

Figure S1A: haplotype = U98.5\_Cobitis sp BIWAE typeC1

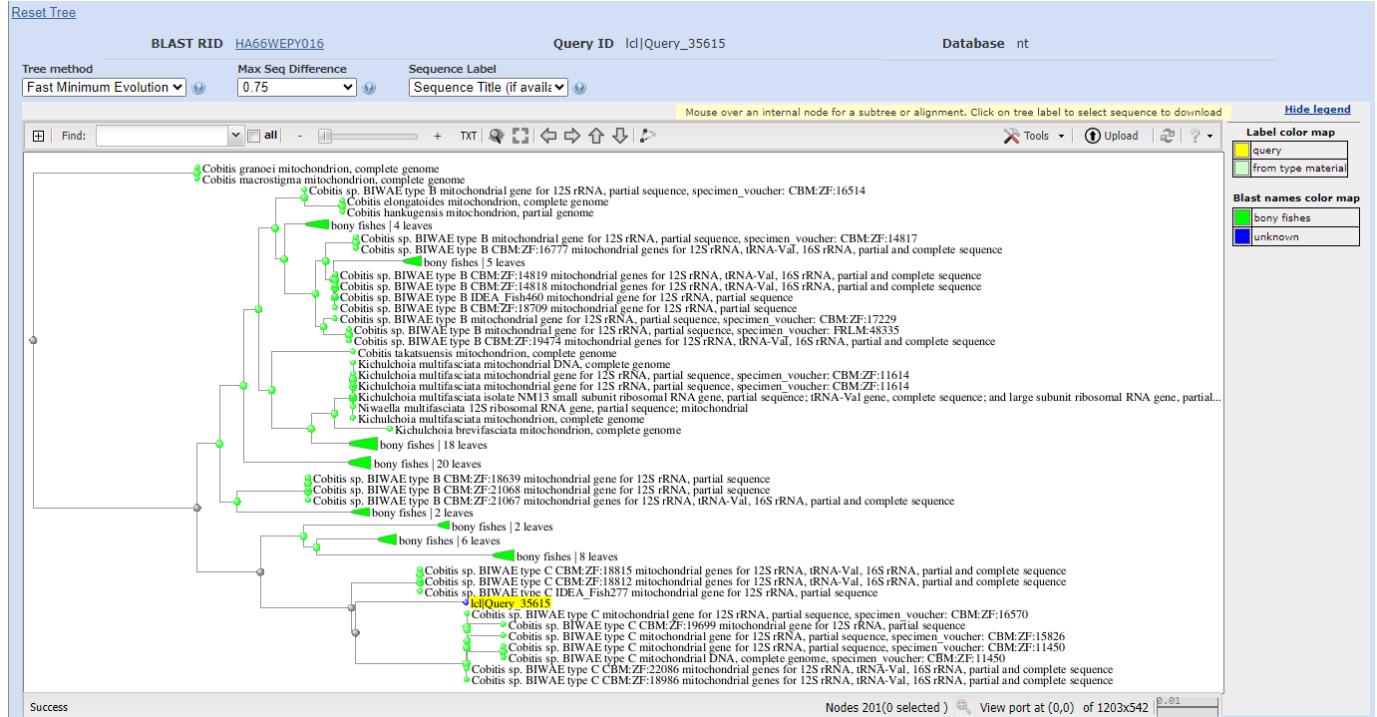


Figure S1B: haplotype = U98.5\_Cobitis sp BIWAE typeC2

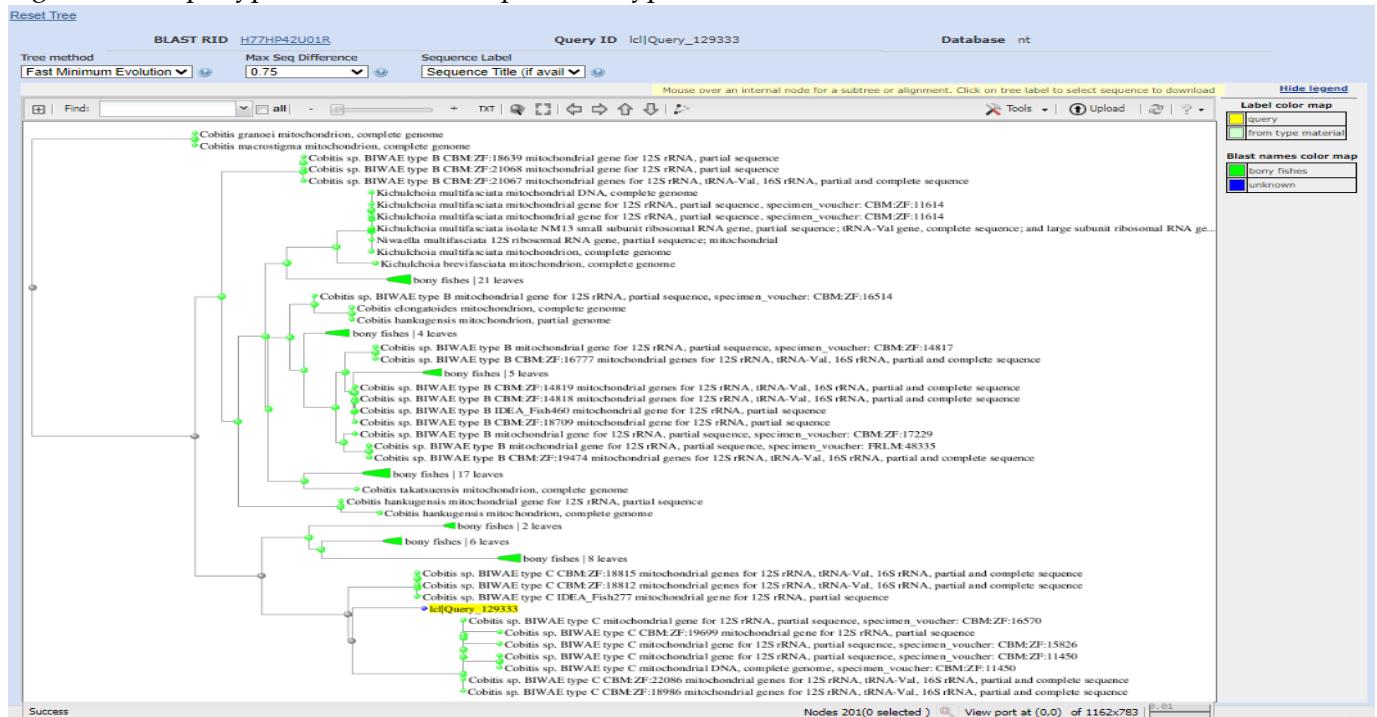


Figure S1C: haplotype = U98.5\_Cobitis sp BIWAE typeC3

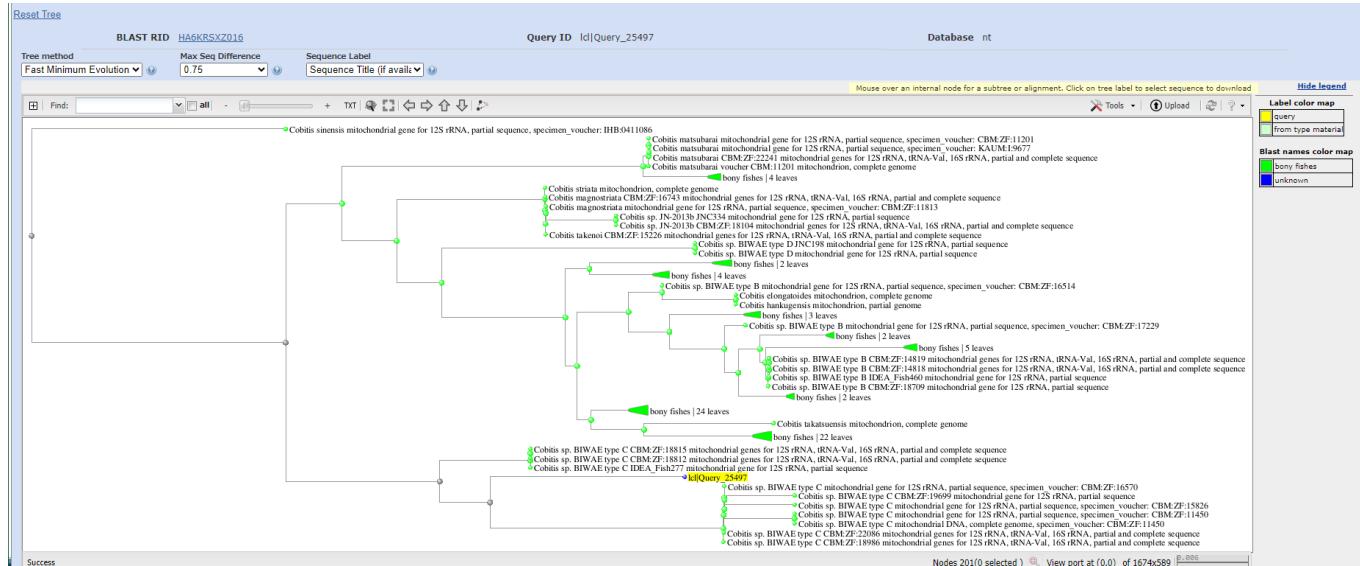


Figure S1D: haplotype = Cottus reinii

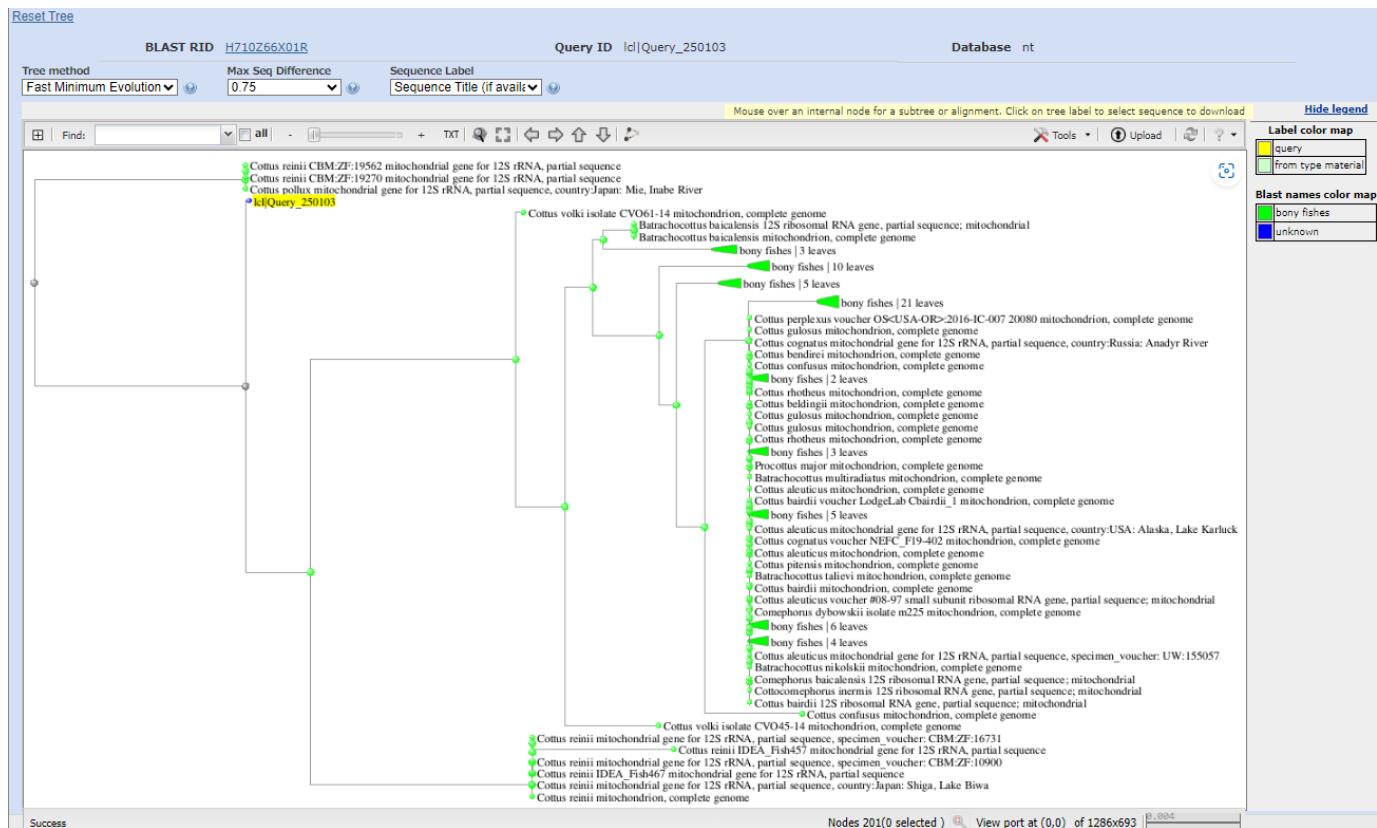


Figure S1E: haplotype = U98.5\_Cottus reinii

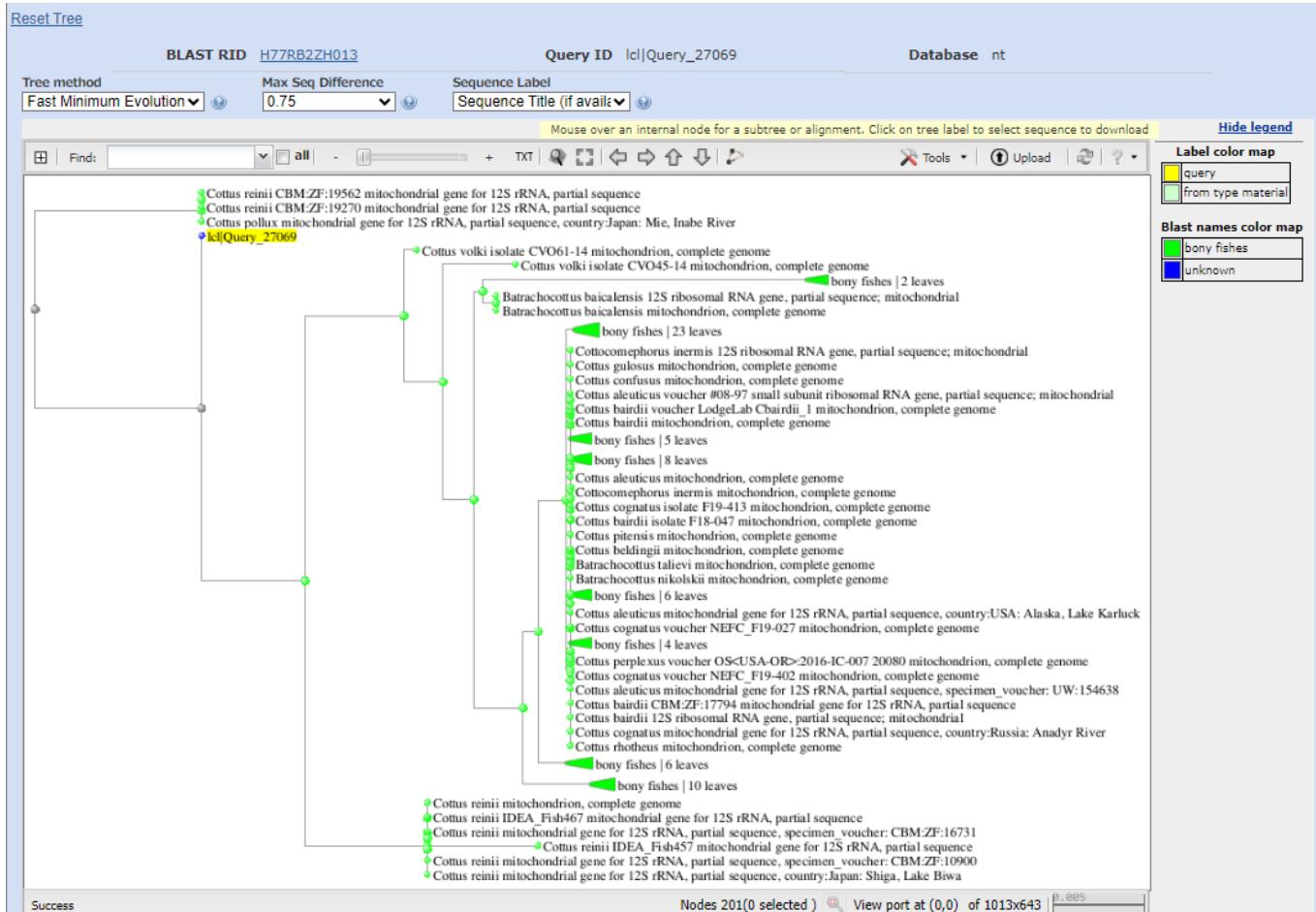


Figure S1 Blast clustering of species containing distant (> 2 nt diff) haplotypes with the GenBank database. A–C, Cobitis sp. BIWAE type C; D–E, *Cottus reinii*. See Table S2 for haplotype ID and number of differences.

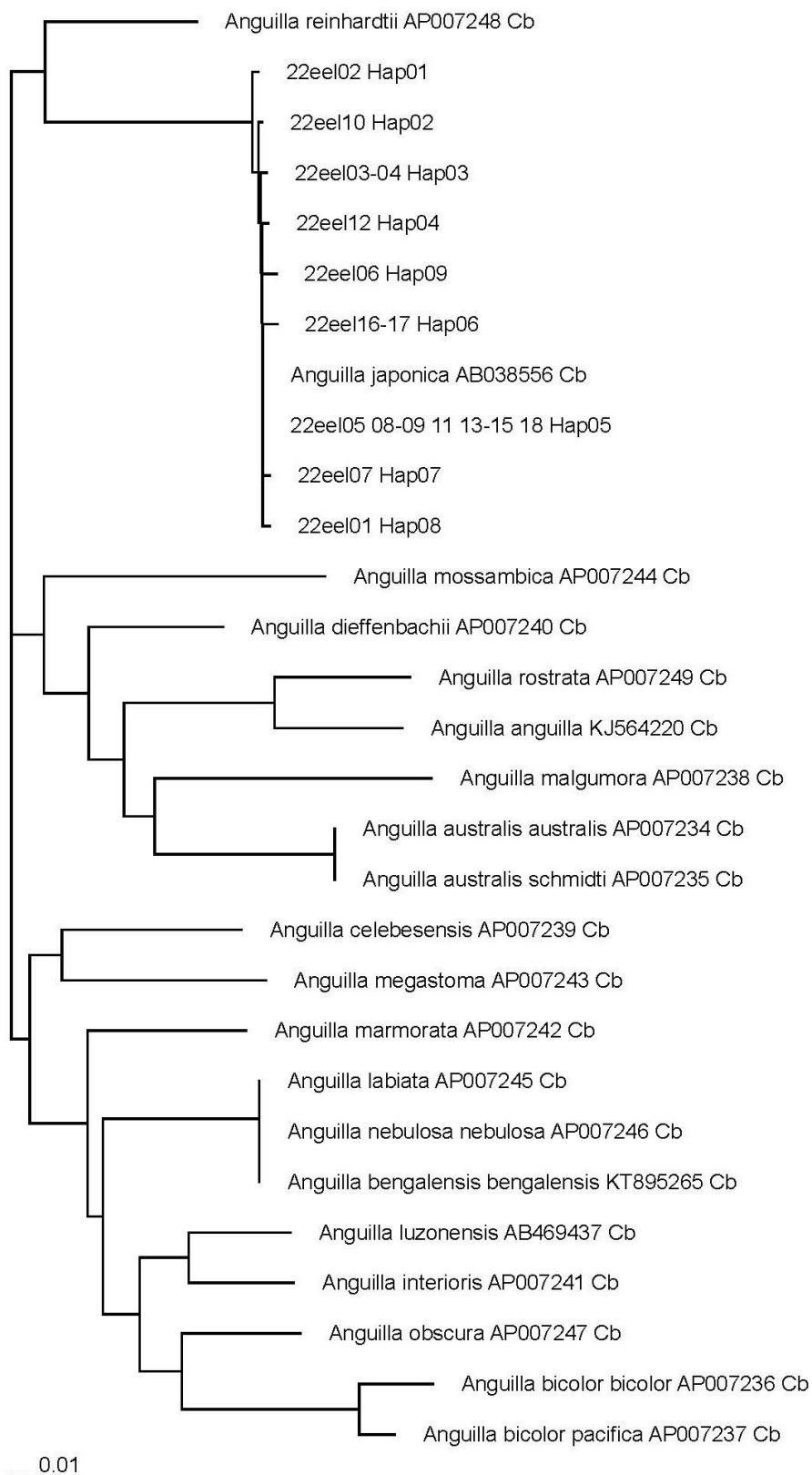


Figure S2 NJ tree drawn by MEGA7 (Kumar et al 2016, Mol Biol Evol 33:1870–1874; K2P model) of Cytb sequences from eels.

Table S1 Number of reads after filtering steps

Sites	Samples Replicate	Raw read	Merged	Quality filter	Denoise
Left bank	Replicate 1	291,355	276,913 (95.04%)	276,771 (94.99%)	266,793 (91.57%)
	Replicate 2	316,222	300,284 (94.96%)	300,095 (94.90%)	289,372 (91.51%)
Center of flow	Replicate 1	269,549	256,423 (95.13%)	256,255 (95.07%)	245,747 (91.17%)
	Replicate 2	307,082	289,167 (94.17%)	288,979 (94.10%)	278,291 (90.62%)
Right bank	Replicate 1	320,925	303,460 (94.56%)	303,260 (94.50%)	292,001 (90.99%)
	Replicate 2	291,289	275,418 (94.55%)	275,231 (94.49%)	264,603 (90.84%)
NC	-	7,617	6,944 (91.16%)	6,916 (90.80%)	6,349 (83.35%)

Table S2 Converged haplotypes, species assignment and mapped reads.

Haplotype	Assigned	Length	Diff MiFish	Diff Blast	Left bank	Center of flow	Right bank	NC
Lethenteron spN	<i>Lethenteron</i> sp.N	182	0	0	0	0	11	0
Anguilla anguilla1		171	0	0	54	569	281	0
Anguilla anguilla2		171	1	1	12	0	0	0
SUM	<i>Anguilla anguilla</i>				66	569	281	0
Anguilla japonica1		169	0	0	7417	12579	10931	0
Anguilla japonica2		169	1	0	0	0	906	0
SUM	<i>Anguilla japonica</i>				7417	12579	11837	0
Anguilla rostrata	<i>Anguilla rostrata</i>	169	0	0	0	36	0	0
Carassius auratus subsp * <sup>1</sup>	<i>Carassius langsdorffii</i>	173	0	0	3825	590	0	0
Carassius cuvieri * <sup>1</sup>	<i>Carassius cuvieri</i>	173	0	0	0	578	1158	0
Cyprinus carpio1		173	0	0	2235	943	2444	0
Cyprinus carpio2 * <sup>1</sup>		173	0	0	9685	8220	14785	0
Cyprinus carpio3 * <sup>1</sup>		173	0	0	1977	2076	11161	0
SUM	<i>Cyprinus carpio</i>				13897	11239	28390	0
Nipponocypris temminckii	<i>Candidia temminckii</i>	177	0	0	22889	28735	39263	0
Phoxinus steindachneri	<i>Rhynchoscypris lagowskii steindachneri</i>	176	0	0	0	312	246	0
Tanakia tanago1		178	0	0	2685	1235	399	0
Tanakia tanago2		178	1	0	982	429	0	0
Tanakia tanago3		178	2	1	56	0	0	0
SUM	<i>Pseudorhodeus tanago</i>				3723	1664	399	0
Tribolodon hakonensis	<i>Pseudaspis hakonensis</i>	176	0	0	302217	211997	205452	24
Tribolodon sachalinensis	<i>Pseudaspis sachalinensis</i>	176	2	2	283	29	0	0
Zacco platypus	<i>Zacco platypus</i>	176	0	0	45853	37922	39856	0
Misgurnus anguillicaudatus	<i>Misgurnus anguillicaudatus</i>	172	0	0	2356	442	1048	0
Misgurnus sp CladeA	<i>Misgurnus chipisanensis</i>	173	0	0	111	82	163	0
U98.5_Cobitis sp BIWAE typeC1		173	5	4	8734	6491	7140	0
U98.5_Cobitis sp BIWAE typeC2		173	6	5	2195	1467	2632	0
U98.5_Cobitis sp BIWAE typeC3		173	6	5	0	243	0	0
SUM	<i>Cobitis</i> sp. BIWAE type C * <sup>2</sup>				10929	8201	9772	0
U98.5_Lefua echigonia gotu1	<i>Lefua echigonia</i>	174	3	0	57406	26880	24161	40
Hypomesus nipponensis * <sup>1</sup>	<i>Hypomesus nipponensis</i>	168	0	0	135	348	108	0
Plecoglossus altivelis1 * <sup>1</sup>		168	0	0	1086	1881	3121	0
Plecoglossus altivelis2 * <sup>1</sup>		168	2	1	42	0	67	0
Plecoglossus altivelis altivelis		168	1	1	0	62	0	0
SUM	<i>Plecoglossus altivelis altivelis</i>				1128	1943	3188	0
Oncorhynchus keta1		169	0	0	963	2534	2245	0
Oncorhynchus keta2		169	1	1	94	0	0	0
SUM	<i>Oncorhynchus keta</i>				1057	2534	2245	0
Oncorhynchus masou masou * <sup>1</sup>	<i>Oncorhynchus masou masou</i>	169	0	0	2787	9594	9542	0
Salvelinus leucomaenoides imbricus * <sup>1</sup>	<i>Salvelinus leucomaenoides</i>	170	0	0	0	110	0	0
Cottus reinii * <sup>1</sup>		169	2	2	605	0	0	0
U98.5_Cottus reinii		170	3	3	0	171	0	0
SUM	<i>Cottus reinii</i> * <sup>2</sup>				605	171	0	0
Lateolabrax japonicus	<i>Lateolabrax japonicus</i>	170	0	0	978	0	0	0
Lepomis macrochirus * <sup>1</sup>	<i>Lepomis macrochirus</i>	168	0	0	351	288	723	0
Rhinogobius sp BF * <sup>1</sup>	<i>Rhinogobius fluviatilis</i>	169	0	0	48110	110493	106468	0
Tridentiger sp1 * <sup>1</sup>		168	0	0	954	2811	2359	0
Tridentiger sp2 * <sup>1</sup>		168	1	1	91	0	0	0
SUM	<i>Tridentiger</i> sp.				1045	2811	2359	0
Takifugu niphobles	<i>Takifugu alboplumbeus</i>	171	1	0	0	262	0	0

Number of converged haplotypes = 41 Number of assigned species/genera = 28

\*<sup>1</sup> Identical or equally close to some other species/subspecies out of geographic range.\*<sup>2</sup> Assignment aided by clustering with blast.

Table S3 Sequences of Cytb from eel specimens

	5	15	25	35	45	55
22ee102_Hap01	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee110_Hap02	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee103-04_Hap03	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee112_Hap04	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee105_08-09_11	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee116-17_Hap06	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee107_Hap07	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee101_Hap08	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
22ee106_Hap09	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_japonica_AB038	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_luzonensis_AB4	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_australis_aust	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_australis_schm	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_bicolor_bicolo	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_bicolor_pacifi	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_malgumora_AP00	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGACGC	CCTAGTGGAT
A_celebesensis_A	ATGGCAAGCC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_dieffenbachii_	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_interioris_AP0	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_marmorata_AP00	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_megastoma_AP00	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_mossambica_AP0	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_labiata_AP0072	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_nebulosa_nebul	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_obscura_AP0072	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_reinhardtii_AP	ATGGCAAACC	TACGAAAAAC	CCACCCACTC	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_rostrata_AP007	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAATGATGC	CCTAGTGGAT
A_anguilla_KJ564	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
A_bengalensis_be	ATGGCAAACC	TACGAAAAAC	CCACCCACTT	CTAAAATTG	CTAACGATGC	CCTAGTGGAT
	65	75	85	95	105	115
22ee102_Hap01	CTACCAAACCC	CATCCAACAT	TTCAGCATGA	TGAAATTTG	GCTCTCTCCT	AGGACTATGC
22ee110_Hap02	CTACCAAACCC	CATCCAACAT	TTCAGCATGA	TGAAATTTG	GCTCTCTCCT	AGGACTATGC
22ee103-04_Hap03	CTACCAAACCC	CATCCAACAT	TTCAGCATGA	TGAAATTTG	GCTCTCTCCT	AGGACTATGC
22ee112_Hap04	CTACCAAACCC	CATCCAACAT	TTCAGCATGA	TGAAATTTG	GCTCTCTCCT	AGGACTATGC

22ee105_08-09_11	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGACTATGC
22ee116-17_Hap06	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGACTATGC
22ee107_Hap07	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG tCTCTCTCCT AGGACTATGC
22ee101_Hap08	CTACCAACCC CATCCAACAT TTCAGtATGA TGAAATTTG GCTCTCTCCT AGGACTATGC
22ee106_Hap09	CTACCAACCC CATCCA <del>t</del> AT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGACTATGC
A_japonica_AB038	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGACTATGC
A_luzonensis_AB4	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_australis_aust	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGT
A_australis_schm	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGT
A_bicolor_bicolor	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_bicolor_pacifi	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGT
A_malgumora_AP00	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCACTCCT TGGATTATGC
A_celebesensis_A	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_dieffenbachii_	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_interioris_AP0	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGT
A_marmorata_AP00	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_megastoma_AP00	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTCG GCTCTCTCCT AGGACTATGC
A_mossambica_AP0	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGACTATGT
A_labiata_AP0072	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_nebulosa_nebul	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_obscura_AP0072	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_reinhardtii_AP	CTACCAACCC CCTCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC
A_rostrata_AP007	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTTTCT AGGATTATGT
A_anguilla_KJ564	CTACCAACCC CATCCAATAT TTCAGCATGA TGAAATTTG GCTCTTTCT AGGATTATGT
A_bengalensis_be	CTACCAACCC CATCCAACAT TTCAGCATGA TGAAATTTG GCTCTCTCCT AGGATTATGC

.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|

125            135            145            155            165            175

22ee102_Hap01	CTTATcTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee110_Hap02	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee103-04_Hap03	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee112_Hap04	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee105_08-09_11	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee116-17_Hap06	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee107_Hap07	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee101_Hap08	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
22ee106_Hap09	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
A_japonica_AB038	CTTATTCGC AAATCCTTAC AGGATTATTTC CTAGCAATACT ACTACACATC AGACATTCA
A_luzonensis_AB4	CTTATCTCAC AAATCATCAC AGGACTATTCTAGCCATAC ACTACACATC AGACATTCA

A_australis_aust	CTCATCTCAC AAATCCTTAC AGGATTATTC CTAGCCATAC ACTATAACATC AGACATCTCA
A_australis_schm	CTCATCTCAC AAATCCTTAC AGGATTATTC CTAGCCATAC ACTATAACATC AGACATCTCA
A_bicolor_bicolo	CTTATCTCAC AAATCGTCAC AGGACTATTTC CTAGCCATAC ACTATAACATC AGACATTCA
A_bicolor_pacifi	CTTATCTCAC AAATCGTTAC AGGACTATTTC CTAGCCATAC ACTATAACATC AGACATTCA
A_malgumora_AP00	CTTATCTCAC AAATCCTCAC AGGACTATTTC CTAGCCATAC ATTATAACATC AGATATCTCA
A_celebesensis_A	CTTATCTCAC AAATCGTTAC AGGATTATTTC CTAGCCATAC ACTACACATC AGACATCTCA
A_dieffenbachii_	CTTATCTCAC AAATCCTTAC AGGATTATTTC CTAGCCATAC ACTATAACATC AGACATCTCA
A_interioris_AP0	CTTATCTCAC AAATCATCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATTCA
A_marmorata_AP00	CTAATCTCAC AAATCATCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATCTCA
A_megastoma_AP00	CTTATCTCCC AAATAGTTAC AGGATTATTTC CTAGCCATAC ACTACACATC AGACATCTCA
A_mossambica_AP0	CTTATCTCTC AAATCCTTAC AGGACTGTTAC CTAGCCATAC ACTACACATC AGACATTCA
A_labiata_AP0072	CTTATCTCAC AAATCATCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATTCA
A_nebulosa_nebul	CTTATCTCAC AAATCATCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATTCA
A_obscura_AP0072	CTTATTTCAC AAATCGTCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATTCA
A_reinhardtii_AP	CTTATCTCAC AAATCCTTAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATCTCA
A_rostrata_AP007	CTTATTTCAC AAATCCTTAC AGGACTATTTC CTAGCCATAC ATTATAACATC AGACATCTCA
A_anguilla_KJ564	CTTATTTCAC AAATCCTTAC AGGACTATTTC CTAGCCATAC ATTATAACATC AGACATCTCA
A_bengalensis_be	CTTATCTCAC AAATCATCAC AGGACTATTTC CTAGCCATAC ACTACACATC AGACATTCA

.....	.....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....
185	195	205	215	225	235		

22ee102_Hap01	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee110_Hap02	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee103-04_Hap03	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee112_Hap04	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee105_08-09_11	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee116-17_Hap06	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee107_Hap07	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee101_Hap08	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
22ee106_Hap09	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
A_japonica_AB038	ACTGCCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTCATCCGA
A_luzonensis_AB4	ACTGCCCTTT CCTCAGTAGC CCACATTGCG CGAGATGTTA ACTACGGATG ATTAATCCGC
A_australis_aust	ACCGCCTTCT CCTCAGTAGC CCACATCTGC CGAGACGTCA ACTATGGATG ATTAATTCTGT
A_australis_schm	ACCGCCTTCT CCTCAGTAGC CCACATCTGC CGAGACGTCA ACTATGGATG ATTAATTCTGT
A_bicolor_bicolo	ACCGCCTTCT CCTCAGTAGC CCATATTGCG CGAGACGTTA ACTACGGATG ACTAATCCGC
A_bicolor_pacifi	ACCGCCTTCT CCTCAGTAGC CCATATTGCG CGAGACGTTA ACTACGGATG ACTAATCCGC
A_malgumora_AP00	ACCGCCTTT CCTCAGTAGC CCACATCTGC CGAGATGTCA ACTACGGATG ATTAATCCGC
A_celebesensis_A	ACCGCCTTCT CTTCAGTAGC CCACATCTGC CGAGACGTCA ATTACGGATG ATTGATCCGT
A_dieffenbachii_	ACCGCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ACTACGGATG ATTAATCCGT

A_interioris_AP0	ACCGCCTTT CCTCAGTAGC CCACATTGT CGAGACGTTA ACTACGGATG ATTAATCCGT
A_marmorata_AP00	ACTGCCTTT CCTCAGTAGC CCACATTGC CGAGACGTTA ATTATGGGTG ACTAATCCGC
A_megastoma_AP00	ACCGCATTCT CCTCAGTAGC CCACATTGC CGAGACGTTA ATTACGGATG ATTAATCCGT
A_mossambica_AP0	ACTGCCTTT CCTCAGTGGC CCACATCTGC CGAGATGTCA ACTATGGATG ATTAATCCGT
A_labiata_AP0072	ACTGCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTAATTCCGC
A_nebulosa_nebul	ACTGCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTAATTCCGC
A_obscura_AP0072	ACTGCTTCT CCTCAGTAGC CCACATTGC CGAGATGTAA ATTACGGATG ATTAATCCGC
A_reinhardtii_AP	ACTGCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTGATCCGC
A_rostrata_AP007	ACTGCCTTCT CCTCAGTAGC TCACATCTGC CGAGACGTCA ACTATGGATG ATTAATTCCGC
A_anguilla_KJ564	ACTGCCTTCT CCTCAGTAGC TCACATCTGC CGAGACGTCA ACTATGGATG ACTAATTCCGC
A_bengalensis_be	ACTGCCTTT CCTCAGTAGC CCACATCTGC CGAGACGTTA ATTATGGATG ATTAATTCCGC

.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|

245            255            265            275            285            295

22ee102_Hap01	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee110_Hap02	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee103-04_Hap03	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee112_Hap04	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee105_08-09_11	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee116-17_Hap06	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee107_Hap07	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee101_Hap08	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
22ee106_Hap09	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
A_japonica_AB038	AATTTACATG CAAACGGGGC CTCCTTCTTC TTTATCTGCC TCTACCTACA CATTGCCCGA
A_luzonensis_AB4	AACCTACATG CAAACGGGGC CTCCTTCTTC TTTATTGCC TATATCTCCA TATTGCCCGA
A_australis_aust	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTCATTGCC TCTACCTCCA CATTGCCCGA
A_australis_schm	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTCATTGCC TCTACCTCCA CATTGCCCGA
A_bicolor_bicolor	AACCTACATG CAAACGGGAGC CTCATTCTTC TTCATTGCC TGTACCTCCA CATGCCCGA
A_bicolor_pacifi	AACCTACATG CAAACGGGAGC CTCATTCTTC TTCATTGCC TGTACCTCCA CATGCCCGA
A_malgumora_AP00	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTTATTGCC TCTACCTCCA CATTGCCCGA
A_celebesensis_A	AACTTACATG CAAACGGGAGC CTCCTTCTTC TTCATTGCC TCTACCTACA CATTGCCCGA
A_dieffenbachii_	AACCTACATG CAAACGGGAGC CTCATTCTTC TTTATTGCC TCTACCTCCA CATTGCCCGA
A_interioris_AP0	AACCTACATG CAAACGGGAGC CTCTTCTTC TTCATTGCC TATATCTCA CATTGCCCGA
A_marmorata_AP00	AACTTACATG CAAACGGGAGC CTCCTTCTTC TTCATCTGCC TATACTTCA CATTGCCCGA
A_megastoma_AP00	AACTTACATG CAAACGGGAGC CTCCTTCTTC TTCATCTGCC TCTACCTACA CATTGCCCGA
A_mossambica_AP0	AACCTACATG CAAATGGGAGC TTCTTCTTC TTCATCTGCC TCTACCTCCA CATTGCCCGA
A_labiata_AP0072	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTCATTGCC TATATCTCA CATTGCCCGA
A_nebulosa_nebul	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTCATTGCC TATATCTCA CATTGCCCGA
A_obscura_AP0072	AACCTACATG CAAACGGGAGC CTCCTTCTTC TTTATTGCC TGTACCTCCA CATTGCCCGA

A_reinhardtii_AP	AACTTACATG CAAACGGAGC CTCCTTCTTC TTTATTGTC TCTACCTGCA CATTGCCCGA
A_rostrata_AP007	AACCTACATG CAAATGGGGC CTCATTCTTC TTTATCTGCC TATACTTCA CATTGCCCGA
A_anguilla_KJ564	AACCTACATG CAAATGGAGC CTCATTCTTC TTTATCTGCC TATACTCCA CATTGCCCGA
A_bengalensis_be	AACCTACATG CAAACGGAGC CTCCTTCTTC TTCATTGCC TATATCTTCA CATTGCCCGA
	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....
	305            315            325            335            345            355
22ee102_Hap01	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee110_Hap02	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee103-04_Hap03	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee112_Hap04	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee105_08-09_11	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee116-17_Hap06	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee107_Hap07	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee101_Hap08	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
22ee106_Hap09	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
A_japonica_AB038	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
A_luzonensis_AB4	GGACTTTACT ACGGCTCATA TCTTATAAA GAAACATGAA ACATCGGAGT CGTGTATT
A_australis_aust	GGACTTTACT ACGGCTCATA CCTTTACAAA GAGACATGAA ACATCGGAGT TGTATTATT
A_australis_schm	GGACTTTACT ACGGCTCATA CCTTTACAAA GAGACATGAA ACATCGGAGT TGTATTATT
A_bicolor_bicolo	GGACTTTACT ACGGATCGTA TCTTATAAA GAAACATGAA ACATCGGAGT CGTACTATT
A_bicolor_pacifi	GGACTTTACT ACGGATCATA TCTTATAAA GAAACATGAA ACATCGGAGT CGTACTATT
A_malgumora_AP00	GGACTTTACT ACGGCTCATA TCTTACAAA GAGACATGAA ACATTGGAGT AGTATTATT
A_celebesensis_A	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATTGGAGT CGTACTATT
A_dieffenbachii_	GGACTTTACT ACGGCTCATA CCTTTACAAA GAAACATGAA ACATTGGAGT CGTATTATT
A_interioris_AP0	GGACTTTACT ACGGCTCATA TCTTACAAA GAGACATGAA ACATCGGAGT CGTGTATT
A_marmorata_AP00	GGACTTTACT ACGGTCATA TCTTACAAA GAAACATGAA ACATCGGAGT CGTACTATT
A_megastoma_AP00	GGACTTTACT ACGGCTCGTA CCTTTATAAA GAGACATGAA ACATCGGAGT TGTATTATT
A_mossambica_AP0	GGACTTTACT ACGGCTCATA TCTTACAAA GAGACATGAA ACATCGGAGT TGTATTATT
A_labiata_AP0072	GGGCTTTACT ACGGCTCGTA CCTTTACAAA GAAACATGAA ACATCGGGGT CGTACTATT
A_nebulosa_nebul	GGGCTTTACT ACGGCTCGTA CCTTTACAAA GAAACATGAA ACATCGGGGT CGTACTATT
A_obscura_AP0072	GGACTTTACT ACGGATCATA TCTTACAAA GAAACATGAA ACATTGGAGT CGTACTATT
A_reinhardtii_AP	GGACTTTACT ACGGCTCATA TCTTATAAA GAGACATGAA ACATCGGAGT CGTACTATT
A_rostrata_AP007	GGACTTTACT ACGGCTCATA TCTTACAAA GAAACATGAA ACATTGGAGT CGTATTATT
A_anguilla_KJ564	GGGCTTTACT ACGGCTCATA CCTTTACATA GAAACATGAA ACATTGGAGT TGTATTATT
A_bengalensis_be	GGGCTTTACT ACGGCTCGTA CCTTTACAAA GAAACATGAA ACATCGGGGT CGTACTATT

.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|

365            375            385            395            405            415

22ee102_Hap01	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee110_Hap02	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee103-04_Hap03	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee112_Hap04	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee105_08-09_11	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee116-17_Hap06	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee107_Hap07	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee101_Hap08	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
22ee106_Hap09	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
A_japonica_AB038	CTATTAGTAA TAATAACTGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
A_luzonensis_AB4	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_australis_aust	CTATTAGTAA TAATAACAGC ATTCTGGGA TACGTTACTTC CATGAGGACA AATATCGTT
A_australis_schm	CTATTAGTAA TAATAACAGC ATTCTGGGA TACGTTACTTC CATGAGGACA AATATCGTT
A_bicolor_bicolo	CTATTAGTAA TAATAACAGC ATTCTGAGGA TACGTTACTTC CATGAGGACA AATATCATT
A_bicolor_pacifi	CTATTAGTAA TAATAACAGC ATTCTGAGGA TACGTTACTTC CATGAGGACA AATATCATT
A_malgumora_AP00	CTACTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTCC CGTGAGGACA AATATCATT
A_celebesensis_A	CTACTAGTAA TAATAACAGC ATTCTGAGGG TACGTTACTTC CATGAGGACA AATATCATT
A_dieffenbachii_	CTGCTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_interioris_AP0	CTACTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_marmorata_AP00	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_megastoma_AP00	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_mossambica_AP0	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_labiata_AP0072	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
A_nebulosa_nebul	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT
A_obscura_AP0072	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA GATATCATT
A_reinhardtii_AP	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTTC CATGAGGACA AATATCATT
A_rostrata_AP007	CTATTAGTAA TAATAACAGC ATTCTGAGGG TATGTACTTC CATGAGGACA GATATCATT
A_anguilla_KJ564	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTGCTTC CATGAGGACA GATATCATT
A_bengalensis_be	CTATTAGTAA TAATAACAGC ATTCTGAGGA TATGTACTCC CATGAGGACA AATATCATT

425                  435                  445                  455                  465                  475

22ee102_Hap01	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTgC CATACTAGG GGACTCCTTA
22ee110_Hap02	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee103-04_Hap03	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee112_Hap04	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee105_08-09_11	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee116-17_Hap06	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee107_Hap07	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA

22ee101_Hap08	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
22ee106_Hap09	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
A_japonica_AB038	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTAC CATACTAGG GGACTCCTTA
A_luzonensis_AB4	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCTGCCGTCC CATACTAGG AGACTCACTA
A_australis_aust	TGAGGTGCTA CAGTAATTAC CAACCTACTG TCAGCCGTCC CATACTAGG AAACCTCCCTA
A_australis_schm	TGAGGTGCTA CAGTAATTAC CAACCTACTG TCAGCCGTCC CATACTAGG AAACCTCCCTA
A_bicolor_bicolo	TGAGGTGCCA CAGTAATTAC CAATCTACTA TCTGCCGTCC CATACTAGG AGACTCACTA
A_bicolor_pacifi	TGAGGTGCCA CAGTAATTAC CAATCTACTA TCTGCCGTTC CATACTAGG AGACTTACTA
A_malgumora_AP00	TGAGGCGCTA CAGTAATTAC CAACTACTA TCCGCCGTCC CATACTAGG AAACACTCTA
A_celebesensis_A	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCTGCCGTCC CATACTAGG AGACTCCCTA
A_dieffenbachii_	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCTGCCGTAC CATACTAGG AAACCTCCCTA
A_interioris_AP0	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCTGCCGTCC CATACTAGG AGACTCACTA
A_marmorata_AP00	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCCGTCC CATACTAGG AGACTCACTA
A_megastoma_AP00	TGAGGCGCTA CAGTAATTAC CAACCTACTA TCTGCCGTCC CATACTGGG AGACTCCCTA
A_mossambica_AP0	TGAGGCGCTA CAGTAATTAC CAACCTACTA TCCGCTGTCC CATACTAGG AGACTCCCTA
A_labiata_AP0072	TGAGGCGCTA CAGTAATTAC CAACCTACTA TCTGCAGTCC CATACTAGG AGACTCACTA
A_nebulosa_nebul	TGAGGCGCTA CAGTAATTAC CAACCTACTA TCTGCAGTCC CATACTAGG AGACTCACTA
A_obscura_AP0072	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCCGTCC CATATGTAGG AGACTCACTA
A_reinhardtii_AP	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCCGCTGTCC CATATGTAGG GAACTCCCTA
A_rostrata_AP007	TGAGGTGCTA CAGTAATTAC CAATCTATTA TCTGCCGTCC CATACTAGG AAACCTCCCTA
A_anguilla_KJ564	TGAGGTGCTA CAGTAATTAC CAACCTACTA TCTGCCGTCC CATATGTCGG GAACTCCCTA
A_bengalensis_be	TGAGGCGCTA CAGTAATTAC CAACCTACTA TCTGCAGTCC CATACTAGG AGACTCACTA

485                  495                  505                  515                  525                  535

22ee102_Hap01	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee110_Hap02	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee103-04_Hap03	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee112_Hap04	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee105_08-09_11	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee116-17_Hap06	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee107_Hap07	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee101_Hap08	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
22ee106_Hap09	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_japonica_AB038	GTTCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_luzonensis_AB4	GTCCAATGAA TCTGAGGGGG CTTCTCAGTT GATAACGCCA CACTAACCG ATTCTTCGCA
A_australis_aust	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_australis_schm	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_bicolor_bicolo	GTCCAATGAA TCTGGGGAGG CTTCTCAGTT GACAACGCCA CACTAACCG ATTCTTCGCA

A_bicolor_pacifi	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CACTAACCCG ATTCTTCGCA
A_malgumora_AP00	GTCCAATGAA TCTGAGGGGG ATTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_celebesensis_A	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CATTAACTCG ATTCTTCGCA
A_dieffenbachii_	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAACGCCA CACTAACCCG ATTCTTCGCA
A_interioris_AP0	GTCCAATGAA TCTGAGGAGG ATTCTCAGTT GATAACGCCA CACTAACCCG ATTCTTCGCA
A_marmorata_AP00	GTCCAATGAA TTTGAGGAGG CTTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_megastoma_AP00	GTACAGTGAA TCTGAGGAGG CTTCTCAGTT GACAACGCTA CATTAACCCG ATTCTTCGCA
A_mossambica_AP0	GTCCAATGAA TCTGAGGAGG CTTCTCAGTT GACAATGCCA CATTAACCCG ATTCTTCGCA
A_labiata_AP0072	GTCCAATGAA TCTGAGGGGG CTTCTCAGTT GACAACGCCA CACTAACCCG ATTCTTCGCA
A_nebulosa_nebul	GTCCAATGAA TCTGAGGGGG CTTCTCAGTT GACAACGCCA CACTAACCCG ATTCTTCGCA
A_obscura_AP0072	GTCCAATGAA TCTGAGGAGG CTTCAGTT GACAACGCTA CACTAACCCG ATTCTTCGCA
A_reinhardtii_AP	GTCCAATGAA TCTGAGGGGG CTTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_rostrata_AP007	GTCCAATGAA TCTGAGGGGG CTTCAGTC GACAACGCCA CATTGACCCG ATTCTTCGCA
A_anguilla_KJ564	GTCCAATGAA TCTGAGGGGG ATTCTCAGTT GACAACGCCA CATTAACCCG ATTCTTCGCA
A_bengalensis_be	GTCCAATGAA TCTGAGGGGG CTTCTCAGTT GACAACGCCA CACTAACCCG ATTCTTCGCA

22ee102_Hap01	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee110_Hap02	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee103-04_Hap03	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee112_Hap04	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee105_08-09_11	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee116-17_Hap06	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee107_Hap07	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee101_Hap08	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
22ee106_Hap09	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCACCT CCTATTCCCTC
A_japonica_AB038	TTCCACTTCC TATTCCATT TGTAGTTGCC GGCCTACAA TAATTCATCT CCTATTCCCTC
A_luzonensis_AB4	TTCCACTTCC TATTCCCATT TGTAGTTGCC GGTGCTACAA TAATTCACCT CCTCTTCCTC
A_australis_aust	TTCCACTTCC TGTTCCCATT TGTAGTTGCC GGAGCTACAA TACTTCATCT CCTATTCCCTC
A_australis_schm	TTCCACTTCC TGTTCCCATT TGTAGTTGCC GGAGCTACAA TACTTCATCT CCTATTCCCTC
A_bicolor_bicolo	TTCCACTTCC TATTCCCATT TGTAGTTGCC GGCCTACAA TAATTCACCT CCTGTTCTA
A_bicolor_pacifi	TTCCACTTCC TATTCCCATT TGTAGTTGCC GGCCTACAA TAATTCACCT CCTATTCCCTA
A_malgumora_AP00	TTCCACTTCC TATTCCCATT CGTAGTTGCT GGGGCCACAA TACTCCACCT CCTGTTCTC
A_celebesensis_A	TTCCACTTCC TATTCCCATT TGTAGTTGCC GGTGCTACAA TAATTCACCT CTTATTCCCTC
A_dieffenbachii_	TTCCACTTCT TATTCCCATT TGTAGTTGCT GGAGCTACAA TAATTCATCT CCTATTCCCTA
A_interioris_AP0	TTTCATTTC TATTCCCATT TGTAGTTGCC GGCCTACAA TAATTCACCT CCTATTCCCTC
A_marmorata_AP00	TTCCACTTCC TATTCCCATT TGTAGTTGCC GGTGCTACAA TAATTCACCT CCTATTCCCTC
A_megastoma_AP00	TTTCACTTCC TATTCCCATT TGTAGTTGCC GGCCTACAA TAATTCACCT CCTATTCCCTT

A_mossambica_AP0	TTCCACTTCC TATTCCATT CGTAGTCGCC GGAGCAACAA TGCTCCATCT CCTATTCCCT
A_labiata_AP0072	TTTCACTTCC TATTCCCATT TGTAGTTGCC GGCGCTACAA TAATTCACCT CCTATTCTC
A_nebulosa_nebul	TTTCACTTCC TATTCCCATT TGTAGTTGCC GGCGCTACAA TAATTCACCT CCTATTCTC
A_obscura_AP0072	TTCCATTTC TATTCCCATT TGTAGTTGCT GGCGCTACAA TAATTCACCT CCTATTCTC
A_reinhardtii_AP	TTTCACTTCC TATTCCCATT TGTAGTTGCC GGCGCTACAA TAATTCACCT CCTATTCTC
A_rostrata_AP007	TTCCACTTCC TATTCCCATT TGTAGTCGCC GGGGCCACAA TGCTTCACCT CCTATTCTC
A_anguilla_KJ564	TTCCACTTCC TATTCCCATT TGTAGTTGCT GGAGCCACAA TACTTCACCT CCTATTCTC
A_bengalensis_be	TTTCACTTCC TATTCCCATT TGTAGTTGCC GGCGCTACAA TAATTCACCT CCTATTCTC
	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....
	605            615            625            635            645            655
22ee102_Hap01	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee110_Hap02	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA aATCCCATT
22ee103-04_Hap03	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee112_Hap04	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee105_08-09_11	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee116-17_Hap06	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee107_Hap07	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee101_Hap08	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
22ee106_Hap09	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
A_japonica_AB038	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ACGCAGACAA GATCCCATT
A_luzonensis_AB4	CATGAAACAG GGTCAAACAA CCCAGTAGGA TTAAATTCCG ACGCAGACAA AATCCCATT
A_australis_aust	CACGAAACTG GATCTAACAA CCCAGTAGGA CTGAACCTCG ACGCAGACAA AATCCCATT
A_australis_schm	CACGAAACTG GATCTAACAA CCCAGTAGGA CTGAACCTCG ACGCAGACAA AATCCCATT
A_bicolor_bicolo	CACGAAACAG GATCAAACAA CCCAGTAGGG TTAAACTCCG ACGCAGACAA AATCCCATT
A_bicolor_pacifi	CACGAAACAG GATCAAACAA CCCAGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT
A_malgumora_AP00	CACGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTCG ACGCAGACAA AATCCCATT
A_celebesensis_A	CATGAAACAG GATCGAACAA CCCAGTAGGA TTAAACTCTG ACGCAGACAA AATCCCATT
A_dieffenbachii_	CATGAAACAG GATCAAGCAA TCCAGTAGGA TTAAACTCTG ACGCAGACAA AGTCCCATT
A_interioris_AP0	CATGAAACAG GGTCAAACAA CCCAGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT
A_marmorata_AP00	CATGAAACAG GGTCAAACAA CCCAGTAGGA TTGAACCTCG ACGCGGACAA AATTCCATT
A_megastoma_AP00	CATGAAACAG GATCAAACAA CCCAGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT
A_mossambica_AP0	CACGAAACAG GATCAAACAA TCCAGTAGGA CTAATTCTG ACGCAGACAA AATCCCATT
A_labiata_AP0072	CATGAAACAG GGTCAAACAA CCCAGTAGGA TTGAACCTTG ACGCAGACAA AATCCCATT
A_nebulosa_nebul	CATGAAACAG GGTCAAACAA CCCAGTAGGA TTGAACCTTG ACGCAGACAA AATCCCATT
A_obscura_AP0072	CACGAGACAG GATCAAACAA CCCAGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT
A_reinhardtii_AP	CATGAAACAG GATCAAACAA CCCAGTAGGA CTGAACCTTG ATGCAGACAA AATCCCATT
A_rostrata_AP007	CATGAAACAG GATCAAACAA CCCAGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT
A_anguilla_KJ564	CATGAAACAG GATCAAACAA CCCGGTAGGA TTAAACTCCG ACGCAGACAA AATCCCATT



22ee112_Hap04	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGACCCA
22ee105_08-09_11	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGAtCCA
22ee116-17_Hap06	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGAtCCA
22ee107_Hap07	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGAtCCA
22ee101_Hap08	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGAtCCA
22ee106_Hap09	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGAtCCA
A_japonica_AB038	ATACTTGCCTT ATTCTCCCC AACCTCCTT GGGGATCCA
A_luzonensis_AB4	ATACTTGCTC TATTCTATCC AACCTCCTT GGAGACCCA
A_australis_aust	ATACTTGCCTT ATTCTTACCC AACCTCCTT GGAGACCCA
A_australis_schm	ATACTTGCCTT ATTCTTACCC AACCTCCTT GGAGACCCA
A_bicolor_bicolo	ATACTTGCTC TATTCTACCC AACCTTCTT GGAGACCCA
A_bicolor_pacifi	TTACTTGCTC TATTCTACCC AACCTCCTT GGAGACCCA
A_malgumora_AP00	ATACTTGCCTT ATTCTTACCC AACCTCCTT GGAGACCCA
A_celebesensis_A	ATACTTGCCTT ATTCTTACCC AAATCTTCTT GGAGATCCA
A_dieffenbachii_	ATACTTGCCTT ATTCTTACCC AACCTCCTT GGAGATCCA
A_interioris_AP0	ATACTTGCTC TATTCTATCC AACCTCCTT GGAGACCCA
A_marmorata_AP00	ATACTTGCTC TATTCTACCC AACCTCCTT GGAGACCCA
A_megastoma_AP00	ATACTTGCCTT ATTCTACCC AACCTTCTC GGAGACCCA
A_mossambica_AP0	ATACTCGCTT ATTCTACCC AACCTACTC GGAGACCCA
A_labiata_AP0072	ATACTTGCTC TATTCTTACCC AACCTCCTT GGAGATCCA
A_nebulosa_nebul	ATACTTGCTC TATTCTTACCC AACCTCCTT GGAGATCCA
A_obscura_AP0072	ATACTTGCTC TATTCTACCC AACCTCCTT GGAGACCCA
A_reinhardtii_AP	ATACTTGCCTT ATTCTTACCC AACCTCCTT GGAGACCCA
A_rostrata_AP007	ATACTTGCCTT ATTCTTACCC CAACCTGCTT GGTGATCCA
A_anguilla_KJ564	ATACTTGCCTT ATTCTTACCC GAACCTGCTT GGAGACCCA
A_bengalensis_be	ATACTTGCTC TATTCTTACCC AACCTCCTT GGAGATCCA