDS	CGG (R) => TGG (W)
335086	mttB CDS	TCG (S) => TTG (L)
335051	mttB CDS	CAT (H) => TAT (Y)
335026	mttB CDS	TCG (S) => TTG (L)
335018	mttB CDS	CCA (P) => TCA (S)
334975	mttB CDS	CCA (P) => CTA (L)
334969	mttB CDS	CCA (P) => CTA (L)
334913	mttB CDS	CCG (P) => TCG (S)
334856	mttB CDS	CGT (R) => TGT (C)
334840	mttB CDS	TCG (S) => TTG (L)
334810	mttB CDS	TCG (S) => TTG (L)
381627	nad1 exon1	ACG (T) => ATG (M)
381840	nad1 exon1	TCC (S) => TTC (F)
381890	nad1 exon1	CGG (R) => TGG (W)
381933	nad1 exon1	TCG (S) => TTG (L)
381993	nad1 exon1	ACA (T) => ATA (I)
299626	nad1 exon3	CCC (P) => TCC (S)
299623	nad1 exon3	CGT (R) => TGT (C)
299616	nad1 exon3	TCG (S) => TTG (L)
299580	nad1 exon3	TCC (S) => TTC (F)
299536	nad1 exon3	CGT (R) => TGT (C)
299481	nad1 exon3	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
236079	nad1 exon4	TCT (S) => TTT (F)
232876	nad1 exon5	CCA (P) => CTA (L)
232867	nad1 exon5	TCG (S) => TTG (L)
232861	nad1 exon5	TCT (S) => TTT (F)
232858	nad1 exon5	CCA (P) => CTA (L)
232846	nad1 exon5	CCG (P) => CTG (L)
232703	nad1 exon5	CGG (R) => TGG (W)
232673	nad1 exon5	CGG (R) => TGG (W)
232648	nad1 exon5	TCA (S) => TTA (L)
61672	nad2 exon1	TCC (S) => TTC (F)
61702	nad2 exon1	TCC (S) => TTC (F)
63174	nad2 exon2	CGG (R) => TGG (W)
63222	nad2 exon2	CTT (L) => TTT (F)
63268	nad2 exon2	TCT (S) => TTT (F)
63271	nad2 exon2	TCC (S) => TTC (F)
63295	nad2 exon2	TCT (S) => TTT (F)
63316	nad2 exon2	CCA (P) => CTA (L)
63327	nad2 exon2	CGC (R) => TGC (C)
63354	nad2 exon2	CAT (H) => TAT (Y)
63361	nad2 exon2	TCA (S) => TTA (L)
63388	nad2 exon2	CCT (P) => CTT (L)
63457	nad2 exon2	TCG (S) => TTG (L)
63483	nad2 exon2	CCC (P) => TCC (S)
505346	nad2 exon3	TCT (S) => TTT (F)
505361	nad2 exon3	TCC (S) => TTC (F)
507324	nad2 exon4	TCA (S) => TTA (L)
507333	nad2 exon4	TCT (S) => TTT (F)
507444	nad2 exon4	CCT (P) => CTT (L)
507452	nad2 exon4	CAT (H) => TAT (Y)
507482	nad2 exon4	CGT (R) => TGT (C)
507486	nad2 exon4	ACT (T) => ATT (I)
507651	nad2 exon4	TCG (S) => TTG (L)
507771	nad2 exon4	CCA (P) => CTA (L)
509366	nad2 exon5	GCG (A) => GTG (V)
509468	nad2 exon5	TCA (S) => TTA (L)
509471	nad2 exon5	TCC (S) => TTC (F)
509477	nad2 exon5	CCA (P) => CTA (L)
509525	nad2 exon5	TCA (S) => TTA (L)
17638	nad3 CDS	TCA (S) => TTA (L)
17695	nad3 CDS	CCA (P) => CTA (L)
17713	nad3 CDS	CCC (P) => CTC (L)
17841	nad3 CDS	CCT (P) => TTT (F)

Position	CDS/exon name	codon/AA change
17842	nad3 CDS	CCT (P) => TTT (F)
17848	nad3 CDS	CCG (P) => CTG (L)
17863	nad3 CDS	TCC (S) => TTC (F)
17880	nad3 CDS	CCT (P) => TCT (S)
17884	nad3 CDS	CCC (P) => CTC (L)
17899	nad3 CDS	CCG (P) => CTG (L)
17908	nad3 CDS	TCT (S) => TTT (F)
17950	nad3 CDS	TCT (S) => TTT (F)
17977	nad3 CDS	TCG (S) => TTG (L)
17982	nad3 CDS	CGG (R) => TGG (W)
39480	nad4 exon1	TCT (S) => TTT (F)
39495	nad4 exon1	CCT (P) => CTT (L)
39528	nad4 exon1	CCT (P) => CTT (L)
39558	nad4 exon1	CCG (P) => CTG (L)
39609	nad4 exon1	CCT (P) => CTT (L)
39615	nad4 exon1	CCT (P) => CTT (L)
39617	nad4 exon1	CGG (R) => TGG (W)
39648	nad4 exon1	TCT (S) => TTT (F)
39813	nad4 exon1	ACA (T) => ATA (I)
39819	nad4 exon1	TCT (S) => TTT (F)
39827	nad4 exon1	CGT (R) => TGT (C)
39854	nad4 exon1	CGC (R) => TGC (C)
39867	nad4 exon1	CCT (P) => CTT (L)
39884	nad4 exon1	CTT (L) => TTT (F)
39887	nad4 exon1	CCC (P) => TTC (F)
39888	nad4 exon1	CCC (P) => TTC (F)
41443	nad4 exon2	CTC (L) => TTC (F)
41474	nad4 exon2	TCA (S) => TTA (L)
41525	nad4 exon2	TCT (S) => TTT (F)
41633	nad4 exon2	CCT (P) => CTT (L)
41636	nad4 exon2	TCA (S) => TTA (L)
41650	nad4 exon2	CAC (H) => TAC (Y)
41702	nad4 exon2	TCC (S) => TTC (F)
41723	nad4 exon2	CCA (P) => CTA (L)
41762	nad4 exon2	TCA (S) => TTA (L)
45120	nad4 exon3	CCG (P) => CTG (L)
45150	nad4 exon3	CCA (P) => CTA (L)
45153	nad4 exon3	CCG (P) => CTG (L)
45176	nad4 exon3	CCT (P) => TCT (S)
45272	nad4 exon3	CTC (L) => TTC (F)
45285	nad4 exon3	TCC (S) => TTC (F)
45291	nad4 exon3	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
45294	nad4 exon3	TCC (S) => TTC (F)
45315	nad4 exon3	TCA (S) => TTA (L)
45348	nad4 exon3	CCC (P) => CTC (L)
45354	nad4 exon3	TCA (S) => TTA (L)
45498	nad4 exon3	CCA (P) => CTA (L)
45516	nad4 exon3	TCC (S) => TTC (F)
48333	nad4 exon4	CGG (R) => TGG (W)
48345	nad4 exon4	CAC (H) => TAC (Y)
48361	nad4 exon4	CCG (P) => CTG (L)
48366	nad4 exon4	CGC (R) => TGC (C)
245153	nad4L CDS	ACG (T) => ATG (M)
245147	nad5L CDS	CCT (P) => CTT (L)
245114	nad6L CDS	TCT (S) => TTT (F)
245100	nad7L CDS	CGG (R) => TGG (W)
245069	nad8L CDS	CCT (P) => CTT (L)
245060	nad9L CDS	TCA (S) => TTA (L)
245055	nad10L CDS	CCA (P) => TCA (S)
245045	nad11L CDS	TCA (S) => TTA (L)
245024	nad12L CDS	TCG (S) => TTG (L)
244997	nad13L CDS	TCG (S) => TTG (L)
244976	nad14L CDS	TCA (S) => TTA (L)
244967	nad15L CDS	TCA (S) => TTA (L)
244958	nad16L CDS	TCA (S) => TTA (L)
399288	nad5 exon1	CCG (P) => CTG (L)
400223	nad5 exon2	CCG (P) => CTG (L)
400253	nad5 exon2	TCC (S) => TTC (F)
400339	nad5 exon2	CTT (L) => TTT (F)
400355	nad5 exon2	CCA (P) => CTA (L)
400379	nad5 exon2	TCT (S) => TTT (F)
400475	nad5 exon2	ACA (T) => ATA (I)
400487	nad5 exon2	CCT (P) => CTT (L)
400520	nad5 exon2	CCT (P) => CTT (L)
400534	nad5 exon2	CGT (R) => TGT (C)
400579	nad5 exon2	CGT (R) => TGT (C)
400657	nad5 exon2	CTT (L) => TTT (F)
400694	nad5 exon2	TCG (S) => TTG (L)
400706	nad5 exon2	TCA (S) => TTA (L)
400816	nad5 exon2	CCA (P) => TCA (S)
400844	nad5 exon2	TCT (S) => TTT (F)
400856	nad5 exon2	ACG (T) => ATG (M)
401291	nad5 exon2	TCA (S) => TTA (L)
457746	nad5 exon4	CCC (P) => CTC (L)

Position	CDS/exon name	codon/AA change
457806	nad5 exon4	ACC (T) => ATC (I)
457836	nad5 exon4	TCA (S) => TTA (L)
457845	nad5 exon4	TCT (S) => TTT (F)
457866	nad5 exon4	CCC (P) => CTC (L)
459086	nad5 exon5	TCA (S) => TTA (L)
459107	nad5 exon5	TCT (S) => TTT (F)
459109	nad5 exon5	CGT (R) => TGT (C)
459149	nad5 exon5	TCG (S) => TTG (L)
73314	nad6 CDS	CTT (L) => TTT (F)
73360	nad6 CDS	GCA (A) => GTA (V)
73395	nad6 CDS	CCC (P) => TTC (F)
73396	nad6 CDS	CCC (P) => TTC (F)
73402	nad6 CDS	CCA (P) => CTA (L)
73410	nad6 CDS	CGC (R) => TGC (C)
73453	nad6 CDS	TCC (S) => TTC (F)
73468	nad6 CDS	CCA (P) => CTA (L)
73476	nad6 CDS	CAT (H) => TAT (Y)
73498	nad6 CDS	TCA (S) => TTA (L)
73596	nad6 CDS	CTT (L) => TTT (F)
73770	nad6 CDS	CCT (P) => TCT (S)
417707	nad7 exon1	TCG (S) => TTG (L)
417668	nad7 exon1	TCA (S) => TTA (L)
417662	nad7 exon1	TCA (S) => TTA (L)
417608	nad7 exon1	TCA (S) => TTA (L)
416629	nad7 exon2	TCT (S) => TTT (F)
415269	nad7 exon3	ACG (T) => ATG (M)
415249	nad7 exon3	CAT (H) => TAT (Y)
415242	nad7 exon3	TCA (S) => TTA (L)
415177	nad7 exon3	CGT (R) => TGT (C)
415158	nad7 exon3	TCA (S) => TTA (L)
415149	nad7 exon3	TCA (S) => TTA (L)
415110	nad7 exon3	TCA (S) => TTA (L)
415101	nad7 exon3	TCC (S) => TTC (F)
414915	nad7 exon3	TCA (S) => TTA (L)
414814	nad7 exon3	CCA (P) => TCA (S)
413739	nad7 exon4	TCG (S) => TTG (L)
413713	nad7 exon4	CAT (H) => TAT (Y)
413703	nad7 exon4	TCG (S) => TTG (L)
413698	nad7 exon4	CCT (P) => TTT (F)
413697	nad7 exon4	CCT (P) => TTT (F)
413668	nad7 exon4	CGC (R) => TGC (C)
413601	nad7 exon4	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
411606	nad7 exon5	TCA (S) => TTA (L)
411559	nad7 exon5	CCT (P) => TCT (S)
411475	nad7 exon5	CGT (R) => TGT (C)
411453	nad7 exon5	TCT (S) => TTT (F)
411444	nad7 exon5	TCA (S) => TTA (L)
411429	nad7 exon5	TCT (S) => TTT (F)
411408	nad7 exon5	CCA (P) => CTA (L)
411366	nad7 exon5	TCT (S) => TTT (F)
492312	nad9 CDS	TCC (S) => TTC (F)
492234	nad9 CDS	TCT (S) => TTT (F)
492213	nad9 CDS	CCA (P) => CTA (L)
492159	nad9 CDS	TCG (S) => TTG (L)
492028	nad9 CDS	CCG (P) => TCG (S)
491998	nad9 CDS	CGG (R) => TGG (W)
491958	nad9 CDS	TCC (S) => TTC (F)
491928	nad9 CDS	TCA (S) => TTA (L)
491887	nad9 CDS	CTT (L) => TTT (F)
294327	rpl16 CDS	CAG (Q) => TAG (X)
294179	rpl16 CDS	ACT (T) => ATT (I)
293882	rpl16 CDS	CCA (P) => CTA (L)
293876	rpl16 CDS	TCG (S) => TTG (L)
272894	rpl5 CDS	TCA (S) => TTA (L)
272906	rpl5 CDS	CCG (P) => CTG (L)
272923	rpl5 CDS	CAC (H) => TAC (Y)
272951	rpl5 CDS	TCG (S) => TTG (L)
273028	rpl5 CDS	CGC (R) => TGC (C)
273176	rpl5 CDS	TCG (S) => TTG (L)
273371	rpl5 CDS	CCA (P) => CTA (L)
273374	rpl5 CDS	CCG (P) => CTG (L)
307612	rps10 exon1	ACG (T) => ATG (M)
307376	rps10 exon1	CGG (R) => TGG (W)
304502	rps10 exon2	TCG (S) => TTG (L)
304473	rps10 exon2	CGA (R) => TGA (X)
18109	rps12 CDS	TCG (S) => TTG (L)
18138	rps12 CDS	CGC (R) => TGC (C)
18142	rps12 CDS	CCG (P) => CTG (L)
18184	rps12 CDS	CCA (P) => CTA (L)
18234	rps12 CDS	CAC (H) => TAC (Y)
18259	rps12 CDS	TCG (S) => TTG (L)
18322	rps12 CDS	TCC (S) => TTC (F)
273467	rps14 CDS	GCG (A) => GTG (V)
273614	rps14 CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
273691	rps14 CDS	CCT (P) => TCT (S)
297639	rps3 exon1	CGG (R) => TGG (W)
295434	rps3 exon2	TCA (S) => TTA (L)
295233	rps3 exon2	TCG (S) => TTG (L)
294915	rps3 exon2	CCA (P) => CTA (L)
294582	rps3 exon2	CCG (P) => CTG (L)
294444	rps3 exon2	TCA (S) => TTA (L)
294391	rps3 exon2	CGT (R) => TGT (C)
294327	rps3 exon2	TCA (S) => TTA (L)
261959	rps4 CDS	TCA (S) => TTA (L)
261948	rps4 CDS	CGG (R) => TGG (W)
261864	rps4 CDS	CCG (P) => TCG (S)
261833	rps4 CDS	TCA (S) => TTA (L)
261813	rps4 CDS	CCC (P) => TCC (S)
261804	rps4 CDS	CAT (H) => TAT (Y)
261731	rps4 CDS	CCA (P) => CTA (L)
261719	rps4 CDS	TCG (S) => TTG (L)
261707	rps4 CDS	CCG (P) => CTG (L)
261690	rps4 CDS	CGT (R) => TGT (C)
261662	rps4 CDS	CCG (P) => CTG (L)
261515	rps4 CDS	TCA (S) => TTA (L)
261080	rps4 CDS	TCG (S) => TTG (L)
261069	rps4 CDS	CAT (H) => TAT (Y)
261059	rps4 CDS	CCA (P) => CTA (L)
260993	rps4 CDS	CCA (P) => CTA (L)
260984	rps4 CDS	CCT (P) => CTT (L)
260979	rps4 CDS	CGG (R) => TGG (W)

Table S6. Predicted RNA editing sites of the mitochondrial genome of *Glycine max*

Position	CDS/exon name	codon/AA change
177990	atp1 CDS	CCT (P) => TCT (S)
45542	atp4 CDS	CCA (P) => CTA (L)
45545	atp4 CDS	TCT (S) => TTT (F)
45575	atp4 CDS	TCA (S) => TTA (L)
45604	atp4 CDS	CGT (R) => TGT (C)
45701	atp4 CDS	TCG (S) => TTG (L)
45712	atp4 CDS	CCC (P) => TTC (F)
45713	atp4 CDS	CCC (P) => TTC (F)
45734	atp4 CDS	CCT (P) => CTT (L)
45881	atp4 CDS	TCA (S) => TTA (L)
45893	atp4 CDS	CCA (P) => CTA (L)
45902	atp4 CDS	ACT (T) => ATT (I)
45976	atp4 CDS	CCC (P) => TCC (S)
63228	atp6 CDS	CCC (P) => TCC (S)
63358	atp6 CDS	CCG (P) => CTG (L)
63418	atp6 CDS	TCG (S) => TTG (L)
63436	atp6 CDS	TCG (S) => TTG (L)
63451	atp6 CDS	CCC (P) => CTC (L)
63583	atp6 CDS	TCA (S) => TTA (L)
63642	atp6 CDS	CCT (P) => TCT (S)
63645	atp6 CDS	CAT (H) => TAT (Y)
63667	atp6 CDS	TCA (S) => TTA (L)
63709	atp6 CDS	TCA (S) => TTA (L)
63730	atp6 CDS	TCC (S) => TTC (F)
63817	atp6 CDS	CCG (P) => CTG (L)
63838	atp6 CDS	TCA (S) => TTA (L)
63846	atp6 CDS	CAT (H) => TAT (Y)
63853	atp6 CDS	TCT (S) => TTT (F)
63862	atp6 CDS	TCA (S) => TTA (L)
63900	atp6 CDS	CAA (Q) => TAA (X)
375900	atp8 CDS	TCA (S) => TTA (L)
375889	atp8 CDS	CTC (L) => TTC (F)
375492	atp8 CDS	CCA (P) => CTA (L)
328677	atp9 CDS	TCA (S) => TTA (L)
328707	atp9 CDS	TCA (S) => TTA (L)
164823	ccmB CDS	CCC (P) => TCC (S)
164795	ccmB CDS	CCA (P) => CTA (L)
164786	ccmB CDS	TCG (S) => TTG (L)
164738	ccmB CDS	TCA (S) => TTA (L)
164729	ccmB CDS	TCC (S) => TTC (F)
164717	ccmB CDS	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
164712	ccmB CDS	CGG (R) => TGG (W)
164706	ccmB CDS	CCT (P) => TCT (S)
164702	ccmB CDS	TCG (S) => TTG (L)
164687	ccmB CDS	CCT (P) => CTT (L)
164685	ccmB CDS	CCC (P) => TCC (S)
164673	ccmB CDS	CCT (P) => TTT (F)
164672	ccmB CDS	CCT (P) => TTT (F)
164580	ccmB CDS	CGG (R) => TGG (W)
164528	ccmB CDS	CCG (P) => CTG (L)
164499	ccmB CDS	CGG (R) => TGG (W)
164486	ccmB CDS	CCA (P) => CTA (L)
164442	ccmB CDS	CGT (R) => TGT (C)
164399	ccmB CDS	TCG (S) => TTG (L)
164390	ccmB CDS	CCA (P) => CTA (L)
164381	ccmB CDS	TCA (S) => TTA (L)
164372	ccmB CDS	TCA (S) => TTA (L)
164363	ccmB CDS	CCA (P) => CTA (L)
164354	ccmB CDS	TCT (S) => TTT (F)
164352	ccmB CDS	CGT (R) => TGT (C)
164315	ccmB CDS	TCA (S) => TTA (L)
164312	ccmB CDS	TCG (S) => TTG (L)
164300	ccmB CDS	TCC (S) => TTC (F)
164297	ccmB CDS	TCT (S) => TTT (F)
164294	ccmB CDS	CCG (P) => CTG (L)
1728	ccmC CDS	CGG (R) => TGG (W)
1755	ccmC CDS	CAT (H) => TAT (Y)
1767	ccmC CDS	CGG (R) => TGG (W)
1785	ccmC CDS	CTT (L) => TTT (F)
1831	ccmC CDS	GCG (A) => GTG (V)
1836	ccmC CDS	CGG (R) => TGG (W)
1933	ccmC CDS	ACA (T) => ATA (I)
1983	ccmC CDS	CGG (R) => TGG (W)
2047	ccmC CDS	TCG (S) => TTG (L)
2073	ccmC CDS	CGT (R) => TGT (C)
2088	ccmC CDS	CCT (P) => TCT (S)
2098	ccmC CDS	CCG (P) => CTG (L)
2103	ccmC CDS	CCT (P) => TCT (S)
2110	ccmC CDS	TCA (S) => TTA (L)
2115	ccmC CDS	CGT (R) => TGT (C)
2119	ccmC CDS	GCT (A) => GTT (V)
2125	ccmC CDS	CCG (P) => CTG (L)
2149	ccmC CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
2200	ccmC CDS	TCT (S) => TTT (F)
2220	ccmC CDS	CCT (P) => TCT (S)
2227	ccmC CDS	CCC (P) => CTC (L)
2260	ccmC CDS	CCC (P) => CTC (L)
2262	ccmC CDS	CTC (L) => TTC (F)
2266	ccmC CDS	TCA (S) => TTA (L)
2271	ccmC CDS	CGT (R) => TGT (C)
2302	ccmC CDS	CCT (P) => CTT (L)
2317	ccmC CDS	CCC (P) => CTC (L)
2325	ccmC CDS	CCT (P) => TCT (S)
57396	ccmFc exon1	TCT (S) => TTT (F)
57408	ccmFc exon1	CCT (P) => CTT (L)
57410	ccmFc exon1	CGT (R) => TGT (C)
57461	ccmFc exon1	CCC (P) => TCC (S)
57480	ccmFc exon1	TCC (S) => TTC (F)
57509	ccmFc exon1	CCT (P) => TCT (S)
57513	ccmFc exon1	TCA (S) => TTA (L)
57518	ccmFc exon1	CCT (P) => TCT (S)
57663	ccmFc exon1	TCA (S) => TTA (L)
57668	ccmFc exon1	CGT (R) => TGT (C)
57764	ccmFc exon1	CGT (R) => TGT (C)
57770	ccmFc exon1	CTC (L) => TTC (F)
58064	ccmFc exon1	CAC (H) => TAC (Y)
58074	ccmFc exon1	GCT (A) => GTT (V)
62348	ccmFc exon2	TCT (S) => TTT (F)
62609	ccmFc exon2	CCA (P) => CTA (L)
62630	ccmFc exon2	TCG (S) => TTG (L)
62704	ccmFc exon2	CGG (R) => TGG (W)
62729	ccmFc exon2	TCG (S) => TTG (L)
62785	ccmFc exon2	CGA (R) => TGA (X)
246164	ccmFn CDS	CCG (P) => CTG (L)
246104	ccmFn CDS	CCT (P) => CTT (L)
246065	ccmFn CDS	TCG (S) => TTG (L)
246060	ccmFn CDS	CGT (R) => TGT (C)
246051	ccmFn CDS	CCT (P) => TCT (S)
245954	ccmFn CDS	TCA (S) => TTA (L)
245946	ccmFn CDS	CGG (R) => TGG (W)
245939	ccmFn CDS	CCA (P) => CTA (L)
245919	ccmFn CDS	CTT (L) => TTT (F)
245868	ccmFn CDS	CAT (H) => TAT (Y)
245840	ccmFn CDS	TCG (S) => TTG (L)
245727	ccmFn CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
245646	ccmFn CDS	CCT (P) => TTT (F)
245645	ccmFn CDS	CCT (P) => TTT (F)
245496	ccmFn CDS	CCT (P) => TTT (F)
245495	ccmFn CDS	CCT (P) => TTT (F)
245486	ccmFn CDS	TCA (S) => TTA (L)
245448	ccmFn CDS	CGT (R) => TGT (C)
245426	ccmFn CDS	TCA (S) => TTA (L)
245414	ccmFn CDS	CCA (P) => CTA (L)
245399	ccmFn CDS	TCA (S) => TTA (L)
245250	ccmFn CDS	CGC (R) => TGC (C)
244932	ccmFn CDS	CGG (R) => TGG (W)
244904	ccmFn CDS	CCA (P) => CTA (L)
244887	ccmFn CDS	CAT (H) => TAT (Y)
244872	ccmFn CDS	CGG (R) => TGG (W)
244854	ccmFn CDS	CGG (R) => TGG (W)
244803	ccmFn CDS	CGT (R) => TGT (C)
244760	ccmFn CDS	TCG (S) => TTG (L)
244740	ccmFn CDS	CTT (L) => TTT (F)
244736	ccmFn CDS	CCA (P) => CTA (L)
244724	ccmFn CDS	TCA (S) => TTA (L)
244641	ccmFn CDS	CGG (R) => TGG (W)
21183	cob CDS	CTC (L) => TTC (F)
21195	cob CDS	CAC (H) => TAC (Y)
21222	cob CDS	CAT (H) => TAT (Y)
21255	cob CDS	CGG (R) => TGG (W)
21304	cob CDS	ACA (T) => ATA (I)
21465	cob CDS	CAT (H) => TAT (Y)
21705	cob CDS	CCC (P) => TCC (S)
21750	cob CDS	CAT (H) => TAT (Y)
21805	cob CDS	CCA (P) => CTA (L)
21879	cob CDS	CAC (H) => TAC (Y)
21912	cob CDS	CGC (R) => TGC (C)
21978	cob CDS	CCT (P) => TCT (S)
21981	cob CDS	CCT (P) => TCT (S)
22021	cob CDS	CCG (P) => CTG (L)
50654	cox1 CDS	CCG (P) => CTG (L)
50885	cox1 CDS	TCT (S) => TTT (F)
50897	cox1 CDS	TCT (S) => TTT (F)
51086	cox1 CDS	TCA (S) => TTA (L)
51095	cox1 CDS	TCT (S) => TTT (F)
51158	cox1 CDS	TCC (S) => TTC (F)
51194	cox1 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
51218	cox1 CDS	CCA (P) => CTA (L)
51233	cox1 CDS	CCA (P) => CTA (L)
51311	cox1 CDS	TCT (S) => TTT (F)
51358	cox1 CDS	CGG (R) => TGG (W)
51389	cox1 CDS	CCC (P) => CTC (L)
51404	cox1 CDS	TCC (S) => TTC (F)
51829	cox1 CDS	CAC (H) => TAC (Y)
51922	cox1 CDS	CTC (L) => TTC (F)
52045	cox1 CDS	CGT (R) => TGT (C)
52048	cox1 CDS	CGT (R) => TGT (C)
52076	cox1 CDS	TCA (S) => TTA (L)
11151	cox3 CDS	CCT (P) => CTT (L)
11163	cox3 CDS	TCT (S) => TTT (F)
11169	cox3 CDS	CCG (P) => CTG (L)
11195	cox3 CDS	CTT (L) => TTT (F)
11210	cox3 CDS	CGG (R) => TGG (W)
11217	cox3 CDS	TCT (S) => TTT (F)
11220	cox3 CDS	TCT (S) => TTT (F)
11294	cox3 CDS	CGG (R) => TGG (W)
11319	cox3 CDS	CCT (P) => CTT (L)
11418	cox3 CDS	TCA (S) => TTA (L)
11660	cox3 CDS	CGG (R) => TGG (W)
340005	matR CDS	TCC (S) => TTC (F)
339952	matR CDS	CGC (R) => TGC (C)
339844	matR CDS	CCA (P) => TCA (S)
339801	matR CDS	TCC (S) => TTC (F)
339711	matR CDS	CCA (P) => CTA (L)
338976	matR CDS	CCC (P) => CTC (L)
338631	matR CDS	GCG (A) => GTG (V)
338361	matR CDS	TCT (S) => TTT (F)
338340	matR CDS	CCT (P) => CTT (L)
338320	matR CDS	CGC (R) => TGC (C)
338284	matR CDS	CAC (H) => TAC (Y)
338214	matR CDS	CCC (P) => CTC (L)
338196	matR CDS	TCA (S) => TTA (L)
401004	mttB CDS	CGG (R) => TGG (W)
401040	mttB CDS	CGT (R) => TGT (C)
401052	mttB CDS	CCG (P) => TCG (S)
401068	mttB CDS	TCT (S) => TTT (F)
401071	mttB CDS	CCA (P) => CTA (L)
401128	mttB CDS	TCA (S) => TTA (L)
401140	mttB CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
401142	mttB CDS	CCG (P) => TCG (S)
401202	mttB CDS	CAT (H) => TAT (Y)
401268	mttB CDS	CTC (L) => TTC (F)
401284	mttB CDS	TCT (S) => TTT (F)
401286	mttB CDS	CGC (R) => TGC (C)
401293	mttB CDS	TCC (S) => TTC (F)
401316	mttB CDS	CCC (P) => TCC (S)
401319	mttB CDS	CGG (R) => TGG (W)
401377	mttB CDS	TCG (S) => TTG (L)
401412	mttB CDS	CAT (H) => TAT (Y)
401437	mttB CDS	TCG (S) => TTG (L)
401445	mttB CDS	CCA (P) => TCA (S)
401488	mttB CDS	CCA (P) => CTA (L)
401494	mttB CDS	CCA (P) => CTA (L)
401550	mttB CDS	CCG (P) => TCG (S)
401607	mttB CDS	CGT (R) => TGT (C)
401623	mttB CDS	TCG (S) => TTG (L)
401653	mttB CDS	TCG (S) => TTG (L)
163538	nad1 exon1	ACG (T) => ATG (M)
163325	nad1 exon1	TCC (S) => TTC (F)
163275	nad1 exon1	CGG (R) => TGG (W)
163232	nad1 exon1	TCG (S) => TTG (L)
163172	nad1 exon1	ACA (T) => ATA (I)
55331	nad1 exon3	CCC (P) => TCC (S)
55334	nad1 exon3	CGT (R) => TGT (C)
55341	nad1 exon3	TCG (S) => TTG (L)
55377	nad1 exon3	TCC (S) => TTC (F)
55421	nad1 exon3	CGT (R) => TGT (C)
55476	nad1 exon3	TCA (S) => TTA (L)
340732	nad1 exon4	TCT (S) => TTT (F)
337532	nad1 exon5	CCA (P) => CTA (L)
337523	nad1 exon5	TCG (S) => TTG (L)
337517	nad1 exon5	TCT (S) => TTT (F)
337514	nad1 exon5	CCA (P) => CTA (L)
337502	nad1 exon5	CCG (P) => CTG (L)
337359	nad1 exon5	CGG (R) => TGG (W)
337329	nad1 exon5	CGG (R) => TGG (W)
337304	nad1 exon5	TCA (S) => TTA (L)
134944	nad2 exon1	TCC (S) => TTC (F)
134914	nad2 exon1	TCC (S) => TTC (F)
133511	nad2 exon2	CGG (R) => TGG (W)
133463	nad2 exon2	CTT (L) => TTT (F)

Position	CDS/exon name	codon/AA change
133417	nad2 exon2	TCT (S) => TTT (F)
133414	nad2 exon2	TCC (S) => TTC (F)
133369	nad2 exon2	CCA (P) => CTA (L)
133364	nad2 exon2	CCT (P) => TCT (S)
133358	nad2 exon2	CGC (R) => TGC (C)
133331	nad2 exon2	CAT (H) => TAT (Y)
133324	nad2 exon2	TCA (S) => TTA (L)
133297	nad2 exon2	CCT (P) => CTT (L)
133228	nad2 exon2	TCG (S) => TTG (L)
323119	nad2 exon3	TCT (S) => TTT (F)
323104	nad2 exon3	TCC (S) => TTC (F)
320411	nad2 exon4	TCA (S) => TTA (L)
320402	nad2 exon4	TCT (S) => TTT (F)
320291	nad2 exon4	CCT (P) => CTT (L)
320283	nad2 exon4	CAT (H) => TAT (Y)
320253	nad2 exon4	CGT (R) => TGT (C)
320249	nad2 exon4	ACT (T) => ATT (I)
320084	nad2 exon4	TCG (S) => TTG (L)
319964	nad2 exon4	CCA (P) => CTA (L)
318436	nad2 exon5	GCG (A) => GTG (V)
318334	nad2 exon5	TCA (S) => TTA (L)
318331	nad2 exon5	TCC (S) => TTC (F)
318325	nad2 exon5	CCA (P) => CTA (L)
318277	nad2 exon5	TCA (S) => TTA (L)
42931	nad3 CDS	TCA (S) => TTA (L)
43006	nad3 CDS	CCC (P) => CTC (L)
43134	nad3 CDS	CCT (P) => TTT (F)
43135	nad3 CDS	CCT (P) => TTT (F)
43141	nad3 CDS	CCG (P) => CTG (L)
43156	nad3 CDS	TCC (S) => TTC (F)
43173	nad3 CDS	CCT (P) => TCT (S)
43177	nad3 CDS	CCC (P) => CTC (L)
43192	nad3 CDS	CCG (P) => CTG (L)
43201	nad3 CDS	TCT (S) => TTT (F)
43243	nad3 CDS	TCT (S) => TTT (F)
43270	nad3 CDS	TCG (S) => TTG (L)
43275	nad3 CDS	CGG (R) => TGG (W)
102765	nad4 exon1	TCT (S) => TTT (F)
102750	nad4 exon1	CCT (P) => CTT (L)
102717	nad4 exon1	CCT (P) => CTT (L)
102687	nad4 exon1	CCG (P) => CTG (L)
102636	nad4 exon1	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
102630	nad4 exon1	CCT (P) => CTT (L)
102628	nad4 exon1	CGG (R) => TGG (W)
102597	nad4 exon1	TCT (S) => TTT (F)
102432	nad4 exon1	ACA (T) => ATA (I)
102426	nad4 exon1	TCT (S) => TTT (F)
102418	nad4 exon1	CGT (R) => TGT (C)
102391	nad4 exon1	CGC (R) => TGC (C)
102378	nad4 exon1	CCT (P) => CTT (L)
102361	nad4 exon1	CTT (L) => TTT (F)
102358	nad4 exon1	CCC (P) => TTC (F)
102357	nad4 exon1	CCC (P) => TTC (F)
100778	nad4 exon2	TCA (S) => TTA (L)
100727	nad4 exon2	TCT (S) => TTT (F)
100619	nad4 exon2	CCT (P) => CTT (L)
100616	nad4 exon2	TCA (S) => TTA (L)
100602	nad4 exon2	CAC (H) => TAC (Y)
100550	nad4 exon2	TCC (S) => TTC (F)
100529	nad4 exon2	CCA (P) => CTA (L)
100490	nad4 exon2	TCA (S) => TTA (L)
97119	nad4 exon3	CCG (P) => CTG (L)
97089	nad4 exon3	CCA (P) => CTA (L)
97086	nad4 exon3	CCG (P) => CTG (L)
97063	nad4 exon3	CCT (P) => TCT (S)
96967	nad4 exon3	CTC (L) => TTC (F)
96954	nad4 exon3	TCC (S) => TTC (F)
96948	nad4 exon3	TCT (S) => TTT (F)
96945	nad4 exon3	TCC (S) => TTC (F)
96924	nad4 exon3	TCA (S) => TTA (L)
96891	nad4 exon3	CCC (P) => CTC (L)
96885	nad4 exon3	TCA (S) => TTA (L)
96741	nad4 exon3	CCA (P) => CTA (L)
96723	nad4 exon3	TCC (S) => TTC (F)
94122	nad4 exon4	CGG (R) => TGG (W)
94110	nad4 exon4	CAC (H) => TAC (Y)
94094	nad4 exon4	CCG (P) => CTG (L)
94089	nad4 exon4	CGC (R) => TGC (C)
145777	nad4L CDS	ACG (T) => ATG (M)
145783	nad4L CDS	CCT (P) => CTT (L)
145816	nad4L CDS	TCT (S) => TTT (F)
145830	nad4L CDS	CGG (R) => TGG (W)
145861	nad4L CDS	CCT (P) => CTT (L)
145870	nad4L CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
145875	nad4L CDS	CCA (P) => TCA (S)
145885	nad4L CDS	TCA (S) => TTA (L)
145906	nad4L CDS	TCG (S) => TTG (L)
145933	nad4L CDS	TCG (S) => TTG (L)
145954	nad4L CDS	TCA (S) => TTA (L)
145963	nad4L CDS	TCA (S) => TTA (L)
145972	nad4L CDS	TCA (S) => TTA (L)
252189	nad5 exon1	CCG (P) => CTG (L)
253135	nad5 exon2	CCG (P) => CTG (L)
253165	nad5 exon2	TCC (S) => TTC (F)
253251	nad5 exon2	CTT (L) => TTT (F)
253267	nad5 exon2	CCA (P) => CTA (L)
253291	nad5 exon2	TCT (S) => TTT (F)
253387	nad5 exon2	ACA (T) => ATA (I)
253399	nad5 exon2	CCT (P) => CTT (L)
253432	nad5 exon2	CCT (P) => CTT (L)
253446	nad5 exon2	CGT (R) => TGT (C)
253491	nad5 exon2	CGT (R) => TGT (C)
253522	nad5 exon2	TCT (S) => TTT (F)
253569	nad5 exon2	CTT (L) => TTT (F)
253606	nad5 exon2	TCG (S) => TTG (L)
253618	nad5 exon2	TCA (S) => TTA (L)
253728	nad5 exon2	CCA (P) => TCA (S)
253756	nad5 exon2	TCT (S) => TTT (F)
253768	nad5 exon2	ACG (T) => ATG (M)
254203	nad5 exon2	TCA (S) => TTA (L)
267615	nad5 exon4	CCC (P) => CTC (L)
267675	nad5 exon4	ACC (T) => ATC (I)
267705	nad5 exon4	TCA (S) => TTA (L)
267714	nad5 exon4	TCT (S) => TTT (F)
267735	nad5 exon4	CCC (P) => CTC (L)
268940	nad5 exon5	TCA (S) => TTA (L)
268963	nad5 exon5	CGT (R) => TGT (C)
269003	nad5 exon5	TCG (S) => TTG (L)
159812	nad6 CDS	CTT (L) => TTT (F)
159766	nad6 CDS	GCA (A) => GTA (V)
159731	nad6 CDS	CCC (P) => TTC (F)
159730	nad6 CDS	CCC (P) => TTC (F)
159724	nad6 CDS	CCA (P) => CTA (L)
159716	nad6 CDS	CGC (R) => TGC (C)
159673	nad6 CDS	TCC (S) => TTC (F)
159658	nad6 CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
159650	nad6 CDS	CAT (H) => TAT (Y)
159628	nad6 CDS	TCA (S) => TTA (L)
159530	nad6 CDS	CTT (L) => TTT (F)
159356	nad6 CDS	CCT (P) => TCT (S)
159214	nad6 CDS	TCA (S) => TTA (L)
170044	nad7 exon1	TCG (S) => TTG (L)
170083	nad7 exon1	TCA (S) => TTA (L)
170089	nad7 exon1	TCA (S) => TTA (L)
170143	nad7 exon1	TCA (S) => TTA (L)
171106	nad7 exon2	TCT (S) => TTT (F)
172461	nad7 exon3	ACG (T) => ATG (M)
172481	nad7 exon3	CAT (H) => TAT (Y)
172488	nad7 exon3	TCA (S) => TTA (L)
172553	nad7 exon3	CGT (R) => TGT (C)
172572	nad7 exon3	TCA (S) => TTA (L)
172620	nad7 exon3	TCA (S) => TTA (L)
172629	nad7 exon3	TCC (S) => TTC (F)
172815	nad7 exon3	TCA (S) => TTA (L)
172916	nad7 exon3	CCA (P) => TCA (S)
173990	nad7 exon4	TCG (S) => TTG (L)
174016	nad7 exon4	CAT (H) => TAT (Y)
174026	nad7 exon4	TCG (S) => TTG (L)
174031	nad7 exon4	CCT (P) => TTT (F)
174032	nad7 exon4	CCT (P) => TTT (F)
174061	nad7 exon4	CGC (R) => TGC (C)
174128	nad7 exon4	CCT (P) => CTT (L)
176251	nad7 exon5	TCA (S) => TTA (L)
176298	nad7 exon5	CCT (P) => TCT (S)
176382	nad7 exon5	CGT (R) => TGT (C)
176404	nad7 exon5	TCT (S) => TTT (F)
176413	nad7 exon5	TCA (S) => TTA (L)
176428	nad7 exon5	TCT (S) => TTT (F)
176449	nad7 exon5	CCA (P) => CTA (L)
176491	nad7 exon5	TCT (S) => TTT (F)
289161	nad9 CDS	TCC (S) => TTC (F)
289239	nad9 CDS	TCT (S) => TTT (F)
289314	nad9 CDS	TCG (S) => TTG (L)
289445	nad9 CDS	CCG (P) => TCG (S)
289475	nad9 CDS	CGG (R) => TGG (W)
289515	nad9 CDS	TCC (S) => TTC (F)
289545	nad9 CDS	TCA (S) => TTA (L)
289586	nad9 CDS	CTT (L) => TTT (F)

Position	CDS/exon name	codon/AA change
308589	rpl16 CDS	CAG (Q) => TAG (X)
308441	rpl16 CDS	ACT (T) => ATT (I)
308144	rpl16 CDS	CCA (P) => CTA (L)
308138	rpl16 CDS	TCG (S) => TTG (L)
19154	rpl5 CDS	TCA (S) => TTA (L)
19166	rpl5 CDS	CCG (P) => CTG (L)
19183	rpl5 CDS	CAC (H) => TAC (Y)
19211	rpl5 CDS	TCG (S) => TTG (L)
19288	rpl5 CDS	CGC (R) => TGC (C)
19436	rpl5 CDS	TCG (S) => TTG (L)
19631	rpl5 CDS	CCA (P) => CTA (L)
19634	rpl5 CDS	CCG (P) => CTG (L)
47254	rps10 exon1	ACG (T) => ATG (M)
47490	rps10 exon1	CGG (R) => TGG (W)
50383	rps10 exon2	TCG (S) => TTG (L)
50412	rps10 exon2	CGA (R) => TGA (X)
43402	rps12 CDS	TCG (S) => TTG (L)
43431	rps12 CDS	CGC (R) => TGC (C)
43435	rps12 CDS	CCG (P) => CTG (L)
43477	rps12 CDS	CCA (P) => CTA (L)
43527	rps12 CDS	CAC (H) => TAC (Y)
43552	rps12 CDS	TCG (S) => TTG (L)
43615	rps12 CDS	TCC (S) => TTC (F)
19731	rps14 CDS	GCG (A) => GTG (V)
19878	rps15 CDS	TCC (S) => TTC (F)
19955	rps16 CDS	CCT (P) => TCT (S)
311517	rps3 exon1	CGG (R) => TGG (W)
309693	rps3 exon2	TCA (S) => TTA (L)
309492	rps3 exon2	TCG (S) => TTG (L)
309177	rps3 exon2	CCA (P) => CTA (L)
309144	rps3 exon2	TCT (S) => TTT (F)
308844	rps3 exon2	CCG (P) => CTG (L)
308706	rps3 exon2	TCA (S) => TTA (L)
308653	rps3 exon2	CGT (R) => TGT (C)
308589	rps3 exon2	TCA (S) => TTA (L)
249476	rps4 CDS	TCA (S) => TTA (L)
249487	rps4 CDS	CGG (R) => TGG (W)
249571	rps4 CDS	CCG (P) => TCG (S)
249602	rps4 CDS	TCA (S) => TTA (L)
249622	rps4 CDS	CCC (P) => TCC (S)
249631	rps4 CDS	CAT (H) => TAT (Y)
249704	rps4 CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
249716	rps4 CDS	TCG (S) => TTG (L)
249728	rps4 CDS	CCG (P) => CTG (L)
249745	rps4 CDS	CGT (R) => TGT (C)
249773	rps4 CDS	CCG (P) => CTG (L)
249920	rps4 CDS	TCA (S) => TTA (L)
250355	rps4 CDS	TCG (S) => TTG (L)
250366	rps4 CDS	CAT (H) => TAT (Y)
250376	rps4 CDS	CCA (P) => CTA (L)
250442	rps4 CDS	CCA (P) => CTA (L)
250451	rps4 CDS	CCT (P) => CTT (L)
250456	rps4 CDS	CGG (R) => TGG (W)

Table S7. Predicted RNA editing sites of the mitochondrial genome of *Lotus japonicas*

Position	CDS/exon name	codon/AA change
194111	atp1 CDS	CCA (P) => CTA (L)
98078	atp4 CDS	CCA (P) => CTA (L)
98075	atp4 CDS	TCT (S) => TTT (F)
98045	atp4 CDS	TCA (S) => TTA (L)
98016	atp4 CDS	CGT (R) => TGT (C)
97919	atp4 CDS	TCG (S) => TTG (L)
97908	atp4 CDS	CCC (P) => TTC (F)
97907	atp4 CDS	CCC (P) => TTC (F)
97886	atp4 CDS	CCT (P) => CTT (L)
97739	atp4 CDS	TCA (S) => TTA (L)
97727	atp4 CDS	CCA (P) => CTA (L)
97718	atp4 CDS	ACT (T) => ATT (I)
97644	atp4 CDS	CCC (P) => TCC (S)
120559	atp6 CDS	CCC (P) => TCC (S)
120638	atp6 CDS	TCA (S) => TTA (L)
120662	atp6 CDS	TCG (S) => TTG (L)
120689	atp6 CDS	CCG (P) => CTG (L)
120758	atp6 CDS	TCG (S) => TTG (L)
120776	atp6 CDS	TCG (S) => TTG (L)
120791	atp6 CDS	CCC (P) => CTC (L)
120923	atp6 CDS	TCA (S) => TTA (L)
120982	atp6 CDS	CCT (P) => TCT (S)
120985	atp6 CDS	CAT (H) => TAT (Y)
121007	atp6 CDS	TCA (S) => TTA (L)
121049	atp6 CDS	TCA (S) => TTA (L)
121070	atp6 CDS	TCC (S) => TTC (F)
121157	atp6 CDS	CCG (P) => CTG (L)
121178	atp6 CDS	TCA (S) => TTA (L)
121186	atp6 CDS	CAT (H) => TAT (Y)
121193	atp6 CDS	TCT (S) => TTT (F)
121202	atp6 CDS	TCA (S) => TTA (L)
121229	atp6 CDS	ACA (T) => ATA (I)
121240	atp6 CDS	CAA (Q) => TAA (X)
301396	atp8 CDS	TCA (S) => TTA (L)
301385	atp8 CDS	CTC (L) => TTC (F)
300988	atp8 CDS	CCA (P) => CTA (L)
229056	atp9 CDS	TCA (S) => TTA (L)
292769	ccmB CDS	CCC (P) => TCC (S)
292797	ccmB CDS	CCA (P) => CTA (L)
292806	ccmB CDS	TCG (S) => TTG (L)
292854	ccmB CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
292863	ccmB CDS	TCC (S) => TTC (F)
292880	ccmB CDS	CGG (R) => TGG (W)
292886	ccmB CDS	CCT (P) => TCT (S)
292890	ccmB CDS	TCG (S) => TTG (L)
292905	ccmB CDS	CCT (P) => CTT (L)
292907	ccmB CDS	CCC (P) => TCC (S)
292919	ccmB CDS	CCT (P) => TTT (F)
292920	ccmB CDS	CCT (P) => TTT (F)
293012	ccmB CDS	CGG (R) => TGG (W)
293064	ccmB CDS	CCG (P) => CTG (L)
293093	ccmB CDS	CGG (R) => TGG (W)
293106	ccmB CDS	CCA (P) => CTA (L)
293150	ccmB CDS	CGT (R) => TGT (C)
293193	ccmB CDS	TCG (S) => TTG (L)
293202	ccmB CDS	CCA (P) => CTA (L)
293211	ccmB CDS	TCA (S) => TTA (L)
293220	ccmB CDS	TCA (S) => TTA (L)
293229	ccmB CDS	CCA (P) => CTA (L)
293238	ccmB CDS	TCT (S) => TTT (F)
293240	ccmB CDS	CGT (R) => TGT (C)
293277	ccmB CDS	TCA (S) => TTA (L)
293280	ccmB CDS	TCG (S) => TTG (L)
293292	ccmB CDS	TCC (S) => TTC (F)
293295	ccmB CDS	TCT (S) => TTT (F)
293298	ccmB CDS	CCG (P) => CTG (L)
342296	ccmC CDS	CGG (R) => TGG (W)
342323	ccmC CDS	CAT (H) => TAT (Y)
342335	ccmC CDS	CGG (R) => TGG (W)
342353	ccmC CDS	CTT (L) => TTT (F)
342399	ccmC CDS	GCG (A) => GTG (V)
342404	ccmC CDS	CGG (R) => TGG (W)
342501	ccmC CDS	ACA (T) => ATA (I)
342551	ccmC CDS	CGG (R) => TGG (W)
342615	ccmC CDS	TCG (S) => TTG (L)
342641	ccmC CDS	CGT (R) => TGT (C)
342656	ccmC CDS	CCT (P) => TCT (S)
342666	ccmC CDS	CCG (P) => CTG (L)
342671	ccmC CDS	CCT (P) => TCT (S)
342678	ccmC CDS	TCA (S) => TTA (L)
342683	ccmC CDS	CGT (R) => TGT (C)
342687	ccmC CDS	GCT (A) => GTT (V)
342693	ccmC CDS	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
342717	ccmC CDS	TCT (S) => TTT (F)
342768	ccmC CDS	TCT (S) => TTT (F)
342788	ccmC CDS	CCT (P) => TCT (S)
342795	ccmC CDS	CCC (P) => CTC (L)
342828	ccmC CDS	CCC (P) => CTC (L)
342830	ccmC CDS	CTC (L) => TTC (F)
342834	ccmC CDS	TCA (S) => TTA (L)
342839	ccmC CDS	CGT (R) => TGT (C)
342870	ccmC CDS	CCT (P) => CTT (L)
342893	ccmC CDS	CCT (P) => TCT (S)
227880	ccmFc exon1	TCT (S) => TTT (F)
227868	ccmFc exon1	CCT (P) => CTT (L)
227866	ccmFc exon1	CGT (R) => TGT (C)
227815	ccmFc exon1	CCC (P) => TCC (S)
227796	ccmFc exon1	TCC (S) => TTC (F)
227767	ccmFc exon1	CCT (P) => TCT (S)
227763	ccmFc exon1	TCA (S) => TTA (L)
227758	ccmFc exon1	CCT (P) => TCT (S)
227613	ccmFc exon1	TCA (S) => TTA (L)
227608	ccmFc exon1	CGT (R) => TGT (C)
227512	ccmFc exon1	CGT (R) => TGT (C)
227506	ccmFc exon1	CTC (L) => TTC (F)
227380	ccmFc exon1	CAC (H) => TAC (Y)
227370	ccmFc exon1	GCT (A) => GTT (V)
226235	ccmFc exon2	TCT (S) => TTT (F)
225974	ccmFc exon2	CCA (P) => CTA (L)
225953	ccmFc exon2	TCG (S) => TTG (L)
225879	ccmFc exon2	CGG (R) => TGG (W)
225854	ccmFc exon2	TCG (S) => TTG (L)
225798	ccmFc exon2	CGA (R) => TGA (X)
87252	ccmFn CDS	CCG (P) => CTG (L)
87312	ccmFn CDS	CCT (P) => CTT (L)
87351	ccmFn CDS	TCG (S) => TTG (L)
87356	ccmFn CDS	CGT (R) => TGT (C)
87365	ccmFn CDS	CCT (P) => TCT (S)
87462	ccmFn CDS	TCA (S) => TTA (L)
87470	ccmFn CDS	CGG (R) => TGG (W)
87477	ccmFn CDS	CCA (P) => CTA (L)
87497	ccmFn CDS	CTT (L) => TTT (F)
87548	ccmFn CDS	CAT (H) => TAT (Y)
87576	ccmFn CDS	TCG (S) => TTG (L)
87689	ccmFn CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
87770	ccmFn CDS	CCT (P) => TTT (F)
87771	ccmFn CDS	CCT (P) => TTT (F)
87920	ccmFn CDS	CCT (P) => TTT (F)
87921	ccmFn CDS	CCT (P) => TTT (F)
87930	ccmFn CDS	TCA (S) => TTA (L)
87968	ccmFn CDS	CGT (R) => TGT (C)
87990	ccmFn CDS	TCA (S) => TTA (L)
88002	ccmFn CDS	CCA (P) => CTA (L)
88017	ccmFn CDS	TCA (S) => TTA (L)
88166	ccmFn CDS	CGC (R) => TGC (C)
88484	ccmFn CDS	CGG (R) => TGG (W)
88512	ccmFn CDS	CCA (P) => CTA (L)
88529	ccmFn CDS	CAT (H) => TAT (Y)
88544	ccmFn CDS	CGG (R) => TGG (W)
88562	ccmFn CDS	CGG (R) => TGG (W)
88613	ccmFn CDS	CGT (R) => TGT (C)
88656	ccmFn CDS	TCG (S) => TTG (L)
88676	ccmFn CDS	CTT (L) => TTT (F)
88680	ccmFn CDS	CCA (P) => CTA (L)
88692	ccmFn CDS	TCA (S) => TTA (L)
88775	ccmFn CDS	CGG (R) => TGG (W)
75463	cob CDS	CTC (L) => TTC (F)
75199	cob CDS	CTC (L) => TTC (F)
75187	cob CDS	CAC (H) => TAC (Y)
75160	cob CDS	CAT (H) => TAT (Y)
75127	cob CDS	CGG (R) => TGG (W)
75078	cob CDS	ACA (T) => ATA (I)
75066	cob CDS	CCA (P) => CTA (L)
74917	cob CDS	CAT (H) => TAT (Y)
74677	cob CDS	CCC (P) => TCC (S)
74632	cob CDS	CAT (H) => TAT (Y)
74577	cob CDS	CCT (P) => CTT (L)
74503	cob CDS	CAC (H) => TAC (Y)
74470	cob CDS	CGC (R) => TGC (C)
74404	cob CDS	CCT (P) => TCT (S)
74401	cob CDS	CCT (P) => TCT (S)
74361	cob CDS	CCG (P) => CTG (L)
11	cox1 CDS	CCG (P) => CTG (L)
242	cox1 CDS	TCT (S) => TTT (F)
254	cox1 CDS	TCT (S) => TTT (F)
443	cox1 CDS	TCA (S) => TTA (L)
452	cox1 CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
515	cox1 CDS	TCC (S) => TTC (F)
551	cox1 CDS	TCA (S) => TTA (L)
575	cox1 CDS	CCA (P) => CTA (L)
590	cox1 CDS	CCA (P) => CTA (L)
668	cox1 CDS	TCT (S) => TTT (F)
715	cox1 CDS	CGG (R) => TGG (W)
746	cox1 CDS	CCC (P) => CTC (L)
761	cox1 CDS	TCC (S) => TTC (F)
1079	cox1 CDS	CCG (P) => CTG (L)
1186	cox1 CDS	CAC (H) => TAC (Y)
1279	cox1 CDS	CTC (L) => TTC (F)
1402	cox1 CDS	CGT (R) => TGT (C)
1405	cox1 CDS	CGT (R) => TGT (C)
1433	cox1 CDS	TCA (S) => TTA (L)
299595	cox3 CDS	CCT (P) => CTT (L)
299583	cox3 CDS	TCT (S) => TTT (F)
299577	cox3 CDS	CCG (P) => CTG (L)
299551	cox3 CDS	CTT (L) => TTT (F)
299536	cox3 CDS	CGG (R) => TGG (W)
299529	cox3 CDS	TCT (S) => TTT (F)
299526	cox3 CDS	TCT (S) => TTT (F)
299452	cox3 CDS	CGG (R) => TGG (W)
299427	cox3 CDS	CCT (P) => CTT (L)
299328	cox3 CDS	TCA (S) => TTA (L)
299086	cox3 CDS	CGG (R) => TGG (W)
299076	cox3 CDS	CCA (P) => CTA (L)
43787	matR CDS	TCC (S) => TTC (F)
43840	matR CDS	CGC (R) => TGC (C)
43948	matR CDS	CCA (P) => TCA (S)
43991	matR CDS	TCC (S) => TTC (F)
44081	matR CDS	CCA (P) => CTA (L)
44819	matR CDS	CCC (P) => CTC (L)
45164	matR CDS	GCG (A) => GTG (V)
45209	matR CDS	GCC (A) => GTC (V)
45434	matR CDS	TCT (S) => TTT (F)
45455	matR CDS	CCT (P) => CTT (L)
45511	matR CDS	CAC (H) => TAC (Y)
45581	matR CDS	CCC (P) => CTC (L)
45599	matR CDS	TCA (S) => TTA (L)
16991	mttB CDS	CCG (P) => CTG (L)
16953	mttB CDS	CGG (R) => TGG (W)
16917	mttB CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
16905	mttB CDS	CCG (P) => TCG (S)
16889	mttB CDS	TCT (S) => TTT (F)
16886	mttB CDS	CCA (P) => CTA (L)
16829	mttB CDS	TCA (S) => TTA (L)
16815	mttB CDS	CCG (P) => TCG (S)
16755	mttB CDS	CAT (H) => TAT (Y)
16689	mttB CDS	CTC (L) => TTC (F)
16673	mttB CDS	TCT (S) => TTT (F)
16671	mttB CDS	CGC (R) => TGC (C)
16664	mttB CDS	TCC (S) => TTC (F)
16641	mttB CDS	CCC (P) => TCC (S)
16638	mttB CDS	CGG (R) => TGG (W)
16580	mttB CDS	TCG (S) => TTG (L)
16545	mttB CDS	CAT (H) => TAT (Y)
16520	mttB CDS	TCG (S) => TTG (L)
16512	mttB CDS	CCA (P) => TCA (S)
16469	mttB CDS	CCA (P) => CTA (L)
16463	mttB CDS	CCA (P) => CTA (L)
16407	mttB CDS	CCG (P) => TCG (S)
16350	mttB CDS	CGT (R) => TGT (C)
16334	mttB CDS	TCG (S) => TTG (L)
16304	mttB CDS	TCG (S) => TTG (L)
359342	nad1 exon1	ACG (T) => ATG (M)
359129	nad1 exon1	TCC (S) => TTC (F)
359079	nad1 exon1	CGG (R) => TGG (W)
359036	nad1 exon1	TCG (S) => TTG (L)
358976	nad1 exon1	ACA (T) => ATA (I)
4792	nad1 exon3	CCC (P) => TCC (S)
4795	nad1 exon3	CGT (R) => TGT (C)
4802	nad1 exon3	TCG (S) => TTG (L)
4838	nad1 exon3	TCC (S) => TTC (F)
4882	nad1 exon3	CGT (R) => TGT (C)
4937	nad1 exon3	TCA (S) => TTA (L)
43121	nad1 exon4	TCT (S) => TTT (F)
46515	nad1 exon5	CCA (P) => CTA (L)
46524	nad1 exon5	TCG (S) => TTG (L)
46530	nad1 exon5	TCT (S) => TTT (F)
46533	nad1 exon5	CCA (P) => CTA (L)
46545	nad1 exon5	CCG (P) => CTG (L)
46613	nad1 exon5	CTC (L) => TTC (F)
46688	nad1 exon5	CGG (R) => TGG (W)
46718	nad1 exon5	CGG (R) => TGG (W)

Position	CDS/exon name	codon/AA change
46743	nad1 exon5	TCA (S) => TTA (L)
60155	nad2 exon1	TCC (S) => TTC (F)
60185	nad2 exon1	TCC (S) => TTC (F)
61586	nad2 exon2	CGG (R) => TGG (W)
61634	nad2 exon2	CTT (L) => TTT (F)
61680	nad2 exon2	TCT (S) => TTT (F)
61683	nad2 exon2	TCC (S) => TTC (F)
61728	nad2 exon2	CCA (P) => CTA (L)
61733	nad2 exon2	CCT (P) => TCT (S)
61739	nad2 exon2	CGC (R) => TGC (C)
61766	nad2 exon2	CAT (H) => TAT (Y)
61773	nad2 exon2	TCA (S) => TTA (L)
61800	nad2 exon2	CCT (P) => CTT (L)
61869	nad2 exon2	TCG (S) => TTG (L)
103408	nad2 exon3	TCT (S) => TTT (F)
103393	nad2 exon3	TCC (S) => TTC (F)
101556	nad2 exon4	TCA (S) => TTA (L)
101547	nad2 exon4	TCT (S) => TTT (F)
101436	nad2 exon4	CCT (P) => CTT (L)
101428	nad2 exon4	CAT (H) => TAT (Y)
101398	nad2 exon4	CGT (R) => TGT (C)
101394	nad2 exon4	ACA (T) => ATA (I)
101325	nad2 exon4	ACG (T) => ATG (M)
101229	nad2 exon4	TCG (S) => TTG (L)
101109	nad2 exon4	CCA (P) => CTA (L)
99545	nad2 exon5	GCG (A) => GTG (V)
99443	nad2 exon5	TCA (S) => TTA (L)
99440	nad2 exon5	TCC (S) => TTC (F)
99434	nad2 exon5	CCA (P) => CTA (L)
99386	nad2 exon5	TCA (S) => TTA (L)
332890	nad3 CDS	TCA (S) => TTA (L)
332947	nad3 CDS	CCA (P) => CTA (L)
332965	nad3 CDS	CCC (P) => CTC (L)
333093	nad3 CDS	CCT (P) => TTT (F)
333094	nad3 CDS	CCT (P) => TTT (F)
333100	nad3 CDS	CCG (P) => CTG (L)
333115	nad3 CDS	TCC (S) => TTC (F)
333132	nad3 CDS	CCT (P) => TCT (S)
333136	nad3 CDS	CCC (P) => CTC (L)
333151	nad3 CDS	CCG (P) => CTG (L)
333160	nad3 CDS	TCT (S) => TTT (F)
333202	nad3 CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
333229	nad3 CDS	TCG (S) => TTG (L)
333234	nad3 CDS	CGG (R) => TGG (W)
137843	nad4 exon1	TCT (S) => TTT (F)
137828	nad4 exon1	CCT (P) => CTT (L)
137795	nad4 exon1	CCT (P) => CTT (L)
137765	nad4 exon1	CCG (P) => CTG (L)
137714	nad4 exon1	CCT (P) => CTT (L)
137708	nad4 exon1	CCT (P) => CTT (L)
137706	nad4 exon1	CGG (R) => TGG (W)
137675	nad4 exon1	TCT (S) => TTT (F)
137625	nad4 exon1	CAT (H) => TAT (Y)
137510	nad4 exon1	ACA (T) => ATA (I)
137504	nad4 exon1	TCT (S) => TTT (F)
137496	nad4 exon1	CGT (R) => TGT (C)
137469	nad4 exon1	CGC (R) => TGC (C)
137456	nad4 exon1	CCT (P) => CTT (L)
137439	nad4 exon1	CTT (L) => TTT (F)
137436	nad4 exon1	CCC (P) => TTC (F)
137435	nad4 exon1	CCC (P) => TTC (F)
135843	nad4 exon2	TCA (S) => TTA (L)
135792	nad4 exon2	TCT (S) => TTT (F)
135684	nad4 exon2	CCT (P) => CTT (L)
135681	nad4 exon2	TCA (S) => TTA (L)
135667	nad4 exon2	CAC (H) => TAC (Y)
135615	nad4 exon2	TCC (S) => TTC (F)
135594	nad4 exon2	CCA (P) => CTA (L)
135555	nad4 exon2	TCA (S) => TTA (L)
132216	nad4 exon3	CCG (P) => CTG (L)
132186	nad4 exon3	CCA (P) => CTA (L)
132183	nad4 exon3	CCG (P) => CTG (L)
132160	nad4 exon3	CCT (P) => TCT (S)
132064	nad4 exon3	CTC (L) => TTC (F)
132051	nad4 exon3	TCC (S) => TTC (F)
132045	nad4 exon3	TCT (S) => TTT (F)
132042	nad4 exon3	TCC (S) => TTC (F)
132021	nad4 exon3	TCA (S) => TTA (L)
131988	nad4 exon3	CCC (P) => CTC (L)
131982	nad4 exon3	TCA (S) => TTA (L)
131838	nad4 exon3	CCA (P) => CTA (L)
131820	nad4 exon3	TCC (S) => TTC (F)
129219	nad4 exon4	CGG (R) => TGG (W)
129207	nad4 exon4	CAC (H) => TAC (Y)

Position	CDS/exon name	codon/AA change
129191	nad4 exon4	CCG (P) => CTG (L)
129186	nad4 exon4	CGC (R) => TGC (C)
98626	nad4L CDS	ACG (T) => ATG (M)
98620	nad4L CDS	CCT (P) => CTT (L)
98587	nad4L CDS	TCT (S) => TTT (F)
98573	nad4L CDS	CGG (R) => TGG (W)
98542	nad4L CDS	CCT (P) => CTT (L)
98533	nad4L CDS	TCA (S) => TTA (L)
98528	nad4L CDS	CCA (P) => TCA (S)
98518	nad4L CDS	TCA (S) => TTA (L)
98497	nad4L CDS	TCG (S) => TTG (L)
98470	nad4L CDS	TCG (S) => TTG (L)
98449	nad4L CDS	TCA (S) => TTA (L)
98440	nad4L CDS	TCA (S) => TTA (L)
98431	nad4L CDS	TCA (S) => TTA (L)
73447	nad5 exon1	CCG (P) => CTG (L)
72485	nad5 exon2	CCG (P) => CTG (L)
72455	nad5 exon2	TCC (S) => TTC (F)
72369	nad5 exon2	CTT (L) => TTT (F)
72353	nad5 exon2	CCA (P) => CTA (L)
72329	nad5 exon2	TCT (S) => TTT (F)
72233	nad5 exon2	ACA (T) => ATA (I)
72221	nad5 exon2	CCT (P) => CTT (L)
72188	nad5 exon2	CCT (P) => CTT (L)
72174	nad5 exon2	CGT (R) => TGT (C)
72129	nad5 exon2	CGT (R) => TGT (C)
72098	nad5 exon2	TCT (S) => TTT (F)
72051	nad5 exon2	CTT (L) => TTT (F)
72014	nad5 exon2	TCG (S) => TTG (L)
72002	nad5 exon2	TCA (S) => TTA (L)
71892	nad5 exon2	CCA (P) => TCA (S)
71864	nad5 exon2	TCT (S) => TTT (F)
71852	nad5 exon2	ACG (T) => ATG (M)
71417	nad5 exon2	TCA (S) => TTA (L)
222155	nad5 exon4	CCC (P) => CTC (L)
222215	nad5 exon4	ACC (T) => ATC (I)
222245	nad5 exon4	TCA (S) => TTA (L)
222254	nad5 exon4	TCT (S) => TTT (F)
222275	nad5 exon4	CCC (P) => CTC (L)
223492	nad5 exon5	TCA (S) => TTA (L)
223513	nad5 exon5	TCT (S) => TTT (F)
223515	nad5 exon5	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
223555	nad5 exon5	TCG (S) => TTG (L)
235114	nad6 CDS	CTT (L) => TTT (F)
235068	nad6 CDS	GCA (A) => GTA (V)
235033	nad6 CDS	CCC (P) => TTC (F)
235032	nad6 CDS	CCC (P) => TTC (F)
235026	nad6 CDS	CCA (P) => CTA (L)
235018	nad6 CDS	CGC (R) => TGC (C)
234975	nad6 CDS	TCC (S) => TTC (F)
234960	nad6 CDS	CCA (P) => CTA (L)
234952	nad6 CDS	CAT (H) => TAT (Y)
234930	nad6 CDS	TCA (S) => TTA (L)
234832	nad6 CDS	CTT (L) => TTT (F)
234658	nad6 CDS	CCT (P) => TCT (S)
25012	nad7 exon1	TCG (S) => TTG (L)
25051	nad7 exon1	TCA (S) => TTA (L)
25057	nad7 exon1	TCA (S) => TTA (L)
25111	nad7 exon1	TCA (S) => TTA (L)
26087	nad7 exon2	TCT (S) => TTT (F)
27443	nad7 exon3	ACG (T) => ATG (M)
27463	nad7 exon3	CAT (H) => TAT (Y)
27470	nad7 exon3	TCA (S) => TTA (L)
27535	nad7 exon3	CGT (R) => TGT (C)
27554	nad7 exon3	TCA (S) => TTA (L)
27563	nad7 exon3	TCA (S) => TTA (L)
27602	nad7 exon3	TCA (S) => TTA (L)
27611	nad7 exon3	TCC (S) => TTC (F)
27797	nad7 exon3	TCA (S) => TTA (L)
27898	nad7 exon3	CCA (P) => TCA (S)
28972	nad7 exon4	TCG (S) => TTG (L)
28998	nad7 exon4	CAT (H) => TAT (Y)
29008	nad7 exon4	TCG (S) => TTG (L)
29013	nad7 exon4	CCT (P) => TTT (F)
29014	nad7 exon4	CCT (P) => TTT (F)
29043	nad7 exon4	CGC (R) => TGC (C)
29110	nad7 exon4	CCT (P) => CTT (L)
31262	nad7 exon5	TCA (S) => TTA (L)
31309	nad7 exon5	CCT (P) => TCT (S)
31393	nad7 exon5	CGT (R) => TGT (C)
31415	nad7 exon5	TCT (S) => TTT (F)
31424	nad7 exon5	TCA (S) => TTA (L)
31439	nad7 exon5	TCT (S) => TTT (F)
31460	nad7 exon5	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
31502	nad7 exon5	TCT (S) => TTT (F)
257371	nad9 CDS	TCC (S) => TTC (F)
257293	nad9 CDS	TCT (S) => TTT (F)
257218	nad9 CDS	TCG (S) => TTG (L)
257087	nad9 CDS	CCG (P) => TCG (S)
257057	nad9 CDS	CGG (R) => TGG (W)
257017	nad9 CDS	TCC (S) => TTC (F)
256987	nad9 CDS	TCA (S) => TTA (L)
256946	nad9 CDS	CTT (L) => TTT (F)
53352	rpl16 CDS	CAG (Q) => TAG (X)
53204	rpl16 CDS	ACT (T) => ATT (I)
52907	rpl16 CDS	CCA (P) => CTA (L)
52901	rpl16 CDS	TCG (S) => TTG (L)
276828	rpl5 CDS	TCA (S) => TTA (L)
276816	rpl5 CDS	CCG (P) => CTG (L)
276799	rpl5 CDS	CAC (H) => TAC (Y)
276771	rpl5 CDS	TCG (S) => TTG (L)
276694	rpl5 CDS	CGC (R) => TGC (C)
276546	rpl5 CDS	TCG (S) => TTG (L)
276351	rpl5 CDS	CCA (P) => CTA (L)
276348	rpl5 CDS	CCG (P) => CTG (L)
379328	rps10 exon1	ACG (T) => ATG (M)
379564	rps10 exon1	CGG (R) => TGG (W)
380601	rps10 exon2	TCG (S) => TTG (L)
380630	rps10 exon2	CGA (R) => TGA (X)
333361	rps12 CDS	TCG (S) => TTG (L)
333390	rps12 CDS	CGC (R) => TGC (C)
333394	rps12 CDS	CCG (P) => CTG (L)
333436	rps12 CDS	CCA (P) => CTA (L)
333486	rps12 CDS	CAC (H) => TAC (Y)
333511	rps12 CDS	TCG (S) => TTG (L)
333574	rps12 CDS	TCC (S) => TTC (F)
276255	rps14 CDS	GCG (A) => GTG (V)
276108	rps14 CDS	TCC (S) => TTC (F)
276031	rps14 CDS	CCT (P) => TCT (S)
56575	rps3 exon1	CGG (R) => TGG (W)
54459	rps3 exon2	TCA (S) => TTA (L)
54414	rps3 exon2	GCT (A) => GTT (V)
54258	rps3 exon2	TCG (S) => TTG (L)
53940	rps3 exon2	CCA (P) => CTA (L)
53607	rps3 exon2	CCG (P) => CTG (L)
53469	rps3 exon2	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
53416	rps3 exon2	CGT (R) => TGT (C)
53352	rps3 exon2	TCA (S) => TTA (L)
181828	rps4 CDS	TCA (S) => TTA (L)
181817	rps4 CDS	CGG (R) => TGG (W)
181733	rps4 CDS	CCG (P) => TCG (S)
181702	rps4 CDS	TCA (S) => TTA (L)
181682	rps4 CDS	CCC (P) => TCC (S)
181673	rps4 CDS	CAT (H) => TAT (Y)
181600	rps4 CDS	CCA (P) => CTA (L)
181588	rps4 CDS	TCG (S) => TTG (L)
181576	rps4 CDS	CCG (P) => CTG (L)
181559	rps4 CDS	CGT (R) => TGT (C)
181531	rps4 CDS	CCG (P) => CTG (L)
181384	rps4 CDS	TCA (S) => TTA (L)
180949	rps4 CDS	TCG (S) => TTG (L)
180938	rps4 CDS	CAT (H) => TAT (Y)
180928	rps4 CDS	CCA (P) => CTA (L)
180862	rps4 CDS	CCA (P) => CTA (L)
180853	rps4 CDS	CCT (P) => CTT (L)
180848	rps4 CDS	CGG (R) => TGG (W)

Table S8. Predicted RNA editing sites of the mitochondrial genome of *Medicago truncatula*

Position	CDS/exon name	codon/AA change
56523	atp1 CDS	CCA (P) => CTA (L)
136930	atp4 CDS	CCA (P) => CTA (L)
136933	atp4 CDS	TCT (S) => TTT (F)
136963	atp4 CDS	TCA (S) => TTA (L)
136992	atp4 CDS	CGT (R) => TGT (C)
137089	atp4 CDS	TCG (S) => TTG (L)
137100	atp4 CDS	CCC (P) => TTC (F)
137101	atp4 CDS	CCC (P) => TTC (F)
137122	atp4 CDS	CCT (P) => CTT (L)
137269	atp4 CDS	TCA (S) => TTA (L)
137281	atp4 CDS	CCA (P) => CTA (L)
137290	atp4 CDS	ACT (T) => ATT (I)
137364	atp4 CDS	CCC (P) => TCC (S)
243461	atp6 CDS	TCA (S) => TTA (L)
242922	atp6 CDS	CAT (H) => TAT (Y)
242915	atp6 CDS	TCT (S) => TTT (F)
242868	atp6 CDS	CAA (Q) => TAA (X)
244581	atp8 CDS	TCA (S) => TTA (L)
244570	atp8 CDS	CTC (L) => TTC (F)
244173	atp8 CDS	CCA (P) => CTA (L)
254169	atp9 CDS	TCA (S) => TTA (L)
254139	atp9 CDS	TCA (S) => TTA (L)
17787	ccmB CDS	CCC (P) => TCC (S)
17759	ccmB CDS	CCA (P) => CTA (L)
17750	ccmB CDS	TCG (S) => TTG (L)
17702	ccmB CDS	TCA (S) => TTA (L)
17693	ccmB CDS	TCC (S) => TTC (F)
17681	ccmB CDS	CCG (P) => CTG (L)
17676	ccmB CDS	CGG (R) => TGG (W)
17670	ccmB CDS	CCT (P) => TCT (S)
17666	ccmB CDS	TCG (S) => TTG (L)
17651	ccmB CDS	CCT (P) => CTT (L)
17649	ccmB CDS	CCC (P) => TCC (S)
17637	ccmB CDS	CCT (P) => TTT (F)
17636	ccmB CDS	CCT (P) => TTT (F)
17544	ccmB CDS	CGG (R) => TGG (W)
17492	ccmB CDS	CCG (P) => CTG (L)
17463	ccmB CDS	CGG (R) => TGG (W)
17406	ccmB CDS	CGT (R) => TGT (C)
17363	ccmB CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
17354	ccmB CDS	CCA (P) => CTA (L)
17345	ccmB CDS	TCA (S) => TTA (L)
17336	ccmB CDS	TCA (S) => TTA (L)
17327	ccmB CDS	CCA (P) => CTA (L)
17318	ccmB CDS	TCT (S) => TTT (F)
17316	ccmB CDS	CGT (R) => TGT (C)
17279	ccmB CDS	TCA (S) => TTA (L)
17276	ccmB CDS	TCG (S) => TTG (L)
17264	ccmB CDS	TCC (S) => TTC (F)
17261	ccmB CDS	TCT (S) => TTT (F)
17258	ccmB CDS	CCG (P) => CTG (L)
21905	ccmC CDS	CGG (R) => TGG (W)
21932	ccmC CDS	CAT (H) => TAT (Y)
21944	ccmC CDS	CGG (R) => TGG (W)
21962	ccmC CDS	CTT (L) => TTT (F)
22008	ccmC CDS	GCG (A) => GTG (V)
22013	ccmC CDS	CGG (R) => TGG (W)
22110	ccmC CDS	ACA (T) => ATA (I)
22160	ccmC CDS	CGG (R) => TGG (W)
22224	ccmC CDS	TCG (S) => TTG (L)
22229	ccmC CDS	CTT (L) => TTT (F)
22250	ccmC CDS	CGT (R) => TGT (C)
22265	ccmC CDS	CCT (P) => TCT (S)
22275	ccmC CDS	CCG (P) => CTG (L)
22280	ccmC CDS	CCT (P) => TCT (S)
22287	ccmC CDS	TCA (S) => TTA (L)
22292	ccmC CDS	CGT (R) => TGT (C)
22296	ccmC CDS	GCT (A) => GTT (V)
22302	ccmC CDS	CCG (P) => CTG (L)
22326	ccmC CDS	TCT (S) => TTT (F)
22377	ccmC CDS	TCT (S) => TTT (F)
22397	ccmC CDS	CCT (P) => TCT (S)
22404	ccmC CDS	CCC (P) => CTC (L)
22437	ccmC CDS	CCC (P) => CTC (L)
22439	ccmC CDS	CTC (L) => TTC (F)
22443	ccmC CDS	TCA (S) => TTA (L)
22448	ccmC CDS	CGT (R) => TGT (C)
22479	ccmC CDS	CCT (P) => CTT (L)
22502	ccmC CDS	CCT (P) => TCT (S)
185604	ccmFc exon1	TCT (S) => TTT (F)
185616	ccmFc exon1	CCT (P) => CTT (L)
185618	ccmFc exon1	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
185669	ccmFc exon1	CCC (P) => TCC (S)
185688	ccmFc exon1	TCC (S) => TTC (F)
185717	ccmFc exon1	CCT (P) => TCT (S)
185721	ccmFc exon1	TCA (S) => TTA (L)
185726	ccmFc exon1	CCT (P) => TCT (S)
185871	ccmFc exon1	TCA (S) => TTA (L)
185876	ccmFc exon1	CGT (R) => TGT (C)
185972	ccmFc exon1	CGT (R) => TGT (C)
185978	ccmFc exon1	CTC (L) => TTC (F)
186272	ccmFc exon1	CAC (H) => TAC (Y)
186282	ccmFc exon1	GCT (A) => GTT (V)
187411	ccmFc exon2	TCT (S) => TTT (F)
187672	ccmFc exon2	CCA (P) => CTA (L)
187693	ccmFc exon2	TCG (S) => TTG (L)
187767	ccmFc exon2	CGG (R) => TGG (W)
187792	ccmFc exon2	TCG (S) => TTG (L)
187848	ccmFc exon2	CGA (R) => TGA (X)
45288	ccmFn CDS	CCG (P) => CTG (L)
45348	ccmFn CDS	CCT (P) => CTT (L)
45387	ccmFn CDS	TCG (S) => TTG (L)
45392	ccmFn CDS	CGT (R) => TGT (C)
45401	ccmFn CDS	CCT (P) => TCT (S)
45498	ccmFn CDS	TCA (S) => TTA (L)
45506	ccmFn CDS	CGG (R) => TGG (W)
45513	ccmFn CDS	CCA (P) => CTA (L)
45533	ccmFn CDS	CTT (L) => TTT (F)
45584	ccmFn CDS	CAT (H) => TAT (Y)
45612	ccmFn CDS	TCG (S) => TTG (L)
45725	ccmFn CDS	CGT (R) => TGT (C)
45806	ccmFn CDS	CCT (P) => TTT (F)
45807	ccmFn CDS	CCT (P) => TTT (F)
45956	ccmFn CDS	CCT (P) => TTT (F)
45957	ccmFn CDS	CCT (P) => TTT (F)
45966	ccmFn CDS	TCA (S) => TTA (L)
46004	ccmFn CDS	CGT (R) => TGT (C)
46026	ccmFn CDS	TCA (S) => TTA (L)
46038	ccmFn CDS	CCA (P) => CTA (L)
46053	ccmFn CDS	TCA (S) => TTA (L)
46202	ccmFn CDS	CGC (R) => TGC (C)
46520	ccmFn CDS	CGG (R) => TGG (W)
46548	ccmFn CDS	CCA (P) => CTA (L)
46565	ccmFn CDS	CAT (H) => TAT (Y)

Position	CDS/exon name	codon/AA change
46580	ccmFn CDS	CGG (R) => TGG (W)
46598	ccmFn CDS	CGG (R) => TGG (W)
46649	ccmFn CDS	CGT (R) => TGT (C)
46692	ccmFn CDS	TCG (S) => TTG (L)
46712	ccmFn CDS	CTT (L) => TTT (F)
46716	ccmFn CDS	CCA (P) => CTA (L)
46728	ccmFn CDS	TCA (S) => TTA (L)
46811	ccmFn CDS	CGG (R) => TGG (W)
94781	cob CDS	CTC (L) => TTC (F)
94793	cob CDS	CAC (H) => TAC (Y)
94820	cob CDS	CAT (H) => TAT (Y)
94853	cob CDS	CGG (R) => TGG (W)
94902	cob CDS	ACA (T) => ATA (I)
94914	cob CDS	CCA (P) => CTA (L)
95063	cob CDS	CAT (H) => TAT (Y)
95303	cob CDS	CCC (P) => TCC (S)
95348	cob CDS	CAT (H) => TAT (Y)
95403	cob CDS	CCT (P) => CTT (L)
95477	cob CDS	CAC (H) => TAC (Y)
95510	cob CDS	CGC (R) => TGC (C)
95576	cob CDS	CCT (P) => TCT (S)
95579	cob CDS	CCT (P) => TCT (S)
95619	cob CDS	CCG (P) => CTG (L)
179208	cox1 CDS	CCG (P) => CTG (L)
179439	cox1 CDS	TCT (S) => TTT (F)
179451	cox1 CDS	TCT (S) => TTT (F)
179640	cox1 CDS	TCA (S) => TTA (L)
179649	cox1 CDS	TCT (S) => TTT (F)
179712	cox1 CDS	TCC (S) => TTC (F)
179748	cox1 CDS	TCA (S) => TTA (L)
179772	cox1 CDS	CCA (P) => CTA (L)
179787	cox1 CDS	CCA (P) => CTA (L)
179865	cox1 CDS	TCT (S) => TTT (F)
179912	cox1 CDS	CGG (R) => TGG (W)
179943	cox1 CDS	CCA (P) => CTA (L)
179958	cox1 CDS	TCC (S) => TTC (F)
180276	cox1 CDS	CCG (P) => CTG (L)
180383	cox1 CDS	CAC (H) => TAC (Y)
180476	cox1 CDS	CTC (L) => TTC (F)
180599	cox1 CDS	CGT (R) => TGT (C)
180602	cox1 CDS	CGT (R) => TGT (C)
180630	cox1 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
203499	cox3 CDS	CCT (P) => CTT (L)
203511	cox3 CDS	TCT (S) => TTT (F)
203517	cox3 CDS	CCG (P) => CTG (L)
203543	cox3 CDS	CTT (L) => TTT (F)
203558	cox3 CDS	CGG (R) => TGG (W)
203565	cox3 CDS	TCT (S) => TTT (F)
203568	cox3 CDS	TCT (S) => TTT (F)
203642	cox3 CDS	CGG (R) => TGG (W)
203667	cox3 CDS	CCT (P) => CTT (L)
203766	cox3 CDS	TCA (S) => TTA (L)
204008	cox3 CDS	CGG (R) => TGG (W)
204018	cox3 CDS	CCA (P) => CTA (L)
110836	matR CDS	TCC (S) => TTC (F)
110783	matR CDS	CGC (R) => TGC (C)
110675	matR CDS	CCA (P) => TCA (S)
110632	matR CDS	TCC (S) => TTC (F)
110542	matR CDS	CCA (P) => CTA (L)
109798	matR CDS	CCC (P) => CTC (L)
109447	matR CDS	GCA (A) => GTA (V)
109177	matR CDS	TCT (S) => TTT (F)
109156	matR CDS	CCT (P) => CTT (L)
109100	matR CDS	CAC (H) => TAC (Y)
109030	matR CDS	CCC (P) => CTC (L)
109012	matR CDS	TCA (S) => TTA (L)
157159	mttB CDS	CGG (R) => TGG (W)
157123	mttB CDS	CGT (R) => TGT (C)
157111	mttB CDS	CCG (P) => TCG (S)
157095	mttB CDS	TCT (S) => TTT (F)
157092	mttB CDS	CCA (P) => CTA (L)
157035	mttB CDS	TCA (S) => TTA (L)
157023	mttB CDS	TCC (S) => TTC (F)
157021	mttB CDS	CCG (P) => TCG (S)
156961	mttB CDS	CAT (H) => TAT (Y)
156895	mttB CDS	CTC (L) => TTC (F)
156879	mttB CDS	TCT (S) => TTT (F)
156877	mttB CDS	CGC (R) => TGC (C)
156870	mttB CDS	TCC (S) => TTC (F)
156847	mttB CDS	CCC (P) => TCC (S)
156844	mttB CDS	CGG (R) => TGG (W)
156786	mttB CDS	TCG (S) => TTG (L)
156751	mttB CDS	CAT (H) => TAT (Y)
156726	mttB CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
156718	mttB CDS	CCA (P) => TCA (S)
156675	mttB CDS	CCA (P) => CTA (L)
156669	mttB CDS	CCA (P) => CTA (L)
156613	mttB CDS	CCG (P) => TCG (S)
156556	mttB CDS	CGT (R) => TGT (C)
156540	mttB CDS	TCG (S) => TTG (L)
156510	mttB CDS	TCG (S) => TTG (L)
249307	nad1 exon1	ACG (T) => ATG (M)
249520	nad1 exon1	TCC (S) => TTC (F)
249570	nad1 exon1	CGG (R) => TGG (W)
249613	nad1 exon1	TCG (S) => TTG (L)
249673	nad1 exon1	ACA (T) => ATA (I)
183775	nad1 exon3	CCC (P) => TCC (S)
183778	nad1 exon3	CGT (R) => TGT (C)
183785	nad1 exon3	TCG (S) => TTG (L)
183821	nad1 exon3	TCC (S) => TTC (F)
183865	nad1 exon3	CGT (R) => TGT (C)
183920	nad1 exon3	TCA (S) => TTA (L)
111564	nad1 exon4	TCT (S) => TTT (F)
108358	nad1 exon5	CCA (P) => CTA (L)
108343	nad1 exon5	TCT (S) => TTT (F)
108340	nad1 exon5	CCA (P) => CTA (L)
108328	nad1 exon5	CCG (P) => CTG (L)
108185	nad1 exon5	CGG (R) => TGG (W)
108155	nad1 exon5	CGG (R) => TGG (W)
108130	nad1 exon5	TCA (S) => TTA (L)
121361	nad2 exon1	TCC (S) => TTC (F)
119863	nad2 exon2	CGG (R) => TGG (W)
119815	nad2 exon2	CTT (L) => TTT (F)
119769	nad2 exon2	TCT (S) => TTT (F)
119766	nad2 exon2	TCC (S) => TTC (F)
119721	nad2 exon2	CCA (P) => CTA (L)
119716	nad2 exon2	CCT (P) => TCT (S)
119710	nad2 exon2	CGC (R) => TGC (C)
119683	nad2 exon2	CAT (H) => TAT (Y)
119676	nad2 exon2	TCA (S) => TTA (L)
119649	nad2 exon2	CCT (P) => CTT (L)
119580	nad2 exon2	TCG (S) => TTG (L)
266356	nad2 exon3	TCT (S) => TTT (F)
266371	nad2 exon3	TCC (S) => TTC (F)
268630	nad2 exon4	TCA (S) => TTA (L)
268639	nad2 exon4	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
268750	nad2 exon4	CCT (P) => CTT (L)
268758	nad2 exon4	CAT (H) => TAT (Y)
268788	nad2 exon4	CGT (R) => TGT (C)
268792	nad2 exon4	ACT (T) => ATT (I)
268957	nad2 exon4	TCG (S) => TTG (L)
269077	nad2 exon4	CCA (P) => CTA (L)
270611	nad2 exon5	GCG (A) => GTG (V)
270713	nad2 exon5	TCA (S) => TTA (L)
270716	nad2 exon5	TCC (S) => TTC (F)
270722	nad2 exon5	CCA (P) => CTA (L)
270770	nad2 exon5	TCA (S) => TTA (L)
225786	nad3 CDS	TCA (S) => TTA (L)
225861	nad3 CDS	CCC (P) => CTC (L)
225989	nad3 CDS	CCT (P) => TTT (F)
225990	nad3 CDS	CCT (P) => TTT (F)
225996	nad3 CDS	CCG (P) => CTG (L)
226011	nad3 CDS	TCC (S) => TTC (F)
226028	nad3 CDS	CCT (P) => TCT (S)
226032	nad3 CDS	CCC (P) => CTC (L)
226047	nad3 CDS	CCG (P) => CTG (L)
226056	nad3 CDS	TCT (S) => TTT (F)
226098	nad3 CDS	TCT (S) => TTT (F)
226125	nad3 CDS	TCG (S) => TTG (L)
226130	nad3 CDS	CGG (R) => TGG (W)
215015	nad4 exon1	TCT (S) => TTT (F)
215030	nad4 exon1	CCT (P) => CTT (L)
215063	nad4 exon1	CCT (P) => CTT (L)
215093	nad4 exon1	CCG (P) => CTG (L)
215144	nad4 exon1	CCT (P) => CTT (L)
215150	nad4 exon1	CCT (P) => CTT (L)
215152	nad4 exon1	CGG (R) => TGG (W)
215183	nad4 exon1	TCT (S) => TTT (F)
215233	nad4 exon1	CAT (H) => TAT (Y)
215348	nad4 exon1	ACA (T) => ATA (I)
215354	nad4 exon1	TCT (S) => TTT (F)
215362	nad4 exon1	CGT (R) => TGT (C)
215389	nad4 exon1	CGC (R) => TGC (C)
215402	nad4 exon1	CCT (P) => CTT (L)
215419	nad4 exon1	CTT (L) => TTT (F)
215422	nad4 exon1	CCC (P) => TTC (F)
215423	nad4 exon1	CCC (P) => TTC (F)
216999	nad4 exon2	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
217050	nad4 exon2	TCT (S) => TTT (F)
217158	nad4 exon2	CCT (P) => CTT (L)
217161	nad4 exon2	TCA (S) => TTA (L)
217175	nad4 exon2	CAC (H) => TAC (Y)
217227	nad4 exon2	TCC (S) => TTC (F)
217248	nad4 exon2	CCA (P) => CTA (L)
217287	nad4 exon2	TCA (S) => TTA (L)
220552	nad4 exon3	CCG (P) => CTG (L)
220582	nad4 exon3	CCA (P) => CTA (L)
220585	nad4 exon3	CCG (P) => CTG (L)
220608	nad4 exon3	CCT (P) => TCT (S)
220704	nad4 exon3	CTC (L) => TTC (F)
220717	nad4 exon3	TCC (S) => TTC (F)
220723	nad4 exon3	TCT (S) => TTT (F)
220726	nad4 exon3	TCC (S) => TTC (F)
220747	nad4 exon3	TCA (S) => TTA (L)
220780	nad4 exon3	CCC (P) => CTC (L)
220786	nad4 exon3	TCA (S) => TTA (L)
220930	nad4 exon3	CCA (P) => CTA (L)
220948	nad4 exon3	TCC (S) => TTC (F)
223558	nad4 exon4	CGG (R) => TGG (W)
223570	nad4 exon4	CAC (H) => TAC (Y)
223586	nad4 exon4	CCG (P) => CTG (L)
223591	nad4 exon4	CGC (R) => TGC (C)
136382	nad4L CDS	ACG (T) => ATG (M)
136388	nad4L CDS	CCT (P) => CTT (L)
136421	nad4L CDS	TCT (S) => TTT (F)
136435	nad4L CDS	CGG (R) => TGG (W)
136466	nad4L CDS	CCT (P) => CTT (L)
136475	nad4L CDS	TCA (S) => TTA (L)
136480	nad4L CDS	CCA (P) => TCA (S)
136490	nad4L CDS	TCA (S) => TTA (L)
136511	nad4L CDS	TCG (S) => TTG (L)
136538	nad4L CDS	TCG (S) => TTG (L)
136559	nad4L CDS	TCA (S) => TTA (L)
136568	nad4L CDS	TCA (S) => TTA (L)
136577	nad4L CDS	TCA (S) => TTA (L)
32328	nad5 exon1	CCG (P) => CTG (L)
33313	nad5 exon2	CCG (P) => CTG (L)
33343	nad5 exon2	TCC (S) => TTC (F)
33429	nad5 exon2	CTT (L) => TTT (F)
33445	nad5 exon2	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
33469	nad5 exon2	TCT (S) => TTT (F)
33565	nad5 exon2	ACA (T) => ATA (I)
33577	nad5 exon2	CCT (P) => CTT (L)
33610	nad5 exon2	CCT (P) => CTT (L)
33624	nad5 exon2	CGT (R) => TGT (C)
33669	nad5 exon2	CGT (R) => TGT (C)
33700	nad5 exon2	TCT (S) => TTT (F)
33747	nad5 exon2	CTT (L) => TTT (F)
33784	nad5 exon2	TCG (S) => TTG (L)
33796	nad5 exon2	TCA (S) => TTA (L)
33906	nad5 exon2	CCA (P) => TCA (S)
33934	nad5 exon2	TCT (S) => TTT (F)
33946	nad5 exon2	ACG (T) => ATG (M)
34381	nad5 exon2	TCA (S) => TTA (L)
98617	nad5 exon4	CCC (P) => CTC (L)
98677	nad5 exon4	ACC (T) => ATC (I)
98707	nad5 exon4	TCA (S) => TTA (L)
98716	nad5 exon4	TCT (S) => TTT (F)
98737	nad5 exon4	CCC (P) => CTC (L)
99937	nad5 exon5	TCA (S) => TTA (L)
99958	nad5 exon5	TCT (S) => TTT (F)
99960	nad5 exon5	CGT (R) => TGT (C)
100000	nad5 exon5	TCG (S) => TTG (L)
140442	nad6 CDS	CTT (L) => TTT (F)
140488	nad6 CDS	GCA (A) => GTA (V)
140523	nad6 CDS	CCC (P) => TTC (F)
140524	nad6 CDS	CCC (P) => TTC (F)
140530	nad6 CDS	CCA (P) => CTA (L)
140538	nad6 CDS	CGC (R) => TGC (C)
140581	nad6 CDS	TCC (S) => TTC (F)
140596	nad6 CDS	CCA (P) => CTA (L)
140604	nad6 CDS	CAT (H) => TAT (Y)
140626	nad6 CDS	TCA (S) => TTA (L)
140724	nad6 CDS	CTT (L) => TTT (F)
129335	nad7 exon1	TCG (S) => TTG (L)
129374	nad7 exon1	TCA (S) => TTA (L)
129380	nad7 exon1	TCA (S) => TTA (L)
129434	nad7 exon1	TCA (S) => TTA (L)
130394	nad7 exon2	TCT (S) => TTT (F)
131771	nad7 exon3	ACG (T) => ATG (M)
131791	nad7 exon3	CAT (H) => TAT (Y)
131798	nad7 exon3	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
131863	nad7 exon3	CGT (R) => TGT (C)
131882	nad7 exon3	TCA (S) => TTA (L)
131891	nad7 exon3	TCA (S) => TTA (L)
131930	nad7 exon3	TCA (S) => TTA (L)
131939	nad7 exon3	TCC (S) => TTC (F)
132125	nad7 exon3	TCA (S) => TTA (L)
132226	nad7 exon3	CCA (P) => TCA (S)
133273	nad7 exon4	TCG (S) => TTG (L)
133299	nad7 exon4	CAT (H) => TAT (Y)
133309	nad7 exon4	TCG (S) => TTG (L)
133314	nad7 exon4	CCT (P) => TTT (F)
133315	nad7 exon4	CCT (P) => TTT (F)
133344	nad7 exon4	CGC (R) => TGC (C)
133411	nad7 exon4	CCT (P) => CTT (L)
135493	nad7 exon5	TCA (S) => TTA (L)
135540	nad7 exon5	CCT (P) => TCT (S)
135624	nad7 exon5	CGT (R) => TGT (C)
135646	nad7 exon5	TCT (S) => TTT (F)
135655	nad7 exon5	TCA (S) => TTA (L)
135670	nad7 exon5	TCT (S) => TTT (F)
135691	nad7 exon5	CCA (P) => CTA (L)
135733	nad7 exon5	TCT (S) => TTT (F)
69353	nad9 CDS	TCG (S) => TTG (L)
69484	nad9 CDS	CCG (P) => TCG (S)
69514	nad9 CDS	CGG (R) => TGG (W)
69554	nad9 CDS	TCC (S) => TTC (F)
69584	nad9 CDS	TCA (S) => TTA (L)
69625	nad9 CDS	CTT (L) => TTT (F)
69763	nad9 CDS	CAG (Q) => TAG (X)
82313	rpl16 CDS	CAG (Q) => TAG (X)
82464	rpl16 CDS	ACT (T) => ATT (I)
82761	rpl16 CDS	CCA (P) => CTA (L)
82767	rpl16 CDS	TCG (S) => TTG (L)
92758	rpl5 CDS	TCA (S) => TTA (L)
92770	rpl5 CDS	CCG (P) => CTG (L)
92787	rpl5 CDS	CAC (H) => TAC (Y)
92892	rpl5 CDS	CGC (R) => TGC (C)
93040	rpl5 CDS	TCG (S) => TTG (L)
93235	rpl5 CDS	CCA (P) => CTA (L)
93238	rpl5 CDS	CCG (P) => CTG (L)
177951	rps10 exon1	CGG (R) => TGG (W)
178939	rps10 exon2	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
178968	rps10 exon2	CGA (R) => TGA (X)
226257	rps12 CDS	TCG (S) => TTG (L)
226286	rps12 CDS	CGC (R) => TGC (C)
226290	rps12 CDS	CCG (P) => CTG (L)
226382	rps12 CDS	CAC (H) => TAC (Y)
226407	rps12 CDS	TCG (S) => TTG (L)
226470	rps12 CDS	TCC (S) => TTC (F)
93331	rps14 CDS	GCG (A) => GTG (V)
93478	rps14 CDS	TCC (S) => TTC (F)
93555	rps14 CDS	CCT (P) => TCT (S)
78995	rps3 exon1	CGG (R) => TGG (W)
81221	rps3 exon2	TCA (S) => TTA (L)
81260	rps3 exon2	GCT (A) => GTT (V)
81407	rps3 exon2	TCG (S) => TTG (L)
81725	rps3 exon2	CCA (P) => CTA (L)
82058	rps3 exon2	CCG (P) => CTG (L)
82196	rps3 exon2	TCA (S) => TTA (L)
82249	rps3 exon2	CGT (R) => TGT (C)
82313	rps3 exon2	TCA (S) => TTA (L)
227329	rps4 CDS	TCA (S) => TTA (L)
227340	rps4 CDS	CGG (R) => TGG (W)
227424	rps4 CDS	CCG (P) => TCG (S)
227455	rps4 CDS	TCA (S) => TTA (L)
227475	rps4 CDS	CCC (P) => TCC (S)
227484	rps4 CDS	CAT (H) => TAT (Y)
227557	rps4 CDS	CCA (P) => CTA (L)
227569	rps4 CDS	TCG (S) => TTG (L)
227581	rps4 CDS	CCG (P) => CTG (L)
227598	rps4 CDS	CGT (R) => TGT (C)
227626	rps4 CDS	CCG (P) => CTG (L)
227773	rps4 CDS	TCA (S) => TTA (L)
228217	rps4 CDS	TCG (S) => TTG (L)
228228	rps4 CDS	CAT (H) => TAT (Y)
228238	rps4 CDS	CCA (P) => CTA (L)
228304	rps4 CDS	CCA (P) => CTA (L)
228313	rps4 CDS	CCT (P) => CTT (L)
228318	rps4 CDS	CGG (R) => TGG (W)

Table S9. Predicted RNA editing sites of the mitochondrial genome of *Pongamia pinnata*

Position	CDS/exon name	codon/AA change
27622	atp1 CDS	CCT (P) => TCT (S)
27531	atp1 CDS	CCA (P) => CTA (L)
81524	atp4 CDS	CCA (P) => CTA (L)
81527	atp4 CDS	TCT (S) => TTT (F)
81557	atp4 CDS	TCA (S) => TTA (L)
81586	atp4 CDS	CGT (R) => TGT (C)
81683	atp4 CDS	TCG (S) => TTG (L)
81694	atp4 CDS	CCC (P) => TTC (F)
81695	atp4 CDS	CCC (P) => TTC (F)
81716	atp4 CDS	CCT (P) => CTT (L)
81863	atp4 CDS	TCA (S) => TTA (L)
81875	atp4 CDS	CCA (P) => CTA (L)
81884	atp4 CDS	ACT (T) => ATT (I)
81958	atp4 CDS	CCC (P) => TCC (S)
336115	atp6 CDS	CCC (P) => TCC (S)
336036	atp6 CDS	TCA (S) => TTA (L)
335985	atp6 CDS	CCG (P) => CTG (L)
335925	atp6 CDS	TCG (S) => TTG (L)
335907	atp6 CDS	TCG (S) => TTG (L)
335892	atp6 CDS	CCC (P) => CTC (L)
335760	atp6 CDS	TCA (S) => TTA (L)
335701	atp6 CDS	CCT (P) => TCT (S)
335698	atp6 CDS	CAT (H) => TAT (Y)
335676	atp6 CDS	TCA (S) => TTA (L)
335634	atp6 CDS	TCA (S) => TTA (L)
335613	atp6 CDS	TCC (S) => TTC (F)
335505	atp6 CDS	TCA (S) => TTA (L)
335497	atp6 CDS	CAT (H) => TAT (Y)
335490	atp6 CDS	TCT (S) => TTT (F)
335481	atp6 CDS	TCA (S) => TTA (L)
335443	atp6 CDS	CAA (Q) => TAA (X)
107935	atp8 CDS	TCA (S) => TTA (L)
107924	atp8 CDS	CTC (L) => TTC (F)
107527	atp8 CDS	CCA (P) => CTA (L)
248255	atp9 CDS	TCA (S) => TTA (L)
248225	atp9 CDS	TCA (S) => TTA (L)
7189	ccmB CDS	CCC (P) => TCC (S)
7217	ccmB CDS	CCA (P) => CTA (L)
7226	ccmB CDS	TCG (S) => TTG (L)
7274	ccmB CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
7283	ccmB CDS	TCC (S) => TTC (F)
7295	ccmB CDS	CCG (P) => CTG (L)
7300	ccmB CDS	CGG (R) => TGG (W)
7306	ccmB CDS	CCC (P) => TCC (S)
7310	ccmB CDS	TCG (S) => TTG (L)
7325	ccmB CDS	CCT (P) => CTT (L)
7327	ccmB CDS	CCC (P) => TCC (S)
7339	ccmB CDS	CCT (P) => TTT (F)
7340	ccmB CDS	CCT (P) => TTT (F)
7432	ccmB CDS	CGG (R) => TGG (W)
7484	ccmB CDS	CCG (P) => CTG (L)
7513	ccmB CDS	CGG (R) => TGG (W)
7526	ccmB CDS	CCA (P) => CTA (L)
7570	ccmB CDS	CGT (R) => TGT (C)
7613	ccmB CDS	TCG (S) => TTG (L)
7622	ccmB CDS	CCA (P) => CTA (L)
7631	ccmB CDS	TCA (S) => TTA (L)
7640	ccmB CDS	TCA (S) => TTA (L)
7649	ccmB CDS	CCA (P) => CTA (L)
7658	ccmB CDS	TCT (S) => TTT (F)
7660	ccmB CDS	CGT (R) => TGT (C)
7697	ccmB CDS	TCA (S) => TTA (L)
7700	ccmB CDS	TCG (S) => TTG (L)
7712	ccmB CDS	TCC (S) => TTC (F)
7715	ccmB CDS	TCT (S) => TTT (F)
7718	ccmB CDS	CCG (P) => CTG (L)
264725	ccmC CDS	CGG (R) => TGG (W)
264698	ccmC CDS	CAT (H) => TAT (Y)
264686	ccmC CDS	CGG (R) => TGG (W)
264668	ccmC CDS	CTT (L) => TTT (F)
264622	ccmC CDS	GCG (A) => GTG (V)
264617	ccmC CDS	CGG (R) => TGG (W)
264520	ccmC CDS	ACA (T) => ATA (I)
264470	ccmC CDS	CGG (R) => TGG (W)
264406	ccmC CDS	TCG (S) => TTG (L)
264380	ccmC CDS	CGT (R) => TGT (C)
264365	ccmC CDS	CCT (P) => TCT (S)
264355	ccmC CDS	CCG (P) => CTG (L)
264350	ccmC CDS	CCT (P) => TCT (S)
264343	ccmC CDS	TCA (S) => TTA (L)
264338	ccmC CDS	CGT (R) => TGT (C)
264334	ccmC CDS	GCT (A) => GTT (V)

Position	CDS/exon name	codon/AA change
264328	ccmC CDS	CCG (P) => CTG (L)
264304	ccmC CDS	TCT (S) => TTT (F)
264253	ccmC CDS	TCT (S) => TTT (F)
264233	ccmC CDS	CCT (P) => TCT (S)
264226	ccmC CDS	CCC (P) => CTC (L)
264193	ccmC CDS	CCC (P) => CTC (L)
264191	ccmC CDS	CTC (L) => TTC (F)
264187	ccmC CDS	TCA (S) => TTA (L)
264151	ccmC CDS	CCT (P) => CTT (L)
264128	ccmC CDS	CCT (P) => TCT (S)
326358	ccmFc exon1	TCT (S) => TTT (F)
326370	ccmFc exon1	CCT (P) => CTT (L)
326372	ccmFc exon1	CGT (R) => TGT (C)
326423	ccmFc exon1	CCC (P) => TCC (S)
326442	ccmFc exon1	TCC (S) => TTC (F)
326471	ccmFc exon1	CCT (P) => TCT (S)
326475	ccmFc exon1	TCA (S) => TTA (L)
326480	ccmFc exon1	CCT (P) => TCT (S)
326625	ccmFc exon1	TCA (S) => TTA (L)
326630	ccmFc exon1	CGT (R) => TGT (C)
326726	ccmFc exon1	CGT (R) => TGT (C)
326732	ccmFc exon1	CTC (L) => TTC (F)
327032	ccmFc exon1	CAC (H) => TAC (Y)
327042	ccmFc exon1	GCT (A) => GTT (V)
331289	ccmFc exon2	TCT (S) => TTT (F)
331550	ccmFc exon2	CCA (P) => CTA (L)
331571	ccmFc exon2	TCG (S) => TTG (L)
331645	ccmFc exon2	CGG (R) => TGG (W)
331670	ccmFc exon2	TCG (S) => TTG (L)
331726	ccmFc exon2	CGA (R) => TGA (X)
47806	ccmFn CDS	CCG (P) => CTG (L)
47746	ccmFn CDS	CCT (P) => CTT (L)
47707	ccmFn CDS	TCG (S) => TTG (L)
47702	ccmFn CDS	CGT (R) => TGT (C)
47693	ccmFn CDS	CCT (P) => TCT (S)
47596	ccmFn CDS	TCA (S) => TTA (L)
47588	ccmFn CDS	CGG (R) => TGG (W)
47581	ccmFn CDS	CCA (P) => CTA (L)
47561	ccmFn CDS	CTT (L) => TTT (F)
47510	ccmFn CDS	CAT (H) => TAT (Y)
47482	ccmFn CDS	TCG (S) => TTG (L)
47369	ccmFn CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
47294	ccmFn CDS	CCT (P) => TTT (F)
47293	ccmFn CDS	CCT (P) => TTT (F)
47144	ccmFn CDS	CCT (P) => TTT (F)
47143	ccmFn CDS	CCT (P) => TTT (F)
47134	ccmFn CDS	TCA (S) => TTA (L)
47096	ccmFn CDS	CGT (R) => TGT (C)
47074	ccmFn CDS	TCA (S) => TTA (L)
47062	ccmFn CDS	CCA (P) => CTA (L)
47047	ccmFn CDS	TCA (S) => TTA (L)
46898	ccmFn CDS	CGC (R) => TGC (C)
46580	ccmFn CDS	CGG (R) => TGG (W)
46552	ccmFn CDS	CCA (P) => CTA (L)
46535	ccmFn CDS	CAT (H) => TAT (Y)
46520	ccmFn CDS	CGG (R) => TGG (W)
46502	ccmFn CDS	CGG (R) => TGG (W)
46451	ccmFn CDS	CGT (R) => TGT (C)
46408	ccmFn CDS	TCG (S) => TTG (L)
46388	ccmFn CDS	CTT (L) => TTT (F)
46384	ccmFn CDS	CCA (P) => CTA (L)
46372	ccmFn CDS	TCA (S) => TTA (L)
46289	ccmFn CDS	CGG (R) => TGG (W)
379990	cob CDS	CTC (L) => TTC (F)
380002	cob CDS	CAC (H) => TAC (Y)
380029	cob CDS	CAT (H) => TAT (Y)
380062	cob CDS	CGG (R) => TGG (W)
380111	cob CDS	ACA (T) => ATA (I)
380272	cob CDS	CAT (H) => TAT (Y)
380512	cob CDS	CCC (P) => TCC (S)
380557	cob CDS	CAT (H) => TAT (Y)
380612	cob CDS	CCA (P) => CTA (L)
380686	cob CDS	CAC (H) => TAC (Y)
380719	cob CDS	CGC (R) => TGC (C)
380785	cob CDS	CCT (P) => TCT (S)
380788	cob CDS	CCT (P) => TCT (S)
380828	cob CDS	CCG (P) => CTG (L)
11	cox1 CDS	CCG (P) => CTG (L)
242	cox1 CDS	TCT (S) => TTT (F)
254	cox1 CDS	TCT (S) => TTT (F)
443	cox1 CDS	TCA (S) => TTA (L)
452	cox1 CDS	TCT (S) => TTT (F)
515	cox1 CDS	TCC (S) => TTC (F)
551	cox1 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
575	cox1 CDS	CCA (P) => CTA (L)
590	cox1 CDS	CCA (P) => CTA (L)
668	cox1 CDS	TCT (S) => TTT (F)
715	cox1 CDS	CGG (R) => TGG (W)
746	cox1 CDS	CCC (P) => CTC (L)
761	cox1 CDS	TCC (S) => TTC (F)
1079	cox1 CDS	CCG (P) => CTG (L)
1186	cox1 CDS	CAC (H) => TAC (Y)
1279	cox1 CDS	CTC (L) => TTC (F)
1402	cox1 CDS	CGT (R) => TGT (C)
1405	cox1 CDS	CGT (R) => TGT (C)
1433	cox1 CDS	TCA (S) => TTA (L)
106164	cox3 CDS	CCT (P) => CTT (L)
106152	cox3 CDS	TCT (S) => TTT (F)
106120	cox3 CDS	CTT (L) => TTT (F)
106105	cox3 CDS	CGG (R) => TGG (W)
106098	cox3 CDS	TCT (S) => TTT (F)
106095	cox3 CDS	TCT (S) => TTT (F)
106021	cox3 CDS	CGG (R) => TGG (W)
105996	cox3 CDS	CCT (P) => CTT (L)
105897	cox3 CDS	TCA (S) => TTA (L)
371198	matR CDS	TCC (S) => TTC (F)
371251	matR CDS	CGC (R) => TGC (C)
371359	matR CDS	CCA (P) => TCA (S)
371402	matR CDS	TCC (S) => TTC (F)
371492	matR CDS	CCA (P) => CTA (L)
372224	matR CDS	CCC (P) => CTC (L)
372569	matR CDS	GCG (A) => GTG (V)
372830	matR CDS	TCT (S) => TTT (F)
372851	matR CDS	CCT (P) => CTT (L)
372871	matR CDS	CGC (R) => TGC (C)
372907	matR CDS	CAC (H) => TAC (Y)
372977	matR CDS	CCC (P) => CTC (L)
372995	matR CDS	TCA (S) => TTA (L)
219600	mttB CDS	CCG (P) => CTG (L)
219562	mttB CDS	CGG (R) => TGG (W)
219526	mttB CDS	CGT (R) => TGT (C)
219514	mttB CDS	CCG (P) => TCG (S)
219498	mttB CDS	TCT (S) => TTT (F)
219495	mttB CDS	CCA (P) => CTA (L)
219438	mttB CDS	TCA (S) => TTA (L)
219426	mttB CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
219424	mttB CDS	CCG (P) => TCG (S)
219364	mttB CDS	CAT (H) => TAT (Y)
219298	mttB CDS	CTC (L) => TTC (F)
219282	mttB CDS	TCT (S) => TTT (F)
219280	mttB CDS	CGC (R) => TGC (C)
219273	mttB CDS	TCC (S) => TTC (F)
219250	mttB CDS	CCC (P) => TCC (S)
219247	mttB CDS	CGG (R) => TGG (W)
219189	mttB CDS	TCG (S) => TTG (L)
219154	mttB CDS	CAT (H) => TAT (Y)
219129	mttB CDS	TCG (S) => TTG (L)
219121	mttB CDS	CCA (P) => TCA (S)
219078	mttB CDS	CCA (P) => CTA (L)
219072	mttB CDS	CCA (P) => CTA (L)
219016	mttB CDS	CCG (P) => TCG (S)
218959	mttB CDS	CGT (R) => TGT (C)
218943	mttB CDS	TCG (S) => TTG (L)
218913	mttB CDS	TCG (S) => TTG (L)
7957	nad1 exon1	ACG (T) => ATG (M)
8170	nad1 exon1	TCC (S) => TTC (F)
8220	nad1 exon1	CGG (R) => TGG (W)
8263	nad1 exon1	TCG (S) => TTG (L)
8323	nad1 exon1	ACA (T) => ATA (I)
4551	nad1 exon3	CCC (P) => TCC (S)
4554	nad1 exon3	CGT (R) => TGT (C)
4561	nad1 exon3	TCG (S) => TTG (L)
4597	nad1 exon3	TCC (S) => TTC (F)
4641	nad1 exon3	CGT (R) => TGT (C)
4696	nad1 exon3	TCA (S) => TTA (L)
370482	nad1 exon4	TCT (S) => TTT (F)
373648	nad1 exon5	CCA (P) => CTA (L)
373657	nad1 exon5	TCG (S) => TTG (L)
373663	nad1 exon5	TCT (S) => TTT (F)
373666	nad1 exon5	CCA (P) => CTA (L)
373678	nad1 exon5	CCG (P) => CTG (L)
373821	nad1 exon5	CGG (R) => TGG (W)
373851	nad1 exon5	CGG (R) => TGG (W)
373876	nad1 exon5	TCA (S) => TTA (L)
194608	nad2 exon1	TCC (S) => TTC (F)
194638	nad2 exon1	TCC (S) => TTC (F)
196041	nad2 exon2	CGG (R) => TGG (W)
196089	nad2 exon2	CTT (L) => TTT (F)

Position	CDS/exon name	codon/AA change
196135	nad2 exon2	TCT (S) => TTT (F)
196138	nad2 exon2	TCC (S) => TTC (F)
196183	nad2 exon2	CCA (P) => CTA (L)
196188	nad2 exon2	CCT (P) => TCT (S)
196194	nad2 exon2	CGC (R) => TGC (C)
196221	nad2 exon2	CAT (H) => TAT (Y)
196228	nad2 exon2	TCA (S) => TTA (L)
196255	nad2 exon2	CCT (P) => CTT (L)
196324	nad2 exon2	TCG (S) => TTG (L)
132089	nad2 exon3	TCT (S) => TTT (F)
132104	nad2 exon3	TCC (S) => TTC (F)
134816	nad2 exon4	TCA (S) => TTA (L)
134825	nad2 exon4	TCT (S) => TTT (F)
134936	nad2 exon4	CCT (P) => CTT (L)
134944	nad2 exon4	CAT (H) => TAT (Y)
134974	nad2 exon4	CGT (R) => TGT (C)
134978	nad2 exon4	ACT (T) => ATT (I)
135143	nad2 exon4	TCG (S) => TTG (L)
135263	nad2 exon4	CCA (P) => CTA (L)
136789	nad2 exon5	GCG (A) => GTG (V)
136891	nad2 exon5	TCA (S) => TTA (L)
136894	nad2 exon5	TCC (S) => TTC (F)
136900	nad2 exon5	CCA (P) => CTA (L)
136948	nad2 exon5	TCA (S) => TTA (L)
342017	nad3 CDS	TCA (S) => TTA (L)
342074	nad3 CDS	CCA (P) => CTA (L)
342092	nad3 CDS	CCC (P) => CTC (L)
342220	nad3 CDS	CCT (P) => TTT (F)
342221	nad3 CDS	CCT (P) => TTT (F)
342227	nad3 CDS	CCG (P) => CTG (L)
342242	nad3 CDS	TCC (S) => TTC (F)
342259	nad3 CDS	CCT (P) => TCT (S)
342263	nad3 CDS	CCC (P) => CTC (L)
342278	nad3 CDS	CCG (P) => CTG (L)
342287	nad3 CDS	TCT (S) => TTT (F)
342329	nad3 CDS	TCT (S) => TTT (F)
342356	nad3 CDS	TCG (S) => TTG (L)
342361	nad3 CDS	CGG (R) => TGG (W)
356057	nad4 exon1	TCT (S) => TTT (F)
356042	nad4 exon1	CCT (P) => CTT (L)
356009	nad4 exon1	CCT (P) => CTT (L)
355979	nad4 exon1	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
355928	nad4 exon1	CCT (P) => CTT (L)
355922	nad4 exon1	CCT (P) => CTT (L)
355920	nad4 exon1	CGG (R) => TGG (W)
355889	nad4 exon1	TCT (S) => TTT (F)
355724	nad4 exon1	ACA (T) => ATA (I)
355718	nad4 exon1	TCT (S) => TTT (F)
355710	nad4 exon1	CGT (R) => TGT (C)
355683	nad4 exon1	CGC (R) => TGC (C)
355670	nad4 exon1	CCT (P) => CTT (L)
355653	nad4 exon1	CTT (L) => TTT (F)
355650	nad4 exon1	CCC (P) => TTC (F)
355649	nad4 exon1	CCC (P) => TTC (F)
354075	nad4 exon2	TCA (S) => TTA (L)
354024	nad4 exon2	TCT (S) => TTT (F)
353916	nad4 exon2	CCT (P) => CTT (L)
353913	nad4 exon2	TCA (S) => TTA (L)
353899	nad4 exon2	CAC (H) => TAC (Y)
353847	nad4 exon2	TCC (S) => TTC (F)
353826	nad4 exon2	CCA (P) => CTA (L)
353787	nad4 exon2	TCA (S) => TTA (L)
350413	nad4 exon3	CCG (P) => CTG (L)
350383	nad4 exon3	CCA (P) => CTA (L)
350380	nad4 exon3	CCG (P) => CTG (L)
350357	nad4 exon3	CCT (P) => TCT (S)
350261	nad4 exon3	CTC (L) => TTC (F)
350248	nad4 exon3	TCC (S) => TTC (F)
350242	nad4 exon3	TCT (S) => TTT (F)
350239	nad4 exon3	TCC (S) => TTC (F)
350218	nad4 exon3	TCA (S) => TTA (L)
350185	nad4 exon3	CCC (P) => CTC (L)
350179	nad4 exon3	TCA (S) => TTA (L)
350035	nad4 exon3	CCA (P) => CTA (L)
350017	nad4 exon3	TCC (S) => TTC (F)
347943	nad4 exon4	CGG (R) => TGG (W)
347931	nad4 exon4	CAC (H) => TAC (Y)
347915	nad4 exon4	CCG (P) => CTG (L)
347910	nad4 exon4	CGC (R) => TGC (C)
80964	nad4L CDS	ACG (T) => ATG (M)
80970	nad4L CDS	CCT (P) => CTT (L)
81003	nad4L CDS	TCT (S) => TTT (F)
81017	nad4L CDS	CGG (R) => TGG (W)
81048	nad4L CDS	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
81057	nad4L CDS	TCA (S) => TTA (L)
81062	nad4L CDS	CCA (P) => TCA (S)
81072	nad4L CDS	TCA (S) => TTA (L)
81120	nad4L CDS	TCG (S) => TTG (L)
81141	nad4L CDS	TCA (S) => TTA (L)
81150	nad4L CDS	TCA (S) => TTA (L)
81159	nad4L CDS	TCA (S) => TTA (L)
117089	nad5 exon1	CCG (P) => CTG (L)
118035	nad5 exon2	CCG (P) => CTG (L)
118065	nad5 exon2	TCC (S) => TTC (F)
118151	nad5 exon2	CTT (L) => TTT (F)
118167	nad5 exon2	CCA (P) => CTA (L)
118191	nad5 exon2	TCT (S) => TTT (F)
118287	nad5 exon2	ACA (T) => ATA (I)
118299	nad5 exon2	CCT (P) => CTT (L)
118332	nad5 exon2	CCT (P) => CTT (L)
118346	nad5 exon2	CGT (R) => TGT (C)
118391	nad5 exon2	CGT (R) => TGT (C)
118422	nad5 exon2	TCT (S) => TTT (F)
118469	nad5 exon2	CTT (L) => TTT (F)
118506	nad5 exon2	TCG (S) => TTG (L)
118518	nad5 exon2	TCA (S) => TTA (L)
118628	nad5 exon2	CCA (P) => TCA (S)
118656	nad5 exon2	TCT (S) => TTT (F)
118668	nad5 exon2	ACG (T) => ATG (M)
119103	nad5 exon2	TCA (S) => TTA (L)
241854	nad5 exon4	CCC (P) => CTC (L)
241914	nad5 exon4	ACC (T) => ATC (I)
241944	nad5 exon4	TCA (S) => TTA (L)
241953	nad5 exon4	TCT (S) => TTT (F)
241974	nad5 exon4	CCC (P) => CTC (L)
243179	nad5 exon5	TCA (S) => TTA (L)
243200	nad5 exon5	TCT (S) => TTT (F)
243202	nad5 exon5	CGT (R) => TGT (C)
243242	nad5 exon5	TCG (S) => TTG (L)
126888	nad6 CDS	CTT (L) => TTT (F)
126934	nad6 CDS	GCA (A) => GTA (V)
126969	nad6 CDS	CCC (P) => TTC (F)
126970	nad6 CDS	CCC (P) => TTC (F)
126976	nad6 CDS	CCA (P) => CTA (L)
126984	nad6 CDS	CGC (R) => TGC (C)
127027	nad6 CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
127042	nad6 CDS	CCA (P) => CTA (L)
127050	nad6 CDS	CAT (H) => TAT (Y)
127072	nad6 CDS	TCA (S) => TTA (L)
127170	nad6 CDS	CTT (L) => TTT (F)
127344	nad6 CDS	CCT (P) => TCT (S)
410233	nad7 exon1	TCG (S) => TTG (L)
410272	nad7 exon1	TCA (S) => TTA (L)
410278	nad7 exon1	TCA (S) => TTA (L)
410332	nad7 exon1	TCA (S) => TTA (L)
411299	nad7 exon2	TCT (S) => TTT (F)
412657	nad7 exon3	ACG (T) => ATG (M)
412677	nad7 exon3	CAT (H) => TAT (Y)
412684	nad7 exon3	TCA (S) => TTA (L)
412749	nad7 exon3	CGT (R) => TGT (C)
412768	nad7 exon3	TCA (S) => TTA (L)
412816	nad7 exon3	TCA (S) => TTA (L)
412825	nad7 exon3	TCC (S) => TTC (F)
413011	nad7 exon3	TCA (S) => TTA (L)
413112	nad7 exon3	CCA (P) => TCA (S)
414179	nad7 exon4	TCG (S) => TTG (L)
414205	nad7 exon4	CAT (H) => TAT (Y)
414215	nad7 exon4	TCG (S) => TTG (L)
414220	nad7 exon4	CCT (P) => TTT (F)
414221	nad7 exon4	CCT (P) => TTT (F)
414250	nad7 exon4	CGC (R) => TGC (C)
414317	nad7 exon4	CCT (P) => CTT (L)
416449	nad7 exon5	TCA (S) => TTA (L)
416496	nad7 exon5	CCT (P) => TCT (S)
416580	nad7 exon5	CGT (R) => TGT (C)
416602	nad7 exon5	TCT (S) => TTT (F)
416611	nad7 exon5	TCA (S) => TTA (L)
416626	nad7 exon5	TCT (S) => TTT (F)
416647	nad7 exon5	CCA (P) => CTA (L)
416689	nad7 exon5	TCT (S) => TTT (F)
148249	nad9 CDS	TCC (S) => TTC (F)
148171	nad9 CDS	TCT (S) => TTT (F)
148096	nad9 CDS	TCG (S) => TTG (L)
147965	nad9 CDS	CCG (P) => TCG (S)
147935	nad9 CDS	CGG (R) => TGG (W)
147895	nad9 CDS	TCC (S) => TTC (F)
147865	nad9 CDS	TCA (S) => TTA (L)
147824	nad9 CDS	CTT (L) => TTT (F)

Position	CDS/exon name	codon/AA change
294860	rpl16 CDS	CAG (Q) => TAG (X)
295008	rpl16 CDS	ACT (T) => ATT (I)
295305	rpl16 CDS	CCA (P) => CTA (L)
295311	rpl16 CDS	TCG (S) => TTG (L)
378009	rpl5 CDS	TCA (S) => TTA (L)
378021	rpl5 CDS	CCG (P) => CTG (L)
378038	rpl5 CDS	CAC (H) => TAC (Y)
378066	rpl5 CDS	TCG (S) => TTG (L)
378146	rpl5 CDS	CGC (R) => TGC (C)
378294	rpl5 CDS	TCG (S) => TTG (L)
378489	rpl5 CDS	CCA (P) => CTA (L)
378492	rpl5 CDS	CCG (P) => CTG (L)
83200	rps10 exon1	ACG (T) => ATG (M)
83436	rps10 exon1	CGG (R) => TGG (W)
85960	rps10 exon2	TCG (S) => TTG (L)
85989	rps10 exon2	CGA (R) => TGA (X)
342488	rps12 CDS	TCG (S) => TTG (L)
342517	rps12 CDS	CGC (R) => TGC (C)
342521	rps12 CDS	CCG (P) => CTG (L)
342563	rps12 CDS	CCA (P) => CTA (L)
342613	rps12 CDS	CAC (H) => TAC (Y)
342638	rps12 CDS	TCG (S) => TTG (L)
342701	rps12 CDS	TCC (S) => TTC (F)
378585	rps14 CDS	GCG (A) => GTG (V)
378732	rps14 CDS	TCC (S) => TTC (F)
378809	rps14 CDS	CCT (P) => TCT (S)
291793	rps3 exon1	CGG (R) => TGG (W)
293747	rps3 exon2	TCA (S) => TTA (L)
293948	rps3 exon2	TCG (S) => TTG (L)
294266	rps3 exon2	CCA (P) => CTA (L)
294605	rps3 exon2	CCG (P) => CTG (L)
294743	rps3 exon2	TCA (S) => TTA (L)
294796	rps3 exon2	CGT (R) => TGT (C)
294860	rps3 exon2	TCA (S) => TTA (L)
147063	rps4 CDS	TCA (S) => TTA (L)
147052	rps4 CDS	CGG (R) => TGG (W)
146968	rps4 CDS	CCG (P) => TCG (S)
146937	rps4 CDS	TCA (S) => TTA (L)
146917	rps4 CDS	CCC (P) => TCC (S)
146908	rps4 CDS	CAT (H) => TAT (Y)
146835	rps4 CDS	CCA (P) => CTA (L)
146823	rps4 CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
146811	rps4 CDS	CCG (P) => CTG (L)
146794	rps4 CDS	CGT (R) => TGT (C)
146766	rps4 CDS	CCG (P) => CTG (L)
146619	rps4 CDS	TCA (S) => TTA (L)
146184	rps4 CDS	TCG (S) => TTG (L)
146173	rps4 CDS	CAT (H) => TAT (Y)
146163	rps4 CDS	CCA (P) => CTA (L)
146097	rps4 CDS	CCA (P) => CTA (L)
146088	rps4 CDS	CCT (P) => CTT (L)
146083	rps4 CDS	CGG (R) => TGG (W)

Table S10. Predicted RNA editing sites of the mitochondrial genome of *Styphnolobium japonicum*

Position	CDS/exon name	codon/AA change
333018	atp1 CDS	CCA (P) => CTA (L)
109438	atp4 CDS	CCA (P) => CTA (L)
109435	atp4 CDS	TCT (S) => TTT (F)
109405	atp4 CDS	TCA (S) => TTA (L)
109376	atp4 CDS	CGT (R) => TGT (C)
109279	atp4 CDS	TCG (S) => TTG (L)
109268	atp4 CDS	CCC (P) => TTC (F)
109267	atp4 CDS	CCC (P) => TTC (F)
109246	atp4 CDS	CCT (P) => CTT (L)
109099	atp4 CDS	TCA (S) => TTA (L)
109087	atp4 CDS	CCA (P) => CTA (L)
109078	atp4 CDS	ACT (T) => ATT (I)
109004	atp4 CDS	CCC (P) => TCC (S)
36256	atp6 CDS	CCA (P) => TCA (S)
36177	atp6 CDS	TCA (S) => TTA (L)
36126	atp6 CDS	CCG (P) => CTG (L)
36057	atp6 CDS	TCG (S) => TTG (L)
36039	atp6 CDS	TCG (S) => TTG (L)
36024	atp6 CDS	CCC (P) => CTC (L)
35892	atp6 CDS	TCA (S) => TTA (L)
35833	atp6 CDS	CCT (P) => TCT (S)
35830	atp6 CDS	CAT (H) => TAT (Y)
35808	atp6 CDS	TCA (S) => TTA (L)
35766	atp6 CDS	TCA (S) => TTA (L)
35745	atp6 CDS	TCC (S) => TTC (F)
35658	atp6 CDS	CCG (P) => CTG (L)
35637	atp6 CDS	TCA (S) => TTA (L)
35629	atp6 CDS	CAT (H) => TAT (Y)
35622	atp6 CDS	TCT (S) => TTT (F)
35613	atp6 CDS	TCA (S) => TTA (L)
35586	atp6 CDS	ACA (T) => ATA (I)
35575	atp6 CDS	CAA (Q) => TAA (X)
27275	atp8 CDS	TCA (S) => TTA (L)
27286	atp8 CDS	CTC (L) => TTC (F)
27680	atp8 CDS	CCA (P) => CTA (L)
9769	atp9 CDS	TCA (S) => TTA (L)
9799	atp9 CDS	TCA (S) => TTA (L)
386778	ccmB CDS	CAT (H) => TAT (Y)
386763	ccmB CDS	CCC (P) => TCC (S)
386735	ccmB CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
386726	ccmB CDS	TCG (S) => TTG (L)
386678	ccmB CDS	TCA (S) => TTA (L)
386669	ccmB CDS	TCC (S) => TTC (F)
386657	ccmB CDS	CCG (P) => CTG (L)
386652	ccmB CDS	CGG (R) => TGG (W)
386646	ccmB CDS	CCT (P) => TCT (S)
386642	ccmB CDS	CCG (P) => CTG (L)
386634	ccmB CDS	CCT (P) => TCT (S)
386627	ccmB CDS	CCT (P) => CTT (L)
386625	ccmB CDS	CCC (P) => TCC (S)
386613	ccmB CDS	CCT (P) => TTT (F)
386612	ccmB CDS	CCT (P) => TTT (F)
386520	ccmB CDS	CGG (R) => TGG (W)
386468	ccmB CDS	CCG (P) => CTG (L)
386439	ccmB CDS	CGG (R) => TGG (W)
386426	ccmB CDS	CCA (P) => CTA (L)
386382	ccmB CDS	CGT (R) => TGT (C)
386339	ccmB CDS	TCG (S) => TTG (L)
386330	ccmB CDS	CCA (P) => CTA (L)
386321	ccmB CDS	TCA (S) => TTA (L)
386312	ccmB CDS	TCA (S) => TTA (L)
386303	ccmB CDS	CCA (P) => CTA (L)
386294	ccmB CDS	TCT (S) => TTT (F)
386292	ccmB CDS	CGT (R) => TGT (C)
386255	ccmB CDS	TCA (S) => TTA (L)
386252	ccmB CDS	TCG (S) => TTG (L)
386240	ccmB CDS	TCC (S) => TTC (F)
386237	ccmB CDS	TCT (S) => TTT (F)
386234	ccmB CDS	CCG (P) => CTG (L)
386210	ccmB CDS	TCG (S) => TTG (L)
1152	ccmC CDS	CGG (R) => TGG (W)
1179	ccmC CDS	CAT (H) => TAT (Y)
1191	ccmC CDS	CGG (R) => TGG (W)
1209	ccmC CDS	CTT (L) => TTT (F)
1255	ccmC CDS	GCG (A) => GTG (V)
1260	ccmC CDS	CGG (R) => TGG (W)
1357	ccmC CDS	ACA (T) => ATA (I)
1407	ccmC CDS	CGG (R) => TGG (W)
1471	ccmC CDS	TCG (S) => TTG (L)
1476	ccmC CDS	CTT (L) => TTT (F)
1497	ccmC CDS	CGT (R) => TGT (C)
1512	ccmC CDS	CCT (P) => TCT (S)

Position	CDS/exon name	codon/AA change
1522	ccmC CDS	CCG (P) => CTG (L)
1527	ccmC CDS	CCT (P) => TCT (S)
1534	ccmC CDS	TCA (S) => TTA (L)
1539	ccmC CDS	CGT (R) => TGT (C)
1543	ccmC CDS	GCT (A) => GTT (V)
1549	ccmC CDS	CCG (P) => CTG (L)
1573	ccmC CDS	TCT (S) => TTT (F)
1597	ccmC CDS	TCG (S) => TTG (L)
1624	ccmC CDS	TCT (S) => TTT (F)
1644	ccmC CDS	CCT (P) => TCT (S)
1651	ccmC CDS	CCC (P) => CTC (L)
1684	ccmC CDS	CCC (P) => CTC (L)
1690	ccmC CDS	TCA (S) => TTA (L)
1695	ccmC CDS	CGT (R) => TGT (C)
1726	ccmC CDS	CCT (P) => CTT (L)
1741	ccmC CDS	CCC (P) => CTC (L)
1749	ccmC CDS	CCT (P) => TCT (S)
168096	ccmFc exon1	TCT (S) => TTT (F)
168084	ccmFc exon1	CCT (P) => CTT (L)
168082	ccmFc exon1	CGT (R) => TGT (C)
168031	ccmFc exon1	CCC (P) => TCC (S)
168012	ccmFc exon1	TCC (S) => TTC (F)
167983	ccmFc exon1	CCT (P) => TCT (S)
167979	ccmFc exon1	TCA (S) => TTA (L)
167974	ccmFc exon1	CCT (P) => TCT (S)
167829	ccmFc exon1	TCA (S) => TTA (L)
167824	ccmFc exon1	CGT (R) => TGT (C)
167728	ccmFc exon1	CGT (R) => TGT (C)
167722	ccmFc exon1	CTC (L) => TTC (F)
167428	ccmFc exon1	CAC (H) => TAC (Y)
167418	ccmFc exon1	GCT (A) => GTT (V)
166138	ccmFc exon2	TCT (S) => TTT (F)
165877	ccmFc exon2	CCA (P) => CTA (L)
165856	ccmFc exon2	TCG (S) => TTG (L)
165782	ccmFc exon2	CGG (R) => TGG (W)
165757	ccmFc exon2	TCG (S) => TTG (L)
165701	ccmFc exon2	CGA (R) => TGA (X)
356982	ccmFn CDS	CCG (P) => CTG (L)
356922	ccmFn CDS	CCT (P) => CTT (L)
356883	ccmFn CDS	TCG (S) => TTG (L)
356878	ccmFn CDS	CGT (R) => TGT (C)
356869	ccmFn CDS	CCT (P) => TCT (S)

Position	CDS/exon name	codon/AA change
356772	ccmFn CDS	TCA (S) => TTA (L)
356764	ccmFn CDS	CGG (R) => TGG (W)
356757	ccmFn CDS	CCA (P) => CTA (L)
356737	ccmFn CDS	CTT (L) => TTT (F)
356686	ccmFn CDS	CAT (H) => TAT (Y)
356664	ccmFn CDS	TCC (S) => TTC (F)
356655	ccmFn CDS	TCG (S) => TTG (L)
356542	ccmFn CDS	CGT (R) => TGT (C)
356461	ccmFn CDS	CCT (P) => TTT (F)
356460	ccmFn CDS	CCT (P) => TTT (F)
356311	ccmFn CDS	CCT (P) => TTT (F)
356310	ccmFn CDS	CCT (P) => TTT (F)
356301	ccmFn CDS	TCA (S) => TTA (L)
356263	ccmFn CDS	CGT (R) => TGT (C)
356241	ccmFn CDS	TCA (S) => TTA (L)
356229	ccmFn CDS	CCA (P) => CTA (L)
356214	ccmFn CDS	TCA (S) => TTA (L)
356065	ccmFn CDS	CGC (R) => TGC (C)
355747	ccmFn CDS	CGG (R) => TGG (W)
355719	ccmFn CDS	CCA (P) => CTA (L)
355702	ccmFn CDS	CAT (H) => TAT (Y)
355687	ccmFn CDS	CGG (R) => TGG (W)
355669	ccmFn CDS	CGG (R) => TGG (W)
355618	ccmFn CDS	CGT (R) => TGT (C)
355575	ccmFn CDS	TCG (S) => TTG (L)
355555	ccmFn CDS	CTT (L) => TTT (F)
355551	ccmFn CDS	CCA (P) => CTA (L)
355539	ccmFn CDS	TCA (S) => TTA (L)
355456	ccmFn CDS	CGG (R) => TGG (W)
355281	ccmFn CDS	ACT (T) => ATT (I)
355273	ccmFn CDS	CGG (R) => TGG (W)
68524	cob CDS	CTC (L) => TTC (F)
68536	cob CDS	CAC (H) => TAC (Y)
68563	cob CDS	CAT (H) => TAT (Y)
68596	cob CDS	CGG (R) => TGG (W)
68645	cob CDS	ACA (T) => ATA (I)
68657	cob CDS	CCA (P) => CTA (L)
68806	cob CDS	CAT (H) => TAT (Y)
69046	cob CDS	CCC (P) => TCC (S)
69091	cob CDS	CAT (H) => TAT (Y)
69146	cob CDS	CCT (P) => CTT (L)
69220	cob CDS	CAC (H) => TAC (Y)

Position	CDS/exon name	codon/AA change
69253	cob CDS	CGC (R) => TGC (C)
69319	cob CDS	CCT (P) => TCT (S)
69322	cob CDS	CCT (P) => TCT (S)
69362	cob CDS	CCG (P) => CTG (L)
443115	cox1 CDS	CCG (P) => CTG (L)
443346	cox1 CDS	TCT (S) => TTT (F)
443358	cox1 CDS	TCT (S) => TTT (F)
443547	cox1 CDS	TCA (S) => TTA (L)
443556	cox1 CDS	TCT (S) => TTT (F)
443619	cox1 CDS	TCC (S) => TTC (F)
443655	cox1 CDS	TCA (S) => TTA (L)
443679	cox1 CDS	CCA (P) => CTA (L)
443694	cox1 CDS	CCA (P) => CTA (L)
443772	cox1 CDS	TCT (S) => TTT (F)
443819	cox1 CDS	CGG (R) => TGG (W)
443850	cox1 CDS	CCC (P) => CTC (L)
443865	cox1 CDS	TCC (S) => TTC (F)
444183	cox1 CDS	CCG (P) => CTG (L)
444290	cox1 CDS	CAC (H) => TAC (Y)
444383	cox1 CDS	CTC (L) => TTC (F)
444506	cox1 CDS	CGT (R) => TGT (C)
444509	cox1 CDS	CGT (R) => TGT (C)
444537	cox1 CDS	TCA (S) => TTA (L)
29359	cox3 CDS	CCT (P) => CTT (L)
29371	cox3 CDS	TCT (S) => TTT (F)
29377	cox3 CDS	CCG (P) => CTG (L)
29403	cox3 CDS	CTT (L) => TTT (F)
29418	cox3 CDS	CGG (R) => TGG (W)
29425	cox3 CDS	TCT (S) => TTT (F)
29428	cox3 CDS	TCT (S) => TTT (F)
29502	cox3 CDS	CGG (R) => TGG (W)
29527	cox3 CDS	CCT (P) => CTT (L)
29626	cox3 CDS	TCA (S) => TTA (L)
29868	cox3 CDS	CGG (R) => TGG (W)
29878	cox3 CDS	CCA (P) => CTA (L)
463505	matR CDS	TCC (S) => TTC (F)
463452	matR CDS	CGC (R) => TGC (C)
463344	matR CDS	CCA (P) => TCA (S)
463301	matR CDS	TCC (S) => TTC (F)
463211	matR CDS	CCA (P) => CTA (L)
462476	matR CDS	CCC (P) => CTC (L)
462332	matR CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
462131	matR CDS	GCG (A) => GTG (V)
461861	matR CDS	TCT (S) => TTT (F)
461840	matR CDS	CCT (P) => CTT (L)
461820	matR CDS	CGC (R) => TGC (C)
461784	matR CDS	CAC (H) => TAC (Y)
461714	matR CDS	CCC (P) => CTC (L)
461696	matR CDS	TCA (S) => TTA (L)
382056	mttB CDS	CGG (R) => TGG (W)
382020	mttB CDS	CGT (R) => TGT (C)
382008	mttB CDS	CCG (P) => TCG (S)
381992	mttB CDS	TCT (S) => TTT (F)
381989	mttB CDS	CCA (P) => CTA (L)
381932	mttB CDS	TCA (S) => TTA (L)
381920	mttB CDS	TCC (S) => TTC (F)
381918	mttB CDS	CCG (P) => TCG (S)
381858	mttB CDS	CAT (H) => TAT (Y)
381792	mttB CDS	CTC (L) => TTC (F)
381776	mttB CDS	TCT (S) => TTT (F)
381774	mttB CDS	CGC (R) => TGC (C)
381767	mttB CDS	TCC (S) => TTC (F)
381744	mttB CDS	CCC (P) => TCC (S)
381741	mttB CDS	CGG (R) => TGG (W)
381683	mttB CDS	TCG (S) => TTG (L)
381648	mttB CDS	CAT (H) => TAT (Y)
381623	mttB CDS	TCG (S) => TTG (L)
381615	mttB CDS	CCA (P) => TCA (S)
381572	mttB CDS	CCA (P) => CTA (L)
381566	mttB CDS	CCA (P) => CTA (L)
381510	mttB CDS	CCG (P) => TCG (S)
381453	mttB CDS	CGT (R) => TGT (C)
381437	mttB CDS	TCG (S) => TTG (L)
381407	mttB CDS	TCG (S) => TTG (L)
360758	nad1 exon1	ACG (T) => ATG (M)
360971	nad1 exon1	TCC (S) => TTC (F)
361021	nad1 exon1	CGG (R) => TGG (W)
361064	nad1 exon1	TCG (S) => TTG (L)
361124	nad1 exon1	ACA (T) => ATA (I)
447691	nad1 exon3	CCC (P) => TCC (S)
447694	nad1 exon3	CGT (R) => TGT (C)
447701	nad1 exon3	TCG (S) => TTG (L)
447737	nad1 exon3	TCC (S) => TTC (F)
447781	nad1 exon3	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
447836	nad1 exon3	TCA (S) => TTA (L)
464255	nad1 exon4	TCT (S) => TTT (F)
461046	nad1 exon5	CCA (P) => CTA (L)
461055	nad1 exon5	TCG (S) => TTG (L)
461061	nad1 exon5	TCT (S) => TTT (F)
461064	nad1 exon5	CCA (P) => CTA (L)
461076	nad1 exon5	CCG (P) => CTG (L)
461219	nad1 exon5	CGG (R) => TGG (W)
461249	nad1 exon5	CGG (R) => TGG (W)
461274	nad1 exon5	TCA (S) => TTA (L)
75770	nad2 exon1	TCC (S) => TTC (F)
75740	nad2 exon1	TCC (S) => TTC (F)
74349	nad2 exon2	CGG (R) => TGG (W)
74301	nad2 exon2	CTT (L) => TTT (F)
74255	nad2 exon2	TCT (S) => TTT (F)
74252	nad2 exon2	TCC (S) => TTC (F)
74228	nad2 exon2	TCT (S) => TTT (F)
74207	nad2 exon2	CCA (P) => CTA (L)
74202	nad2 exon2	CCT (P) => TCT (S)
74196	nad2 exon2	CGC (R) => TGC (C)
74169	nad2 exon2	CAT (H) => TAT (Y)
74162	nad2 exon2	TCA (S) => TTA (L)
74135	nad2 exon2	CCT (P) => CTT (L)
74066	nad2 exon2	TCG (S) => TTG (L)
74040	nad2 exon2	CCC (P) => TCC (S)
393014	nad2 exon3	TCT (S) => TTT (F)
392999	nad2 exon3	TCC (S) => TTC (F)
390327	nad2 exon4	TCA (S) => TTA (L)
390318	nad2 exon4	TCT (S) => TTT (F)
390207	nad2 exon4	CCT (P) => CTT (L)
390199	nad2 exon4	CAT (H) => TAT (Y)
390169	nad2 exon4	CGT (R) => TGT (C)
390165	nad2 exon4	ACT (T) => ATT (I)
390000	nad2 exon4	TCG (S) => TTG (L)
388375	nad2 exon5	CCA (P) => CTA (L)
388324	nad2 exon5	GCG (A) => GTG (V)
388222	nad2 exon5	TCA (S) => TTA (L)
388219	nad2 exon5	TCC (S) => TTC (F)
388213	nad2 exon5	CCA (P) => CTA (L)
388165	nad2 exon5	TCA (S) => TTA (L)
66370	nad3 CDS	TCA (S) => TTA (L)
66427	nad3 CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
66445	nad3 CDS	CCC (P) => CTC (L)
66573	nad3 CDS	CCT (P) => TTT (F)
66574	nad3 CDS	CCT (P) => TTT (F)
66580	nad3 CDS	CCG (P) => CTG (L)
66595	nad3 CDS	TCC (S) => TTC (F)
66612	nad3 CDS	CCT (P) => TCT (S)
66616	nad3 CDS	CCC (P) => CTC (L)
66631	nad3 CDS	CCG (P) => CTG (L)
66640	nad3 CDS	TCT (S) => TTT (F)
66682	nad3 CDS	TCT (S) => TTT (F)
66709	nad3 CDS	TCG (S) => TTG (L)
66714	nad3 CDS	CGG (R) => TGG (W)
120820	nad4 exon1	TCT (S) => TTT (F)
120805	nad4 exon1	CCT (P) => CTT (L)
120772	nad4 exon1	CCT (P) => CTT (L)
120742	nad4 exon1	CCG (P) => CTG (L)
120691	nad4 exon1	CCT (P) => CTT (L)
120685	nad4 exon1	CCT (P) => CTT (L)
120683	nad4 exon1	CGG (R) => TGG (W)
120652	nad4 exon1	TCT (S) => TTT (F)
120487	nad4 exon1	ACA (T) => ATA (I)
120481	nad4 exon1	TCT (S) => TTT (F)
120473	nad4 exon1	CGT (R) => TGT (C)
120446	nad4 exon1	CGC (R) => TGC (C)
120433	nad4 exon1	CCT (P) => CTT (L)
120413	nad4 exon1	CCC (P) => TTC (F)
120412	nad4 exon1	CCC (P) => TTC (F)
118849	nad4 exon2	CTC (L) => TTC (F)
118818	nad4 exon2	TCA (S) => TTA (L)
118767	nad4 exon2	TCT (S) => TTT (F)
118659	nad4 exon2	CCT (P) => CTT (L)
118656	nad4 exon2	TCA (S) => TTA (L)
118642	nad4 exon2	CAC (H) => TAC (Y)
118590	nad4 exon2	TCC (S) => TTC (F)
118569	nad4 exon2	CCA (P) => CTA (L)
118530	nad4 exon2	TCA (S) => TTA (L)
115143	nad4 exon3	CCG (P) => CTG (L)
115113	nad4 exon3	CCA (P) => CTA (L)
115110	nad4 exon3	CCG (P) => CTG (L)
115087	nad4 exon3	CCT (P) => TCT (S)
114991	nad4 exon3	CTC (L) => TTC (F)
114978	nad4 exon3	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
114972	nad4 exon3	TCT (S) => TTT (F)
114969	nad4 exon3	TCC (S) => TTC (F)
114948	nad4 exon3	TCA (S) => TTA (L)
114915	nad4 exon3	CCC (P) => CTC (L)
114909	nad4 exon3	TCA (S) => TTA (L)
114765	nad4 exon3	CCA (P) => CTA (L)
114747	nad4 exon3	TCC (S) => TTC (F)
111914	nad4 exon4	CGG (R) => TGG (W)
111902	nad4 exon4	CAC (H) => TAC (Y)
111886	nad4 exon4	CCG (P) => CTG (L)
111881	nad4 exon4	CGC (R) => TGC (C)
109986	nad4L CDS	ACG (T) => ATG (M)
109980	nad4L CDS	CCT (P) => CTT (L)
109947	nad4L CDS	TCT (S) => TTT (F)
109933	nad4L CDS	CGG (R) => TGG (W)
109902	nad4L CDS	CCT (P) => CTT (L)
109893	nad4L CDS	TCA (S) => TTA (L)
109888	nad4L CDS	CCA (P) => TCA (S)
109878	nad4L CDS	TCA (S) => TTA (L)
109857	nad4L CDS	TCG (S) => TTG (L)
109830	nad4L CDS	TCG (S) => TTG (L)
109809	nad4L CDS	TCA (S) => TTA (L)
109800	nad4L CDS	TCA (S) => TTA (L)
109791	nad4L CDS	TCA (S) => TTA (L)
211743	nad5 exon1	CCG (P) => CTG (L)
210812	nad5 exon2	CCG (P) => CTG (L)
210782	nad5 exon2	TCC (S) => TTC (F)
210696	nad5 exon2	CTT (L) => TTT (F)
210680	nad5 exon2	CCA (P) => CTA (L)
210656	nad5 exon2	TCT (S) => TTT (F)
210560	nad5 exon2	ACA (T) => ATA (I)
210548	nad5 exon2	CCT (P) => CTT (L)
210515	nad5 exon2	CCT (P) => CTT (L)
210501	nad5 exon2	CGT (R) => TGT (C)
210456	nad5 exon2	CGT (R) => TGT (C)
210425	nad5 exon2	TCT (S) => TTT (F)
210378	nad5 exon2	CTT (L) => TTT (F)
210341	nad5 exon2	TCG (S) => TTG (L)
210329	nad5 exon2	TCA (S) => TTA (L)
210219	nad5 exon2	CCA (P) => TCA (S)
210191	nad5 exon2	TCT (S) => TTT (F)
210179	nad5 exon2	ACG (T) => ATG (M)

Position	CDS/exon name	codon/AA change
209744	nad5 exon2	TCA (S) => TTA (L)
162221	nad5 exon4	CCC (P) => CTC (L)
162281	nad5 exon4	ACC (T) => ATC (I)
162311	nad5 exon4	TCA (S) => TTA (L)
162320	nad5 exon4	TCT (S) => TTT (F)
162341	nad5 exon4	CCC (P) => CTC (L)
163556	nad5 exon5	TCA (S) => TTA (L)
163577	nad5 exon5	TCT (S) => TTT (F)
163579	nad5 exon5	CGT (R) => TGT (C)
163619	nad5 exon5	TCG (S) => TTG (L)
337562	nad6 CDS	CTT (L) => TTT (F)
337516	nad6 CDS	GCA (A) => GTA (V)
337481	nad6 CDS	CCC (P) => TTC (F)
337480	nad6 CDS	CCC (P) => TTC (F)
337474	nad6 CDS	CCA (P) => CTA (L)
337466	nad6 CDS	CGC (R) => TGC (C)
337423	nad6 CDS	TCC (S) => TTC (F)
337408	nad6 CDS	CCA (P) => CTA (L)
337400	nad6 CDS	CAT (H) => TAT (Y)
337378	nad6 CDS	TCA (S) => TTA (L)
337280	nad6 CDS	CTT (L) => TTT (F)
337106	nad6 CDS	CCT (P) => TCT (S)
244209	nad7 exon1	TCG (S) => TTG (L)
244215	nad7 exon1	TCC (S) => TTC (F)
244248	nad7 exon1	TCA (S) => TTA (L)
244254	nad7 exon1	TCA (S) => TTA (L)
244308	nad7 exon1	TCA (S) => TTA (L)
245281	nad7 exon2	TCT (S) => TTT (F)
246638	nad7 exon3	ACG (T) => ATG (M)
246658	nad7 exon3	CAT (H) => TAT (Y)
246665	nad7 exon3	TCA (S) => TTA (L)
246730	nad7 exon3	CGT (R) => TGT (C)
246749	nad7 exon3	TCA (S) => TTA (L)
246758	nad7 exon3	TCA (S) => TTA (L)
246797	nad7 exon3	TCA (S) => TTA (L)
246806	nad7 exon3	TCC (S) => TTC (F)
246992	nad7 exon3	TCA (S) => TTA (L)
248147	nad7 exon4	CCA (P) => TCA (S)
248166	nad7 exon4	TCG (S) => TTG (L)
248192	nad7 exon4	CAT (H) => TAT (Y)
248202	nad7 exon4	TCG (S) => TTG (L)
248207	nad7 exon4	CCT (P) => TTT (F)

Position	CDS/exon name	codon/AA change
248208	nad7 exon4	CCT (P) => TTT (F)
248237	nad7 exon4	CGC (R) => TGC (C)
248304	nad7 exon4	CCT (P) => CTT (L)
250405	nad7 exon5	TCA (S) => TTA (L)
250452	nad7 exon5	CCT (P) => TCT (S)
250536	nad7 exon5	CGT (R) => TGT (C)
250558	nad7 exon5	TCT (S) => TTT (F)
250567	nad7 exon5	TCA (S) => TTA (L)
250582	nad7 exon5	TCT (S) => TTT (F)
250603	nad7 exon5	CCA (P) => CTA (L)
250645	nad7 exon5	TCT (S) => TTT (F)
255237	nad9 CDS	TCC (S) => TTC (F)
255159	nad9 CDS	TCT (S) => TTT (F)
255138	nad9 CDS	CCA (P) => CTA (L)
255084	nad9 CDS	TCG (S) => TTG (L)
254953	nad9 CDS	CCG (P) => TCG (S)
254923	nad9 CDS	CGG (R) => TGG (W)
254883	nad9 CDS	TCC (S) => TTC (F)
254853	nad9 CDS	TCA (S) => TTA (L)
254812	nad9 CDS	CTT (L) => TTT (F)
452811	rpl16 CDS	CAG (Q) => TAG (X)
452959	rpl16 CDS	ACT (T) => ATT (I)
453256	rpl16 CDS	CCA (P) => CTA (L)
453262	rpl16 CDS	TCG (S) => TTG (L)
47744	rpl5 CDS	TCA (S) => TTA (L)
47756	rpl5 CDS	CCG (P) => CTG (L)
47773	rpl5 CDS	CAC (H) => TAC (Y)
47801	rpl5 CDS	TCG (S) => TTG (L)
47878	rpl5 CDS	CGC (R) => TGC (C)
48026	rpl5 CDS	TCG (S) => TTG (L)
48221	rpl5 CDS	CCA (P) => CTA (L)
48224	rpl5 CDS	CCG (P) => CTG (L)
439772	rps10 exon1	ACG (T) => ATG (M)
440008	rps10 exon1	CGG (R) => TGG (W)
442842	rps10 exon2	TCG (S) => TTG (L)
442871	rps10 exon2	CGA (R) => TGA (X)
66841	rps12 CDS	TCG (S) => TTG (L)
66870	rps12 CDS	CGC (R) => TGC (C)
66874	rps12 CDS	CCG (P) => CTG (L)
66916	rps12 CDS	CCA (P) => CTA (L)
66966	rps12 CDS	CAC (H) => TAC (Y)
66991	rps12 CDS	TCG (S) => TTG (L)

Position	CDS/exon name	codon/AA change
67054	rps12 CDS	TCC (S) => TTC (F)
48317	rps14 CDS	GCG (A) => GTG (V)
48464	rps14 CDS	TCC (S) => TTC (F)
48541	rps14 CDS	CCT (P) => TCT (S)
451704	rps3 exon2	TCA (S) => TTA (L)
451905	rps3 exon2	TCG (S) => TTG (L)
452223	rps3 exon2	CCA (P) => CTA (L)
452556	rps3 exon2	CCG (P) => CTG (L)
452694	rps3 exon2	TCA (S) => TTA (L)
452747	rps3 exon2	CGT (R) => TGT (C)
452811	rps3 exon2	TCA (S) => TTA (L)
305839	rps4 CDS	TCA (S) => TTA (L)
305850	rps4 CDS	CGG (R) => TGG (W)
305934	rps4 CDS	CCG (P) => TCG (S)
305965	rps4 CDS	TCA (S) => TTA (L)
305985	rps4 CDS	CCC (P) => TCC (S)
305994	rps4 CDS	CAT (H) => TAT (Y)
306067	rps4 CDS	CCA (P) => CTA (L)
306079	rps4 CDS	TCG (S) => TTG (L)
306091	rps4 CDS	CCG (P) => CTG (L)
306108	rps4 CDS	CGT (R) => TGT (C)
306136	rps4 CDS	CCG (P) => CTG (L)
306283	rps4 CDS	TCA (S) => TTA (L)
306718	rps4 CDS	TCG (S) => TTG (L)
306729	rps4 CDS	CAT (H) => TAT (Y)
306739	rps4 CDS	CCA (P) => CTA (L)
306805	rps4 CDS	CCA (P) => CTA (L)
306814	rps4 CDS	CCT (P) => CTT (L)
306819	rps4 CDS	CGG (R) => TGG (W)

Table S11. Predicted RNA editing sites of the mitochondrial genome of *Vicia faba*

Position	CDS/exon name	codon/AA change
368178	atp1 CDS	CCG (P) => CTG (L)
69160	atp4 CDS	CCA (P) => CTA (L)
69163	atp4 CDS	TCT (S) => TTT (F)
69193	atp4 CDS	TCA (S) => TTA (L)
69222	atp4 CDS	CGT (R) => TGT (C)
69319	atp4 CDS	TCG (S) => TTG (L)
69330	atp4 CDS	CCC (P) => TTC (F)
69331	atp4 CDS	CCC (P) => TTC (F)
69352	atp4 CDS	CCT (P) => CTT (L)
69499	atp4 CDS	TCA (S) => TTA (L)
69511	atp4 CDS	CCA (P) => CTA (L)
69520	atp4 CDS	ACT (T) => ATT (I)
69594	atp4 CDS	CCC (P) => TCC (S)
2975	atp6 CDS	CCC (P) => TCC (S)
2896	atp6 CDS	TCA (S) => TTA (L)
2845	atp6 CDS	CCG (P) => CTG (L)
2377	atp6 CDS	CCG (P) => CTG (L)
2356	atp6 CDS	TCA (S) => TTA (L)
2348	atp6 CDS	CAT (H) => TAT (Y)
2341	atp6 CDS	TCT (S) => TTT (F)
2332	atp6 CDS	TCA (S) => TTA (L)
2305	atp6 CDS	ACA (T) => ATA (I)
2294	atp6 CDS	CAA (Q) => TAA (X)
143523	atp8 CDS	TCA (S) => TTA (L)
143512	atp8 CDS	CTC (L) => TTC (F)
143115	atp8 CDS	CCA (P) => CTA (L)
129094	atp9 CDS	TCA (S) => TTA (L)
129124	atp9 CDS	TCA (S) => TTA (L)
155834	ccmB CDS	CCC (P) => TCC (S)
155806	ccmB CDS	CCA (P) => CTA (L)
155797	ccmB CDS	TCG (S) => TTG (L)
155749	ccmB CDS	TCA (S) => TTA (L)
155740	ccmB CDS	TCC (S) => TTC (F)
155728	ccmB CDS	CCG (P) => CTG (L)
155723	ccmB CDS	CGG (R) => TGG (W)
155717	ccmB CDS	CCT (P) => TCT (S)
155713	ccmB CDS	TCG (S) => TTG (L)
155698	ccmB CDS	CCT (P) => CTT (L)
155696	ccmB CDS	CCC (P) => TCC (S)
155684	ccmB CDS	CCT (P) => TTT (F)
155683	ccmB CDS	CCT (P) => TTT (F)

Position	CDS/exon name	codon/AA change
155591	ccmB CDS	CGG (R) => TGG (W)
155539	ccmB CDS	CCG (P) => CTG (L)
155510	ccmB CDS	CGG (R) => TGG (W)
155453	ccmB CDS	CGT (R) => TGT (C)
155410	ccmB CDS	TCG (S) => TTG (L)
155401	ccmB CDS	CCA (P) => CTA (L)
155392	ccmB CDS	TCA (S) => TTA (L)
155383	ccmB CDS	TCA (S) => TTA (L)
155374	ccmB CDS	CCA (P) => CTA (L)
155365	ccmB CDS	TCT (S) => TTT (F)
155363	ccmB CDS	CGT (R) => TGT (C)
155326	ccmB CDS	TCA (S) => TTA (L)
155323	ccmB CDS	TCG (S) => TTG (L)
155311	ccmB CDS	TCC (S) => TTC (F)
155308	ccmB CDS	TCT (S) => TTT (F)
155305	ccmB CDS	CCG (P) => CTG (L)
287068	ccmC CDS	CGG (R) => TGG (W)
287095	ccmC CDS	CAT (H) => TAT (Y)
287107	ccmC CDS	CGG (R) => TGG (W)
287125	ccmC CDS	CTT (L) => TTT (F)
287171	ccmC CDS	GCG (A) => GTG (V)
287176	ccmC CDS	CGG (R) => TGG (W)
287273	ccmC CDS	ACA (T) => ATA (I)
287323	ccmC CDS	CGG (R) => TGG (W)
287387	ccmC CDS	TCG (S) => TTG (L)
287413	ccmC CDS	CGT (R) => TGT (C)
287428	ccmC CDS	CCT (P) => TCT (S)
287438	ccmC CDS	CCG (P) => CTG (L)
287443	ccmC CDS	CCT (P) => TCT (S)
287450	ccmC CDS	TCA (S) => TTA (L)
287455	ccmC CDS	CGT (R) => TGT (C)
287459	ccmC CDS	GCT (A) => GTT (V)
287465	ccmC CDS	CCG (P) => CTG (L)
287489	ccmC CDS	TCT (S) => TTT (F)
287540	ccmC CDS	TCT (S) => TTT (F)
287560	ccmC CDS	CCT (P) => TCT (S)
287567	ccmC CDS	CCC (P) => CTC (L)
287600	ccmC CDS	CCC (P) => CTC (L)
287602	ccmC CDS	CTC (L) => TTC (F)
287606	ccmC CDS	TCA (S) => TTA (L)
287611	ccmC CDS	CGT (R) => TGT (C)
287642	ccmC CDS	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
287657	ccmC CDS	CCC (P) => CTC (L)
287665	ccmC CDS	CCT (P) => TCT (S)
446596	ccmFc exon1	TCT (S) => TTT (F)
446584	ccmFc exon1	CCT (P) => CTT (L)
446582	ccmFc exon1	CGT (R) => TGT (C)
446531	ccmFc exon1	CCC (P) => TCC (S)
446512	ccmFc exon1	TCC (S) => TTC (F)
446483	ccmFc exon1	CCT (P) => TCT (S)
446479	ccmFc exon1	TCA (S) => TTA (L)
446474	ccmFc exon1	CCT (P) => TCT (S)
446329	ccmFc exon1	TCA (S) => TTA (L)
446324	ccmFc exon1	CGT (R) => TGT (C)
446228	ccmFc exon1	CGT (R) => TGT (C)
446222	ccmFc exon1	CTC (L) => TTC (F)
445928	ccmFc exon1	CAC (H) => TAC (Y)
445918	ccmFc exon1	GCT (A) => GTT (V)
444563	ccmFc exon2	TCT (S) => TTT (F)
444302	ccmFc exon2	CCA (P) => CTA (L)
444281	ccmFc exon2	TCG (S) => TTG (L)
444207	ccmFc exon2	CGG (R) => TGG (W)
444182	ccmFc exon2	TCG (S) => TTG (L)
444126	ccmFc exon2	CGA (R) => TGA (X)
79826	ccmFn CDS	CCG (P) => CTG (L)
79766	ccmFn CDS	CCT (P) => CTT (L)
79727	ccmFn CDS	TCG (S) => TTG (L)
79722	ccmFn CDS	CGT (R) => TGT (C)
79713	ccmFn CDS	CCT (P) => TCT (S)
79616	ccmFn CDS	TCA (S) => TTA (L)
79608	ccmFn CDS	CGG (R) => TGG (W)
79601	ccmFn CDS	CCA (P) => CTA (L)
79581	ccmFn CDS	CTT (L) => TTT (F)
79530	ccmFn CDS	CAT (H) => TAT (Y)
79502	ccmFn CDS	TCG (S) => TTG (L)
79389	ccmFn CDS	CGT (R) => TGT (C)
79308	ccmFn CDS	CCT (P) => TTT (F)
79307	ccmFn CDS	CCT (P) => TTT (F)
79158	ccmFn CDS	CCT (P) => TTT (F)
79157	ccmFn CDS	CCT (P) => TTT (F)
79148	ccmFn CDS	TCA (S) => TTA (L)
79110	ccmFn CDS	CGT (R) => TGT (C)
79088	ccmFn CDS	TCA (S) => TTA (L)
79076	ccmFn CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
79061	ccmFn CDS	TCA (S) => TTA (L)
78912	ccmFn CDS	CGC (R) => TGC (C)
78594	ccmFn CDS	CGG (R) => TGG (W)
78566	ccmFn CDS	CCA (P) => CTA (L)
78549	ccmFn CDS	CAT (H) => TAT (Y)
78534	ccmFn CDS	CGG (R) => TGG (W)
78516	ccmFn CDS	CGG (R) => TGG (W)
78465	ccmFn CDS	CGT (R) => TGT (C)
78422	ccmFn CDS	TCG (S) => TTG (L)
78402	ccmFn CDS	CTT (L) => TTT (F)
78398	ccmFn CDS	CCA (P) => CTA (L)
78386	ccmFn CDS	TCA (S) => TTA (L)
78303	ccmFn CDS	CGG (R) => TGG (W)
34894	cob CDS	CTC (L) => TTC (F)
34882	cob CDS	CAC (H) => TAC (Y)
34855	cob CDS	CAT (H) => TAT (Y)
34822	cob CDS	CGG (R) => TGG (W)
34773	cob CDS	ACA (T) => ATA (I)
34761	cob CDS	CCA (P) => CTA (L)
34612	cob CDS	CAT (H) => TAT (Y)
34372	cob CDS	CCC (P) => TCC (S)
34327	cob CDS	CAT (H) => TAT (Y)
34272	cob CDS	CCT (P) => CTT (L)
34198	cob CDS	CAC (H) => TAC (Y)
34165	cob CDS	CGC (R) => TGC (C)
34099	cob CDS	CCT (P) => TCT (S)
34096	cob CDS	CCT (P) => TCT (S)
34056	cob CDS	CCG (P) => CTG (L)
383214	cox1 CDS	CCG (P) => CTG (L)
382983	cox1 CDS	TCT (S) => TTT (F)
382971	cox1 CDS	TCT (S) => TTT (F)
382782	cox1 CDS	TCA (S) => TTA (L)
382773	cox1 CDS	TCT (S) => TTT (F)
382710	cox1 CDS	TCC (S) => TTC (F)
382674	cox1 CDS	TCA (S) => TTA (L)
382650	cox1 CDS	CCA (P) => CTA (L)
382635	cox1 CDS	CCA (P) => CTA (L)
382557	cox1 CDS	TCT (S) => TTT (F)
382510	cox1 CDS	CGG (R) => TGG (W)
382479	cox1 CDS	CCA (P) => CTA (L)
382464	cox1 CDS	TCC (S) => TTC (F)
382146	cox1 CDS	CCG (P) => CTG (L)

Position	CDS/exon name	codon/AA change
382039	cox1 CDS	CAC (H) => TAC (Y)
381946	cox1 CDS	CTC (L) => TTC (F)
381823	cox1 CDS	CGT (R) => TGT (C)
381820	cox1 CDS	CGT (R) => TGT (C)
381792	cox1 CDS	TCA (S) => TTA (L)
124203	cox3 CDS	CCT (P) => CTT (L)
124215	cox3 CDS	TCT (S) => TTT (F)
124221	cox3 CDS	TCG (S) => TTG (L)
124247	cox3 CDS	CTT (L) => TTT (F)
124262	cox3 CDS	CGG (R) => TGG (W)
124269	cox3 CDS	TCT (S) => TTT (F)
124272	cox3 CDS	TCT (S) => TTT (F)
124346	cox3 CDS	CGG (R) => TGG (W)
124371	cox3 CDS	CCT (P) => CTT (L)
124470	cox3 CDS	TCA (S) => TTA (L)
124712	cox3 CDS	CGG (R) => TGG (W)
124722	cox3 CDS	CCA (P) => CTA (L)
90184	matR CDS	TCC (S) => TTC (F)
90237	matR CDS	CGC (R) => TGC (C)
90345	matR CDS	CCA (P) => TCA (S)
90388	matR CDS	TCC (S) => TTC (F)
90478	matR CDS	CCA (P) => CTA (L)
91222	matR CDS	CCC (P) => CTC (L)
91567	matR CDS	GCG (A) => GTG (V)
91837	matR CDS	TCT (S) => TTT (F)
91858	matR CDS	CCT (P) => CTT (L)
91914	matR CDS	CAC (H) => TAC (Y)
91984	matR CDS	CCC (P) => CTC (L)
92002	matR CDS	TCA (S) => TTA (L)
269952	mttB CDS	CGG (R) => TGG (W)
269988	mttB CDS	CGT (R) => TGT (C)
270000	mttB CDS	CCG (P) => TCG (S)
270016	mttB CDS	TCT (S) => TTT (F)
270019	mttB CDS	CCA (P) => CTA (L)
270076	mttB CDS	TCA (S) => TTA (L)
270088	mttB CDS	TCC (S) => TTC (F)
270090	mttB CDS	CCG (P) => TCG (S)
270150	mttB CDS	CAT (H) => TAT (Y)
270216	mttB CDS	CTC (L) => TTC (F)
270232	mttB CDS	TCT (S) => TTT (F)
270234	mttB CDS	CGC (R) => TGC (C)
270241	mttB CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
270264	mttB CDS	CCC (P) => TCC (S)
270267	mttB CDS	CGG (R) => TGG (W)
270325	mttB CDS	TCG (S) => TTG (L)
270360	mttB CDS	CAT (H) => TAT (Y)
270385	mttB CDS	TCG (S) => TTG (L)
270393	mttB CDS	CCA (P) => TCA (S)
270436	mttB CDS	CCA (P) => CTA (L)
270442	mttB CDS	CCA (P) => CTA (L)
270498	mttB CDS	CCG (P) => TCG (S)
270555	mttB CDS	CGT (R) => TGT (C)
270571	mttB CDS	TCG (S) => TTG (L)
270601	mttB CDS	TCG (S) => TTG (L)
43441	nad1 exon1	ACG (T) => ATG (M)
43228	nad1 exon1	TCC (S) => TTC (F)
43178	nad1 exon1	CGG (R) => TGG (W)
43135	nad1 exon1	TCG (S) => TTG (L)
43075	nad1 exon1	ACA (T) => ATA (I)
378640	nad1 exon3	CCC (P) => TCC (S)
378637	nad1 exon3	CGT (R) => TGT (C)
378630	nad1 exon3	TCG (S) => TTG (L)
378594	nad1 exon3	TCC (S) => TTC (F)
378550	nad1 exon3	CGT (R) => TGT (C)
378495	nad1 exon3	TCA (S) => TTA (L)
89461	nad1 exon4	TCT (S) => TTT (F)
92655	nad1 exon5	CCA (P) => CTA (L)
92670	nad1 exon5	TCT (S) => TTT (F)
92673	nad1 exon5	CCA (P) => CTA (L)
92685	nad1 exon5	CCG (P) => CTG (L)
92828	nad1 exon5	CGG (R) => TGG (W)
92858	nad1 exon5	CGG (R) => TGG (W)
92883	nad1 exon5	TCA (S) => TTA (L)
27687	nad2 exon1	TCC (S) => TTC (F)
27717	nad2 exon1	TCC (S) => TTC (F)
29084	nad2 exon2	CGG (R) => TGG (W)
29132	nad2 exon2	CTT (L) => TTT (F)
29178	nad2 exon2	TCT (S) => TTT (F)
29181	nad2 exon2	TCC (S) => TTC (F)
29226	nad2 exon2	CCA (P) => CTA (L)
29231	nad2 exon2	CCT (P) => TCT (S)
29237	nad2 exon2	CGC (R) => TGC (C)
29264	nad2 exon2	CAT (H) => TAT (Y)
29271	nad2 exon2	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
29298	nad2 exon2	CCT (P) => CTT (L)
29367	nad2 exon2	TCG (S) => TTG (L)
417661	nad2 exon3	TCT (S) => TTT (F)
417646	nad2 exon3	TCC (S) => TTC (F)
415379	nad2 exon4	TCA (S) => TTA (L)
415370	nad2 exon4	TCT (S) => TTT (F)
415259	nad2 exon4	CCT (P) => CTT (L)
415251	nad2 exon4	CAT (H) => TAT (Y)
415221	nad2 exon4	CGT (R) => TGT (C)
415217	nad2 exon4	ACT (T) => ATT (I)
415052	nad2 exon4	TCG (S) => TTG (L)
414932	nad2 exon4	CCA (P) => CTA (L)
413383	nad2 exon5	GCG (A) => GTG (V)
413281	nad2 exon5	TCA (S) => TTA (L)
413278	nad2 exon5	TCC (S) => TTC (F)
413272	nad2 exon5	CCA (P) => CTA (L)
413224	nad2 exon5	TCA (S) => TTA (L)
364261	nad3 CDS	TCA (S) => TTA (L)
364336	nad3 CDS	CCC (P) => CTC (L)
364464	nad3 CDS	CCT (P) => TTT (F)
364465	nad3 CDS	CCT (P) => TTT (F)
364471	nad3 CDS	CCG (P) => CTG (L)
364486	nad3 CDS	TCC (S) => TTC (F)
364503	nad3 CDS	CCT (P) => TCT (S)
364507	nad3 CDS	CCC (P) => CTC (L)
364522	nad3 CDS	CCG (P) => CTG (L)
364531	nad3 CDS	TCT (S) => TTT (F)
364573	nad3 CDS	TCT (S) => TTT (F)
364600	nad3 CDS	TCG (S) => TTG (L)
364605	nad3 CDS	CGG (R) => TGG (W)
353323	nad4 exon1	TCT (S) => TTT (F)
353338	nad4 exon1	CCT (P) => CTT (L)
353371	nad4 exon1	CCT (P) => CTT (L)
353401	nad4 exon1	CCG (P) => CTG (L)
353452	nad4 exon1	CCT (P) => CTT (L)
353458	nad4 exon1	CCT (P) => CTT (L)
353460	nad4 exon1	CGG (R) => TGG (W)
353491	nad4 exon1	TCT (S) => TTT (F)
353656	nad4 exon1	ACA (T) => ATA (I)
353662	nad4 exon1	TCT (S) => TTT (F)
353670	nad4 exon1	CGT (R) => TGT (C)
353697	nad4 exon1	CGC (R) => TGC (C)

Position	CDS/exon name	codon/AA change
353710	nad4 exon1	CCT (P) => CTT (L)
353727	nad4 exon1	CTT (L) => TTT (F)
353730	nad4 exon1	CCC (P) => TTC (F)
353731	nad4 exon1	CCC (P) => TTC (F)
355311	nad4 exon2	TCA (S) => TTA (L)
355362	nad4 exon2	TCT (S) => TTT (F)
355533	nad4 exon2	ACT (T) => ATT (I)
358843	nad4 exon3	TCG (S) => TTG (L)
358873	nad4 exon3	CCA (P) => CTA (L)
358876	nad4 exon3	CCG (P) => CTG (L)
358899	nad4 exon3	CCT (P) => TCT (S)
358995	nad4 exon3	CTC (L) => TTC (F)
359008	nad4 exon3	TCC (S) => TTC (F)
359014	nad4 exon3	TCT (S) => TTT (F)
359017	nad4 exon3	TCC (S) => TTC (F)
359038	nad4 exon3	TCA (S) => TTA (L)
359071	nad4 exon3	CCC (P) => CTC (L)
359077	nad4 exon3	TCA (S) => TTA (L)
359221	nad4 exon3	CCA (P) => CTA (L)
359239	nad4 exon3	TCC (S) => TTC (F)
362040	nad4 exon4	CGG (R) => TGG (W)
362052	nad4 exon4	CAC (H) => TAC (Y)
362068	nad4 exon4	CCG (P) => CTG (L)
362073	nad4 exon4	CGC (R) => TGC (C)
68603	nad4L CDS	ACG (T) => ATG (M)
68609	nad4L CDS	CCT (P) => CTT (L)
68642	nad4L CDS	TCT (S) => TTT (F)
68656	nad4L CDS	CGG (R) => TGG (W)
68687	nad4L CDS	CCT (P) => CTT (L)
68696	nad4L CDS	TCA (S) => TTA (L)
68701	nad4L CDS	CCA (P) => TCA (S)
68711	nad4L CDS	TCA (S) => TTA (L)
68732	nad4L CDS	TCG (S) => TTG (L)
68759	nad4L CDS	TCG (S) => TTG (L)
68780	nad4L CDS	TCA (S) => TTA (L)
68789	nad4L CDS	TCA (S) => TTA (L)
68798	nad4L CDS	TCA (S) => TTA (L)
71688	nad5 exon1	CCG (P) => CTG (L)
72649	nad5 exon2	CCG (P) => CTG (L)
72679	nad5 exon2	TCC (S) => TTC (F)
72765	nad5 exon2	CTT (L) => TTT (F)
72781	nad5 exon2	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
72805	nad5 exon2	TCT (S) => TTT (F)
72901	nad5 exon2	ACA (T) => ATA (I)
72913	nad5 exon2	CCT (P) => CTT (L)
72946	nad5 exon2	CCT (P) => CTT (L)
72960	nad5 exon2	CGT (R) => TGT (C)
73005	nad5 exon2	CGT (R) => TGT (C)
73036	nad5 exon2	TCT (S) => TTT (F)
73083	nad5 exon2	CTT (L) => TTT (F)
73120	nad5 exon2	TCG (S) => TTG (L)
73132	nad5 exon2	TCA (S) => TTA (L)
73242	nad5 exon2	CCA (P) => TCA (S)
73270	nad5 exon2	TCT (S) => TTT (F)
73282	nad5 exon2	ACG (T) => ATG (M)
73717	nad5 exon2	TCA (S) => TTA (L)
279779	nad5 exon4	CCC (P) => CTC (L)
279839	nad5 exon4	ACC (T) => ATC (I)
279869	nad5 exon4	TCA (S) => TTA (L)
279878	nad5 exon4	TCT (S) => TTT (F)
279899	nad5 exon4	CCC (P) => CTC (L)
281077	nad5 exon5	TCA (S) => TTA (L)
281098	nad5 exon5	TCT (S) => TTT (F)
281100	nad5 exon5	CGT (R) => TGT (C)
281140	nad5 exon5	TCG (S) => TTG (L)
101460	nad6 CDS	CTT (L) => TTT (F)
101414	nad6 CDS	GCA (A) => GTA (V)
101379	nad6 CDS	CCC (P) => TTC (F)
101378	nad6 CDS	CCC (P) => TTC (F)
101372	nad6 CDS	CCA (P) => CTA (L)
101364	nad6 CDS	CGC (R) => TGC (C)
101321	nad6 CDS	TCC (S) => TTC (F)
101306	nad6 CDS	CCA (P) => CTA (L)
101298	nad6 CDS	CAT (H) => TAT (Y)
101276	nad6 CDS	TCA (S) => TTA (L)
101178	nad6 CDS	CTT (L) => TTT (F)
302223	nad7 exon1	TCG (S) => TTG (L)
302262	nad7 exon1	TCA (S) => TTA (L)
302268	nad7 exon1	TCA (S) => TTA (L)
302322	nad7 exon1	TCA (S) => TTA (L)
303295	nad7 exon2	TCT (S) => TTT (F)
304642	nad7 exon3	ACG (T) => ATG (M)
304662	nad7 exon3	CAT (H) => TAT (Y)
304669	nad7 exon3	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
304734	nad7 exon3	CGT (R) => TGT (C)
304753	nad7 exon3	TCA (S) => TTA (L)
304762	nad7 exon3	TCA (S) => TTA (L)
304801	nad7 exon3	TCA (S) => TTA (L)
304810	nad7 exon3	TCC (S) => TTC (F)
304996	nad7 exon3	TCA (S) => TTA (L)
305097	nad7 exon3	CCA (P) => TCA (S)
306149	nad7 exon4	TCG (S) => TTG (L)
306175	nad7 exon4	CAT (H) => TAT (Y)
306185	nad7 exon4	TCG (S) => TTG (L)
306190	nad7 exon4	CCT (P) => TTT (F)
306191	nad7 exon4	CCT (P) => TTT (F)
306220	nad7 exon4	CGC (R) => TGC (C)
306287	nad7 exon4	CCT (P) => CTT (L)
308426	nad7 exon5	TCA (S) => TTA (L)
308473	nad7 exon5	CCT (P) => TCT (S)
308557	nad7 exon5	CGT (R) => TGT (C)
308579	nad7 exon5	TCT (S) => TTT (F)
308588	nad7 exon5	TCA (S) => TTA (L)
308603	nad7 exon5	TCT (S) => TTT (F)
308624	nad7 exon5	CCA (P) => CTA (L)
308666	nad7 exon5	TCT (S) => TTT (F)
262332	nad9 CDS	TCG (S) => TTG (L)
262201	nad9 CDS	CCG (P) => TCG (S)
262171	nad9 CDS	CGG (R) => TGG (W)
262131	nad9 CDS	TCC (S) => TTC (F)
262101	nad9 CDS	TCA (S) => TTA (L)
262060	nad9 CDS	CTT (L) => TTT (F)
261922	nad9 CDS	CAG (Q) => TAG (X)
188904	rpl16 CDS	CAG (Q) => TAG (X)
189052	rpl16 CDS	ACT (T) => ATT (I)
189349	rpl16 CDS	CCA (P) => CTA (L)
189355	rpl16 CDS	TCG (S) => TTG (L)
37241	rpl5 CDS	TCA (S) => TTA (L)
37229	rpl5 CDS	CCG (P) => CTG (L)
37212	rpl5 CDS	CAC (H) => TAC (Y)
37184	rpl5 CDS	TCG (S) => TTG (L)
37107	rpl5 CDS	CGC (R) => TGC (C)
36959	rpl5 CDS	TCG (S) => TTG (L)
36764	rpl5 CDS	CCA (P) => CTA (L)
36761	rpl5 CDS	CCG (P) => CTG (L)
384516	rps10 exon1	CGG (R) => TGG (W)

Position	CDS/exon name	codon/AA change
383230	rps10 exon2	TCG (S) => TTG (L)
383201	rps10 exon2	CGA (R) => TGA (X)
364732	rps12 CDS	TCG (S) => TTG (L)
364761	rps12 CDS	CGC (R) => TGC (C)
364765	rps12 CDS	CCG (P) => CTG (L)
364807	rps12 CDS	CCA (P) => CTA (L)
364857	rps12 CDS	CAC (H) => TAC (Y)
364882	rps12 CDS	TCG (S) => TTG (L)
364945	rps12 CDS	TCC (S) => TTC (F)
36668	rps14 CDS	GCG (A) => GTG (V)
36521	rps14 CDS	TCC (S) => TTC (F)
36444	rps14 CDS	CCT (P) => TCT (S)
500607	rps3 exon1	CGG (R) => TGG (W)
502846	rps3 exon2	TCA (S) => TTA (L)
502891	rps3 exon2	GCT (A) => GTT (V)
503047	rps3 exon2	TCG (S) => TTG (L)
503365	rps3 exon2	CCA (P) => CTA (L)
503698	rps3 exon2	CCG (P) => CTG (L)
503836	rps3 exon2	TCA (S) => TTA (L)
503889	rps3 exon2	CGT (R) => TGT (C)
503953	rps3 exon2	TCA (S) => TTA (L)
401354	rps4 CDS	TCA (S) => TTA (L)
401343	rps4 CDS	CGG (R) => TGG (W)
401259	rps4 CDS	CCG (P) => TCG (S)
401228	rps4 CDS	TCA (S) => TTA (L)
401208	rps4 CDS	CCC (P) => TCC (S)
401199	rps4 CDS	CAT (H) => TAT (Y)
401126	rps4 CDS	CCA (P) => CTA (L)
401114	rps4 CDS	TCG (S) => TTG (L)
401102	rps4 CDS	CCG (P) => CTG (L)
401085	rps4 CDS	CGT (R) => TGT (C)
401057	rps4 CDS	CCG (P) => CTG (L)
400910	rps4 CDS	TCA (S) => TTA (L)
400475	rps4 CDS	TCG (S) => TTG (L)
400464	rps4 CDS	CAT (H) => TAT (Y)
400454	rps4 CDS	CCA (P) => CTA (L)
400388	rps4 CDS	CCA (P) => CTA (L)
400379	rps4 CDS	CCT (P) => CTT (L)
400374	rps4 CDS	CGG (R) => TGG (W)

Table S12. Predicted RNA editing sites of the mitochondrial genome of *Vigna angularis*

Position	CDS/exon name	codon/AA change
176655	atp1 CDS	CCT (P) => TCT (S)
214741	atp4 CDS	CCA (P) => CTA (L)
214744	atp4 CDS	TCT (S) => TTT (F)
214774	atp4 CDS	TCA (S) => TTA (L)
214803	atp4 CDS	CGT (R) => TGT (C)
214900	atp4 CDS	TCG (S) => TTG (L)
214911	atp4 CDS	CCC (P) => TTC (F)
214912	atp4 CDS	CCC (P) => TTC (F)
214933	atp4 CDS	CCT (P) => CTT (L)
215080	atp4 CDS	TCA (S) => TTA (L)
215092	atp4 CDS	CCA (P) => CTA (L)
215101	atp4 CDS	ACT (T) => ATT (I)
215175	atp4 CDS	CCC (P) => TCC (S)
289022	atp6 CDS	CCC (P) => TCC (S)
288943	atp6 CDS	TCA (S) => TTA (L)
288892	atp6 CDS	CCG (P) => CTG (L)
288814	atp6 CDS	TCG (S) => TTG (L)
288799	atp6 CDS	CCC (P) => CTC (L)
288667	atp6 CDS	TCA (S) => TTA (L)
288608	atp6 CDS	CCT (P) => TCT (S)
288605	atp6 CDS	CAT (H) => TAT (Y)
288583	atp6 CDS	TCA (S) => TTA (L)
288541	atp6 CDS	TCA (S) => TTA (L)
288520	atp6 CDS	TCC (S) => TTC (F)
288433	atp6 CDS	CCG (P) => CTG (L)
288412	atp6 CDS	TCA (S) => TTA (L)
288404	atp6 CDS	CAT (H) => TAT (Y)
288397	atp6 CDS	TCT (S) => TTT (F)
288388	atp6 CDS	TCA (S) => TTA (L)
288361	atp6 CDS	ACA (T) => ATA (I)
288350	atp6 CDS	CAA (Q) => TAA (X)
170021	atp8 CDS	TCA (S) => TTA (L)
170032	atp8 CDS	CTC (L) => TTC (F)
170429	atp8 CDS	CCA (P) => CTA (L)
114075	atp9 CDS	TCA (S) => TTA (L)
114045	atp9 CDS	TCA (S) => TTA (L)
12012	ccmB CDS	CCC (P) => TCC (S)
12040	ccmB CDS	CCA (P) => CTA (L)
12049	ccmB CDS	TCG (S) => TTG (L)
12097	ccmB CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
12106	ccmB CDS	TCC (S) => TTC (F)
12118	ccmB CDS	CCG (P) => CTG (L)
12123	ccmB CDS	CGG (R) => TGG (W)
12129	ccmB CDS	CCT (P) => TCT (S)
12133	ccmB CDS	TCG (S) => TTG (L)
12148	ccmB CDS	CCT (P) => CTT (L)
12150	ccmB CDS	CCC (P) => TCC (S)
12162	ccmB CDS	CCT (P) => TTT (F)
12163	ccmB CDS	CCT (P) => TTT (F)
12255	ccmB CDS	CGG (R) => TGG (W)
12307	ccmB CDS	CCG (P) => CTG (L)
12336	ccmB CDS	CGG (R) => TGG (W)
12349	ccmB CDS	CCA (P) => CTA (L)
12352	ccmB CDS	TCA (S) => TTA (L)
12393	ccmB CDS	CGT (R) => TGT (C)
12436	ccmB CDS	TCG (S) => TTG (L)
12445	ccmB CDS	CCA (P) => CTA (L)
12454	ccmB CDS	TCA (S) => TTA (L)
12463	ccmB CDS	TCA (S) => TTA (L)
12472	ccmB CDS	CCA (P) => CTA (L)
12481	ccmB CDS	TCT (S) => TTT (F)
12483	ccmB CDS	CGT (R) => TGT (C)
12520	ccmB CDS	TCA (S) => TTA (L)
12523	ccmB CDS	TCG (S) => TTG (L)
12535	ccmB CDS	TCC (S) => TTC (F)
12538	ccmB CDS	TCT (S) => TTT (F)
12541	ccmB CDS	CCG (P) => CTG (L)
396386	ccmC CDS	CGG (R) => TGG (W)
396413	ccmC CDS	CAT (H) => TAT (Y)
396425	ccmC CDS	CGG (R) => TGG (W)
396443	ccmC CDS	CTT (L) => TTT (F)
396489	ccmC CDS	GCG (A) => GTG (V)
396494	ccmC CDS	CGG (R) => TGG (W)
396567	ccmC CDS	TCT (S) => TTT (F)
396591	ccmC CDS	ACA (T) => ATA (I)
396641	ccmC CDS	CGG (R) => TGG (W)
396705	ccmC CDS	TCG (S) => TTG (L)
396731	ccmC CDS	CGT (R) => TGT (C)
396746	ccmC CDS	CCT (P) => TCT (S)
396756	ccmC CDS	CCG (P) => CTG (L)
396761	ccmC CDS	CCT (P) => TCT (S)
396768	ccmC CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
396773	ccmC CDS	CGT (R) => TGT (C)
396777	ccmC CDS	GCT (A) => GTT (V)
396783	ccmC CDS	CCG (P) => CTG (L)
396807	ccmC CDS	TCT (S) => TTT (F)
396858	ccmC CDS	TCT (S) => TTT (F)
396878	ccmC CDS	CCT (P) => TCT (S)
396885	ccmC CDS	CCC (P) => CTC (L)
396918	ccmC CDS	CCC (P) => CTC (L)
396920	ccmC CDS	CTC (L) => TTC (F)
396924	ccmC CDS	TCA (S) => TTA (L)
396929	ccmC CDS	CGT (R) => TGT (C)
396960	ccmC CDS	CCT (P) => CTT (L)
396975	ccmC CDS	CCC (P) => CTC (L)
396983	ccmC CDS	CCT (P) => TCT (S)
365045	ccmFc exon1	TCT (S) => TTT (F)
365057	ccmFc exon1	CCT (P) => CTT (L)
365059	ccmFc exon1	CGT (R) => TGT (C)
365110	ccmFc exon1	CCC (P) => TCC (S)
365129	ccmFc exon1	TCC (S) => TTC (F)
365158	ccmFc exon1	CCT (P) => TCT (S)
365162	ccmFc exon1	TCA (S) => TTA (L)
365167	ccmFc exon1	CCT (P) => TCT (S)
365312	ccmFc exon1	TCA (S) => TTA (L)
365317	ccmFc exon1	CGT (R) => TGT (C)
365413	ccmFc exon1	CGT (R) => TGT (C)
365419	ccmFc exon1	CTC (L) => TTC (F)
365713	ccmFc exon1	CAC (H) => TAC (Y)
365723	ccmFc exon1	GCT (A) => GTT (V)
369982	ccmFc exon2	TCT (S) => TTT (F)
370243	ccmFc exon2	CCA (P) => CTA (L)
370264	ccmFc exon2	TCG (S) => TTG (L)
370338	ccmFc exon2	CGG (R) => TGG (W)
370363	ccmFc exon2	TCG (S) => TTG (L)
370419	ccmFc exon2	CGA (R) => TGA (X)
196585	ccmFn CDS	CCG (P) => CTG (L)
196525	ccmFn CDS	CCT (P) => CTT (L)
196486	ccmFn CDS	TCG (S) => TTG (L)
196481	ccmFn CDS	CGT (R) => TGT (C)
196472	ccmFn CDS	CCT (P) => TCT (S)
196375	ccmFn CDS	TCA (S) => TTA (L)
196367	ccmFn CDS	CGG (R) => TGG (W)
196360	ccmFn CDS	CCA (P) => CTA (L)

Position	CDS/exon name	codon/AA change
196340	ccmFn CDS	CTT (L) => TTT (F)
196289	ccmFn CDS	CAT (H) => TAT (Y)
196261	ccmFn CDS	TCG (S) => TTG (L)
196148	ccmFn CDS	CGT (R) => TGT (C)
196067	ccmFn CDS	CCT (P) => TTT (F)
196066	ccmFn CDS	CCT (P) => TTT (F)
195917	ccmFn CDS	CCT (P) => TTT (F)
195916	ccmFn CDS	CCT (P) => TTT (F)
195907	ccmFn CDS	TCA (S) => TTA (L)
195869	ccmFn CDS	CGT (R) => TGT (C)
195847	ccmFn CDS	TCA (S) => TTA (L)
195835	ccmFn CDS	CCA (P) => CTA (L)
195820	ccmFn CDS	TCA (S) => TTA (L)
195671	ccmFn CDS	CGC (R) => TGC (C)
195353	ccmFn CDS	CGG (R) => TGG (W)
195325	ccmFn CDS	CCA (P) => CTA (L)
195308	ccmFn CDS	CAT (H) => TAT (Y)
195293	ccmFn CDS	CGG (R) => TGG (W)
195275	ccmFn CDS	CGG (R) => TGG (W)
195224	ccmFn CDS	CGT (R) => TGT (C)
195181	ccmFn CDS	TCG (S) => TTG (L)
195161	ccmFn CDS	CTT (L) => TTT (F)
195157	ccmFn CDS	CCA (P) => CTA (L)
195145	ccmFn CDS	TCA (S) => TTA (L)
195062	ccmFn CDS	CGG (R) => TGG (W)
265360	cob CDS	CTC (L) => TTC (F)
265372	cob CDS	CAC (H) => TAC (Y)
265399	cob CDS	CAT (H) => TAT (Y)
265432	cob CDS	CGG (R) => TGG (W)
265481	cob CDS	ACA (T) => ATA (I)
265642	cob CDS	CAT (H) => TAT (Y)
265882	cob CDS	CCC (P) => TCC (S)
265927	cob CDS	CAT (H) => TAT (Y)
265982	cob CDS	CCA (P) => CTA (L)
266056	cob CDS	CAC (H) => TAC (Y)
266089	cob CDS	CGC (R) => TGC (C)
266155	cob CDS	CCT (P) => TCT (S)
266158	cob CDS	CCT (P) => TCT (S)
266198	cob CDS	CCG (P) => CTG (L)
219839	cox1 CDS	CCG (P) => CTG (L)
220070	cox1 CDS	TCT (S) => TTT (F)
220082	cox1 CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
220271	cox1 CDS	TCA (S) => TTA (L)
220280	cox1 CDS	TCT (S) => TTT (F)
220343	cox1 CDS	TCC (S) => TTC (F)
220379	cox1 CDS	TCA (S) => TTA (L)
220403	cox1 CDS	CCA (P) => CTA (L)
220418	cox1 CDS	CCA (P) => CTA (L)
220496	cox1 CDS	TCT (S) => TTT (F)
220543	cox1 CDS	CGG (R) => TGG (W)
220574	cox1 CDS	CCC (P) => CTC (L)
220589	cox1 CDS	TCC (S) => TTC (F)
221014	cox1 CDS	CAC (H) => TAC (Y)
221107	cox1 CDS	CTC (L) => TTC (F)
221233	cox1 CDS	CGT (R) => TGT (C)
221261	cox1 CDS	TCA (S) => TTA (L)
376733	cox3 CDS	CCT (P) => CTT (L)
376745	cox3 CDS	TCT (S) => TTT (F)
376751	cox3 CDS	CCG (P) => CTG (L)
376777	cox3 CDS	CTT (L) => TTT (F)
376792	cox3 CDS	CGG (R) => TGG (W)
376799	cox3 CDS	TCT (S) => TTT (F)
376802	cox3 CDS	TCT (S) => TTT (F)
376901	cox3 CDS	CCT (P) => CTT (L)
377000	cox3 CDS	TCA (S) => TTA (L)
377242	cox3 CDS	CGG (R) => TGG (W)
67309	matR CDS	TCC (S) => TTC (F)
67256	matR CDS	CGC (R) => TGC (C)
67148	matR CDS	CCA (P) => TCA (S)
67105	matR CDS	TCC (S) => TTC (F)
67015	matR CDS	CCA (P) => CTA (L)
66604	matR CDS	TCT (S) => TTT (F)
66484	matR CDS	CCG (P) => CTG (L)
66277	matR CDS	CCC (P) => CTC (L)
65932	matR CDS	GCG (A) => GTG (V)
65662	matR CDS	TCT (S) => TTT (F)
65641	matR CDS	CCT (P) => CTT (L)
65621	matR CDS	CGC (R) => TGC (C)
65585	matR CDS	CAC (H) => TAC (Y)
65515	matR CDS	CCA (P) => CTA (L)
65497	matR CDS	TCA (S) => TTA (L)
241219	mttB CDS	CGG (R) => TGG (W)
241255	mttB CDS	CGT (R) => TGT (C)
241267	mttB CDS	CCG (P) => TCG (S)

Position	CDS/exon name	codon/AA change
241283	mttB CDS	TCT (S) => TTT (F)
241286	mttB CDS	CCA (P) => CTA (L)
241343	mttB CDS	TCA (S) => TTA (L)
241355	mttB CDS	TCC (S) => TTC (F)
241357	mttB CDS	CCG (P) => TCG (S)
241417	mttB CDS	CAT (H) => TAT (Y)
241483	mttB CDS	CTC (L) => TTC (F)
241499	mttB CDS	TCT (S) => TTT (F)
241501	mttB CDS	CGC (R) => TGC (C)
241508	mttB CDS	TCC (S) => TTC (F)
241531	mttB CDS	CCC (P) => TCC (S)
241534	mttB CDS	CGG (R) => TGG (W)
241592	mttB CDS	TCG (S) => TTG (L)
241627	mttB CDS	CAT (H) => TAT (Y)
241652	mttB CDS	TCG (S) => TTG (L)
241660	mttB CDS	CCA (P) => TCA (S)
241703	mttB CDS	CCA (P) => CTA (L)
241709	mttB CDS	CCA (P) => CTA (L)
241732	mttB CDS	CTC (L) => TTC (F)
241765	mttB CDS	CCG (P) => TCG (S)
241822	mttB CDS	CGT (R) => TGT (C)
241838	mttB CDS	TCG (S) => TTG (L)
241868	mttB CDS	TCG (S) => TTG (L)
13278	nad1 exon1	ACG (T) => ATG (M)
13491	nad1 exon1	TCC (S) => TTC (F)
13541	nad1 exon1	CGG (R) => TGG (W)
13584	nad1 exon1	TCG (S) => TTG (L)
13644	nad1 exon1	ACA (T) => ATA (I)
224431	nad1 exon3	CCC (P) => TCC (S)
224434	nad1 exon3	CGT (R) => TGT (C)
224441	nad1 exon3	TCG (S) => TTG (L)
224477	nad1 exon3	TCC (S) => TTC (F)
224521	nad1 exon3	CGT (R) => TGT (C)
224576	nad1 exon3	TCA (S) => TTA (L)
68032	nad1 exon4	TCT (S) => TTT (F)
64833	nad1 exon5	CCA (P) => CTA (L)
64824	nad1 exon5	TCG (S) => TTG (L)
64818	nad1 exon5	TCT (S) => TTT (F)
64815	nad1 exon5	CCA (P) => CTA (L)
64803	nad1 exon5	CCG (P) => CTG (L)
64660	nad1 exon5	CGG (R) => TGG (W)
64630	nad1 exon5	CGG (R) => TGG (W)

Position	CDS/exon name	codon/AA change
64605	nad1 exon5	TCA (S) => TTA (L)
147556	nad2 exon1	TCC (S) => TTC (F)
148961	nad2 exon2	CGG (R) => TGG (W)
149009	nad2 exon2	CTT (L) => TTT (F)
149055	nad2 exon2	TCT (S) => TTT (F)
149058	nad2 exon2	TCC (S) => TTC (F)
149103	nad2 exon2	CCA (P) => CTA (L)
149108	nad2 exon2	CCT (P) => TCT (S)
149114	nad2 exon2	CGC (R) => TGC (C)
149141	nad2 exon2	CAT (H) => TAT (Y)
149148	nad2 exon2	TCA (S) => TTA (L)
149175	nad2 exon2	CCT (P) => CTT (L)
149244	nad2 exon2	TCG (S) => TTG (L)
96500	nad2 exon3	TCT (S) => TTT (F)
96515	nad2 exon3	TCC (S) => TTC (F)
99194	nad2 exon4	TCA (S) => TTA (L)
99203	nad2 exon4	TCT (S) => TTT (F)
99314	nad2 exon4	CCT (P) => CTT (L)
99322	nad2 exon4	CAT (H) => TAT (Y)
99352	nad2 exon4	CGT (R) => TGT (C)
99356	nad2 exon4	ACT (T) => ATT (I)
99521	nad2 exon4	TCG (S) => TTG (L)
99641	nad2 exon4	CCA (P) => CTA (L)
101168	nad2 exon5	GCG (A) => GTG (V)
101270	nad2 exon5	TCA (S) => TTA (L)
101273	nad2 exon5	TCC (S) => TTC (F)
101279	nad2 exon5	CCA (P) => CTA (L)
101327	nad2 exon5	TCA (S) => TTA (L)
170702	nad3 CDS	TCA (S) => TTA (L)
170777	nad3 CDS	CCC (P) => CTC (L)
170905	nad3 CDS	CCT (P) => TTT (F)
170906	nad3 CDS	CCT (P) => TTT (F)
170912	nad3 CDS	CCG (P) => CTG (L)
170927	nad3 CDS	TCC (S) => TTC (F)
170944	nad3 CDS	CCT (P) => TCT (S)
170948	nad3 CDS	CCC (P) => CTC (L)
170963	nad3 CDS	CCG (P) => CTG (L)
170972	nad3 CDS	TCT (S) => TTT (F)
171014	nad3 CDS	TCT (S) => TTT (F)
171041	nad3 CDS	TCG (S) => TTG (L)
171046	nad3 CDS	CGG (R) => TGG (W)
86565	nad4 exon1	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
86580	nad4 exon1	CCT (P) => CTT (L)
86613	nad4 exon1	CCT (P) => CTT (L)
86643	nad4 exon1	CCG (P) => CTG (L)
86694	nad4 exon1	CCT (P) => CTT (L)
86700	nad4 exon1	CCT (P) => CTT (L)
86702	nad4 exon1	CGG (R) => TGG (W)
86733	nad4 exon1	TCT (S) => TTT (F)
86898	nad4 exon1	ACA (T) => ATA (I)
86904	nad4 exon1	TCT (S) => TTT (F)
86912	nad4 exon1	CGT (R) => TGT (C)
86939	nad4 exon1	CGC (R) => TGC (C)
86952	nad4 exon1	CCT (P) => CTT (L)
86969	nad4 exon1	CTT (L) => TTT (F)
86972	nad4 exon1	CCC (P) => TTC (F)
86973	nad4 exon1	CCC (P) => TTC (F)
88555	nad4 exon2	TCA (S) => TTA (L)
88606	nad4 exon2	TCT (S) => TTT (F)
88714	nad4 exon2	CCT (P) => CTT (L)
88717	nad4 exon2	TCA (S) => TTA (L)
88731	nad4 exon2	CAC (H) => TAC (Y)
88783	nad4 exon2	TCC (S) => TTC (F)
88804	nad4 exon2	CCA (P) => CTA (L)
88843	nad4 exon2	TCA (S) => TTA (L)
92161	nad4 exon3	CCG (P) => CTG (L)
92191	nad4 exon3	CCA (P) => CTA (L)
92194	nad4 exon3	CCG (P) => CTG (L)
92217	nad4 exon3	CCT (P) => TCT (S)
92313	nad4 exon3	CTC (L) => TTC (F)
92326	nad4 exon3	TCC (S) => TTC (F)
92332	nad4 exon3	TCT (S) => TTT (F)
92335	nad4 exon3	TCC (S) => TTC (F)
92356	nad4 exon3	TCA (S) => TTA (L)
92389	nad4 exon3	CCC (P) => CTC (L)
92395	nad4 exon3	TCA (S) => TTA (L)
92539	nad4 exon3	CCA (P) => CTA (L)
92557	nad4 exon3	TCC (S) => TTC (F)
95128	nad4 exon4	CGG (R) => TGG (W)
95140	nad4 exon4	CAC (H) => TAC (Y)
95156	nad4 exon4	CCG (P) => CTG (L)
95161	nad4 exon4	CGC (R) => TGC (C)
214192	nad4L CDS	ACG (T) => ATG (M)
214198	nad4L CDS	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
214231	nad4L CDS	TCT (S) => TTT (F)
214245	nad4L CDS	CGG (R) => TGG (W)
214276	nad4L CDS	CCT (P) => CTT (L)
214285	nad4L CDS	TCA (S) => TTA (L)
214290	nad4L CDS	CCA (P) => TCA (S)
214300	nad4L CDS	TCA (S) => TTA (L)
214321	nad4L CDS	TCG (S) => TTG (L)
214348	nad4L CDS	TCG (S) => TTG (L)
214369	nad4L CDS	TCA (S) => TTA (L)
214378	nad4L CDS	TCA (S) => TTA (L)
214387	nad4L CDS	TCA (S) => TTA (L)
120907	nad5 exon1	CCG (P) => CTG (L)
119948	nad5 exon2	CCG (P) => CTG (L)
119918	nad5 exon2	TCC (S) => TTC (F)
119832	nad5 exon2	CTT (L) => TTT (F)
119816	nad5 exon2	CCA (P) => CTA (L)
119792	nad5 exon2	TCT (S) => TTT (F)
119696	nad5 exon2	ACA (T) => ATA (I)
119684	nad5 exon2	CCT (P) => CTT (L)
119651	nad5 exon2	CCT (P) => CTT (L)
119637	nad5 exon2	CGT (R) => TGT (C)
119592	nad5 exon2	CGT (R) => TGT (C)
119561	nad5 exon2	TCT (S) => TTT (F)
119514	nad5 exon2	CTT (L) => TTT (F)
119477	nad5 exon2	TCG (S) => TTG (L)
119465	nad5 exon2	TCA (S) => TTA (L)
119355	nad5 exon2	CCA (P) => TCA (S)
119327	nad5 exon2	TCT (S) => TTT (F)
119315	nad5 exon2	ACG (T) => ATG (M)
118880	nad5 exon2	TCA (S) => TTA (L)
183960	nad5 exon4	CCC (P) => CTC (L)
184020	nad5 exon4	ACC (T) => ATC (I)
184050	nad5 exon4	TCA (S) => TTA (L)
184059	nad5 exon4	TCT (S) => TTT (F)
184080	nad5 exon4	CCC (P) => CTC (L)
185285	nad5 exon5	TCA (S) => TTA (L)
185306	nad5 exon5	TCT (S) => TTT (F)
185308	nad5 exon5	CGT (R) => TGT (C)
185348	nad5 exon5	TCG (S) => TTG (L)
17000	nad6 CDS	CTT (L) => TTT (F)
17046	nad6 CDS	GCA (A) => GTA (V)
17081	nad6 CDS	CCC (P) => TTC (F)

Position	CDS/exon name	codon/AA change
17082	nad6 CDS	CCC (P) => TTC (F)
17088	nad6 CDS	CCA (P) => CTA (L)
17096	nad6 CDS	CGC (R) => TGC (C)
17139	nad6 CDS	TCC (S) => TTC (F)
17154	nad6 CDS	CCA (P) => CTA (L)
17162	nad6 CDS	CAT (H) => TAT (Y)
17184	nad6 CDS	TCA (S) => TTA (L)
17282	nad6 CDS	CTT (L) => TTT (F)
17456	nad6 CDS	CCT (P) => TCT (S)
356298	nad7 exon1	TCG (S) => TTG (L)
356337	nad7 exon1	TCA (S) => TTA (L)
356343	nad7 exon1	TCA (S) => TTA (L)
356397	nad7 exon1	TCA (S) => TTA (L)
357354	nad7 exon2	TCT (S) => TTT (F)
358715	nad7 exon3	ACG (T) => ATG (M)
358735	nad7 exon3	CAT (H) => TAT (Y)
358742	nad7 exon3	TCA (S) => TTA (L)
358807	nad7 exon3	CGT (R) => TGT (C)
358826	nad7 exon3	TCA (S) => TTA (L)
358874	nad7 exon3	TCA (S) => TTA (L)
358883	nad7 exon3	TCC (S) => TTC (F)
359069	nad7 exon3	TCA (S) => TTA (L)
359170	nad7 exon3	CCA (P) => TCA (S)
360248	nad7 exon4	TCG (S) => TTG (L)
360274	nad7 exon4	CAT (H) => TAT (Y)
360284	nad7 exon4	TCG (S) => TTG (L)
360289	nad7 exon4	CCT (P) => TTT (F)
360290	nad7 exon4	CCT (P) => TTT (F)
360319	nad7 exon4	CGC (R) => TGC (C)
360386	nad7 exon4	CCT (P) => CTT (L)
362502	nad7 exon5	TCA (S) => TTA (L)
362549	nad7 exon5	CCT (P) => TCT (S)
362633	nad7 exon5	CGT (R) => TGT (C)
362655	nad7 exon5	TCT (S) => TTT (F)
362664	nad7 exon5	TCA (S) => TTA (L)
362679	nad7 exon5	TCT (S) => TTT (F)
362700	nad7 exon5	CCA (P) => CTA (L)
362742	nad7 exon5	TCT (S) => TTT (F)
291719	nad9 CDS	TCC (S) => TTC (F)
291641	nad9 CDS	TCT (S) => TTT (F)
291566	nad9 CDS	TCG (S) => TTG (L)
291435	nad9 CDS	CCG (P) => TCG (S)

Position	CDS/exon name	codon/AA change
291405	nad9 CDS	CGG (R) => TGG (W)
291365	nad9 CDS	TCC (S) => TTC (F)
291335	nad9 CDS	TCA (S) => TTA (L)
291294	nad9 CDS	CTT (L) => TTT (F)
229142	rpl16 CDS	CAG (Q) => TAG (X)
229293	rpl16 CDS	ACT (T) => ATT (I)
229389	rpl16 CDS	TCC (S) => TTC (F)
229590	rpl16 CDS	CCA (P) => CTA (L)
229596	rpl16 CDS	TCG (S) => TTG (L)
263348	rpl5 CDS	TCA (S) => TTA (L)
263360	rpl5 CDS	CCG (P) => CTG (L)
263377	rpl5 CDS	CAC (H) => TAC (Y)
263405	rpl5 CDS	TCG (S) => TTG (L)
263482	rpl5 CDS	CGC (R) => TGC (C)
263630	rpl5 CDS	TCG (S) => TTG (L)
263825	rpl5 CDS	CCA (P) => CTA (L)
263828	rpl5 CDS	CCG (P) => CTG (L)
216457	rps10 exon1	ACG (T) => ATG (M)
216693	rps10 exon1	CGG (R) => TGG (W)
219561	rps10 exon2	TCG (S) => TTG (L)
219590	rps10 exon2	CGA (R) => TGA (X)
171169	rps12 CDS	TCG (S) => TTG (L)
171198	rps12 CDS	CGC (R) => TGC (C)
171202	rps12 CDS	CCG (P) => CTG (L)
171244	rps12 CDS	CCA (P) => CTA (L)
171294	rps12 CDS	CAC (H) => TAC (Y)
171319	rps12 CDS	TCG (S) => TTG (L)
171382	rps12 CDS	TCC (S) => TTC (F)
263921	rps14 CDS	GCG (A) => GTG (V)
264068	rps14 CDS	TCC (S) => TTC (F)
264145	rps14 CDS	CCT (P) => TCT (S)
226201	rps3 exon1	CGG (R) => TGG (W)
228038	rps3 exon2	TCA (S) => TTA (L)
228239	rps3 exon2	TCG (S) => TTG (L)
228554	rps3 exon2	CCA (P) => CTA (L)
228587	rps3 exon2	TCT (S) => TTT (F)
228887	rps3 exon2	CCG (P) => CTG (L)
229025	rps3 exon2	TCA (S) => TTA (L)
229142	rps3 exon2	TCA (S) => TTA (L)
315575	rps4 CDS	TCA (S) => TTA (L)
315564	rps4 CDS	CGG (R) => TGG (W)
315480	rps4 CDS	CCG (P) => TCG (S)

Position	CDS/exon name	codon/AA change
315449	rps4 CDS	TCA (S) => TTA (L)
315429	rps4 CDS	CCC (P) => TCC (S)
315420	rps4 CDS	CAT (H) => TAT (Y)
315347	rps4 CDS	CCA (P) => CTA (L)
315335	rps4 CDS	TCG (S) => TTG (L)
315323	rps4 CDS	CCG (P) => CTG (L)
315306	rps4 CDS	CGT (R) => TGT (C)
315278	rps4 CDS	CCG (P) => CTG (L)
315131	rps4 CDS	TCA (S) => TTA (L)
314696	rps4 CDS	TCG (S) => TTG (L)
314685	rps4 CDS	CAT (H) => TAT (Y)
314675	rps4 CDS	CCA (P) => CTA (L)
314609	rps4 CDS	CCA (P) => CTA (L)
314600	rps4 CDS	CCT (P) => CTT (L)
314595	rps4 CDS	CGG (R) => TGG (W)

Table S13. Predicted RNA editing sites of the mitochondrial genome of *Vigna radiata*

Position	CDS/exon name	codon/AA change
331965	atp1 CDS	CCT (P) => TCT (S)
396189	atp4 CDS	CCA (P) => CTA (L)
396192	atp4 CDS	TCT (S) => TTT (F)
396222	atp4 CDS	TCA (S) => TTA (L)
396251	atp4 CDS	CGT (R) => TGT (C)
396348	atp4 CDS	TCG (S) => TTG (L)
396359	atp4 CDS	CCC (P) => TTC (F)
396360	atp4 CDS	CCC (P) => TTC (F)
396381	atp4 CDS	CCT (P) => CTT (L)
396528	atp4 CDS	TCA (S) => TTA (L)
396540	atp4 CDS	CCA (P) => CTA (L)
396549	atp4 CDS	ACT (T) => ATT (I)
396623	atp4 CDS	CCC (P) => TCC (S)
232059	atp6 CDS	CCC (P) => TCC (S)
231980	atp6 CDS	TCA (S) => TTA (L)
231929	atp6 CDS	CCG (P) => CTG (L)
231851	atp6 CDS	TCG (S) => TTG (L)
231836	atp6 CDS	CCC (P) => CTC (L)
231704	atp6 CDS	TCA (S) => TTA (L)
231645	atp6 CDS	CCT (P) => TCT (S)
231642	atp6 CDS	CAT (H) => TAT (Y)
231620	atp6 CDS	TCA (S) => TTA (L)
231578	atp6 CDS	TCA (S) => TTA (L)
231557	atp6 CDS	TCC (S) => TTC (F)
231470	atp6 CDS	CCG (P) => CTG (L)
231449	atp6 CDS	TCA (S) => TTA (L)
231441	atp6 CDS	CAT (H) => TAT (Y)
231434	atp6 CDS	TCT (S) => TTT (F)
231425	atp6 CDS	TCA (S) => TTA (L)
231398	atp6 CDS	ACA (T) => ATA (I)
231387	atp6 CDS	CAA (Q) => TAA (X)
337081	atp8 CDS	TCA (S) => TTA (L)
337070	atp8 CDS	CTC (L) => TTC (F)
336673	atp8 CDS	CCA (P) => CTA (L)
111550	atp9 CDS	TCA (S) => TTA (L)
111520	atp9 CDS	TCA (S) => TTA (L)
209670	ccmB CDS	CCC (P) => TCC (S)
209698	ccmB CDS	CCA (P) => CTA (L)
209707	ccmB CDS	TCG (S) => TTG (L)
209755	ccmB CDS	TCA (S) => TTA (L)
209764	ccmB CDS	TCC (S) => TTC (F)

Position	CDS/exon name	codon/AA change
209776	ccmB CDS	CCG (P) => CTG (L)
209781	ccmB CDS	CGG (R) => TGG (W)
209787	ccmB CDS	CCT (P) => TCT (S)
209791	ccmB CDS	TCG (S) => TTG (L)
209806	ccmB CDS	CCT (P) => CTT (L)
209808	ccmB CDS	CCC (P) => TCC (S)
209820	ccmB CDS	CCT (P) => TTT (F)
209821	ccmB CDS	CCT (P) => TTT (F)
209913	ccmB CDS	CGG (R) => TGG (W)
209965	ccmB CDS	CCG (P) => CTG (L)
209994	ccmB CDS	CGG (R) => TGG (W)
210007	ccmB CDS	CCA (P) => CTA (L)
210010	ccmB CDS	TCA (S) => TTA (L)
210051	ccmB CDS	CGT (R) => TGT (C)
210094	ccmB CDS	TCG (S) => TTG (L)
210103	ccmB CDS	CCA (P) => CTA (L)
210112	ccmB CDS	TCA (S) => TTA (L)
210121	ccmB CDS	TCA (S) => TTA (L)
210130	ccmB CDS	CCA (P) => CTA (L)
210139	ccmB CDS	TCT (S) => TTT (F)
210141	ccmB CDS	CGT (R) => TGT (C)
210178	ccmB CDS	TCA (S) => TTA (L)
210181	ccmB CDS	TCG (S) => TTG (L)
210193	ccmB CDS	TCC (S) => TTC (F)
210196	ccmB CDS	TCT (S) => TTT (F)
210199	ccmB CDS	CCG (P) => CTG (L)
287762	ccmC CDS	CGG (R) => TGG (W)
287789	ccmC CDS	CAT (H) => TAT (Y)
287801	ccmC CDS	CGG (R) => TGG (W)
287819	ccmC CDS	CTT (L) => TTT (F)
287865	ccmC CDS	GCG (A) => GTG (V)
287870	ccmC CDS	CGG (R) => TGG (W)
287943	ccmC CDS	TCT (S) => TTT (F)
287967	ccmC CDS	ACA (T) => ATA (I)
288017	ccmC CDS	CGG (R) => TGG (W)
288081	ccmC CDS	TCG (S) => TTG (L)
288107	ccmC CDS	CGT (R) => TGT (C)
288122	ccmC CDS	CCT (P) => TCT (S)
288132	ccmC CDS	CCG (P) => CTG (L)
288137	ccmC CDS	CCT (P) => TCT (S)
288144	ccmC CDS	TCA (S) => TTA (L)
288149	ccmC CDS	CGT (R) => TGT (C)

Position	CDS/exon name	codon/AA change
288153	ccmC CDS	GCT (A) => GTT (V)
288159	ccmC CDS	CCG (P) => CTG (L)
288183	ccmC CDS	TCT (S) => TTT (F)
288234	ccmC CDS	TCT (S) => TTT (F)
288254	ccmC CDS	CCT (P) => TCT (S)
288261	ccmC CDS	CCC (P) => CTC (L)
288294	ccmC CDS	CCC (P) => CTC (L)
288296	ccmC CDS	CTC (L) => TTC (F)
288300	ccmC CDS	TCA (S) => TTA (L)
288305	ccmC CDS	CGT (R) => TGT (C)
288336	ccmC CDS	CCT (P) => CTT (L)
288351	ccmC CDS	CCC (P) => CTC (L)
288359	ccmC CDS	CCT (P) => TCT (S)
32730	ccmFc exon1	TCT (S) => TTT (F)
32742	ccmFc exon1	CCT (P) => CTT (L)
32744	ccmFc exon1	CGT (R) => TGT (C)
32795	ccmFc exon1	CCC (P) => TCC (S)
32814	ccmFc exon1	TCC (S) => TTC (F)
32843	ccmFc exon1	CCT (P) => TCT (S)
32847	ccmFc exon1	TCA (S) => TTA (L)
32852	ccmFc exon1	CCT (P) => TCT (S)
32997	ccmFc exon1	TCA (S) => TTA (L)
33002	ccmFc exon1	CGT (R) => TGT (C)
33098	ccmFc exon1	CGT (R) => TGT (C)
33104	ccmFc exon1	CTC (L) => TTC (F)
33398	ccmFc exon1	CAC (H) => TAC (Y)
33408	ccmFc exon1	GCT (A) => GTT (V)
37667	ccmFc exon2	TCT (S) => TTT (F)
37928	ccmFc exon2	CCA (P) => CTA (L)
37949	ccmFc exon2	TCG (S) => TTG (L)
38023	ccmFc exon2	CGG (R) => TGG (W)
38048	ccmFc exon2	TCG (S) => TTG (L)
38104	ccmFc exon2	CGA (R) => TGA (X)
312170	ccmFn CDS	CCG (P) => CTG (L)
312230	ccmFn CDS	CCT (P) => CTT (L)
312269	ccmFn CDS	TCG (S) => TTG (L)
312274	ccmFn CDS	CGT (R) => TGT (C)
312283	ccmFn CDS	CCT (P) => TCT (S)
312380	ccmFn CDS	TCA (S) => TTA (L)
312388	ccmFn CDS	CGG (R) => TGG (W)
312395	ccmFn CDS	CCA (P) => CTA (L)
312415	ccmFn CDS	CTT (L) => TTT (F)

Position	CDS/exon name	codon/AA change
312466	ccmFn CDS	CAT (H) => TAT (Y)
312494	ccmFn CDS	TCG (S) => TTG (L)
312607	ccmFn CDS	CGT (R) => TGT (C)
312688	ccmFn CDS	CCT (P) => TTT (F)
312689	ccmFn CDS	CCT (P) => TTT (F)
312838	ccmFn CDS	CCT (P) => TTT (F)
312839	ccmFn CDS	CCT (P) => TTT (F)
312848	ccmFn CDS	TCA (S) => TTA (L)
312886	ccmFn CDS	CGT (R) => TGT (C)
312908	ccmFn CDS	TCA (S) => TTA (L)
312920	ccmFn CDS	CCA (P) => CTA (L)
312935	ccmFn CDS	TCA (S) => TTA (L)
313084	ccmFn CDS	CGC (R) => TGC (C)
313402	ccmFn CDS	CGG (R) => TGG (W)
313430	ccmFn CDS	CCA (P) => CTA (L)
313447	ccmFn CDS	CAT (H) => TAT (Y)
313462	ccmFn CDS	CGG (R) => TGG (W)
313480	ccmFn CDS	CGG (R) => TGG (W)
313531	ccmFn CDS	CGT (R) => TGT (C)
313574	ccmFn CDS	TCG (S) => TTG (L)
313594	ccmFn CDS	CTT (L) => TTT (F)
313598	ccmFn CDS	CCA (P) => CTA (L)
313610	ccmFn CDS	TCA (S) => TTA (L)
313693	ccmFn CDS	CGG (R) => TGG (W)
142026	cob CDS	CTC (L) => TTC (F)
142014	cob CDS	CAC (H) => TAC (Y)
141987	cob CDS	CAT (H) => TAT (Y)
141954	cob CDS	CGG (R) => TGG (W)
141905	cob CDS	ACA (T) => ATA (I)
141744	cob CDS	CAT (H) => TAT (Y)
141504	cob CDS	CCC (P) => TCC (S)
141459	cob CDS	CAT (H) => TAT (Y)
141404	cob CDS	CCA (P) => CTA (L)
141330	cob CDS	CAC (H) => TAC (Y)
141297	cob CDS	CGC (R) => TGC (C)
141231	cob CDS	CCT (P) => TCT (S)
141228	cob CDS	CCT (P) => TCT (S)
141188	cob CDS	CCG (P) => CTG (L)
11	cox1 CDS	CCG (P) => CTG (L)
242	cox1 CDS	TCT (S) => TTT (F)
254	cox1 CDS	TCT (S) => TTT (F)
443	cox1 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
452	cox1 CDS	TCT (S) => TTT (F)
515	cox1 CDS	TCC (S) => TTC (F)
551	cox1 CDS	TCA (S) => TTA (L)
575	cox1 CDS	CCA (P) => CTA (L)
590	cox1 CDS	CCA (P) => CTA (L)
668	cox1 CDS	TCT (S) => TTT (F)
715	cox1 CDS	CGG (R) => TGG (W)
746	cox1 CDS	CCC (P) => CTC (L)
761	cox1 CDS	TCC (S) => TTC (F)
1186	cox1 CDS	CAC (H) => TAC (Y)
1279	cox1 CDS	CTC (L) => TTC (F)
1405	cox1 CDS	CGT (R) => TGT (C)
1433	cox1 CDS	TCA (S) => TTA (L)
368740	cox3 CDS	CCT (P) => CTT (L)
368728	cox3 CDS	TCT (S) => TTT (F)
368722	cox3 CDS	CCG (P) => CTG (L)
368696	cox3 CDS	CTT (L) => TTT (F)
368681	cox3 CDS	CGG (R) => TGG (W)
368674	cox3 CDS	TCT (S) => TTT (F)
368671	cox3 CDS	TCT (S) => TTT (F)
368572	cox3 CDS	CCT (P) => CTT (L)
368473	cox3 CDS	TCA (S) => TTA (L)
368231	cox3 CDS	CGG (R) => TGG (W)
64853	matR CDS	TCC (S) => TTC (F)
64800	matR CDS	CGC (R) => TGC (C)
64692	matR CDS	CCA (P) => TCA (S)
64649	matR CDS	TCC (S) => TTC (F)
64559	matR CDS	CCA (P) => CTA (L)
64148	matR CDS	TCT (S) => TTT (F)
64028	matR CDS	CCG (P) => CTG (L)
63821	matR CDS	CCC (P) => CTC (L)
63476	matR CDS	GCG (A) => GTG (V)
63206	matR CDS	TCT (S) => TTT (F)
63185	matR CDS	CCT (P) => CTT (L)
63165	matR CDS	CGC (R) => TGC (C)
63129	matR CDS	CAC (H) => TAC (Y)
63059	matR CDS	CCA (P) => CTA (L)
63041	matR CDS	TCA (S) => TTA (L)
21365	mttB CDS	CGG (R) => TGG (W)
21401	mttB CDS	CGT (R) => TGT (C)
21413	mttB CDS	CCG (P) => TCG (S)
21429	mttB CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
21432	mttB CDS	CCA (P) => CTA (L)
21489	mttB CDS	TCA (S) => TTA (L)
21501	mttB CDS	TCC (S) => TTC (F)
21503	mttB CDS	CCG (P) => TCG (S)
21563	mttB CDS	CAT (H) => TAT (Y)
21629	mttB CDS	CTC (L) => TTC (F)
21645	mttB CDS	TCT (S) => TTT (F)
21647	mttB CDS	CGC (R) => TGC (C)
21654	mttB CDS	TCC (S) => TTC (F)
21677	mttB CDS	CCC (P) => TCC (S)
21680	mttB CDS	CGG (R) => TGG (W)
21738	mttB CDS	TCG (S) => TTG (L)
21773	mttB CDS	CAT (H) => TAT (Y)
21798	mttB CDS	TCG (S) => TTG (L)
21806	mttB CDS	CCA (P) => TCA (S)
21849	mttB CDS	CCA (P) => CTA (L)
21855	mttB CDS	CCA (P) => CTA (L)
21878	mttB CDS	CTC (L) => TTC (F)
21911	mttB CDS	CCG (P) => TCG (S)
21968	mttB CDS	CGT (R) => TGT (C)
21984	mttB CDS	TCG (S) => TTG (L)
22014	mttB CDS	TCG (S) => TTG (L)
210550	nad1 exon1	ACG (T) => ATG (M)
210763	nad1 exon1	TCC (S) => TTC (F)
210813	nad1 exon1	CGG (R) => TGG (W)
210856	nad1 exon1	TCG (S) => TTG (L)
210916	nad1 exon1	ACA (T) => ATA (I)
4602	nad1 exon3	CCC (P) => TCC (S)
4605	nad1 exon3	CGT (R) => TGT (C)
4612	nad1 exon3	TCG (S) => TTG (L)
4648	nad1 exon3	TCC (S) => TTC (F)
4692	nad1 exon3	CGT (R) => TGT (C)
4747	nad1 exon3	TCA (S) => TTA (L)
65576	nad1 exon4	TCT (S) => TTT (F)
62377	nad1 exon5	CCA (P) => CTA (L)
62368	nad1 exon5	TCG (S) => TTG (L)
62362	nad1 exon5	TCT (S) => TTT (F)
62359	nad1 exon5	CCA (P) => CTA (L)
62347	nad1 exon5	CCG (P) => CTG (L)
62204	nad1 exon5	CGG (R) => TGG (W)
62174	nad1 exon5	CGG (R) => TGG (W)
62149	nad1 exon5	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
194009	nad2 exon1	TCC (S) => TTC (F)
192604	nad2 exon2	CGG (R) => TGG (W)
192556	nad2 exon2	CTT (L) => TTT (F)
192510	nad2 exon2	TCT (S) => TTT (F)
192507	nad2 exon2	TCC (S) => TTC (F)
192462	nad2 exon2	CCA (P) => CTA (L)
192457	nad2 exon2	CCT (P) => TCT (S)
192451	nad2 exon2	CGC (R) => TGC (C)
192424	nad2 exon2	CAT (H) => TAT (Y)
192417	nad2 exon2	TCA (S) => TTA (L)
192390	nad2 exon2	CCT (P) => CTT (L)
192321	nad2 exon2	TCG (S) => TTG (L)
94018	nad2 exon3	TCT (S) => TTT (F)
94033	nad2 exon3	TCC (S) => TTC (F)
96709	nad2 exon4	TCA (S) => TTA (L)
96718	nad2 exon4	TCT (S) => TTT (F)
96829	nad2 exon4	CCT (P) => CTT (L)
96837	nad2 exon4	CAT (H) => TAT (Y)
96867	nad2 exon4	CGT (R) => TGT (C)
96871	nad2 exon4	ACT (T) => ATT (I)
97036	nad2 exon4	TCG (S) => TTG (L)
97156	nad2 exon4	CCA (P) => CTA (L)
98684	nad2 exon5	GCG (A) => GTG (V)
98786	nad2 exon5	TCA (S) => TTA (L)
98789	nad2 exon5	TCC (S) => TTC (F)
98795	nad2 exon5	CCA (P) => CTA (L)
98843	nad2 exon5	TCA (S) => TTA (L)
336400	nad3 CDS	TCA (S) => TTA (L)
336325	nad3 CDS	CCC (P) => CTC (L)
336197	nad3 CDS	CCT (P) => TTT (F)
336196	nad3 CDS	CCT (P) => TTT (F)
336190	nad3 CDS	CCG (P) => CTG (L)
336175	nad3 CDS	TCC (S) => TTC (F)
336158	nad3 CDS	CCT (P) => TCT (S)
336154	nad3 CDS	CCC (P) => CTC (L)
336139	nad3 CDS	CCG (P) => CTG (L)
336130	nad3 CDS	TCT (S) => TTT (F)
336088	nad3 CDS	TCT (S) => TTT (F)
336061	nad3 CDS	TCG (S) => TTG (L)
336056	nad3 CDS	CGG (R) => TGG (W)
84075	nad4 exon1	TCT (S) => TTT (F)
84090	nad4 exon1	CCT (P) => CTT (L)

Position	CDS/exon name	codon/AA change
84123	nad4 exon1	CCT (P) => CTT (L)
84153	nad4 exon1	CCG (P) => CTG (L)
84204	nad4 exon1	CCT (P) => CTT (L)
84210	nad4 exon1	CCT (P) => CTT (L)
84212	nad4 exon1	CGG (R) => TGG (W)
84243	nad4 exon1	TCT (S) => TTT (F)
84408	nad4 exon1	ACA (T) => ATA (I)
84414	nad4 exon1	TCT (S) => TTT (F)
84422	nad4 exon1	CGT (R) => TGT (C)
84449	nad4 exon1	CGC (R) => TGC (C)
84462	nad4 exon1	CCT (P) => CTT (L)
84479	nad4 exon1	CTT (L) => TTT (F)
84482	nad4 exon1	CCC (P) => TTC (F)
84483	nad4 exon1	CCC (P) => TTC (F)
86065	nad4 exon2	TCA (S) => TTA (L)
86116	nad4 exon2	TCT (S) => TTT (F)
86224	nad4 exon2	CCT (P) => CTT (L)
86227	nad4 exon2	TCA (S) => TTA (L)
86241	nad4 exon2	CAC (H) => TAC (Y)
86293	nad4 exon2	TCC (S) => TTC (F)
86314	nad4 exon2	CCA (P) => CTA (L)
86353	nad4 exon2	TCA (S) => TTA (L)
89672	nad4 exon3	CCG (P) => CTG (L)
89702	nad4 exon3	CCA (P) => CTA (L)
89705	nad4 exon3	CCG (P) => CTG (L)
89728	nad4 exon3	CCT (P) => TCT (S)
89824	nad4 exon3	CTC (L) => TTC (F)
89837	nad4 exon3	TCC (S) => TTC (F)
89843	nad4 exon3	TCT (S) => TTT (F)
89846	nad4 exon3	TCC (S) => TTC (F)
89867	nad4 exon3	TCA (S) => TTA (L)
89900	nad4 exon3	CCC (P) => CTC (L)
89906	nad4 exon3	TCA (S) => TTA (L)
90050	nad4 exon3	CCA (P) => CTA (L)
90068	nad4 exon3	TCC (S) => TTC (F)
92642	nad4 exon4	CGG (R) => TGG (W)
92654	nad4 exon4	CAC (H) => TAC (Y)
92670	nad4 exon4	CCG (P) => CTG (L)
92675	nad4 exon4	CGC (R) => TGC (C)
395640	nad4L CDS	ACG (T) => ATG (M)
395646	nad4L CDS	CCT (P) => CTT (L)
395679	nad4L CDS	TCT (S) => TTT (F)

Position	CDS/exon name	codon/AA change
395693	nad4L CDS	CGG (R) => TGG (W)
395724	nad4L CDS	CCT (P) => CTT (L)
395733	nad4L CDS	TCA (S) => TTA (L)
395738	nad4L CDS	CCA (P) => TCA (S)
395748	nad4L CDS	TCA (S) => TTA (L)
395769	nad4L CDS	TCG (S) => TTG (L)
395796	nad4L CDS	TCG (S) => TTG (L)
395817	nad4L CDS	TCA (S) => TTA (L)
395826	nad4L CDS	TCA (S) => TTA (L)
395835	nad4L CDS	TCA (S) => TTA (L)
118388	nad5 exon1	CCG (P) => CTG (L)
117428	nad5 exon2	CCG (P) => CTG (L)
117398	nad5 exon2	TCC (S) => TTC (F)
117312	nad5 exon2	CTT (L) => TTT (F)
117296	nad5 exon2	CCA (P) => CTA (L)
117272	nad5 exon2	TCT (S) => TTT (F)
117176	nad5 exon2	ACA (T) => ATA (I)
117164	nad5 exon2	CCT (P) => CTT (L)
117131	nad5 exon2	CCT (P) => CTT (L)
117117	nad5 exon2	CGT (R) => TGT (C)
117072	nad5 exon2	CGT (R) => TGT (C)
117041	nad5 exon2	TCT (S) => TTT (F)
116994	nad5 exon2	CTT (L) => TTT (F)
116957	nad5 exon2	TCG (S) => TTG (L)
116945	nad5 exon2	TCA (S) => TTA (L)
116835	nad5 exon2	CCA (P) => TCA (S)
116807	nad5 exon2	TCT (S) => TTT (F)
116795	nad5 exon2	ACG (T) => ATG (M)
116360	nad5 exon2	TCA (S) => TTA (L)
324791	nad5 exon4	CCC (P) => CTC (L)
324731	nad5 exon4	ACC (T) => ATC (I)
324701	nad5 exon4	TCA (S) => TTA (L)
324692	nad5 exon4	TCT (S) => TTT (F)
324671	nad5 exon4	CCC (P) => CTC (L)
323466	nad5 exon5	TCA (S) => TTA (L)
323445	nad5 exon5	TCT (S) => TTT (F)
323443	nad5 exon5	CGT (R) => TGT (C)
323403	nad5 exon5	TCG (S) => TTG (L)
214663	nad6 CDS	CTT (L) => TTT (F)
214709	nad6 CDS	GCA (A) => GTA (V)
214744	nad6 CDS	CCC (P) => TTC (F)
214745	nad6 CDS	CCC (P) => TTC (F)

Position	CDS/exon name	codon/AA change
214751	nad6 CDS	CCA (P) => CTA (L)
214759	nad6 CDS	CGC (R) => TGC (C)
214802	nad6 CDS	TCC (S) => TTC (F)
214817	nad6 CDS	CCA (P) => CTA (L)
214825	nad6 CDS	CAT (H) => TAT (Y)
214847	nad6 CDS	TCA (S) => TTA (L)
214945	nad6 CDS	CTT (L) => TTT (F)
215119	nad6 CDS	CCT (P) => TCT (S)
343672	nad7 exon1	TCG (S) => TTG (L)
343711	nad7 exon1	TCA (S) => TTA (L)
343717	nad7 exon1	TCA (S) => TTA (L)
343771	nad7 exon1	TCA (S) => TTA (L)
344728	nad7 exon2	TCT (S) => TTT (F)
346090	nad7 exon3	ACG (T) => ATG (M)
346110	nad7 exon3	CAT (H) => TAT (Y)
346117	nad7 exon3	TCA (S) => TTA (L)
346182	nad7 exon3	CGT (R) => TGT (C)
346201	nad7 exon3	TCA (S) => TTA (L)
346249	nad7 exon3	TCA (S) => TTA (L)
346258	nad7 exon3	TCC (S) => TTC (F)
346444	nad7 exon3	TCA (S) => TTA (L)
346545	nad7 exon3	CCA (P) => TCA (S)
347625	nad7 exon4	TCG (S) => TTG (L)
347651	nad7 exon4	CAT (H) => TAT (Y)
347661	nad7 exon4	TCG (S) => TTG (L)
347666	nad7 exon4	CCT (P) => TTT (F)
347667	nad7 exon4	CCT (P) => TTT (F)
347696	nad7 exon4	CGC (R) => TGC (C)
347763	nad7 exon4	CCT (P) => CTT (L)
349866	nad7 exon5	TCA (S) => TTA (L)
349913	nad7 exon5	CCT (P) => TCT (S)
349997	nad7 exon5	CGT (R) => TGT (C)
350019	nad7 exon5	TCT (S) => TTT (F)
350028	nad7 exon5	TCA (S) => TTA (L)
350043	nad7 exon5	TCT (S) => TTT (F)
350064	nad7 exon5	CCA (P) => CTA (L)
350106	nad7 exon5	TCT (S) => TTT (F)
234732	nad9 CDS	TCC (S) => TTC (F)
234654	nad9 CDS	TCT (S) => TTT (F)
234579	nad9 CDS	TCG (S) => TTG (L)
234448	nad9 CDS	CCG (P) => TCG (S)
234418	nad9 CDS	CGG (R) => TGG (W)

Position	CDS/exon name	codon/AA change
234378	nad9 CDS	TCC (S) => TTC (F)
234348	nad9 CDS	TCA (S) => TTA (L)
234307	nad9 CDS	CTT (L) => TTT (F)
9309	rpl16 CDS	CAG (Q) => TAG (X)
9460	rpl16 CDS	ACT (T) => ATT (I)
9556	rpl16 CDS	TCC (S) => TTC (F)
9757	rpl16 CDS	CCA (P) => CTA (L)
9763	rpl16 CDS	TCG (S) => TTG (L)
144035	rpl5 CDS	TCA (S) => TTA (L)
144023	rpl5 CDS	CCG (P) => CTG (L)
144006	rpl5 CDS	CAC (H) => TAC (Y)
143978	rpl5 CDS	TCG (S) => TTG (L)
143901	rpl5 CDS	CGC (R) => TGC (C)
143753	rpl5 CDS	TCG (S) => TTG (L)
143558	rpl5 CDS	CCA (P) => CTA (L)
143555	rpl5 CDS	CCG (P) => CTG (L)
397905	rps10 exon1	ACG (T) => ATG (M)
398141	rps10 exon1	CGG (R) => TGG (W)
400995	rps10 exon2	TCG (S) => TTG (L)
401024	rps10 exon2	CGA (R) => TGA (X)
335933	rps12 CDS	TCG (S) => TTG (L)
335904	rps12 CDS	CGC (R) => TGC (C)
335900	rps12 CDS	CCG (P) => CTG (L)
335858	rps12 CDS	CCA (P) => CTA (L)
335808	rps12 CDS	CAC (H) => TAC (Y)
335783	rps12 CDS	TCG (S) => TTG (L)
335720	rps12 CDS	TCC (S) => TTC (F)
143462	rps14 CDS	GCG (A) => GTG (V)
143315	rps14 CDS	TCC (S) => TTC (F)
143238	rps14 CDS	CCT (P) => TCT (S)
6372	rps3 exon1	CGG (R) => TGG (W)
8205	rps3 exon2	TCA (S) => TTA (L)
8406	rps3 exon2	TCG (S) => TTG (L)
8721	rps3 exon2	CCA (P) => CTA (L)
8754	rps3 exon2	TCT (S) => TTT (F)
9054	rps3 exon2	CCG (P) => CTG (L)
9192	rps3 exon2	TCA (S) => TTA (L)
9309	rps3 exon2	TCA (S) => TTA (L)
258566	rps4 CDS	TCA (S) => TTA (L)
258555	rps4 CDS	CGG (R) => TGG (W)
258471	rps4 CDS	CCG (P) => TCG (S)
258440	rps4 CDS	TCA (S) => TTA (L)

Position	CDS/exon name	codon/AA change
258420	rps4 CDS	CCC (P) => TCC (S)
258411	rps4 CDS	CAT (H) => TAT (Y)
258338	rps4 CDS	CCA (P) => CTA (L)
258326	rps4 CDS	TCG (S) => TTG (L)
258314	rps4 CDS	CCG (P) => CTG (L)
258297	rps4 CDS	CGT (R) => TGT (C)
258269	rps4 CDS	CCG (P) => CTG (L)
258122	rps4 CDS	TCA (S) => TTA (L)
257687	rps4 CDS	TCG (S) => TTG (L)
257676	rps4 CDS	CAT (H) => TAT (Y)
257666	rps4 CDS	CCA (P) => CTA (L)
257600	rps4 CDS	CCA (P) => CTA (L)
257591	rps4 CDS	CCT (P) => CTT (L)
257586	rps4 CDS	CGG (R) => TGG (W)
