

Supplementary Information

Remarkable diversity of vomeronasal type 2 receptor (*OlfC*) genes of basal ray-finned fish and its evolutionary trajectory in jawed vertebrates

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Supplementary Figure S1. A phylogenetic tree of subfamily “a2” and the cartilaginous fish-specific *V2Rs* constructed using RAxML-NG v.1.0.1 (<https://github.com/amkozlov/raxml-ng>). Note that this subfamily consists of 132 *V2Rs*, most of which were expanded in species-specific birth and death processes. Only one orthologous *V2R* was shared among cartilaginous fish (indicated by asterisk).

Supplementary Table S1. Summary of the intact *V2Rs* in the genomes of vertebrates. Gene name, locus (position in the chromosomes, scaffolds), and directions were summarized in a bed file format.

Supplementary Table S2. PCR primers used to amplify four *V2R* genes of *Polypterus senegalus*.

Supplementary File 1. The aligned *V2R* sequences of all 1897 intact *V2Rs* identified from various vertebrates.

Supplementary File 2. The Newick format phylogenetic tree of all 1897 intact *V2Rs* identified from 19 vertebrates.

Table S1. Summary of the intact V2Rs in the genomes of vertebrates. Gene name, locus (position in the chromosomes, scaffolds), and directions were summarized in a bed file format.

Elephant_shark

KI635855.1	8113726	8114764	locus2.1	848.45	-	8113726	8114764	0,0,255	1	1038	0
KI635855.1	8119816	8120716	locus3.1	742.45	-	8119816	8120716	0,0,255	1	900	0
KI635855.1	8177093	8178050	locus12.1	797.41	-	8177093	8178050	0,0,255	1	957	0
KI635855.1	8192636	8193665	locus14.1	843.28	-	8192636	8193665	0,0,255	1	1029	0
KI635855.1	8227763	8228576	locus22.1	669.02	-	8227763	8228576	0,0,255	1	813	0
KI635855.1	8240920	8241826	locus23.1	735.32	+	8240920	8241826	0,0,255	1	906	0
KI635855.1	17102292	17103270	locus27.1	793.77	-	17102292	17103270	0,0,255	1	978	0
KI635855.1	17115829	17116807	locus28.1	792.8	-	17115829	17116807	0,0,255	1	978	0
KI635855.1	17233500	17234400	locus29.1	742.05	+	17233500	17234400	0,0,255	1	900	0
KI635855.1	17241521	17242424	locus30.1	745.96	+	17241521	17242424	0,0,255	1	903	0
KI635855.1	17252805	17253687	locus31.1	733.15	+	17252805	17253687	0,0,255	1	882	0
KI635949.1	2150304	2151231	locus140.1	760.16	-	2150304	2151231	0,0,255	1	927	0
KI636120.1	1422	2370	locus174.1	789.26	+	1422	2370	0,0,255	1	948	0
KI636120.1	134939	135887	locus176.1	790.01	+	134939	135887	0,0,255	1	948	0
KI636120.1	145558	146461	locus177.1	750.83	+	145558	146461	0,0,255	1	903	0
KI636120.1	153579	154395	locus178.1	669.82	+	153579	154395	0,0,255	1	816	0
KI636120.1	160538	161528	locus179.1	819.89	+	160538	161528	0,0,255	1	990	0
KI636120.1	170622	171534	locus180.1	751.98	+	170622	171534	0,0,255	1	912	0
KI636120.1	387729	388536	locus182.1	659.2	-	387729	388536	0,0,255	1	807	0
KI636613.1	1773	2580	locus191.1	742.52	-	1773	2580	0,0,255	1	807	0

KI636613.1	10429	11227 locus192.1	656.84 -	10429	11227 0,0,255	1	798	0
KI636613.1	26870	27686 locus193.1	671.53 -	26870	27686 0,0,255	1	816	0
KI636730.1	18084	18972 locus194.1	734.37 +	18084	18972 0,0,255	1	888	0
KI637190.1	13622	14435 locus202.1	759.66 +	13622	14435 0,0,255	1	813	0
KI637259.1	1855	2761 locus206.1	742.5 -	1855	2761 0,0,255	1	906	0
KI637457.1	7146	7953 locus212.1	749.02 -	7146	7953 0,0,255	1	807	0
AAVX020441	1726	2539 locus203.1	763.66 +	1726	2539 0,0,255	1	813	0
AAVX020477	5736	6549 locus223.1	752.16 +	5736	6549 0,0,255	1	813	0

Small-eyed_rabbitfish

JAILG010023761.1	7699	8602	locus128.1	604.77 -	7699	8602	0,0,255	1	903	0
JAILG010115746.1	0	840	locus500.1	606.08 -	0	840	0,0,255	1	840	0
JAILG010055919.1	747	1792	locus322.1	609.36 +	747	1792	0,0,255	2	274,755	0,290
JAILG010059427.1	1243	2146	locus332.1	593.78 -	1243	2146	0,0,255	1	903	0
JAILG010064328.1	344	1385	locus355.1	619.77 -	344	1385	0,0,255	1	1041	0
JAILG010015209.1	3558	4599	locus69.1	614.77 -	3558	4599	0,0,255	1	1041	0
JAILG010072115.1	1336	2239	locus376.1	643.25 -	1336	2239	0,0,255	1	903	0
JAILG010181541.1	0	717	locus651.1	522.45 +	0	717	0,0,255	1	717	0
JAILG010021320.1	2785	3790	locus110.1	625.21 +	2785	3790	0,0,255	1	1005	0
JAILG010169968.1	2	743	locus629.1	567.5 +	2	743	0,0,255	1	741	0
JAILG010025835.1	7080	8013	locus138.1	587.29 +	7080	8013	0,0,255	1	933	0
JAILG010047614.1	3306	4197	locus291.1	531.82 +	3306	4197	0,0,255	1	891	0
JAILG010076904.1	196	1096	locus396.1	643.25 +	196	1096	0,0,255	1	900	0
JAILG010163260.1	2	815	locus613.1	579.76 -	2	815	0,0,255	1	813	0
JAILG010050407.1	0	852	locus302.1	568.11 +	0	852	0,0,255	1	852	0
JAILG010036036.1	3007	4064	locus226.1	604.91 -	3007	4064	0,0,255	2	882,24	0,1033
JAILG010068946.1	474	1614	locus366.1	615.26 -	474	1614	0,0,255	1	1140	0
JAILG010032669.1	1	676	locus209.1	515.88 +	1	676	0,0,255	1	675	0
JAILG010013374.1	9399	10308	locus60.1	588.39 -	9399	10308	0,0,255	1	909	0
JAILG010010345.1	9179	10082	locus48.1	622.76 +	9179	10082	0,0,255	1	903	0
JAILG010036747.1	1425	2385	locus232.1	628.76 +	1425	2385	0,0,255	1	960	0
JAILG010043639.1	3949	4756	locus263.1	550.51 -	3949	4756	0,0,255	1	807	0
JAILG010030383.1	2	812	locus179.1	546.14 +	2	812	0,0,255	1	810	0

JAILG010119096.1	1	946	locus519.1	562.42 +	1	946	0,0,255	1	945	0
JAILG010126192.1	70	1072	locus539.1	586.77 -	70	1072	0,0,255	1	1002	0
JAILG010058509.1	15	786	locus330.1	535.47 +	15	786	0,0,255	1	771	0
JAILG010018604.1	329	1187	locus95.1	521.4 -	329	1187	0,0,255	1	858	0
JAILG010077329.1	0	813	locus401.1	545.63 +	0	813	0,0,255	1	813	0
JAILG010042405.1	110	1301	locus257.1	612.99 +	110	1301	0,0,255	3	24,830,37	0,156,1154
JAILG010017782.1	7477	8284	locus83.1	645.51 -	7477	8284	0,0,255	1	807	0
JAILG010007213.1	1158	2106	locus29.1	672.75 -	1158	2106	0,0,255	1	948	0
JAILG010007213.1	8266	9169	locus30.1	527.08 -	8266	9169	0,0,255	1	903	0
JAILG010007213.1	23226	24129	locus32.1	602.92 -	23226	24129	0,0,255	1	903	0
JAILG010028109.1	8313	9108	locus163.1	607.02 +	8313	9108	0,0,255	1	795	0
JAILG010007213.1	15424	16327	locus31.1	661.2 -	15424	16327	0,0,255	1	903	0
JAILG010034634.1	0	720	locus218.1	628.84 -	0	720	0,0,255	1	720	0
JAILG010006824.1	23636	24434	locus25.1	567.52 +	23636	24434	0,0,255	1	798	0
JAILG010006824.1	9779	10721	locus24.1	653.62 +	9779	10721	0,0,255	1	942	0
JAILG010022906.1	393	1185	locus115.1	667.73 -	393	1185	0,0,255	1	792	0
JAILG010013651.1	13704	14709	locus64.1	663.87 +	13704	14709	0,0,255	1	1005	0
JAILG010014301.1	11755	12670	locus66.1	597.55 -	11755	12670	0,0,255	1	915	0

Cloudy_catshark

BFAA01000307.1	373103	374000	locus7.1	742.33	+	373103	374000	0,0,255	1	897	0
BFAA01000307.1	381643	382540	locus8.1	744.04	-	381643	382540	0,0,255	1	897	0
BFAA01000307.1	420820	421711	locus10.1	732.32	-	420820	421711	0,0,255	1	891	0
BFAA01000307.1	502254	503061	locus12.1	660.24	-	502254	503061	0,0,255	1	807	0
BFAA01000307.1	575562	576369	locus14.1	661.03	-	575562	576369	0,0,255	1	807	0
BFAA01000307.1	612935	613727	locus15.1	646.05	-	612935	613727	0,0,255	1	792	0
BFAA01001691.1	123489	124302	locus39.1	676.81	-	123489	124302	0,0,255	1	813	0
BFAA01001691.1	152837	153758	locus40.1	769.15	-	152837	153758	0,0,255	1	921	0
BFAA01001691.1	185319	186114	locus41.1	661.49	+	185319	186114	0,0,255	1	795	0
BFAA01001691.1	206554	207274	locus42.1	590.43	+	206554	207274	0,0,255	1	720	0
BFAA01001691.1	250024	250924	locus43.1	748.43	+	250024	250924	0,0,255	1	900	0
BFAA01001691.1	267255	268047	locus44.1	657.03	-	267255	268047	0,0,255	1	792	0
BFAA01001691.1	311246	312044	locus45.1	662.84	-	311246	312044	0,0,255	1	798	0
BFAA01001691.1	352153	353116	locus47.1	798.92	-	352153	353116	0,0,255	1	963	0
BFAA01002101.1	33077	33890	locus53.1	670.41	+	33077	33890	0,0,255	1	813	0
BFAA01002101.1	87681	88575	locus54.1	740.75	+	87681	88575	0,0,255	1	894	0
BFAA01004758.1	192202	193105	locus65.1	745.41	+	192202	193105	0,0,255	1	903	0
BFAA01008259.1	16048	16942	locus76.1	746.63	-	16048	16942	0,0,255	1	894	0
BFAA01008259.1	53813	55076	locus77.1	1038.67	-	53813	55076	0,0,255	1	1263	0
BFAA01008259.1	83740	84511	locus78.1	631.29	-	83740	84511	0,0,255	1	771	0
BFAA01008733.1	38466	39354	locus79.1	714.45	+	38466	39354	0,0,255	1	888	0
BFAA01012745.1	7247	8267	locus87.1	820.73	-	7247	8267	0,0,255	1	1020	0
BFAA01013518.1	10111	10996	locus91.1	734.91	+	10111	10996	0,0,255	1	885	0

Great_white_shark

QUOW01000919.1	4438299	4439199	locus10.1	724.65 +	4438299	4439199	0,0,255	1	900	0
QUOW01000919.1	4483961	4484849	locus11.1	709.15 +	4483961	4484849	0,0,255	1	888	0
QUOW01001159.1	1331958	1332810	locus17.1	707.47 -	1331958	1332810	0,0,255	1	852	0
QUOW01001159.1	1833390	1834329	locus18.1	775 -	1833390	1834329	0,0,255	1	939	0
QUOW01001159.1	1869177	1870107	locus19.1	766.41 -	1869177	1870107	0,0,255	1	930	0
QUOW01001159.1	1899640	1900639	locus20.1	827.63 -	1899640	1900639	0,0,255	1	999	0
QUOW01001159.1	1959492	1960395	locus22.1	743.75 -	1959492	1960395	0,0,255	1	903	0
QUOW01001159.1	2812522	2813326	locus25.1	657.98 +	2812522	2813326	0,0,255	1	804	0
QUOW01001159.1	2927235	2928186	locus29.1	787.58 -	2927235	2928186	0,0,255	1	951	0
QUOW01001159.1	2956131	2957067	locus31.1	782.69 +	2956131	2957067	0,0,255	1	936	0
QUOW01001159.1	2971974	2972874	locus32.1	749.9 +	2971974	2972874	0,0,255	1	900	0
QUOW01001159.1	3010165	3010981	locus33.1	671.94 -	3010165	3010981	0,0,255	1	816	0
QUOW01001159.1	3042198	3043008	locus34.1	661.25 -	3042198	3043008	0,0,255	1	810	0
QUOW01001159.1	3094851	3095781	locus35.1	769.27 +	3094851	3095781	0,0,255	1	930	0

Whale_shark

LVEK02000002.1	86491	87304	locus2.1	674.97 -	86491	87304	0,0,255	1	813	0
LVEK02000776.1	6938	7745	locus9.1	652.74 -	6938	7745	0,0,255	1	807	0
LVEK02002323.1	78960	79698	locus20.1	482.54 -	78960	79698	0,0,255	1	738	0
LVEK02002323.1	131462	132272	locus21.1	663.66 +	131462	132272	0,0,255	1	810	0
LVEK02002323.1	148000	148876	locus22.1	716.51 +	148000	148876	0,0,255	1	876	0
LVEK02002323.1	168028	168928	locus23.1	745.34 -	168028	168928	0,0,255	1	900	0
LVEK02002323.1	193877	194678	locus24.1	665.7 -	193877	194678	0,0,255	1	801	0
LVEK02014336.1	34850	35867	locus36.1	815.4 -	34850	35867	0,0,255	1	1017	0
LVEK02019665.1	27856	28753	locus49.1	750.31 +	27856	28753	0,0,255	1	897	0
LVEK02029290.1	13908	14739	locus56.1	691.32 -	13908	14739	0,0,255	1	831	0
LVEK02029290.1	22329	23130	locus57.1	657.15 -	22329	23130	0,0,255	1	801	0
LVEK02029290.1	34843	35677	locus58.1	680.59 -	34843	35677	0,0,255	1	834	0
LVEK02029290.1	78214	79030	locus61.1	682.6 +	78214	79030	0,0,255	1	816	0
LVEK02029290.1	102240	103086	locus62.1	702.1 +	102240	103086	0,0,255	1	846	0
LVEK02029290.1	139969	140770	locus64.1	659.99 +	139969	140770	0,0,255	1	801	0
LVEK02029290.1	208421	209234	locus68.1	676.47 +	208421	209234	0,0,255	1	813	0
LVEK02029292.1	77897	78809	locus77.1	768.43 -	77897	78809	0,0,255	1	912	0
LVEK02029292.1	117038	117833	locus79.1	725.49 -	117038	117833	0,0,255	1	795	0
LVEK02042295.1	21726	22614	locus98.1	709.9 -	21726	22614	0,0,255	1	888	0
LVEK02047597.1	15668	16601	locus103.1	781.08 -	15668	16601	0,0,255	1	933	0
LVEK02047597.1	59769	60666	locus106.1	749.69 -	59769	60666	0,0,255	1	897	0
LVEK02047597.1	91482	92457	locus109.1	810.72 -	91482	92457	0,0,255	1	975	0

Brownbanded_bambooshark

ccg_chipu00000014	16653850	16654837	locus518.1	819.81	-	16653850	16654837	0,0,255	1	987	0
ccg_chipu00000014	17030173	17031091	locus519.1	748.83	+	17030173	17031091	0,0,255	1	918	0
ccg_chipu00000014	17087991	17088975	locus520.1	802.18	+	17087991	17088975	0,0,255	1	984	0
ccg_chipu00000066	9822515	9823544	locus1554.1	856.39	+	9822515	9823544	0,0,255	1	1029	0
ccg_chipu00000066	9842281	9843094	locus1555.1	675.68	-	9842281	9843094	0,0,255	1	813	0
ccg_chipu00000066	9914503	9915334	locus1560.1	689.82	-	9914503	9915334	0,0,255	1	831	0
ccg_chipu00000066	9931637	9932597	locus1562.1	800.74	-	9931637	9932597	0,0,255	1	960	0
ccg_chipu00000066	9955952	9956888	locus1564.1	777.09	-	9955952	9956888	0,0,255	1	936	0
ccg_chipu00000066	10051002	10051998	locus1570.1	827.6	-	10051002	10051998	0,0,255	1	996	0
ccg_chipu00000066	10099547	10100489	locus1573.1	786.17	-	10099547	10100489	0,0,255	1	942	0
ccg_chipu00000066	10132160	10132985	locus1576.1	696.93	+	10132160	10132985	0,0,255	1	825	0
ccg_chipu00000066	10197679	10198486	locus1583.1	787.25	+	10197679	10198486	0,0,255	1	807	0
ccg_chipu00000066	10234631	10235486	locus1585.1	740.89	+	10234631	10235486	0,0,255	1	855	0
ccg_chipu00000066	10280061	10280892	locus1588.1	805.45	+	10280061	10280892	0,0,255	1	831	0
ccg_chipu00000066	10373096	10374056	locus1595.1	798.17	-	10373096	10374056	0,0,255	1	960	0
ccg_chipu00000066	10405846	10406776	locus1597.1	782.16	-	10405846	10406776	0,0,255	1	930	0
ccg_chipu00000066	10445892	10446786	locus1599.1	736.24	+	10445892	10446786	0,0,255	1	894	0
ccg_chipu00000066	11225393	11226296	locus1601.1	741.09	-	11225393	11226296	0,0,255	1	903	0
ccg_chipu00000066	11279302	11280139	locus1603.1	688.28	+	11279302	11280139	0,0,255	1	837	0
ccg_chipu00000066	11367106	11368003	locus1611.1	749.49	+	11367106	11368003	0,0,255	1	897	0
ccg_chipu00000066	11407717	11408596	locus1614.1	736.64	+	11407717	11408596	0,0,255	1	879	0
ccg_chipu00000066	11886330	11887143	locus1619.1	673.85	+	11886330	11887143	0,0,255	1	813	0
ccg_chipu00000066	11916072	11916963	locus1620.1	743.73	+	11916072	11916963	0,0,255	1	891	0

ccg_chipu00000105	698011	698893	locus1998.1	727.07 -	698011	698893	0,0,255	1	882	0
ccg_chipu00000105	755174	756184	locus2000.1	630.26 -	755174	756184	0,0,255	2	773,40	0,970
ccg_chipu00000105	777718	778645	locus2001.1	757.73 -	777718	778645	0,0,255	1	927	0

Little_skate

AESE010035648.1	314	1205	locus4.1	733.91 -	314	1205	0,0,255	1	891	0
AESE010036109.1	70	988	locus5.1	740.6 +	70	988	0,0,255	1	918	0
AESE010044841.1	1830	2760	locus7.1	770.64 -	1830	2760	0,0,255	1	930	0
AESE010104795.1	31	967	locus14.1	776.12 -	31	967	0,0,255	1	936	0
AESE010131607.1	198	1011	locus16.1	664.49 +	198	1011	0,0,255	1	813	0
AESE011510678.1	449	1421	locus49.1	792.79 -	449	1421	0,0,255	1	972	0
AESE011557639.1	103	1003	locus52.1	756.07 -	103	1003	0,0,255	1	900	0
AESE011619611.1	1005	1899	locus54.1	735.42 +	1005	1899	0,0,255	1	894	0

Thorny_skate

scaffold_16	12510531	12511359	locus23.1	668.39 -	12510531	12511359	0,0,255	1	828	0
scaffold_16	12541614	12542532	locus24.1	741.46 -	12541614	12542532	0,0,255	1	918	0
scaffold_16	12736487	12737378	locus25.1	733.91 +	12736487	12737378	0,0,255	1	891	0
scaffold_16	34257392	34258286	locus26.1	735.65 -	34257392	34258286	0,0,255	1	894	0
scaffold_16	35960327	35961227	locus27.1	756.88 -	35960327	35961227	0,0,255	1	900	0
scaffold_16	35978605	35979535	locus28.1	773.02 -	35978605	35979535	0,0,255	1	930	0
scaffold_16	36517683	36518619	locus31.1	775.46 -	36517683	36518619	0,0,255	1	936	0
scaffold_16	36556572	36557385	locus32.1	663.82 +	36556572	36557385	0,0,255	1	813	0

Smalltooth_sawfish

CM019860.1	81599275	81600256	locus19.1	797.55	-	81599275	81600256	0,0,255	1	981	0
CM019860.1	81632010	81633054	locus20.1	848.17	-	81632010	81633054	0,0,255	1	1044	0
CM019860.1	81858781	81859684	locus21.1	741.72	+	81858781	81859684	0,0,255	1	903	0
CM019860.1	108428013	108428826	locus24.1	662.55	-	108428013	108428826	0,0,255	1	813	0
CM019860.1	108543764	108545009	locus31.1	1020.13	-	108543764	108545009	0,0,255	1	1245	0
CM019860.1	108592296	108593187	locus33.1	735.25	+	108592296	108593187	0,0,255	1	891	0
CM019860.1	108611520	108612660	locus34.1	871.47	+	108611520	108612660	0,0,255	1	1140	0
CM019860.1	108680533	108681346	locus36.1	670.28	+	108680533	108681346	0,0,255	1	813	0
CM019860.1	108687346	108688162	locus37.1	677.69	-	108687346	108688162	0,0,255	1	816	0
CM019860.1	108731703	108732516	locus38.1	668.05	+	108731703	108732516	0,0,255	1	813	0
CM019860.1	108749465	108750281	locus39.1	668.97	-	108749465	108750281	0,0,255	1	816	0
CM019860.1	109346601	109347492	locus41.1	740.71	+	109346601	109347492	0,0,255	1	891	0
CM019860.1	109360872	109361763	locus42.1	740.2	+	109360872	109361763	0,0,255	1	891	0
CM019860.1	109372416	109373307	locus43.1	741.74	+	109372416	109373307	0,0,255	1	891	0
CM019860.1	109387080	109387971	locus44.1	739.03	+	109387080	109387971	0,0,255	1	891	0
CM019860.1	109415317	109416235	locus46.1	744.7	+	109415317	109416235	0,0,255	1	918	0
CM019860.1	109432060	109432978	locus48.1	758.93	+	109432060	109432978	0,0,255	1	918	0
CM019860.1	109448836	109449754	locus49.1	756.19	+	109448836	109449754	0,0,255	1	918	0
CM019860.1	109470582	109471500	locus51.1	748.05	+	109470582	109471500	0,0,255	1	918	0
CM019860.1	109500707	109501625	locus53.1	745.54	+	109500707	109501625	0,0,255	1	918	0
CM019860.1	109533410	109534328	locus55.1	743.05	+	109533410	109534328	0,0,255	1	918	0
CM019860.1	109551998	109552916	locus57.1	757.54	+	109551998	109552916	0,0,255	1	918	0
CM019860.1	109574654	109575572	locus59.1	757.95	+	109574654	109575572	0,0,255	1	918	0

CM019860.1 109725444 109726473 locus61.1 855.7 + 109725444 109726473 0,0,255 1 1029 0

Reedfish

LR536433.1	117940254	117941241	locus27372.1	802.65 -	117940254	117941241	0,0,255	1	987	0
LR536433.1	118001930	118002821	locus27375.1	723.23 -	118001930	118002821	0,0,255	1	891	0
LR536433.1	118551605	118552418	locus27405.1	660.16 +	118551605	118552418	0,0,255	1	813	0
LR536433.1	118591654	118592458	locus27408.1	650.02 +	118591654	118592458	0,0,255	1	804	0
LR536433.1	118605859	118606663	locus27410.1	650.46 +	118605859	118606663	0,0,255	1	804	0
LR536433.1	118620442	118621252	locus27411.1	665.16 +	118620442	118621252	0,0,255	1	810	0
LR536433.1	118685126	118686113	locus27417.1	817.34 +	118685126	118686113	0,0,255	1	987	0
LR536433.1	118700162	118700975	locus27418.1	665.85 +	118700162	118700975	0,0,255	1	813	0
LR536433.1	118720451	118721261	locus27420.1	723.95 +	118720451	118721261	0,0,255	1	810	0
LR536433.1	118744336	118745149	locus27423.1	663.48 +	118744336	118745149	0,0,255	1	813	0
LR536433.1	118762868	118763681	locus27424.1	661.8 +	118762868	118763681	0,0,255	1	813	0
LR536433.1	118784814	118785627	locus27426.1	662.36 +	118784814	118785627	0,0,255	1	813	0
LR536433.1	118801657	118802581	locus27427.1	759.44 +	118801657	118802581	0,0,255	1	924	0
LR536433.1	118821122	118821935	locus27432.1	659.77 +	118821122	118821935	0,0,255	1	813	0
LR536433.1	118839755	118840565	locus27436.1	661.69 +	118839755	118840565	0,0,255	1	810	0
LR536433.1	118867951	118868761	locus27441.1	663.32 +	118867951	118868761	0,0,255	1	810	0
LR536433.1	118881454	118882264	locus27442.1	657.56 +	118881454	118882264	0,0,255	1	810	0
LR536433.1	118905319	118906129	locus27444.1	658.12 +	118905319	118906129	0,0,255	1	810	0
LR536433.1	118945412	118946225	locus27451.1	661.31 +	118945412	118946225	0,0,255	1	813	0
LR536433.1	118959787	118960597	locus27452.1	658.85 +	118959787	118960597	0,0,255	1	810	0
LR536433.1	118967678	118968605	locus27454.1	763.77 +	118967678	118968605	0,0,255	1	927	0
LR536433.1	118990787	118991597	locus27456.1	662.17 +	118990787	118991597	0,0,255	1	810	0
LR536433.1	119010827	119011709	locus27457.1	726.36 +	119010827	119011709	0,0,255	1	882	0

LR536433.1	119027494	119028301	locus27461.1	655.55 +	119027494	119028301	0,0,255	1	807	0
LR536433.1	119049701	119050508	locus27464.1	656.36 +	119049701	119050508	0,0,255	1	807	0
LR536433.1	119069853	119070648	locus27467.1	643.87 +	119069853	119070648	0,0,255	1	795	0
LR536433.1	119083036	119083831	locus27468.1	645.06 +	119083036	119083831	0,0,255	1	795	0
LR536433.1	119098554	119099349	locus27472.1	647.14 +	119098554	119099349	0,0,255	1	795	0
LR536433.1	119139581	119140376	locus27474.1	644.99 +	119139581	119140376	0,0,255	1	795	0
LR536433.1	119157263	119158073	locus27478.1	662.53 +	119157263	119158073	0,0,255	1	810	0
LR536433.1	119171291	119172122	locus27482.1	672.7 +	119171291	119172122	0,0,255	1	831	0
LR536433.1	119202381	119203224	locus27487.1	681.29 +	119202381	119203224	0,0,255	1	843	0
LR536433.1	119234880	119235732	locus27491.1	688.83 +	119234880	119235732	0,0,255	1	852	0
LR536433.1	119269856	119270696	locus27495.1	678.65 +	119269856	119270696	0,0,255	1	840	0
LR536433.1	119316358	119317153	locus27496.1	651.64 +	119316358	119317153	0,0,255	1	795	0
LR536433.1	119346971	119347766	locus27498.1	652.07 +	119346971	119347766	0,0,255	1	795	0
LR536433.1	119368834	119369629	locus27501.1	652.72 +	119368834	119369629	0,0,255	1	795	0
LR536433.1	119402263	119403070	locus27507.1	653.78 +	119402263	119403070	0,0,255	1	807	0
LR536433.1	119424287	119425100	locus27509.1	662.36 +	119424287	119425100	0,0,255	1	813	0
LR536433.1	119432190	119433153	locus27510.1	791.37 +	119432190	119433153	0,0,255	1	963	0
LR536433.1	119446425	119447271	locus27514.1	689.21 +	119446425	119447271	0,0,255	1	846	0
LR536433.1	119458643	119459453	locus27515.1	657.55 +	119458643	119459453	0,0,255	1	810	0
LR536433.1	119483502	119484429	locus27517.1	770.73 +	119483502	119484429	0,0,255	1	927	0
LR536433.1	119516598	119517399	locus27518.1	654.75 +	119516598	119517399	0,0,255	1	801	0
LR536433.1	119538141	119538936	locus27521.1	649.2 +	119538141	119538936	0,0,255	1	795	0
LR536433.1	119550328	119551123	locus27524.1	650.58 +	119550328	119551123	0,0,255	1	795	0
LR536433.1	119567728	119568661	locus27527.1	767.39 +	119567728	119568661	0,0,255	1	933	0

LR536433.1	119598801	119599605	locus27530.1	649.85 +	119598801	119599605	0,0,255	1	804	0
LR536433.1	119613792	119614785	locus27531.1	811.83 +	119613792	119614785	0,0,255	1	993	0
LR536433.1	119645834	119646641	locus27535.1	663.37 +	119645834	119646641	0,0,255	1	807	0
LR536433.1	119679292	119680087	locus27543.1	647.65 +	119679292	119680087	0,0,255	1	795	0
LR536433.1	121169062	121169962	locus27546.1	739.57 +	121169062	121169962	0,0,255	1	900	0
LR536433.1	121188689	121189685	locus27548.1	823.46 +	121188689	121189685	0,0,255	1	996	0
LR536433.1	121214242	121215055	locus27551.1	668.03 +	121214242	121215055	0,0,255	1	813	0
LR536433.1	121236519	121237419	locus27552.1	741.46 +	121236519	121237419	0,0,255	1	900	0
LR536433.1	121251987	121252929	locus27554.1	779.95 +	121251987	121252929	0,0,255	1	942	0
LR536433.1	121288013	121288817	locus27559.1	660.83 +	121288013	121288817	0,0,255	1	804	0
LR536433.1	121306580	121307537	locus27563.1	799.03 +	121306580	121307537	0,0,255	1	957	0
LR536433.1	121331732	121332695	locus27565.1	794.85 +	121331732	121332695	0,0,255	1	963	0
LR536433.1	121351273	121352083	locus27567.1	663.72 +	121351273	121352083	0,0,255	1	810	0
LR536433.1	121364526	121365339	locus27570.1	669.44 +	121364526	121365339	0,0,255	1	813	0
LR536433.1	121378187	121379027	locus27573.1	693.75 +	121378187	121379027	0,0,255	1	840	0
LR536433.1	121391279	121392179	locus27575.1	748.18 +	121391279	121392179	0,0,255	1	900	0
LR536433.1	121404061	121404865	locus27576.1	666.01 +	121404061	121404865	0,0,255	1	804	0
LR536433.1	121426923	121427817	locus27579.1	742.36 +	121426923	121427817	0,0,255	1	894	0
LR536433.1	121444619	121445417	locus27584.1	657.72 +	121444619	121445417	0,0,255	1	798	0
LR536433.1	121464392	121465190	locus27585.1	658.73 +	121464392	121465190	0,0,255	1	798	0
LR536433.1	121482148	121482946	locus27586.1	657.99 +	121482148	121482946	0,0,255	1	798	0
LR536433.1	121495258	121496071	locus27587.1	663.66 +	121495258	121496071	0,0,255	1	813	0
LR536433.1	121516051	121516855	locus27591.1	662.66 +	121516051	121516855	0,0,255	1	804	0
LR536433.1	121580539	121581478	locus27596.1	775.84 +	121580539	121581478	0,0,255	1	939	0

LR536433.1	121604253	121605189	locus27597.1	781.36 +	121604253	121605189	0,0,255	1	936	0
LR536433.1	121614609	121615569	locus27599.1	793.08 +	121614609	121615569	0,0,255	1	960	0
LR536433.1	121632443	121633463	locus27603.1	850.84 +	121632443	121633463	0,0,255	1	1020	0
LR536433.1	121676535	121677516	locus27607.1	808.04 +	121676535	121677516	0,0,255	1	981	0
LR536433.1	121698722	121699658	locus27608.1	780.08 +	121698722	121699658	0,0,255	1	936	0
LR536433.1	121736726	121737539	locus27613.1	666.68 +	121736726	121737539	0,0,255	1	813	0
LR536433.1	121755062	121755998	locus27617.1	773.95 +	121755062	121755998	0,0,255	1	936	0
LR536433.1	121787932	121788844	locus27623.1	756.86 +	121787932	121788844	0,0,255	1	912	0
LR536433.1	121809990	121810818	locus27626.1	774.88 +	121809990	121810818	0,0,255	1	828	0
LR536433.1	121822990	121823791	locus27629.1	655.34 +	121822990	121823791	0,0,255	1	801	0
LR536433.1	121849857	121850664	locus27632.1	657.83 +	121849857	121850664	0,0,255	1	807	0
LR536433.1	121858788	121859616	locus27634.1	679.11 +	121858788	121859616	0,0,255	1	828	0
LR536433.1	121882597	121883425	locus27636.1	680.32 +	121882597	121883425	0,0,255	1	828	0
LR536433.1	121897316	121898159	locus27637.1	685.02 +	121897316	121898159	0,0,255	1	843	0
LR536433.1	121924644	121925544	locus27638.1	733.31 +	121924644	121925544	0,0,255	1	900	0
LR536433.1	121947435	121948335	locus27640.1	732.58 +	121947435	121948335	0,0,255	1	900	0
LR536433.1	121955985	121956885	locus27641.1	736.85 +	121955985	121956885	0,0,255	1	900	0
LR536433.1	121981821	121982721	locus27646.1	736.85 +	121981821	121982721	0,0,255	1	900	0
LR536433.1	122003860	122004799	locus27647.1	773.45 +	122003860	122004799	0,0,255	1	939	0
LR536433.1	122041492	122042392	locus27649.1	737.24 +	122041492	122042392	0,0,255	1	900	0
LR536433.1	122056758	122057670	locus27651.1	744.52 +	122056758	122057670	0,0,255	1	912	0
LR536433.1	122070589	122071402	locus27654.1	709.66 +	122070589	122071402	0,0,255	1	813	0
LR536433.1	122089569	122090367	locus27657.1	680.2 +	122089569	122090367	0,0,255	1	798	0
LR536433.1	122103522	122104422	locus27659.1	740.95 +	122103522	122104422	0,0,255	1	900	0

LR536433.1	122487544	122488432	locus27661.1	734.27 +	122487544	122488432	0,0,255	1	888	0
LR536433.1	122507488	122508382	locus27663.1	733.79 +	122507488	122508382	0,0,255	1	894	0
LR536433.1	122520763	122521696	locus27665.1	771.93 +	122520763	122521696	0,0,255	1	933	0
LR536433.1	122551304	122552099	locus27670.1	657.82 +	122551304	122552099	0,0,255	1	795	0
LR536433.1	122564421	122565399	locus27671.1	807.14 +	122564421	122565399	0,0,255	1	978	0
LR536433.1	122587097	122588006	locus27677.1	752.71 +	122587097	122588006	0,0,255	1	909	0
LR536433.1	122614338	122615151	locus27679.1	665.32 +	122614338	122615151	0,0,255	1	813	0
LR536433.1	122633517	122634312	locus27683.1	653.68 +	122633517	122634312	0,0,255	1	795	0
LR536433.1	122642200	122643100	locus27685.1	737.8 +	122642200	122643100	0,0,255	1	900	0
LR536433.1	122667448	122668348	locus27689.1	739 +	122667448	122668348	0,0,255	1	900	0
LR536433.1	122693582	122694506	locus27690.1	768.94 +	122693582	122694506	0,0,255	1	924	0
LR536433.1	122738904	122739702	locus27693.1	658.15 +	122738904	122739702	0,0,255	1	798	0
LR536433.1	122753828	122754632	locus27697.1	664.1 +	122753828	122754632	0,0,255	1	804	0
LR536433.1	122764068	122764869	locus27699.1	665.39 +	122764068	122764869	0,0,255	1	801	0
LR536433.1	122776725	122777529	locus27703.1	663.3 +	122776725	122777529	0,0,255	1	804	0
LR536433.1	122815883	122816684	locus27707.1	662.53 +	122815883	122816684	0,0,255	1	801	0
LR536433.1	122832262	122833054	locus27711.1	649.32 +	122832262	122833054	0,0,255	1	792	0
LR536433.1	122853324	122854200	locus27713.1	726.74 +	122853324	122854200	0,0,255	1	876	0
LR536433.1	122879352	122880165	locus27719.1	669.35 +	122879352	122880165	0,0,255	1	813	0
LR536433.1	122924618	122925533	locus27724.1	763.93 +	122924618	122925533	0,0,255	1	915	0
LR536433.1	122932964	122933768	locus27727.1	661.2 -	122932964	122933768	0,0,255	1	804	0
LR536434.1	273369089	273370001	locus56889.1	750.66 +	273369089	273370001	0,0,255	1	912	0
LR536434.1	274753008	274753857	locus56973.1	694.41 -	274753008	274753857	0,0,255	1	849	0
LR536434.1	274825717	274826566	locus56974.1	687.69 -	274825717	274826566	0,0,255	1	849	0

CAADRL0100015:	21326	22148	locus40330.1	668.59 +	21326	22148	0,0,255	1	822	0
CAADRL0100015:	41157	41967	locus40334.1	658.34 +	41157	41967	0,0,255	1	810	0
CAADRL0100015:	61215	62148	locus40336.1	768.37 +	61215	62148	0,0,255	1	933	0
CAADRL0100015:	85917	86850	locus40339.1	730.28 +	85917	86850	0,0,255	1	933	0
CAADRL0100015:	114892	115825	locus40342.1	767.98 +	114892	115825	0,0,255	1	933	0
CAADRL0100015:	140049	140982	locus40344.1	728.28 +	140049	140982	0,0,255	1	933	0
CAADRL0100015:	160432	161359	locus40347.1	763.53 +	160432	161359	0,0,255	1	927	0
CAADRL0100015:	176758	177763	locus40349.1	832.76 +	176758	177763	0,0,255	1	1005	0
CAADRL0100015:	190866	191796	locus40350.1	765.59 +	190866	191796	0,0,255	1	930	0
CAADRL0100015:	231602	232571	locus40354.1	792.46 +	231602	232571	0,0,255	1	969	0
CAADRL0100015:	339549	340359	locus40363.1	755.24 +	339549	340359	0,0,255	1	810	0
CAADRL0100015:	361336	362149	locus40365.1	659.01 +	361336	362149	0,0,255	1	813	0
CAADRL0100015:	373831	374734	locus40368.1	740.41 +	373831	374734	0,0,255	1	903	0
CAADRL0100015:	393159	393957	locus40371.1	697.9 +	393159	393957	0,0,255	1	798	0
CAADRL0100015:	419653	420463	locus40372.1	662.06 +	419653	420463	0,0,255	1	810	0
CAADRL0100015:	450271	451066	locus40375.1	650.21 +	450271	451066	0,0,255	1	795	0
CAADRL0100015:	469155	469980	locus40378.1	668.29 -	469155	469980	0,0,255	1	825	0
CAADRL0100015:	494094	494916	locus40381.1	665.33 -	494094	494916	0,0,255	1	822	0
CAADRL0100015:	500715	501561	locus40382.1	684.92 -	500715	501561	0,0,255	1	846	0
CAADRL0100015:	525833	526649	locus40383.1	664.12 +	525833	526649	0,0,255	1	816	0
CAADRL0100015:	545218	546088	locus40385.1	714.39 -	545218	546088	0,0,255	1	870	0
CAADRL0100015:	586244	587174	locus40391.1	774.42 -	586244	587174	0,0,255	1	930	0
CAADRL0100015:	599660	600560	locus40393.1	750.52 -	599660	600560	0,0,255	1	900	0
CAADRL0100015:	656664	657576	locus40403.1	766.49 -	656664	657576	0,0,255	1	912	0

CAADRL0100015:	698980	699886	locus40406.1	744.31 +	698980	699886	0,0,255	1	906	0
CAADRL0100015:	718441	719266	locus40408.1	681.08 +	718441	719266	0,0,255	1	825	0
CAADRL0100015:	725661	726477	locus40409.1	662.85 -	725661	726477	0,0,255	1	816	0
CAADRL0100015:	782053	782962	locus40415.1	757.66 +	782053	782962	0,0,255	1	909	0
CAADRL0100015:	808493	809303	locus40417.1	669.33 +	808493	809303	0,0,255	1	810	0
CAADRL0100015:	819983	820796	locus40419.1	669.12 +	819983	820796	0,0,255	1	813	0
CAADRL0100015:	828710	829511	locus40420.1	667.6 +	828710	829511	0,0,255	1	801	0
CAADRL0100015:	845794	846601	locus40424.1	662.49 +	845794	846601	0,0,255	1	807	0
CAADRL0100015:	860789	861602	locus40427.1	662.62 +	860789	861602	0,0,255	1	813	0
CAADRL0100015:	883318	884131	locus40429.1	672.36 +	883318	884131	0,0,255	1	813	0
CAADRL0100015:	914059	914866	locus40433.1	664.85 +	914059	914866	0,0,255	1	807	0
CAADRL0100015:	941278	942091	locus40435.1	671.79 +	941278	942091	0,0,255	1	813	0
CAADRL0100015:	962312	963311	locus40436.1	827.13 +	962312	963311	0,0,255	1	999	0
CAADRL0100015:	998814	999714	locus40437.1	741.02 +	998814	999714	0,0,255	1	900	0
CAADRL0100015:	1076756	1077656	locus40443.1	740.82 +	1076756	1077656	0,0,255	1	900	0
CAADRL0100015:	1106686	1107649	locus40448.1	800.5 +	1106686	1107649	0,0,255	1	963	0
CAADRL0100015:	1125519	1126458	locus40451.1	774.11 +	1125519	1126458	0,0,255	1	939	0
CAADRL0100015:	1147897	1148710	locus40453.1	665.01 -	1147897	1148710	0,0,255	1	813	0
CAADRL0100015:	1195602	1196541	locus40458.1	727.49 +	1195602	1196541	0,0,255	1	939	0
CAADRL0100015:	1220414	1221314	locus40460.1	739.44 +	1220414	1221314	0,0,255	1	900	0
CAADRL0100015:	1237200	1238139	locus40462.1	778.97 +	1237200	1238139	0,0,255	1	939	0
CAADRL0100015:	1268277	1269237	locus40464.1	792.43 +	1268277	1269237	0,0,255	1	960	0
CAADRL0100015:	1313230	1314025	locus40468.1	701.98 +	1313230	1314025	0,0,255	1	795	0
CAADRL0100015:	1330491	1331430	locus40470.1	778.48 +	1330491	1331430	0,0,255	1	939	0

CAADRL0100015:	1354663	1355476	locus40471.1	663.6 -	1354663	1355476	0,0,255	1	813	0
CAADRL0100015:	1387471	1388284	locus40475.1	668.12 -	1387471	1388284	0,0,255	1	813	0
CAADRL0100015:	1403119	1403932	locus40478.1	667.11 -	1403119	1403932	0,0,255	1	813	0
CAADRL0100015:	1421907	1422837	locus40479.1	765.53 -	1421907	1422837	0,0,255	1	930	0
CAADRL0100015:	1436454	1437402	locus40481.1	777.6 -	1436454	1437402	0,0,255	1	948	0
CAADRL0100015:	1452346	1453153	locus40483.1	709.35 -	1452346	1453153	0,0,255	1	807	0
CAADRL0100015:	1461893	1462784	locus40486.1	733.64 -	1461893	1462784	0,0,255	1	891	0
CAADRL0100015:	1500626	1501442	locus40490.1	669.9 -	1500626	1501442	0,0,255	1	816	0
CAADRL0100015:	1520255	1521053	locus40492.1	653.88 -	1520255	1521053	0,0,255	1	798	0
CAADRL0100015:	1537080	1538124	locus40497.1	871.1 -	1537080	1538124	0,0,255	1	1044	0
CAADRL0100015:	1554762	1555557	locus40499.1	722.73 -	1554762	1555557	0,0,255	1	795	0
CAADRL0100015:	1567042	1567837	locus40501.1	723.17 -	1567042	1567837	0,0,255	1	795	0
CAADRL0100015:	1592090	1592885	locus40503.1	714.17 -	1592090	1592885	0,0,255	1	795	0
CAADRL0100015:	1614762	1615692	locus40506.1	768.64 -	1614762	1615692	0,0,255	1	930	0
CAADRL0100015:	1631155	1631950	locus40509.1	705.69 -	1631155	1631950	0,0,255	1	795	0
CAADRL0100015:	1647576	1648380	locus40513.1	661.85 -	1647576	1648380	0,0,255	1	804	0
CAADRL0100015:	1667137	1668076	locus40514.1	771.35 -	1667137	1668076	0,0,255	1	939	0
CAADRL0100015:	2423742	2424705	locus40515.1	794.85 -	2423742	2424705	0,0,255	1	963	0
CAADRL0100015:	2449079	2450036	locus40517.1	799.19 -	2449079	2450036	0,0,255	1	957	0
CAADRL0100015:	2478025	2478967	locus40520.1	780.09 -	2478025	2478967	0,0,255	1	942	0
CAADRL0100015:	2490512	2491412	locus40523.1	742.43 -	2490512	2491412	0,0,255	1	900	0

Sterlet

CM021261.1	5650468	5651500	locus180.1	599.3 -	5650468	5651500	0,0,255	1	1032	0
CM021261.1	5775258	5776053	locus182.1	606.8 -	5775258	5776053	0,0,255	1	795	0
CM021261.1	5784168	5785152	locus183.1	607.3 -	5784168	5785152	0,0,255	1	984	0
CM021261.1	5798180	5798975	locus184.1	604.8 +	5798180	5798975	0,0,255	1	795	0
CM021261.1	5806225	5807020	locus185.1	599.8 +	5806225	5807020	0,0,255	1	795	0
CM021261.1	5815076	5815871	locus186.1	594.8 +	5815076	5815871	0,0,255	1	795	0
CM021261.1	5824945	5825869	locus187.1	576.1 +	5824945	5825869	0,0,255	1	924	0
CM021261.1	5837160	5838120	locus188.1	604.8 -	5837160	5838120	0,0,255	1	960	0
CM021261.1	5847503	5848298	locus189.1	606.3 -	5847503	5848298	0,0,255	1	795	0
CM021261.1	5881419	5882241	locus191.1	605.3 +	5881419	5882241	0,0,255	1	822	0
CM021261.1	5897511	5898450	locus192.1	589.3 +	5897511	5898450	0,0,255	1	939	0
CM021261.1	5907782	5908682	locus193.1	579.8 +	5907782	5908682	0,0,255	1	900	0
CM021261.1	5920448	5921348	locus194.1	585.8 +	5920448	5921348	0,0,255	1	900	0
CM021261.1	5934387	5935287	locus195.1	587.3 +	5934387	5935287	0,0,255	1	900	0
CM021261.1	5944272	5945172	locus196.1	591.8 +	5944272	5945172	0,0,255	1	900	0
CM021261.1	5952262	5953075	locus197.1	586.3 +	5952262	5953075	0,0,255	1	813	0
CM021261.1	5961166	5962066	locus199.1	592.3 +	5961166	5962066	0,0,255	1	900	0
CM021261.1	6067895	6068774	locus200.1	603.3 +	6067895	6068774	0,0,255	1	879	0
CM021261.1	6087488	6088439	locus201.1	590.8 +	6087488	6088439	0,0,255	1	951	0
CM021261.1	6097731	6098544	locus202.1	591.3 +	6097731	6098544	0,0,255	1	813	0
CM021261.1	6110866	6111679	locus203.1	602.3 +	6110866	6111679	0,0,255	1	813	0
CM021261.1	6125954	6126881	locus204.1	600.3 +	6125954	6126881	0,0,255	1	927	0
CM021261.1	6136253	6137141	locus205.1	594.8 +	6136253	6137141	0,0,255	1	888	0

CM021261.1	6145025	6145913	locus206.1	596.8 +	6145025	6145913	0,0,255	1	888	0
CM021261.1	6159344	6160211	locus208.1	604.2 +	6159344	6160211	0,0,255	1	867	0
CM021261.1	6166453	6167362	locus209.1	576.4 -	6166453	6167362	0,0,255	1	909	0
CM021268.1	27942084	27942996	locus276.1	568.9 +	27942084	27942996	0,0,255	1	912	0
CM021268.1	27945509	27946400	locus277.1	529 -	27945509	27946400	0,0,255	1	891	0
CM021268.1	27958905	27959805	locus278.1	531.6 -	27958905	27959805	0,0,255	1	900	0
CM021268.1	27967605	27968418	locus280.1	590.3 -	27967605	27968418	0,0,255	1	813	0
CM021268.1	27995822	27996764	locus281.1	597.3 -	27995822	27996764	0,0,255	1	942	0
CM021268.1	28012722	28013535	locus282.1	594.3 -	28012722	28013535	0,0,255	1	813	0
CM021268.1	28024304	28025183	locus283.1	598.3 -	28024304	28025183	0,0,255	1	879	0
CM021268.1	28042484	28043453	locus284.1	586.3 -	28042484	28043453	0,0,255	1	969	0
CM021268.1	28069288	28070188	locus285.1	578.3 -	28069288	28070188	0,0,255	1	900	0
CM021268.1	28093726	28094536	locus286.1	572.7 -	28093726	28094536	0,0,255	1	810	0
CM021268.1	28100654	28101560	locus287.1	601.8 -	28100654	28101560	0,0,255	1	906	0
CM021268.1	28118261	28119077	locus288.1	606.9 +	28118261	28119077	0,0,255	1	816	0
CM021268.1	28135289	28136084	locus289.1	601.8 +	28135289	28136084	0,0,255	1	795	0
CM021268.1	28141557	28142364	locus290.1	588.3 +	28141557	28142364	0,0,255	1	807	0
CM021268.1	28149043	28149859	locus292.1	559.3 -	28149043	28149859	0,0,255	1	816	0
CM021268.1	28160236	28161043	locus293.1	572.4 +	28160236	28161043	0,0,255	1	807	0
CM021268.1	28260625	28261522	locus295.1	544.7 +	28260625	28261522	0,0,255	1	897	0
CM021302.1	1738706	1740130	locus410.1	438.8 +	1738706	1740130	0,0,255	2	333,435	0,989
CM021306.1	1933890	1934907	locus416.1	496.1 +	1933890	1934907	0,0,255	1	1017	0
VTUV010003	79217	80234	locus438.1	495.6 -	79217	80234	0,0,255	1	1017	0

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LG14	3737208	3738021	locus100.1	664.65 -	3737208	3738021	0,0,255	1	813	0
LG14	3760919	3761888	locus105.1	807.65 -	3760919	3761888	0,0,255	1	969	0
LG14	3782446	3783259	locus110.1	671.69 -	3782446	3783259	0,0,255	1	813	0
LG14	3796418	3797348	locus113.1	770.65 -	3796418	3797348	0,0,255	1	930	0
LG14	3831636	3893202	locus120.1	635.44 -	3831636	3893202	0,0,255	2	354,456	0,61110
LG14	3869152	3870106	locus128.1	793.12 -	3869152	3870106	0,0,255	1	954	0
LG14	3879025	3879829	locus130.1	662.39 -	3879025	3879829	0,0,255	1	804	0
LG14	3914055	3915003	locus135.1	787.93 -	3914055	3915003	0,0,255	1	948	0
LG14	3944736	3945552	locus137.1	661.82 +	3944736	3945552	0,0,255	1	816	0
LG14	3957616	3958456	locus140.1	689.85 -	3957616	3958456	0,0,255	1	840	0
LG14	4014355	4015309	locus143.1	798.36 +	4014355	4015309	0,0,255	1	954	0
LG14	4033923	4034787	locus146.1	697.44 -	4033923	4034787	0,0,255	1	864	0
LG14	4047446	4048346	locus147.1	733.65 +	4047446	4048346	0,0,255	1	900	0
LG14	4055702	4056599	locus148.1	736.46 +	4055702	4056599	0,0,255	1	897	0
LG14	4073886	4074819	locus150.1	769 +	4073886	4074819	0,0,255	1	933	0
LG14	4089462	4090362	locus152.1	734.09 +	4089462	4090362	0,0,255	1	900	0
LG14	4111372	4112299	locus154.1	760.8 +	4111372	4112299	0,0,255	1	927	0
LG14	4131658	4168717	locus156.1	732.29 -	4131658	4168717	0,0,255	2	691,245	0,36814
LG14	4184445	4185375	locus161.1	760.34 -	4184445	4185375	0,0,255	1	930	0
LG14	4202753	4203653	locus163.1	737.93 -	4202753	4203653	0,0,255	1	900	0
LG14	4213897	4214782	locus166.1	726.91 +	4213897	4214782	0,0,255	1	885	0
LG14	4216999	4217803	locus167.1	658.36 -	4216999	4217803	0,0,255	1	804	0
LG14	4332432	4333272	locus168.1	674.51 +	4332432	4333272	0,0,255	1	840	0

LG14	3196387	3197329	locus28.1	794.09 -	3196387	3197329	0,0,255	1	942	0
LG14	3367873	3368686	locus42.1	640.02 -	3367873	3368686	0,0,255	1	813	0
LG14	3374600	3375413	locus43.1	663.01 -	3374600	3375413	0,0,255	1	813	0
LG14	3392201	3393014	locus48.1	667.88 -	3392201	3393014	0,0,255	1	813	0
LG14	3416727	3417717	locus52.1	827.37 -	3416727	3417717	0,0,255	1	990	0
LG14	3434304	3435237	locus55.1	654.94 -	3434304	3435237	0,0,255	1	933	0
LG14	3463431	3464235	locus62.1	670.37 -	3463431	3464235	0,0,255	1	804	0
LG14	3512907	3513720	locus66.1	674.27 -	3512907	3513720	0,0,255	1	813	0
LG14	3532059	3532872	locus69.1	666.19 -	3532059	3532872	0,0,255	1	813	0
LG14	3538497	3539295	locus70.1	661.27 -	3538497	3539295	0,0,255	1	798	0
LG14	3545231	3546047	locus71.1	670.87 -	3545231	3546047	0,0,255	1	816	0
LG14	3551595	3552408	locus73.1	668.69 -	3551595	3552408	0,0,255	1	813	0
LG14	3557557	3558370	locus74.1	668.17 -	3557557	3558370	0,0,255	1	813	0
LG14	3573181	3573994	locus76.1	667.94 -	3573181	3573994	0,0,255	1	813	0
LG14	3581356	3582301	locus77.1	781.49 -	3581356	3582301	0,0,255	1	945	0
LG14	3591299	3592112	locus78.1	667.75 -	3591299	3592112	0,0,255	1	813	0
LG14	3612283	3613096	locus81.1	675.4 -	3612283	3613096	0,0,255	1	813	0
LG14	3621680	3622478	locus83.1	661.79 -	3621680	3622478	0,0,255	1	798	0
LG14	3646917	3647766	locus87.1	700 -	3646917	3647766	0,0,255	1	849	0
LG14	3657134	3657947	locus88.1	673.84 -	3657134	3657947	0,0,255	1	813	0
LG14	3668870	3669683	locus89.1	770.42 -	3668870	3669683	0,0,255	1	813	0
LG14	3676900	3677860	locus90.1	796.81 -	3676900	3677860	0,0,255	1	960	0
LG14	3692596	3693415	locus92.1	673.31 -	3692596	3693415	0,0,255	1	819	0
LG14	3701843	3702656	locus94.1	671.97 -	3701843	3702656	0,0,255	1	813	0

LG14	3720159	3721134	locus96.1	815.51 -	3720159	3721134	0,0,255	1	975	0
LG14	4343220	4344249	locus169.1	833.96 +	4343220	4344249	0,0,255	1	1029	0

Japanese_eel

BEWY01000013.1	25314840	25315641	locus82.1	661.57 -	25314840	25315641	0,0,255	1	801	0
BEWY01000017.1	8079321	8080224	locus99.1	752.6 -	8079321	8080224	0,0,255	1	903	0
BEWY01000017.1	8086131	8087052	locus101.1	769.19 -	8086131	8087052	0,0,255	1	921	0
BEWY01000017.1	8107616	8108507	locus106.1	742.58 -	8107616	8108507	0,0,255	1	891	0
BEWY01000017.1	8114233	8115136	locus108.1	751.98 -	8114233	8115136	0,0,255	1	903	0
BEWY01000017.1	8121556	8122483	locus110.1	708.44 -	8121556	8122483	0,0,255	1	927	0
BEWY01000017.1	8135913	8136714	locus113.1	658.81 -	8135913	8136714	0,0,255	1	801	0
BEWY01000017.1	8150012	8150819	locus115.1	663.22 -	8150012	8150819	0,0,255	1	807	0
BEWY01000017.1	8229593	8230400	locus123.1	664.72 -	8229593	8230400	0,0,255	1	807	0
BEWY01000017.1	8261792	8262599	locus128.1	663.5 -	8261792	8262599	0,0,255	1	807	0
BEWY01000017.1	8309997	8310798	locus138.1	658.32 +	8309997	8310798	0,0,255	1	801	0
BEWY01000017.1	8319418	8320219	locus140.1	658.96 +	8319418	8320219	0,0,255	1	801	0
BEWY01000017.1	8326044	8326857	locus141.1	665.03 -	8326044	8326857	0,0,255	1	813	0
BEWY01000017.1	8335094	8335907	locus142.1	667.19 -	8335094	8335907	0,0,255	1	813	0
BEWY01000017.1	8345255	8346155	locus143.1	746.84 -	8345255	8346155	0,0,255	1	900	0
BEWY01000017.1	8353784	8354492	locus145.1	588.04 -	8353784	8354492	0,0,255	1	708	0
BEWY01000017.1	8379800	8380607	locus149.1	663.2 -	8379800	8380607	0,0,255	1	807	0
BEWY01000017.1	8392702	8393656	locus151.1	789.97 -	8392702	8393656	0,0,255	1	954	0
BEWY01000017.1	8401849	8402785	locus153.1	776.6 -	8401849	8402785	0,0,255	1	936	0
BEWY01000017.1	8411598	8412411	locus155.1	727.13 -	8411598	8412411	0,0,255	1	813	0
BEWY01000017.1	8431168	8431981	locus158.1	669.19 -	8431168	8431981	0,0,255	1	813	0
BEWY01000017.1	8436739	8437540	locus159.1	659.12 -	8436739	8437540	0,0,255	1	801	0
BEWY01000017.1	8441411	8442224	locus160.1	774.58 -	8441411	8442224	0,0,255	1	813	0

BEWY01000017.1	8456849	8457866 locus162.1	846.09 -	8456849	8457866	0,0,255	1	1017	0
BEWY01000017.1	8464218	8465205 locus165.1	816.91 -	8464218	8465205	0,0,255	1	987	0
BEWY01000017.1	8472235	8473201 locus166.1	800.98 -	8472235	8473201	0,0,255	1	966	0
BEWY01000017.1	8532832	8533621 locus175.1	761.01 -	8532832	8533621	0,0,255	1	789	0
BEWY01000017.1	8570902	8571793 locus182.1	738.61 -	8570902	8571793	0,0,255	1	891	0
BEWY01000017.1	8579213	8580026 locus184.1	719.9 -	8579213	8580026	0,0,255	1	813	0
BEWY01000017.1	8591650	8592541 locus186.1	740.82 -	8591650	8592541	0,0,255	1	891	0
BEWY01000017.1	8636939	8637752 locus189.1	734.53 -	8636939	8637752	0,0,255	1	813	0
BEWY01000017.1	8647986	8648877 locus191.1	739.88 -	8647986	8648877	0,0,255	1	891	0
BEWY01000017.1	8672305	8673103 locus193.1	656.44 -	8672305	8673103	0,0,255	1	798	0
BEWY01000017.1	8697135	8697951 locus197.1	761.88 -	8697135	8697951	0,0,255	1	816	0
BEWY01000017.1	8713899	8714712 locus199.1	734.03 -	8713899	8714712	0,0,255	1	813	0
BEWY01000017.1	8734269	8735160 locus202.1	738.1 -	8734269	8735160	0,0,255	1	891	0
BEWY01000105.1	99827	100586 locus217.1	637.25 +	99827	100586	0,0,255	1	759	0
BEWY01000105.1	105898	106801 locus219.1	752.91 +	105898	106801	0,0,255	1	903	0
BEWY01000105.1	121675	122578 locus223.1	751.99 +	121675	122578	0,0,255	1	903	0
BEWY01000105.1	137524	138427 locus227.1	753.14 +	137524	138427	0,0,255	1	903	0
BEWY01000105.1	173486	174389 locus234.1	752.52 +	173486	174389	0,0,255	1	903	0
BEWY01000105.1	186258	187185 locus236.1	717.5 +	186258	187185	0,0,255	1	927	0
BEWY01000105.1	196767	197706 locus238.1	790.11 +	196767	197706	0,0,255	1	939	0
BEWY01000105.1	262761	263763 locus247.1	838.51 +	262761	263763	0,0,255	1	1002	0
BEWY01000105.1	298316	299300 locus250.1	828.08 +	298316	299300	0,0,255	1	984	0
BEWY01000105.1	353454	354261 locus256.1	665.06 +	353454	354261	0,0,255	1	807	0
BEWY01000105.1	358286	359243 locus257.1	783.98 -	358286	359243	0,0,255	1	957	0

BEWY01000105.1	372732	373632	locus260.1	734.34 +	372732	373632	0,0,255	1	900	0
BEWY01000105.1	385228	386128	locus262.1	732.38 +	385228	386128	0,0,255	1	900	0
BEWY01000105.1	389037	389760	locus263.1	592.07 -	389037	389760	0,0,255	1	723	0
BEWY01000105.1	398950	399748	locus266.1	646.44 -	398950	399748	0,0,255	1	798	0
BEWY01000105.1	410820	411720	locus270.1	732.18 +	410820	411720	0,0,255	1	900	0
BEWY01000105.1	420781	421681	locus272.1	734.6 +	420781	421681	0,0,255	1	900	0
BEWY01000105.1	429555	430455	locus274.1	735.18 +	429555	430455	0,0,255	1	900	0
BEWY01000105.1	431969	432767	locus275.1	649.37 -	431969	432767	0,0,255	1	798	0
BEWY01000105.1	542413	543406	locus277.1	786.49 +	542413	543406	0,0,255	1	993	0
BEWY01004646.1	5610	6552	locus298.1	781.42 -	5610	6552	0,0,255	1	942	0
BEWY01074007.1	6472	7264	locus360.1	728.72 -	6472	7264	0,0,255	1	792	0
BEWY01083235.1	13034	13826	locus380.1	729.74 +	13034	13826	0,0,255	1	792	0
BEWY01083235.1	37898	38708	locus384.1	656.34 -	37898	38708	0,0,255	1	810	0
BEWY01083235.1	123662	124628	locus394.1	788.26 +	123662	124628	0,0,255	1	966	0
BEWY01083235.1	133413	134385	locus396.1	797.85 +	133413	134385	0,0,255	1	972	0
BEWY01083235.1	164818	165619	locus400.1	655.88 +	164818	165619	0,0,255	1	801	0
BEWY01083235.1	190081	190885	locus404.1	706.05 +	190081	190885	0,0,255	1	804	0

Zebrafish

18	31912757	31913675	locus473.1	749.34	-	31912757	31913675	0,0,255	1	918	0
18	31965346	31966228	locus474.1	724.98	-	31965346	31966228	0,0,255	1	882	0
18	32136080	32136995	locus475.1	769.24	-	32136080	32136995	0,0,255	1	915	0
18	32566599	32567412	locus478.1	664.62	+	32566599	32567412	0,0,255	1	813	0
18	32617843	32618647	locus479.1	664.85	+	32617843	32618647	0,0,255	1	804	0
18	32674235	32675048	locus480.1	665.91	-	32674235	32675048	0,0,255	1	813	0
18	32705492	32706302	locus481.1	664.6	-	32705492	32706302	0,0,255	1	810	0
18	32783337	32784267	locus482.1	772.44	+	32783337	32784267	0,0,255	1	930	0
18	32918822	32919974	locus485.1	959.62	+	32918822	32919974	0,0,255	1	1152	0
18	32953321	32954131	locus486.1	664.51	+	32953321	32954131	0,0,255	1	810	0
18	32981139	32982171	locus487.1	858.96	+	32981139	32982171	0,0,255	1	1032	0
18	32994991	32995792	locus488.1	658.52	+	32994991	32995792	0,0,255	1	801	0
18	32999330	33000125	locus489.1	652.27	+	32999330	33000125	0,0,255	1	795	0
18	33012244	33013057	locus490.1	679.23	+	33012244	33013057	0,0,255	1	813	0
18	33035786	33036740	locus492.1	798.58	+	33035786	33036740	0,0,255	1	954	0
18	33055358	33056327	locus493.1	807.96	+	33055358	33056327	0,0,255	1	969	0
18	33078427	33079231	locus494.1	663.5	-	33078427	33079231	0,0,255	1	804	0
18	33081323	33082130	locus495.1	670.88	-	33081323	33082130	0,0,255	1	807	0
18	33102917	33103808	locus497.1	743.91	+	33102917	33103808	0,0,255	1	891	0
18	33134526	33135417	locus498.1	744.82	+	33134526	33135417	0,0,255	1	891	0
18	33174818	33175628	locus500.1	660.55	+	33174818	33175628	0,0,255	1	810	0
18	33188586	33189549	locus501.1	802.06	+	33188586	33189549	0,0,255	1	963	0
18	33215966	33216764	locus502.1	760.02	+	33215966	33216764	0,0,255	1	798	0

18	33239653	33240538	locus503.1	744.53	+	33239653	33240538	0,0,255	1	885	0
18	33250320	33251205	locus504.1	743.88	-	33250320	33251205	0,0,255	1	885	0
18	33267647	33268451	locus505.1	667.79	+	33267647	33268451	0,0,255	1	804	0
18	33275108	33275912	locus506.1	666.32	+	33275108	33275912	0,0,255	1	804	0
18	33280463	33281264	locus507.1	663.32	+	33280463	33281264	0,0,255	1	801	0
18	33293140	33294088	locus509.1	791.53	+	33293140	33294088	0,0,255	1	948	0
18	33313860	33314799	locus511.1	781.09	+	33313860	33314799	0,0,255	1	939	0
18	33330738	33331641	locus513.1	749.82	+	33330738	33331641	0,0,255	1	903	0
18	33333410	33334214	locus514.1	654.04	-	33333410	33334214	0,0,255	1	804	0
18	33343400	33344315	locus516.1	747.61	+	33343400	33344315	0,0,255	1	915	0
18	33356124	33356964	locus517.1	677.58	+	33356124	33356964	0,0,255	1	840	0
18	33377105	33378068	locus519.1	780.97	+	33377105	33378068	0,0,255	1	963	0
18	33388851	33389754	locus520.1	736.19	+	33388851	33389754	0,0,255	1	903	0
18	33410734	33411637	locus521.1	736.26	+	33410734	33411637	0,0,255	1	903	0
18	33423656	33424553	locus522.1	740.42	+	33423656	33424553	0,0,255	1	897	0
18	33472684	33473581	locus524.1	741.22	+	33472684	33473581	0,0,255	1	897	0
18	33492710	33493613	locus525.1	739.94	+	33492710	33493613	0,0,255	1	903	0
18	33525109	33526012	locus526.1	739.49	+	33525109	33526012	0,0,255	1	903	0
18	33553111	33553897	locus527.1	662.42	+	33553111	33553897	0,0,255	1	786	0
18	33560836	33561739	locus528.1	737.8	+	33560836	33561739	0,0,255	1	903	0
18	33576322	33577222	locus530.1	738.05	+	33576322	33577222	0,0,255	1	900	0
18	33583019	33583907	locus531.1	730.29	+	33583019	33583907	0,0,255	1	888	0
18	33594790	33595693	locus532.1	734.25	+	33594790	33595693	0,0,255	1	903	0
18	33655522	33656425	locus533.1	738.8	+	33655522	33656425	0,0,255	1	903	0

18	33678329	33679250	locus534.1	753.38 +	33678329	33679250	0,0,255	1	921	0
18	33687552	33688455	locus535.1	737.61 +	33687552	33688455	0,0,255	1	903	0
18	33820994	33821891	locus536.1	729.12 +	33820994	33821891	0,0,255	1	897	0
18	33917456	33918356	locus538.1	733.51 +	33917456	33918356	0,0,255	1	900	0
18	33972830	33973631	locus539.1	752.4 -	33972830	33973631	0,0,255	1	801	0
18	34241448	34242558	locus541.1	888.81 +	34241448	34242558	0,0,255	1	1110	0
CHR_ALT_CTG	32237932	32238949	locus795.1	835.4 -	32237932	32238949	0,0,255	1	1017	0
CHR_ALT_CTG	33902127	33903027	locus814.1	733.51 +	33902127	33903027	0,0,255	1	900	0
CHR_ALT_CTG	33974726	33975656	locus815.1	767.53 -	33974726	33975656	0,0,255	1	930	0
CHR_ALT_CTG	31965346	31966228	locus828.1	724.98 -	31965346	31966228	0,0,255	1	882	0
CHR_ALT_CTG	32128657	32129449	locus830.1	756.55 -	32128657	32129449	0,0,255	1	792	0
CHR_ALT_CTG	33188586	33189549	locus840.1	802.06 +	33188586	33189549	0,0,255	1	963	0
CHR_ALT_CTG	33215966	33216764	locus841.1	760.02 +	33215966	33216764	0,0,255	1	798	0
CHR_ALT_CTG	33239656	33240541	locus842.1	743.34 +	33239656	33240541	0,0,255	1	885	0
CHR_ALT_CTG	33250335	33251220	locus843.1	742.9 -	33250335	33251220	0,0,255	1	885	0
CHR_ALT_CTG	33270242	33271046	locus844.1	666.72 +	33270242	33271046	0,0,255	1	804	0
CHR_ALT_CTG	33277581	33278385	locus845.1	666.32 +	33277581	33278385	0,0,255	1	804	0
CHR_ALT_CTG	33283107	33283908	locus846.1	663.44 +	33283107	33283908	0,0,255	1	801	0
CHR_ALT_CTG	33318122	33319070	locus848.1	791.37 +	33318122	33319070	0,0,255	1	948	0
CHR_ALT_CTG	33332802	33333732	locus850.1	765.69 +	33332802	33333732	0,0,255	1	930	0
CHR_ALT_CTG	33348050	33348953	locus852.1	749.82 +	33348050	33348953	0,0,255	1	903	0
CHR_ALT_CTG	33350668	33351472	locus853.1	654.05 -	33350668	33351472	0,0,255	1	804	0
CHR_ALT_CTG	33360501	33361416	locus855.1	747.69 +	33360501	33361416	0,0,255	1	915	0
CHR_ALT_CTG	33373428	33374268	locus856.1	677.08 +	33373428	33374268	0,0,255	1	840	0

CHR_ALT_CTG	33394681	33395644	locus858.1	780.97 +	33394681	33395644	0,0,255	1	963	0
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Coelacanth

JH126572.1	1660	2485	locus20.1	731.18 +	1660	2485	0,0,255	1	825	0
JH126572.1	19350	20253	locus21.1	741.68 +	19350	20253	0,0,255	1	903	0
JH126572.1	48890	49700	locus26.1	660.1 -	48890	49700	0,0,255	1	810	0
JH126572.1	68313	69111	locus27.1	654.6 -	68313	69111	0,0,255	1	798	0
JH126572.1	371473	372460	locus28.1	789.35 +	371473	372460	0,0,255	1	987	0
JH127178.1	3304	4285	locus131.1	794.96 +	3304	4285	0,0,255	1	981	0
JH127178.1	43758	44580	locus132.1	663.86 +	43758	44580	0,0,255	1	822	0
JH127178.1	199116	200004	locus136.1	688.45 +	199116	200004	0,0,255	2	405,471	0,417
JH127178.1	398452	399292	locus141.1	675.39 +	398452	399292	0,0,255	1	840	0
JH127178.1	441211	442123	locus142.1	751.2 -	441211	442123	0,0,255	1	912	0
JH127178.1	555152	556013	locus143.1	698.43 -	555152	556013	0,0,255	1	861	0
JH127178.1	625370	626363	locus145.1	814.91 -	625370	626363	0,0,255	1	993	0
JH127178.1	688571	689519	locus147.1	781.16 -	688571	689519	0,0,255	1	948	0
JH127178.1	892366	893278	locus150.1	748.03 -	892366	893278	0,0,255	1	912	0
JH127178.1	1106224	1107133	locus153.1	740.34 -	1106224	1E+06	0,0,255	1	909	0
JH127874.1	146802	147708	locus199.1	740.66 -	146802	147708	0,0,255	1	906	0
JH127874.1	180783	181749	locus200.1	791.13 -	180783	181749	0,0,255	1	966	0
JH127874.1	197051	197873	locus201.1	666.56 -	197051	197873	0,0,255	1	822	0
JH127874.1	306245	307157	locus203.1	746.91 -	306245	307157	0,0,255	1	912	0
JH127874.1	387160	388078	locus205.1	757.63 -	387160	388078	0,0,255	1	918	0
JH127874.1	453413	454304	locus206.1	726.88 -	453413	454304	0,0,255	1	891	0
JH127874.1	487820	488777	locus208.1	790.1 -	487820	488777	0,0,255	1	957	0
JH127874.1	506541	507441	locus209.1	742.35 -	506541	507441	0,0,255	1	900	0

JH128519.1	116280	117186	locus248.1	741.83 -	116280	117186	0,0,255	1	906	0
JH128519.1	188965	189877	locus250.1	756.82 -	188965	189877	0,0,255	1	912	0
JH128519.1	224898	225807	locus251.1	753.39 -	224898	225807	0,0,255	1	909	0
JH128519.1	335001	335913	locus252.1	752.03 -	335001	335913	0,0,255	1	912	0
JH128519.1	369706	370615	locus253.1	764.11 -	369706	370615	0,0,255	1	909	0
JH128552.1	157158	158127	locus261.1	800.79 -	157158	158127	0,0,255	1	969	0
JH128552.1	284063	285002	locus262.1	769.07 -	284063	285002	0,0,255	1	939	0
JH128635.1	151162	151984	locus268.1	671.41 +	151162	151984	0,0,255	1	822	0
JH128635.1	177991	178813	locus269.1	665.54 +	177991	178813	0,0,255	1	822	0
JH128635.1	220401	221205	locus270.1	659.63 +	220401	221205	0,0,255	1	804	0
JH128635.1	244179	245097	locus271.1	762.57 +	244179	245097	0,0,255	1	918	0
JH128635.1	266319	267024	locus272.1	654.07 +	266319	267024	0,0,255	1	705	0
JH128635.1	316205	317153	locus274.1	779.83 +	316205	317153	0,0,255	1	948	0
JH128635.1	334892	335801	locus276.1	751.47 +	334892	335801	0,0,255	1	909	0
JH128635.1	351029	351845	locus277.1	666 +	351029	351845	0,0,255	1	816	0
JH128635.1	369080	369992	locus278.1	747.08 +	369080	369992	0,0,255	1	912	0
JH129025.1	36670	37627	locus290.1	779.51 -	36670	37627	0,0,255	1	957	0
JH129025.1	150061	150883	locus292.1	659.25 -	150061	150883	0,0,255	1	822	0
JH129025.1	296338	297250	locus294.1	744.78 -	296338	297250	0,0,255	1	912	0
JH129025.1	315192	316014	locus295.1	657.34 -	315192	316014	0,0,255	1	822	0
JH129158.1	46643	47465	locus301.1	665.88 -	46643	47465	0,0,255	1	822	0
JH129158.1	68588	69488	locus302.1	737.09 -	68588	69488	0,0,255	1	900	0
JH129158.1	122796	123696	locus304.1	738.76 -	122796	123696	0,0,255	1	900	0
JH129158.1	147069	148185	locus305.1	925.87 -	147069	148185	0,0,255	1	1116	0

JH129158.1	168676	169621	locus306.1	775.07 -	168676	169621	0,0,255	1	945	0
JH129158.1	201631	202582	locus308.1	778.93 -	201631	202582	0,0,255	1	951	0
JH129158.1	219866	220778	locus309.1	749.18 -	219866	220778	0,0,255	1	912	0
JH129158.1	262915	263818	locus311.1	740.66 -	262915	263818	0,0,255	1	903	0
JH129405.1	46480	47374	locus318.1	743.84 +	46480	47374	0,0,255	1	894	0
JH129405.1	65006	65828	locus319.1	658.99 +	65006	65828	0,0,255	1	822	0
JH129405.1	109737	110646	locus320.1	737.27 +	109737	110646	0,0,255	1	909	0
JH129405.1	160614	161436	locus321.1	658.49 +	160614	161436	0,0,255	1	822	0
JH129405.1	224732	225554	locus322.1	660.9 +	224732	225554	0,0,255	1	822	0
JH129405.1	244984	245941	locus324.1	783.13 +	244984	245941	0,0,255	1	957	0
JH129411.1	1149	2052	locus325.1	742.24 -	1149	2052	0,0,255	1	903	0
JH129411.1	39781	40594	locus327.1	662.34 +	39781	40594	0,0,255	1	813	0
JH129411.1	53068	53881	locus328.1	669.5 +	53068	53881	0,0,255	1	813	0
JH129411.1	58223	59195	locus329.1	812.66 -	58223	59195	0,0,255	1	972	0
JH129411.1	75954	76767	locus330.1	672.81 -	75954	76767	0,0,255	1	813	0
JH129411.1	104826	105624	locus332.1	649.76 +	104826	105624	0,0,255	1	798	0
JH129411.1	112135	112978	locus333.1	680.99 -	112135	112978	0,0,255	1	843	0
JH129411.1	151203	152100	locus334.1	741.54 +	151203	152100	0,0,255	1	897	0
JH129411.1	159092	160079	locus335.1	814.75 -	159092	160079	0,0,255	1	987	0
JH129675.1	198759	199656	locus341.1	742.66 +	198759	199656	0,0,255	1	897	0
JH130005.1	14273	15185	locus346.1	743.06 +	14273	15185	0,0,255	1	912	0
JH130005.1	29657	30476	locus347.1	669.51 +	29657	30476	0,0,255	1	819	0
JH130005.1	95436	96579	locus349.1	943.01 +	95436	96579	0,0,255	1	1143	0
JH130034.1	33862	34774	locus350.1	748.52 -	33862	34774	0,0,255	1	912	0

JH130034.1	105499	106321	locus351.1	694.56 +	105499	106321	0,0,255	1	822	0
JH130241.1	69336	70233	locus352.1	747.86 +	69336	70233	0,0,255	1	897	0
JH130241.1	93697	94624	locus353.1	752.88 +	93697	94624	0,0,255	1	927	0
JH130857.1	96	1059	locus361.1	790.63 +	96	1059	0,0,255	1	963	0
JH130857.1	50871	51774	locus362.1	739.24 +	50871	51774	0,0,255	1	903	0
JH131058.1	22511	23402	locus365.1	727.14 -	22511	23402	0,0,255	1	891	0
JH131250.1	18165	19140	locus370.1	807.26 +	18165	19140	0,0,255	1	975	0
JH131452.1	20233	21145	locus373.1	754.96 -	20233	21145	0,0,255	1	912	0
JH131509.1	14057	14876	locus374.1	660.9 +	14057	14876	0,0,255	1	819	0
JH131653.1	7876	8698	locus375.1	669.88 -	7876	8698	0,0,255	1	822	0
JH131709.1	6287	7235	locus377.1	765.71 -	6287	7235	0,0,255	1	948	0
JH131961.1	2494	3442	locus380.1	775.96 +	2494	3442	0,0,255	1	948	0
JH132926.1	10416	11319	locus388.1	739.11 +	10416	11319	0,0,255	1	903	0
JH133047.1	3187	4009	locus389.1	657.73 +	3187	4009	0,0,255	1	822	0
AFYH0127316!	2923	3871	locus395.1	781.77 -	2923	3871	0,0,255	1	948	0
AFYH0127679!	3638	4595	locus404.1	783.83 -	3638	4595	0,0,255	1	957	0
AFYH0129023!	206	1118	locus412.1	742.53 -	206	1118	0,0,255	1	912	0
AFYH0129139!	12	990	locus413.1	801.58 +	12	990	0,0,255	1	978	0

Western clawed frog

NC_030677.2	835521	836406	locus2.1	637.43	+	835521	836406	0,0,255	1	885	0
NC_030677.2	878688	879573	locus3.1	641.43	+	878688	879573	0,0,255	1	885	0
NC_030677.2	922748	923624	locus4.1	633.93	+	922748	923624	0,0,255	1	876	0
NC_030677.2	966988	967894	locus5.1	629.43	-	966988	967894	0,0,255	1	906	0
NC_030677.2	978999	979872	locus6.1	631.43	-	978999	979872	0,0,255	1	873	0
NC_030677.2	1036057	1036933	locus8.1	628.43	-	1036057	1036933	0,0,255	1	876	0
NC_030677.2	1054632	1055574	locus9.1	633.92	-	1054632	1055574	0,0,255	1	942	0
NC_030677.2	1190223	1191147	locus11.1	639.22	-	1190223	1191147	0,0,255	1	924	0
NC_030677.2	1227192	1228062	locus12.1	637.22	-	1227192	1228062	0,0,255	1	870	0
NC_030677.2	1261421	1262291	locus13.1	637.22	-	1261421	1262291	0,0,255	1	870	0
NC_030677.2	1306926	1307853	locus14.1	650.41	-	1306926	1307853	0,0,255	1	927	0
NC_030677.2	1327276	1328146	locus15.1	640.92	-	1327276	1328146	0,0,255	1	870	0
NC_030677.2	1384714	1385695	locus16.1	634.93	-	1384714	1385695	0,0,255	1	981	0
NC_030677.2	1403382	1404261	locus17.1	633.22	-	1403382	1404261	0,0,255	1	879	0
NC_030677.2	1425079	1426057	locus18.1	633.43	-	1425079	1426057	0,0,255	1	978	0
NC_030677.2	1450650	1451454	locus19.1	566.51	-	1450650	1451454	0,0,255	1	804	0
NC_030677.2	1468775	1469648	locus20.1	646.41	-	1468775	1469648	0,0,255	1	873	0
NC_030677.2	1517986	1518880	locus21.1	629.43	-	1517986	1518880	0,0,255	1	894	0
NC_030677.2	1540752	1541622	locus22.1	620.93	-	1540752	1541622	0,0,255	1	870	0
NC_030677.2	1560142	1560970	locus23.1	629.92	-	1560142	1560970	0,0,255	1	828	0
NC_030677.2	1636094	1637054	locus24.1	621.43	-	1636094	1637054	0,0,255	1	960	0
NC_030677.2	1662244	1663204	locus25.1	617.94	-	1662244	1663204	0,0,255	1	960	0
NC_030677.2	1699111	1700077	locus26.1	633.42	-	1699111	1700077	0,0,255	1	966	0
NC_030677.2	1736883	1737756	locus27.1	621.43	-	1736883	1737756	0,0,255	1	873	0
NC_030677.2	1774370	1775381	locus28.1	620.44	-	1774370	1775381	0,0,255	1	1011	0
NC_030677.2	1789862	1790735	locus29.1	628.42	-	1789862	1790735	0,0,255	1	873	0
NC_030677.2	1809246	1810119	locus30.1	617.93	-	1809246	1810119	0,0,255	1	873	0
NC_030677.2	1829973	1830846	locus31.1	634.93	-	1829973	1830846	0,0,255	1	873	0
NC_030677.2	1851224	1852097	locus32.1	630.92	-	1851224	1852097	0,0,255	1	873	0
NC_030677.2	1906882	1907761	locus33.1	641.92	-	1906882	1907761	0,0,255	1	879	0
NC_030677.2	1928336	1929215	locus34.1	606.93	-	1928336	1929215	0,0,255	1	879	0
NC_030677.2	1976970	1977888	locus35.1	622.43	+	1976970	1977888	0,0,255	1	918	0
NC_030677.2	1983496	1984372	locus36.1	645.42	-	1983496	1984372	0,0,255	1	876	0
NC_030677.2	2037099	2037981	locus37.1	607.73	+	2037099	2037981	0,0,255	1	882	0
NC_030677.2	2053097	2053973	locus38.1	641.92	-	2053097	2053973	0,0,255	1	876	0
NC_030677.2	2068837	2069719	locus39.1	610.65	-	2068837	2069719	0,0,255	1	882	0
NC_030677.2	2101674	2102556	locus40.1	614.65	-	2101674	2102556	0,0,255	1	882	0
NC_030677.2	2145356	2146238	locus41.1	617.65	-	2145356	2146238	0,0,255	1	882	0
NC_030677.2	2179456	2180338	locus42.1	615.15	-	2179456	2180338	0,0,255	1	882	0
NC_030677.2	2215653	2216535	locus43.1	613.15	-	2215653	2216535	0,0,255	1	882	0
NC_030677.2	2254398	2255280	locus44.1	619.14	-	2254398	2255280	0,0,255	1	882	0
NC_030677.2	2285226	2286108	locus45.1	610.15	-	2285226	2286108	0,0,255	1	882	0
NC_030677.2	2329873	2330755	locus46.1	617.65	-	2329873	2330755	0,0,255	1	882	0

NC_030677.2	2353559	2354441	locus47.1	621.14	-	2353559	2354441	0,0,255	1	882	0
NC_030677.2	2395332	2396208	locus48.1	616.15	-	2395332	2396208	0,0,255	1	876	0
NC_030677.2	2431892	2432744	locus49.1	560.01	+	2431892	2432744	0,0,255	1	852	0
NC_030677.2	2451984	2452863	locus50.1	636.93	+	2451984	2452863	0,0,255	1	879	0
NC_030677.2	2493040	2493922	locus51.1	618.15	+	2493040	2493922	0,0,255	1	882	0
NC_030677.2	2539886	2540768	locus52.1	616.65	+	2539886	2540768	0,0,255	1	882	0
NC_030677.2	2549561	2550467	locus53.1	628.91	-	2549561	2550467	0,0,255	1	906	0
NC_030677.2	2568567	2569446	locus54.1	632.91	-	2568567	2569446	0,0,255	1	879	0
NC_030677.2	2584831	2585710	locus55.1	626.43	-	2584831	2585710	0,0,255	1	879	0
NC_030677.2	2603686	2604565	locus56.1	627.42	-	2603686	2604565	0,0,255	1	879	0
NC_030677.2	2619302	2620181	locus57.1	630.93	-	2619302	2620181	0,0,255	1	879	0
NC_030677.2	2655549	2656422	locus58.1	638.42	-	2655549	2656422	0,0,255	1	873	0
NC_030677.2	2701255	2702128	locus59.1	635.42	-	2701255	2702128	0,0,255	1	873	0
NC_030677.2	2742536	2743409	locus60.1	626.93	-	2742536	2743409	0,0,255	1	873	0
NC_030677.2	2769007	2769883	locus61.1	622.42	+	2769007	2769883	0,0,255	1	876	0
NC_030677.2	2777561	2778500	locus62.1	647.41	-	2777561	2778500	0,0,255	1	939	0
NC_030677.2	2821628	2822522	locus63.1	644.9	-	2822522	2822522	0,0,255	1	894	0
NC_030677.2	2854856	2855753	locus64.1	654.91	-	2854856	2855753	0,0,255	1	897	0
NC_030677.2	2868389	2869286	locus65.1	649.91	-	2868389	2869286	0,0,255	1	897	0
NC_030677.2	2892540	2893413	locus66.1	633.14	-	2892540	2893413	0,0,255	1	873	0
NC_030677.2	2921145	2922048	locus67.1	480.99	-	2921145	2922048	0,0,255	1	903	0
NC_030677.2	2946553	2947456	locus68.1	476.49	-	2946553	2947456	0,0,255	1	903	0
NC_030677.2	2975104	2975983	locus69.1	629.92	-	2975104	2975983	0,0,255	1	879	0
NC_030677.2	2992226	2993168	locus70.1	620.42	-	2992226	2993168	0,0,255	1	942	0
NC_030677.2	3018161	3019037	locus71.1	613.94	-	3018161	3019037	0,0,255	1	876	0
NC_030677.2	3039623	3040496	locus72.1	633.42	-	3039623	3040496	0,0,255	1	873	0
NC_030677.2	3069791	3070664	locus73.1	633.42	-	3069791	3070664	0,0,255	1	873	0
NC_030677.2	3116380	3117253	locus74.1	629.92	-	3116380	3117253	0,0,255	1	873	0
NC_030677.2	3142185	3143121	locus75.1	630.92	-	3142185	3143121	0,0,255	1	936	0
NC_030677.2	3160182	3161115	locus76.1	641.91	-	3160182	3161115	0,0,255	1	933	0
NC_030677.2	3198220	3199114	locus77.1	614.43	-	3198220	3199114	0,0,255	1	894	0
NC_030677.2	3208838	3209732	locus78.1	605.94	-	3208838	3209732	0,0,255	1	894	0
NC_030677.2	3221271	3222129	locus79.1	609.93	-	3221271	3222129	0,0,255	1	858	0
NC_030677.2	3249544	3250438	locus80.1	615.92	-	3249544	3250438	0,0,255	1	894	0
NC_030677.2	3280645	3281539	locus81.1	608.43	-	3280645	3281539	0,0,255	1	894	0
NC_030677.2	3303980	3304856	locus82.1	639.91	-	3303980	3304856	0,0,255	1	876	0
NC_030677.2	3339154	3340030	locus83.1	637.92	-	3339154	3340030	0,0,255	1	876	0
NC_030677.2	3358019	3359024	locus84.1	639.92	-	3358019	3359024	0,0,255	1	1005	0
NC_030677.2	3389547	3390420	locus85.1	625.72	-	3389547	3390420	0,0,255	1	873	0
NC_030677.2	3424640	3425447	locus86.1	638.42	-	3424640	3425447	0,0,255	1	807	0
NC_030677.2	3440294	3441188	locus87.1	623.42	-	3440294	3441188	0,0,255	1	894	0
NC_030677.2	3459493	3460471	locus88.1	611.43	-	3459493	3460471	0,0,255	1	978	0
NC_030677.2	3481486	3482329	locus89.1	644.91	-	3481486	3482329	0,0,255	1	843	0
NC_030677.2	3495126	3496029	locus90.1	599.47	-	3495126	3496029	0,0,255	1	903	0

NC_030677.2	3514380	3515283	locus91.1	583.48	-	3514380	3515283	0,0,255	1	903	0
NC_030677.2	3549805	3550699	locus92.1	574.49	-	3549805	3550699	0,0,255	1	894	0
NC_030677.2	3594496	3595399	locus93.1	574.99	-	3594496	3595399	0,0,255	1	903	0
NC_030677.2	3632369	3633272	locus94.1	576.49	-	3632369	3633272	0,0,255	1	903	0
NC_030677.2	3667415	3668309	locus95.1	572.49	-	3667415	3668309	0,0,255	1	894	0
NC_030677.2	3706490	3707384	locus96.1	580.98	-	3706490	3707384	0,0,255	1	894	0
NC_030677.2	3760561	3761497	locus97.1	497.98	-	3760561	3761497	0,0,255	1	936	0
NC_030677.2	3787950	3788865	locus98.1	466.48	+	3787950	3788865	0,0,255	1	915	0
NC_030677.2	3806621	3807524	locus100.1	582.44	+	3806621	3807524	0,0,255	1	903	0
NC_030677.2	3821903	3822806	locus101.1	492.47	+	3821903	3822806	0,0,255	1	903	0
NC_030677.2	3858541	3859444	locus102.1	477.99	+	3858541	3859444	0,0,255	1	903	0
NC_030677.2	3873752	3874652	locus103.1	484.98	+	3873752	3874652	0,0,255	1	900	0
NC_030677.2	3887777	3888674	locus104.1	623.92	-	3887777	3888674	0,0,255	1	897	0
NC_030677.2	3935515	3936469	locus105.1	627.92	+	3935515	3936469	0,0,255	1	954	0
NC_030677.2	3956234	3957110	locus106.1	636.41	+	3956234	3957110	0,0,255	1	876	0
NC_030677.2	3980795	3981716	locus107.1	628.42	+	3980795	3981716	0,0,255	1	921	0
NC_030677.2	3984076	3985012	locus108.1	502.98	-	3984076	3985012	0,0,255	1	936	0
NC_030677.2	4036195	4037128	locus109.1	627.92	+	4036195	4037128	0,0,255	1	933	0
NC_030677.2	4065319	4066195	locus110.1	623.73	+	4065319	4066195	0,0,255	1	876	0
NC_030677.2	4116921	4117818	locus111.1	629.92	+	4116921	4117818	0,0,255	1	897	0
NC_030677.2	4146605	4147502	locus112.1	627.42	+	4146605	4147502	0,0,255	1	897	0
NC_030677.2	4201613	4202510	locus113.1	634.42	+	4201613	4202510	0,0,255	1	897	0
NC_030677.2	4240714	4241608	locus114.1	637.92	+	4240714	4241608	0,0,255	1	894	0
NC_030677.2	4282340	4283213	locus115.1	630.41	+	4282340	4283213	0,0,255	1	873	0
NC_030677.2	4306664	4307537	locus116.1	628.91	+	4306664	4307537	0,0,255	1	873	0
NC_030677.2	4332295	4333168	locus117.1	631.91	+	4332295	4333168	0,0,255	1	873	0
NC_030677.2	4361025	4361889	locus118.1	637.41	+	4361025	4361889	0,0,255	1	864	0
NC_030677.2	4375708	4376581	locus120.1	616.93	-	4375708	4376581	0,0,255	1	873	0
NC_030677.2	4413199	4414078	locus121.1	630.42	+	4413199	4414078	0,0,255	1	879	0
NC_030677.2	4424790	4425669	locus122.1	654.41	-	4424790	4425669	0,0,255	1	879	0
NC_030677.2	4452458	4453451	locus123.1	629.42	-	4452458	4453451	0,0,255	1	993	0
NC_030677.2	4480290	4481073	locus124.1	620.72	-	4480290	4481073	0,0,255	1	783	0
NC_030677.2	4532903	4533800	locus126.1	497.48	-	4532903	4533800	0,0,255	1	897	0
NC_030677.2	4605693	4606563	locus127.1	626.42	-	4605693	4606563	0,0,255	1	870	0
NC_030677.2	4636237	4637035	locus128.1	619.2	-	4636237	4637035	0,0,255	1	798	0
NC_030677.2	4662954	4663860	locus129.1	491.99	-	4662954	4663860	0,0,255	1	906	0
NC_030677.2	4716277	4717177	locus130.1	483.03	+	4716277	4717177	0,0,255	1	900	0
NC_030677.2	4776011	4776911	locus131.1	489.77	+	4776011	4776911	0,0,255	1	900	0
NC_030677.2	4808558	4809458	locus132.1	494.77	+	4808558	4809458	0,0,255	1	900	0
NC_030677.2	4846804	4847704	locus133.1	482.77	+	4846804	4847704	0,0,255	1	900	0
NC_030677.2	4861408	4862305	locus134.1	632.41	-	4861408	4862305	0,0,255	1	897	0
NC_030677.2	4890474	4891428	locus135.1	630.42	-	4890474	4891428	0,0,255	1	954	0
NC_030677.2	5015936	5016833	locus136.1	640.42	-	5015936	5016833	0,0,255	1	897	0
NC_030677.2	5071397	5072303	locus138.1	499.48	-	5071397	5072303	0,0,255	1	906	0

NC_030677.2	5103811	5104612	locus139.1	459.91 -	5103811	5104612	0,0,255	1	801	0
NC_030677.2	5147625	5148531	locus140.1	486.49 +	5147625	5148531	0,0,255	1	906	0
NC_030677.2	5197550	5198456	locus141.1	474.99 +	5197550	5198456	0,0,255	1	906	0
NC_030677.2	5206604	5207510	locus142.1	497.96 -	5206604	5207510	0,0,255	1	906	0
NC_030677.2	5249709	5250585	locus144.1	642.41 +	5249709	5250585	0,0,255	1	876	0
NC_030677.2	5279106	5280000	locus145.1	635.91 +	5279106	5280000	0,0,255	1	894	0
NC_030677.2	5306749	5307646	locus146.1	629.41 +	5306749	5307646	0,0,255	1	897	0
NC_030677.2	5311195	5312095	locus148.1	489.77 -	5311195	5312095	0,0,255	1	900	0
NC_030677.2	5348557	5349457	locus149.1	493.77 -	5348557	5349457	0,0,255	1	900	0
NC_030677.2	5396571	5397471	locus150.1	495.77 -	5396571	5397471	0,0,255	1	900	0
NC_030677.2	5442351	5443182	locus151.1	611.93 -	5442351	5443182	0,0,255	1	831	0
NC_030677.2	5460272	5461103	locus152.1	616.93 -	5460272	5461103	0,0,255	1	831	0
NC_030677.2	5478893	5479724	locus153.1	498.47 -	5478893	5479724	0,0,255	1	831	0
NC_030677.2	5499045	5499876	locus154.1	508.97 -	5499045	5499876	0,0,255	1	831	0
NC_030677.2	5529137	5551850	locus156.1	577.04 -	5529137	5551850	0,0,255	4	822,8,7,9	0,868,12696,22704
NC_030677.2	5584329	5585208	locus157.1	639.91 +	5584329	5585208	0,0,255	1	879	0
NC_030677.2	5617299	5618178	locus158.1	646.41 +	5617299	5618178	0,0,255	1	879	0
NC_030677.2	5658779	5659787	locus159.1	634.92 +	5658779	5659787	0,0,255	1	1008	0
NC_030677.2	5691252	5692146	locus160.1	633.91 +	5691252	5692146	0,0,255	1	894	0
NC_030677.2	5731978	5732947	locus161.1	625.42 +	5731978	5732947	0,0,255	1	969	0
NC_030677.2	5776826	5777717	locus162.1	625.93 +	5776826	5777717	0,0,255	1	891	0
NC_030677.2	5799201	5800035	locus163.1	645.91 +	5799201	5800035	0,0,255	1	834	0
NC_030677.2	5838950	5839829	locus164.1	702.89 +	5838950	5839829	0,0,255	1	879	0
NC_030677.2	5866601	5867492	locus165.1	686.4 +	5866601	5867492	0,0,255	1	891	0
NC_030677.2	5889423	5890302	locus166.1	603.44 +	5889423	5890302	0,0,255	1	879	0
NC_030677.2	5900397	5901273	locus167.1	636.41 +	5900397	5901273	0,0,255	1	876	0
NC_030677.2	5938585	5939485	locus168.1	491.77 +	5938585	5939485	0,0,255	1	900	0
NC_030677.2	5964465	5965359	locus169.1	638.92 -	5964465	5965359	0,0,255	1	894	0
NC_030677.2	5980729	5981626	locus170.1	640.91 -	5980729	5981626	0,0,255	1	897	0
NC_030677.2	6051208	6052114	locus172.1	475.98 +	6051208	6052114	0,0,255	1	906	0
NC_030677.2	6060145	6061051	locus173.1	488.48 +	6060145	6061051	0,0,255	1	906	0
NC_030677.2	6088582	6089488	locus174.1	493.48 +	6088582	6089488	0,0,255	1	906	0
NC_030677.2	6097290	6098196	locus175.1	482.99 +	6097290	6098196	0,0,255	1	906	0
NC_030677.2	6112030	6112936	locus176.1	486.48 +	6112030	6112936	0,0,255	1	906	0
NC_030677.2	6141782	6142709	locus177.1	482.49 +	6141782	6142709	0,0,255	1	927	0
NC_030677.2	6165663	6166569	locus178.1	492.99 +	6165663	6166569	0,0,255	1	906	0
NC_030677.2	6213981	6214887	locus180.1	501.47 -	6213981	6214887	0,0,255	1	906	0
NC_030677.2	6267901	6268831	locus183.1	495.47 +	6267901	6268831	0,0,255	1	930	0
NC_030677.2	6317180	6318077	locus184.1	488.48 +	6317180	6318077	0,0,255	1	897	0
NC_030677.2	6353631	6354414	locus185.1	619.72 +	6353631	6354414	0,0,255	1	783	0
NC_030677.2	6418203	6418986	locus187.1	624.92 +	6418203	6418986	0,0,255	1	783	0
NC_030677.2	6474834	6475785	locus188.1	639.41 +	6474834	6475785	0,0,255	1	951	0
NC_030677.2	6570546	6571443	locus190.1	625.93 -	6570546	6571443	0,0,255	1	897	0
NC_030677.2	6643516	6644446	locus191.1	640.41 +	6643516	6644446	0,0,255	1	930	0

NC_030677.2	6678414	6679314	locus192.1	703.62	+	6678414	6679314	0,0,255	1	900	0
NC_030677.2	6689068	6690076	locus193.1	620.71	+	6689068	6690076	0,0,255	1	1008	0
NC_030677.2	6939211	6940171	locus194.1	622.92	+	6939211	6940171	0,0,255	1	960	0
NC_030677.2	6964861	6965659	locus195.1	619.43	+	6964861	6965659	0,0,255	1	798	0
NC_030677.2	6971533	6972514	locus196.1	605.44	-	6971533	6972514	0,0,255	1	981	0
NC_030677.2	6997627	6998608	locus197.1	595.95	-	6997627	6998608	0,0,255	1	981	0
NC_030677.2	7037919	7038813	locus198.1	619.93	-	7037919	7038813	0,0,255	1	894	0
NC_030677.2	7056246	7057143	locus199.1	614.43	-	7056246	7057143	0,0,255	1	897	0
NC_030677.2	7071603	7072500	locus200.1	625.43	-	7071603	7072500	0,0,255	1	897	0
NC_030677.2	7128878	7129802	locus202.1	511.97	+	7128878	7129802	0,0,255	1	924	0
NC_030677.2	7156126	7156924	locus203.1	612.97	+	7156126	7156924	0,0,255	1	798	0
NC_030677.2	7190191	7191067	locus204.1	638.41	+	7190191	7191067	0,0,255	1	876	0
NC_030677.2	7223913	7224789	locus205.1	638.41	+	7223913	7224789	0,0,255	1	876	0
NC_030677.2	7254821	7255697	locus206.1	635.41	+	7254821	7255697	0,0,255	1	876	0
NC_030677.2	7275315	7276191	locus207.1	633.91	+	7275315	7276191	0,0,255	1	876	0
NC_030677.2	7296340	7297216	locus208.1	631.92	+	7296340	7297216	0,0,255	1	876	0
NC_030677.2	7316177	7317053	locus209.1	633.42	+	7316177	7317053	0,0,255	1	876	0
NC_030677.2	7353454	7354330	locus210.1	629.92	+	7353454	7354330	0,0,255	1	876	0
NC_030677.2	7388298	7389174	locus211.1	636.41	+	7388298	7389174	0,0,255	1	876	0
NC_030677.2	7418154	7419027	locus212.1	635.43	+	7418154	7419027	0,0,255	1	873	0
NC_030677.2	7460584	7461460	locus213.1	622.44	+	7460584	7461460	0,0,255	1	876	0
NC_030677.2	7473810	7474686	locus214.1	642.41	+	7473810	7474686	0,0,255	1	876	0
NC_030677.2	7479293	7480172	locus215.1	625.92	-	7479293	7480172	0,0,255	1	879	0
NC_030677.2	7495573	7496512	locus216.1	602.93	-	7495573	7496512	0,0,255	1	939	0
NC_030677.2	7519463	7520402	locus217.1	613.43	-	7519463	7520402	0,0,255	1	939	0
NC_030677.2	7544993	7545929	locus218.1	609.93	-	7544993	7545929	0,0,255	1	936	0
NC_030677.2	7568816	7569755	locus219.1	607.93	-	7568816	7569755	0,0,255	1	939	0
NC_030677.2	7588599	7589538	locus221.1	606.94	-	7588599	7589538	0,0,255	1	939	0
NC_030677.2	7607166	7608105	locus222.1	608.43	-	7607166	7608105	0,0,255	1	939	0
NC_030677.2	7627433	7628327	locus224.1	610.93	-	7627433	7628327	0,0,255	1	894	0
NC_030677.2	7647375	7648272	locus225.1	642.91	-	7647375	7648272	0,0,255	1	897	0
NC_030677.2	7667698	7668511	locus226.1	641.45	-	7667698	7668511	0,0,255	1	813	0
NC_030677.2	7705636	7706512	locus227.1	630.92	+	7705636	7706512	0,0,255	1	876	0
NC_030677.2	7738892	7739768	locus228.1	605.93	-	7738892	7739768	0,0,255	1	876	0
NC_030677.2	7770787	7771657	locus229.1	629.92	-	7770787	7771657	0,0,255	1	870	0
NC_030677.2	7791627	7792506	locus230.1	623.43	-	7791627	7792506	0,0,255	1	879	0
NC_030677.2	7823648	7824527	locus231.1	622.93	-	7823648	7824527	0,0,255	1	879	0
NC_030677.2	7856914	7857793	locus232.1	625.93	-	7856914	7857793	0,0,255	1	879	0
NC_030677.2	7881908	7882787	locus233.1	624.94	-	7881908	7882787	0,0,255	1	879	0
NC_030677.2	7922676	7923555	locus234.1	626.93	-	7922676	7923555	0,0,255	1	879	0
NC_030677.2	8011457	8012351	locus236.1	621.93	+	8011457	8012351	0,0,255	1	894	0
NC_030677.2	8081627	8082506	locus237.1	623.93	+	8081627	8082506	0,0,255	1	879	0
NC_030677.2	8096116	8097049	locus238.1	635.42	-	8096116	8097049	0,0,255	1	933	0
NC_030677.2	8172828	8173722	locus239.1	615.93	+	8172828	8173722	0,0,255	1	894	0

NC_030677.2	8246276	8247110	locus240.1	622.42	+	8246276	8247110	0,0,255	1	834	0
NC_030677.2	8269738	8270632	locus241.1	618.93	+	8269738	8270632	0,0,255	1	894	0
NC_030677.2	8277431	8278162	locus242.1	220.99	-	8277431	8278162	0,0,255	3	#####	0,275,440
NC_030677.2	8289029	8289938	locus243.1	615.43	+	8289029	8289938	0,0,255	1	909	0
NC_030677.2	8291931	8292828	locus244.1	621.42	-	8291931	8292828	0,0,255	1	897	0
NC_030677.2	8335313	8336207	locus245.1	627.42	+	8335313	8336207	0,0,255	1	894	0
NC_030677.2	8367032	8368007	locus246.1	618.42	+	8367032	8368007	0,0,255	1	975	0
NC_030677.2	8400144	8401116	locus247.1	612.93	+	8400144	8401116	0,0,255	1	972	0
NC_030677.2	8422551	8423448	locus248.1	633.43	+	8422551	8423448	0,0,255	1	897	0
NC_030677.2	8426584	8427370	locus249.1	619.93	-	8426584	8427370	0,0,255	1	786	0
NC_030677.2	8445527	8446421	locus250.1	626.43	-	8445527	8446421	0,0,255	1	894	0
NC_030677.2	8466696	8467590	locus251.1	617.92	-	8466696	8467590	0,0,255	1	894	0
NC_030677.2	8505718	8506612	locus252.1	618.43	-	8505718	8506612	0,0,255	1	894	0
NC_030677.2	8547622	8548597	locus254.1	610.93	-	8547622	8548597	0,0,255	1	975	0
NC_030677.2	8574731	8575676	locus255.1	622.43	-	8574731	8575676	0,0,255	1	945	0
NC_030677.2	8595310	8596204	locus256.1	619.93	-	8595310	8596204	0,0,255	1	894	0
NC_030677.2	8614680	8615556	locus257.1	634.43	-	8614680	8615556	0,0,255	1	876	0
NC_030677.2	8677649	8678615	locus258.1	635.92	+	8677649	8678615	0,0,255	1	966	0
NC_030677.2	8683850	8684726	locus259.1	641.42	-	8683850	8684726	0,0,255	1	876	0
NC_030677.2	8697403	8698279	locus260.1	636.92	-	8697403	8698279	0,0,255	1	876	0
NC_030677.2	8740732	8741608	locus261.1	632.42	-	8740732	8741608	0,0,255	1	876	0
NC_030677.2	8776365	8777241	locus262.1	630.42	-	8776365	8777241	0,0,255	1	876	0
NC_030677.2	8809061	8810027	locus263.1	638.43	-	8809061	8810027	0,0,255	1	966	0
NC_030677.2	8882872	8883802	locus265.1	498.47	-	8882872	8883802	0,0,255	1	930	0
NC_030677.2	8923168	8924107	locus266.1	498.47	-	8923168	8924107	0,0,255	1	939	0
NC_030677.2	8974456	8975395	locus268.1	499.46	-	8974456	8975395	0,0,255	1	939	0
NC_030677.2	9039083	9039965	locus269.1	614.66	+	9039083	9039965	0,0,255	1	882	0
NC_030677.2	9087616	9088555	locus270.1	620.15	+	9087616	9088555	0,0,255	1	939	0
NC_030677.2	9143139	9144111	locus271.1	608.25	+	9143139	9144111	0,0,255	1	972	0
NC_030677.2	9174874	9175759	locus272.1	617.16	+	9174874	9175759	0,0,255	1	885	0
NC_030677.2	9200577	9201450	locus274.1	605.76	-	9200577	9201450	0,0,255	1	873	0
NC_030677.2	9239717	9240599	locus275.1	622.15	-	9239717	9240599	0,0,255	1	882	0
NC_030677.2	9285903	9286785	locus277.1	613.65	-	9285903	9286785	0,0,255	1	882	0
NC_030677.2	9327549	9328428	locus278.1	618.14	-	9327549	9328428	0,0,255	1	879	0
NC_030677.2	9348790	9349693	locus279.1	483.98	-	9348790	9349693	0,0,255	1	903	0
NC_030677.2	9387125	9388019	locus280.1	630.42	+	9387125	9388019	0,0,255	1	894	0
NC_030677.2	9410297	9411170	locus282.1	620.93	+	9410297	9411170	0,0,255	1	873	0
NC_030677.2	17430992	17431916	locus283.1	477	+	17430992	17431916	0,0,255	1	924	0
NC_030677.2	17478457	17479354	locus285.1	585.46	+	17478457	17479354	0,0,255	1	897	0
NC_030677.2	17496128	17497025	locus286.1	579.46	+	17496128	17497025	0,0,255	1	897	0
NC_030677.2	17524962	17525859	locus287.1	571.46	+	17524962	17525859	0,0,255	1	897	0
NC_030677.2	17546542	17547421	locus288.1	573.97	+	17546542	17547421	0,0,255	1	879	0
NC_030677.2	17573752	17574649	locus290.1	587.46	+	17573752	17574649	0,0,255	1	897	0
NC_030677.2	17598296	17599193	locus291.1	578.96	+	17598296	17599193	0,0,255	1	897	0

NC_030677.2	17616658	17617555	locus292.1	578.46	+	17616658	17617555	0,0,255	1	897	0
NC_030677.2	17641760	17642639	locus294.1	561.98	+	17641760	17642639	0,0,255	1	879	0
NC_030677.2	17669122	17670001	locus295.1	566.47	+	17669122	17670001	0,0,255	1	879	0
NC_030677.2	17689807	17690704	locus296.1	573.97	+	17689807	17690704	0,0,255	1	897	0
NC_030678.2	21334	27928	locus332.1	629.59	+	21334	27928	0,0,255	2	9,879	0,5715
NC_030678.2	178164867	1.78E+08	locus374.1	689.69	-	178164867	178165770	0,0,255	1	903	0
NC_030678.2	178209944	1.78E+08	locus375.1	689.69	-	178209944	178210847	0,0,255	1	903	0
NC_030678.2	178237350	1.78E+08	locus376.1	690.19	-	178237350	178238253	0,0,255	1	903	0
NC_030678.2	178311473	1.78E+08	locus377.1	683.2	-	178311473	178312376	0,0,255	1	903	0
NC_030678.2	178396223	1.78E+08	locus378.1	689.7	+	178396223	178397132	0,0,255	1	909	0
NC_030678.2	178416973	1.78E+08	locus379.1	685.24	-	178416973	178417876	0,0,255	1	903	0
NC_030678.2	178470580	1.78E+08	locus380.1	692.74	-	178470580	178471483	0,0,255	1	903	0
NC_030678.2	178501805	1.79E+08	locus381.1	684.74	-	178501805	178502708	0,0,255	1	903	0
NC_030678.2	178540754	1.79E+08	locus382.1	693.73	-	178540754	178541657	0,0,255	1	903	0
NC_030678.2	178573630	1.79E+08	locus383.1	692.23	-	178573630	178574533	0,0,255	1	903	0
NC_030678.2	178654064	1.79E+08	locus385.1	704.23	+	178654064	178654967	0,0,255	1	903	0
NC_030678.2	178665401	1.79E+08	locus386.1	695.73	-	178665401	178666304	0,0,255	1	903	0
NC_030678.2	178709921	1.79E+08	locus388.1	694.73	-	178709921	178710818	0,0,255	1	897	0
NC_030678.2	178733260	1.79E+08	locus389.1	685.74	-	178733260	178734157	0,0,255	1	897	0
NC_030679.2	145271855	1.45E+08	locus416.1	442.21	+	145271855	145272815	0,0,255	1	960	0
NC_030679.2	145283085	1.45E+08	locus417.1	436.71	+	145283085	145284045	0,0,255	1	960	0
NC_030679.2	145622605	1.46E+08	locus418.1	717.92	+	145622605	145623526	0,0,255	1	921	0
NC_030679.2	145630946	1.46E+08	locus419.1	717.92	+	145630946	145631867	0,0,255	1	921	0
NC_030679.2	145647365	1.46E+08	locus420.1	622.89	+	145647365	145648214	0,0,255	1	849	0
NC_030679.2	145712850	1.46E+08	locus421.1	708.35	+	145712850	145713801	0,0,255	1	951	0
NC_030679.2	145728373	1.46E+08	locus422.1	558.76	+	145728373	145729291	0,0,255	1	918	0
NC_030679.2	145741602	1.46E+08	locus423.1	593.17	+	145741602	145742487	0,0,255	1	885	0
NC_030679.2	145755902	1.46E+08	locus424.1	718.6	+	145755902	145756820	0,0,255	1	918	0
NC_030679.2	145770103	1.46E+08	locus425.1	705.18	+	145770103	145771000	0,0,255	1	897	0
NC_030679.2	145809884	1.46E+08	locus426.1	519.79	+	145809884	145810895	0,0,255	1	1011	0
NC_030679.2	145823381	1.46E+08	locus427.1	508.43	+	145823381	145824350	0,0,255	1	969	0
NC_030679.2	145840075	1.46E+08	locus428.1	650.23	+	145840075	145840975	0,0,255	1	900	0
NC_030679.2	145857765	1.46E+08	locus429.1	681.21	+	145857765	145858644	0,0,255	1	879	0
NC_030679.2	145888657	1.46E+08	locus431.1	696.71	+	145888657	145889536	0,0,255	1	879	0
NC_030679.2	145898777	1.46E+08	locus432.1	686.71	+	145898777	145899656	0,0,255	1	879	0
NC_030679.2	145909288	1.46E+08	locus433.1	681.73	+	145909288	145910284	0,0,255	1	996	0
NC_030679.2	145930741	1.46E+08	locus434.1	664.22	+	145930741	145931611	0,0,255	1	870	0
NC_030679.2	145942731	1.46E+08	locus435.1	720.69	+	145942731	145943595	0,0,255	1	864	0
NC_030679.2	145958197	1.46E+08	locus436.1	684.22	+	145958197	145959070	0,0,255	1	873	0
NC_030679.2	145975594	1.46E+08	locus437.1	675.22	+	145975594	145976467	0,0,255	1	873	0
NC_030679.2	145994586	1.46E+08	locus438.1	675.73	+	145994586	145995459	0,0,255	1	873	0
NC_030679.2	146006472	1.46E+08	locus439.1	675.73	+	146006472	146007351	0,0,255	1	879	0
NC_030679.2	146020705	1.46E+08	locus441.1	676.72	+	146020705	146021584	0,0,255	1	879	0
NC_030679.2	146032668	1.46E+08	locus442.1	657.23	+	146032668	146033547	0,0,255	1	879	0

NC_030679.2	146046333	1.46E+08	locus443.1	645.73	+	146046333	146047218	0,0,255	1	885	0
NC_030679.2	146059583	1.46E+08	locus444.1	650.72	+	146059583	146060462	0,0,255	1	879	0
NC_030679.2	146075269	1.46E+08	locus445.1	592.62	+	146075269	146076166	0,0,255	1	897	0
NC_030679.2	146087607	1.46E+08	locus446.1	608.36	+	146087607	146088495	0,0,255	1	888	0
NC_030679.2	146096117	1.46E+08	locus447.1	625.61	+	146096117	146097017	0,0,255	1	900	0
NC_030679.2	146109752	1.46E+08	locus448.1	606.1	+	146109752	146110679	0,0,255	1	927	0
NC_030679.2	146119495	1.46E+08	locus449.1	610.62	+	146119495	146120413	0,0,255	1	918	0
NC_030679.2	146130416	1.46E+08	locus451.1	595.88	+	146130416	146131316	0,0,255	1	900	0
NC_030679.2	146141168	1.46E+08	locus452.1	657.35	+	146141168	146142068	0,0,255	1	900	0
NC_030679.2	146153466	1.46E+08	locus453.1	623.6	+	146153466	146154420	0,0,255	1	954	0
NC_030679.2	146166997	1.46E+08	locus454.1	625.37	+	146166997	146167777	0,0,255	1	780	0
NC_030679.2	146180285	1.46E+08	locus455.1	621.11	+	146180285	146181182	0,0,255	1	897	0
NC_030679.2	146190904	1.46E+08	locus456.1	606.87	+	146190904	146191804	0,0,255	1	900	0
NC_030679.2	146205635	1.46E+08	locus457.1	587.39	+	146205635	146206415	0,0,255	1	780	0
NC_030679.2	146210829	1.46E+08	locus458.1	620.11	-	146210829	146211807	0,0,255	1	978	0
NC_030679.2	146231789	1.46E+08	locus459.1	598.12	+	146231789	146232698	0,0,255	1	909	0
NC_030679.2	146241341	1.46E+08	locus460.1	602.61	+	146241341	146242241	0,0,255	1	900	0
NC_030679.2	146390737	1.46E+08	locus463.1	606.37	-	146390737	146391640	0,0,255	1	903	0
NC_030679.2	146415510	1.46E+08	locus464.1	616.85	-	146415510	146416416	0,0,255	1	906	0
NC_030679.2	146427112	1.46E+08	locus465.1	661.84	-	146427112	146428009	0,0,255	1	897	0
NC_030679.2	146436266	1.46E+08	locus466.1	729.31	-	146436266	146437106	0,0,255	1	840	0
NC_030679.2	146445846	1.46E+08	locus467.1	616.36	-	146445846	146446746	0,0,255	1	900	0
NC_030679.2	146457394	1.46E+08	locus468.1	611.12	-	146457394	146458294	0,0,255	1	900	0
NC_030679.2	146483646	1.46E+08	locus469.1	610.38	+	146483646	146484546	0,0,255	1	900	0
NC_030679.2	146495074	1.46E+08	locus470.1	628.6	+	146495074	146495974	0,0,255	1	900	0
NC_030679.2	146508942	1.47E+08	locus471.1	621.61	+	146508942	146509842	0,0,255	1	900	0
NC_030679.2	146521524	1.47E+08	locus472.1	623.61	+	146521524	146522445	0,0,255	1	921	0
NC_030679.2	146541550	1.47E+08	locus473.1	617.86	+	146541550	146542390	0,0,255	1	840	0
NC_030679.2	146555963	1.47E+08	locus474.1	619.12	+	146555963	146556863	0,0,255	1	900	0
NC_030679.2	146568197	1.47E+08	locus475.1	625.85	+	146568197	146569085	0,0,255	1	888	0
NC_030679.2	146573705	1.47E+08	locus476.1	620.35	-	146573705	146574575	0,0,255	1	870	0
NC_030679.2	146585402	1.47E+08	locus477.1	629.61	-	146585402	146586296	0,0,255	1	894	0
NC_030679.2	146598469	1.47E+08	locus478.1	628.86	-	146598469	146599357	0,0,255	1	888	0
NC_030679.2	146617463	1.47E+08	locus479.1	612.36	+	146617463	146618336	0,0,255	1	873	0
NC_030679.2	146626905	1.47E+08	locus480.1	591.26	+	146626905	146627682	0,0,255	1	777	0
NC_030679.2	146637775	1.47E+08	locus481.1	618.62	+	146637775	146638669	0,0,255	1	894	0
NC_030679.2	146650644	1.47E+08	locus482.1	621.85	+	146650644	146651409	0,0,255	1	765	0
NC_030679.2	146656544	1.47E+08	locus483.1	622.12	+	146656544	146657435	0,0,255	1	891	0
NC_030679.2	146668798	1.47E+08	locus484.1	627.11	+	146668798	146669704	0,0,255	1	906	0
NC_030679.2	146677964	1.47E+08	locus485.1	609.12	+	146677964	146678864	0,0,255	1	900	0
NC_030679.2	146686602	1.47E+08	locus486.1	610.61	+	146686602	146687502	0,0,255	1	900	0
NC_030679.2	146698121	1.47E+08	locus487.1	621.61	+	146698121	146699021	0,0,255	1	900	0
NC_030679.2	146709546	1.47E+08	locus488.1	610.11	+	146709546	146710440	0,0,255	1	894	0
NC_030679.2	146722272	1.47E+08	locus489.1	622.86	+	146722272	146723196	0,0,255	1	924	0

NC_030679.2	146727993	1.47E+08	locus490.1	702	-	146727993	146728956	0,0,255	1	963	0
NC_030679.2	146746937	1.47E+08	locus491.1	610.62	+	146746937	146747837	0,0,255	1	900	0
NC_030679.2	146752351	1.47E+08	locus492.1	724.56	-	146752351	146753251	0,0,255	1	900	0
NC_030679.2	146761250	1.47E+08	locus493.1	612.62	-	146761250	146762237	0,0,255	1	987	0
NC_030679.2	146772261	1.47E+08	locus494.1	628.85	-	146772261	146773161	0,0,255	1	900	0
NC_030679.2	146791494	1.47E+08	locus496.1	621.61	-	146791494	146792394	0,0,255	1	900	0
NC_030679.2	146812154	1.47E+08	locus497.1	715.04	+	146812154	146812946	0,0,255	1	792	0
NC_030679.2	146824901	1.47E+08	locus498.1	721.91	+	146824901	146825834	0,0,255	1	933	0
NC_030679.2	146847230	1.47E+08	locus499.1	398.13	+	146847230	146848133	0,0,255	1	903	0
NC_030680.2	24522	25397	locus502.1	632.86	+	24522	25397	0,0,255	2	30,834	0,41
NC_030680.2	24688609	24689527	locus505.1	409.89	+	24688609	24689527	0,0,255	1	918	0
NC_030680.2	24711758	24712661	locus506.1	394.9	+	24711758	24712661	0,0,255	1	903	0
NC_030680.2	24741300	24742218	locus507.1	399.9	+	24741300	24742218	0,0,255	1	918	0
NC_030680.2	24791734	24792631	locus508.1	396.4	+	24791734	24792631	0,0,255	1	897	0
NC_030680.2	128529424	1.29E+08	locus531.1	697.86	-	128529424	128530360	0,0,255	1	936	0
NC_030680.2	152998213	1.53E+08	locus536.1	633.33	+	152998213	153006860	0,0,255	3	26,14,896	0,6824,7751
NC_030681.2	116456528	1.16E+08	locus568.1	697.58	-	116456528	116457512	0,0,255	1	984	0
NC_030681.2	116482565	1.16E+08	locus569.1	695.8	-	116482565	116483405	0,0,255	1	840	0
NC_030681.2	154715071	1.55E+08	locus578.1	413.96	-	154715071	154715854	0,0,255	1	783	0
NC_030681.2	154750009	1.55E+08	locus580.1	415.47	-	154750009	154750792	0,0,255	1	783	0
NC_030681.2	154764974	1.55E+08	locus581.1	419.46	-	154764974	154765931	0,0,255	1	957	0
NC_030681.2	154780095	1.55E+08	locus582.1	418.96	-	154780095	154781025	0,0,255	1	930	0
NC_030681.2	154800559	1.55E+08	locus583.1	419.47	-	154800559	154801342	0,0,255	1	783	0
NC_030681.2	154841651	1.55E+08	locus584.1	412.48	-	154841651	154842563	0,0,255	1	912	0
NC_030681.2	154860552	1.55E+08	locus585.1	411.48	-	154860552	154861518	0,0,255	1	966	0
NC_030681.2	154877224	1.55E+08	locus586.1	410.49	-	154877224	154878022	0,0,255	1	798	0
NC_030681.2	154899877	1.55E+08	locus587.1	421.97	-	154899877	154900789	0,0,255	1	912	0
NC_030681.2	154924047	1.55E+08	locus588.1	424.46	-	154924047	154924851	0,0,255	1	804	0
NC_030681.2	154955745	1.55E+08	locus589.1	414.38	-	154955745	154956606	0,0,255	1	861	0
NC_030681.2	154980120	1.55E+08	locus590.1	382.77	-	154980120	154980893	0,0,255	2	742,14	0,759
NC_030681.2	155007217	1.55E+08	locus591.1	423.46	-	155007217	155008129	0,0,255	1	912	0
NC_030681.2	155038792	1.55E+08	locus592.1	420.4	-	155038792	155039734	0,0,255	1	942	0
NC_030681.2	155055448	1.55E+08	locus593.1	423.46	-	155055448	155056252	0,0,255	1	804	0
NC_030681.2	155078235	1.55E+08	locus594.1	414.35	-	155078235	155079186	0,0,255	1	951	0
NC_030681.2	155188260	1.55E+08	locus596.1	414.47	-	155188260	155189190	0,0,255	1	930	0
NC_030681.2	155220413	1.55E+08	locus597.1	429.96	-	155220413	155221343	0,0,255	1	930	0
NC_030681.2	155249835	1.55E+08	locus598.1	421.97	-	155249835	155250750	0,0,255	1	915	0
NC_030681.2	155268003	1.55E+08	locus599.1	423.47	-	155268003	155268810	0,0,255	1	807	0
NC_030681.2	155288745	1.55E+08	locus600.1	416.97	-	155288745	155289675	0,0,255	1	930	0
NC_030681.2	155309287	1.55E+08	locus601.1	432.45	-	155309287	155310217	0,0,255	1	930	0
NC_030681.2	155324442	1.55E+08	locus602.1	423.97	-	155324442	155325249	0,0,255	1	807	0
NC_030681.2	155340816	1.55E+08	locus603.1	411.47	-	155340816	155341746	0,0,255	1	930	0
NC_030681.2	155361948	1.55E+08	locus604.1	414.47	-	155361948	155362878	0,0,255	1	930	0
NC_030681.2	155383950	1.55E+08	locus605.1	409.47	-	155383950	155384880	0,0,255	1	930	0

NC_030681.2	155399948	1.55E+08	locus606.1	409.88	-	155399948	155400878	0,0,255	1	930	0
NC_030681.2	155417584	1.55E+08	locus607.1	423.96	-	155417584	155418514	0,0,255	1	930	0
NC_030681.2	155441606	1.55E+08	locus608.1	420.47	-	155441606	155442536	0,0,255	1	930	0
NC_030681.2	155462515	1.55E+08	locus609.1	420.46	-	155462515	155463445	0,0,255	1	930	0
NC_030681.2	155517971	1.56E+08	locus611.1	403.48	+	155517971	155518874	0,0,255	1	903	0
NC_030681.2	155536170	1.56E+08	locus612.1	416.97	+	155536170	155537091	0,0,255	1	921	0
NC_030681.2	155548209	1.56E+08	locus613.1	402.88	+	155548209	155549094	0,0,255	1	885	0
NC_030681.2	155554970	1.56E+08	locus614.1	419.48	-	155554970	155555885	0,0,255	1	915	0
NC_030681.2	155571529	1.56E+08	locus615.1	406.98	-	155571529	155572393	0,0,255	1	864	0
NC_030681.2	155588287	1.56E+08	locus616.1	412.97	-	155588287	155589148	0,0,255	1	861	0
NC_030681.2	155623117	1.56E+08	locus618.1	414.46	-	155623117	155623978	0,0,255	1	861	0
NC_030681.2	155673182	1.56E+08	locus619.1	413.97	+	155673182	155674079	0,0,255	1	897	0
NC_030681.2	155683846	1.56E+08	locus620.1	422.37	-	155683846	155684713	0,0,255	1	867	0
NC_030681.2	155706852	1.56E+08	locus621.1	425.97	-	155706852	155707782	0,0,255	1	930	0
NC_030681.2	155733012	1.56E+08	locus622.1	419.98	-	155733012	155733927	0,0,255	1	915	0
NC_030681.2	155750174	1.56E+08	locus623.1	431.46	-	155750174	155751038	0,0,255	1	864	0
NC_030681.2	155772749	1.56E+08	locus624.1	418.47	-	155772749	155773607	0,0,255	1	858	0
NC_030681.2	155795189	1.56E+08	locus625.1	398.49	-	155795189	155796053	0,0,255	1	864	0
NC_030681.2	155806344	1.56E+08	locus626.1	423.47	-	155806344	155807256	0,0,255	1	912	0
NC_030681.2	155863270	1.56E+08	locus627.1	419.98	-	155863270	155864182	0,0,255	1	912	0
NC_030681.2	155893139	1.56E+08	locus628.1	428.97	-	155893139	155894000	0,0,255	1	861	0
NC_030681.2	155916395	1.56E+08	locus629.1	429.98	-	155916395	155917301	0,0,255	1	906	0
NC_030681.2	155934595	1.56E+08	locus630.1	405	-	155934595	155935510	0,0,255	1	915	0
NC_030681.2	155961910	1.56E+08	locus631.1	422.48	+	155961910	155962816	0,0,255	1	906	0
NC_030681.2	155982143	1.56E+08	locus632.1	424.98	+	155982143	155983055	0,0,255	1	912	0
NC_030681.2	156021443	1.56E+08	locus634.1	376.01	+	156021443	156022363	0,0,255	2	555,354	0,566
NC_030681.2	156049531	1.56E+08	locus635.1	416.48	+	156049531	156050419	0,0,255	1	888	0
NC_030681.2	156069827	1.56E+08	locus636.1	405.38	+	156069827	156070715	0,0,255	1	888	0
NC_030681.2	156084413	1.56E+08	locus637.1	424.35	+	156084413	156085334	0,0,255	1	921	0
NC_030681.2	156100820	1.56E+08	locus638.1	418.36	+	156100820	156101708	0,0,255	1	888	0
NC_030681.2	156139821	1.56E+08	locus639.1	409.98	+	156139821	156140715	0,0,255	1	894	0
NC_030681.2	156148158	1.56E+08	locus640.1	407.98	-	156148158	156149040	0,0,255	1	882	0
NC_030681.2	156207645	1.56E+08	locus641.1	412.48	+	156207645	156208530	0,0,255	1	885	0
NC_030681.2	156221196	1.56E+08	locus642.1	419.65	+	156221196	156222090	0,0,255	1	894	0
NC_030681.2	156238562	1.56E+08	locus643.1	396.74	+	156238562	156239411	0,0,255	1	849	0
NC_030681.2	156261594	1.56E+08	locus644.1	410.38	+	156261594	156262482	0,0,255	1	888	0
NC_030681.2	156282376	1.56E+08	locus645.1	402.98	+	156282376	156283264	0,0,255	1	888	0
NC_030681.2	156291784	1.56E+08	locus646.1	419.97	+	156291784	156292669	0,0,255	1	885	0
NC_030681.2	156311492	1.56E+08	locus647.1	413.47	+	156311492	156312377	0,0,255	1	885	0
NC_030681.2	156343383	1.56E+08	locus648.1	413.84	+	156343383	156344268	0,0,255	1	885	0
NC_030681.2	156374263	1.56E+08	locus649.1	412.48	+	156374263	156375148	0,0,255	1	885	0
NC_030681.2	156390154	1.56E+08	locus650.1	416.96	+	156390154	156391039	0,0,255	1	885	0
NC_030681.2	156449612	1.56E+08	locus651.1	409.98	+	156449612	156450494	0,0,255	1	882	0
NC_030681.2	156493612	1.56E+08	locus653.1	410.48	+	156493612	156494497	0,0,255	1	885	0

NC_030681.2	156531038	1.57E+08	locus654.1	415.97 +	156531038	156532187	0,0,255	1	1149	0
NC_030681.2	156565268	1.57E+08	locus655.1	412.35 +	156565268	156566150	0,0,255	1	882	0
NC_030681.2	156583720	1.57E+08	locus656.1	403.97 -	156583720	156584605	0,0,255	1	885	0
NC_030681.2	156612842	1.57E+08	locus657.1	405.47 -	156612842	156613727	0,0,255	1	885	0
NC_030681.2	156668846	1.57E+08	locus658.1	410.97 -	156668846	156669848	0,0,255	1	1002	0
NC_030681.2	156684798	1.57E+08	locus659.1	404.07 -	156684798	156685683	0,0,255	1	885	0
NC_030681.2	156715443	1.57E+08	locus660.1	403.48 -	156715443	156716262	0,0,255	1	819	0
NC_030681.2	156729671	1.57E+08	locus661.1	406.48 -	156729671	156730553	0,0,255	1	882	0
NC_030681.2	156744834	1.57E+08	locus662.1	420.97 -	156744834	156745722	0,0,255	1	888	0
NC_030681.2	156820331	1.57E+08	locus663.1	406.98 +	156820331	156821216	0,0,255	1	885	0
NC_030681.2	156840266	1.57E+08	locus664.1	406.47 -	156840266	156841151	0,0,255	1	885	0
NC_030681.2	156898140	1.57E+08	locus665.1	399.48 -	156898140	156899025	0,0,255	1	885	0
NC_030681.2	156926649	1.57E+08	locus666.1	399.98 -	156926649	156927534	0,0,255	1	885	0
NC_030681.2	156941228	1.57E+08	locus667.1	413.98 -	156941228	156942113	0,0,255	1	885	0
NC_030681.2	156972041	1.57E+08	locus668.1	410.48 -	156972041	156972926	0,0,255	1	885	0
NC_030681.2	157014199	1.57E+08	locus669.1	402.16 -	157014199	157015084	0,0,255	1	885	0
NC_030681.2	157046627	1.57E+08	locus670.1	418.46 -	157046627	157047521	0,0,255	1	894	0
NC_030681.2	157095759	1.57E+08	locus671.1	403.98 -	157095759	157096641	0,0,255	1	882	0
NC_030681.2	157140496	1.57E+08	locus672.1	412.97 -	157140496	157141378	0,0,255	1	882	0
NC_030681.2	157188927	1.57E+08	locus673.1	408.84 -	157188927	157189812	0,0,255	1	885	0
NC_030681.2	157214151	1.57E+08	locus674.1	412.48 -	157214151	157215111	0,0,255	1	960	0
NC_030681.2	157234518	1.57E+08	locus675.1	407.98 -	157234518	157235403	0,0,255	1	885	0
NC_030681.2	157256298	1.57E+08	locus676.1	413.64 -	157256298	157257183	0,0,255	1	885	0
NC_030681.2	157272283	1.57E+08	locus677.1	406.48 -	157272283	157273165	0,0,255	1	882	0
NC_030681.2	157305469	1.57E+08	locus678.1	413.47 -	157305469	157306354	0,0,255	1	885	0
NC_030681.2	157333314	1.57E+08	locus679.1	421.47 -	157333314	157334196	0,0,255	1	882	0
NC_030681.2	157369443	1.57E+08	locus680.1	413.47 -	157369443	157370328	0,0,255	1	885	0
NC_030681.2	157397213	1.57E+08	locus681.1	371.42 -	157397213	157398088	0,0,255	2	674,190	0,685
NC_030681.2	157467229	1.57E+08	locus682.1	403.49 -	157467229	157468117	0,0,255	1	888	0
NC_030681.2	157492880	1.57E+08	locus683.1	411.36 -	157492880	157493744	0,0,255	1	864	0
NC_030681.2	157507457	1.58E+08	locus684.1	417.48 -	157507457	157508351	0,0,255	1	894	0
NC_030681.2	157526766	1.58E+08	locus685.1	413.47 -	157526766	157527657	0,0,255	1	891	0
NC_030681.2	157564389	1.58E+08	locus686.1	410.48 +	157564389	157565271	0,0,255	1	882	0
NC_030681.2	157601956	1.58E+08	locus687.1	418.97 +	157601956	157602841	0,0,255	1	885	0
NC_030681.2	157611434	1.58E+08	locus688.1	408.98 -	157611434	157612322	0,0,255	1	888	0
NC_030681.2	157650119	1.58E+08	locus689.1	415.86 -	157650119	157651007	0,0,255	1	888	0
NC_030681.2	157664628	1.58E+08	locus690.1	423.35 -	157664628	157665549	0,0,255	1	921	0
NC_030681.2	157678611	1.58E+08	locus691.1	406.17 -	157678611	157679604	0,0,255	1	993	0
NC_030681.2	157699836	1.58E+08	locus692.1	416.98 -	157699836	157700724	0,0,255	1	888	0
NC_030681.2	157785646	1.58E+08	locus695.1	422.48 -	157785646	157786558	0,0,255	1	912	0
NC_030681.2	157805793	1.58E+08	locus696.1	422.98 -	157805793	157806699	0,0,255	1	906	0
NC_030681.2	157833133	1.58E+08	locus697.1	406 +	157833133	157833997	0,0,255	1	864	0
NC_030681.2	157905071	1.58E+08	locus698.1	419.98 +	157905071	157905983	0,0,255	1	912	0
NC_030681.2	157970739	1.58E+08	locus699.1	407.49 +	157970739	157971603	0,0,255	1	864	0

NC_030681.2	157993126	1.58E+08	locus700.1	421.47 +	157993126	157993984	0,0,255	1	858	0
NC_030681.2	158015775	1.58E+08	locus701.1	431.46 +	158015775	158016639	0,0,255	1	864	0
NC_030681.2	158032917	1.58E+08	locus702.1	419.98 +	158032917	158033832	0,0,255	1	915	0
NC_030681.2	158054736	1.58E+08	locus703.1	427.97 +	158054736	158055666	0,0,255	1	930	0
NC_030681.2	158077522	1.58E+08	locus704.1	421.38 +	158077522	158078389	0,0,255	1	867	0
NC_030681.2	158087565	1.58E+08	locus705.1	413.97 -	158087565	158088462	0,0,255	1	897	0
NC_030681.2	158138791	1.58E+08	locus706.1	415.47 +	158138791	158139652	0,0,255	1	861	0
NC_030681.2	158174060	1.58E+08	locus708.1	414.47 +	158174060	158174921	0,0,255	1	861	0
NC_030681.2	158194035	1.58E+08	locus709.1	406.48 +	158194035	158194899	0,0,255	1	864	0
NC_030681.2	158208129	1.58E+08	locus710.1	421.97 +	158208129	158209044	0,0,255	1	915	0
NC_030681.2	158220481	1.58E+08	locus711.1	401.88 -	158220481	158221366	0,0,255	1	885	0
NC_030681.2	158232497	1.58E+08	locus712.1	414.97 -	158232497	158233418	0,0,255	1	921	0
NC_030681.2	158251920	1.58E+08	locus713.1	401.85 -	158251920	158252805	0,0,255	1	885	0
NC_030681.2	158263521	1.58E+08	locus714.1	415.96 -	158263521	158264439	0,0,255	1	918	0
NC_030681.2	158301563	1.58E+08	locus715.1	425.47 +	158301563	158302493	0,0,255	1	930	0
NC_030681.2	158322953	1.58E+08	locus716.1	417.97 +	158322953	158323883	0,0,255	1	930	0
NC_030681.2	158346689	1.58E+08	locus717.1	423.96 +	158346689	158347619	0,0,255	1	930	0
NC_030681.2	158364958	1.58E+08	locus718.1	410.48 +	158364958	158365888	0,0,255	1	930	0
NC_030681.2	158402803	1.58E+08	locus720.1	415.98 +	158402803	158403733	0,0,255	1	930	0
NC_030681.2	158421225	1.58E+08	locus721.1	416.47 +	158421225	158422155	0,0,255	1	930	0
NC_030681.2	158437203	1.58E+08	locus722.1	422.48 +	158437203	158438133	0,0,255	1	930	0
NC_030681.2	158452420	1.58E+08	locus723.1	430.45 +	158452420	158453350	0,0,255	1	930	0
NC_030681.2	158487897	1.58E+08	locus725.1	424.96 +	158487897	158488704	0,0,255	1	807	0
NC_030681.2	158507316	1.59E+08	locus726.1	423.97 +	158507316	158508231	0,0,255	1	915	0
NC_030681.2	158534968	1.59E+08	locus727.1	429.96 +	158534968	158535898	0,0,255	1	930	0
NC_030681.2	158607532	1.59E+08	locus728.1	425.47 +	158607532	158608462	0,0,255	1	930	0
NC_030681.2	158640124	1.59E+08	locus729.1	424.47 +	158640124	158640952	0,0,255	1	828	0
NC_030681.2	158695737	1.59E+08	locus730.1	349.89 +	158695737	158696547	0,0,255	1	810	0
NC_030681.2	158757522	1.59E+08	locus731.1	405.98 +	158757522	158758488	0,0,255	1	966	0
NC_030681.2	158773404	1.59E+08	locus732.1	416.98 +	158773404	158774259	0,0,255	1	855	0
NC_030681.2	158823975	1.59E+08	locus734.1	418.96 +	158823975	158824905	0,0,255	1	930	0
NC_030681.2	158838710	1.59E+08	locus735.1	422.96 +	158838710	158839667	0,0,255	1	957	0
NC_030681.2	158852936	1.59E+08	locus736.1	422.46 +	158852936	158853719	0,0,255	1	783	0
NC_030681.2	158859137	1.59E+08	locus737.1	415.46 -	158859137	158860085	0,0,255	1	948	0
NC_030681.2	158885939	1.59E+08	locus738.1	419.96 -	158885939	158886824	0,0,255	1	885	0
NC_030681.2	158939322	1.59E+08	locus739.1	416.46 +	158939322	158940219	0,0,255	1	897	0
NC_030681.2	158972669	1.59E+08	locus741.1	413.96 +	158972669	158973716	0,0,255	1	1047	0
NC_030681.2	159234119	1.59E+08	locus742.1	410.47 -	159234119	159235007	0,0,255	1	888	0
NC_030681.2	159253212	1.59E+08	locus743.1	412.66 -	159253212	159254094	0,0,255	1	882	0
NC_030681.2	159274453	1.59E+08	locus744.1	411.47 -	159274453	159275335	0,0,255	1	882	0
NC_030681.2	159290872	1.59E+08	locus745.1	411.9 -	159290872	159291884	0,0,255	2	875,7	0,1005
NC_030681.2	159357840	1.59E+08	locus746.1	419.47 +	159357840	159358722	0,0,255	1	882	0
NC_030681.2	159372800	1.59E+08	locus747.1	413.47 +	159372800	159373682	0,0,255	1	882	0
NC_030681.2	159391780	1.59E+08	locus748.1	411.98 +	159391780	159392662	0,0,255	1	882	0

NC_030681.2	159410028	1.59E+08	locus749.1	411.66	+	159410028	159410910	0,0,255	1	882	0
NC_030681.2	159423069	1.59E+08	locus750.1	403.98	+	159423069	159423888	0,0,255	1	819	0
NC_030681.2	159441586	1.59E+08	locus751.1	401.42	+	159441586	159442465	0,0,255	1	879	0
NC_030681.2	159458246	1.59E+08	locus752.1	410.97	+	159458246	159459128	0,0,255	1	882	0
NC_030681.2	159476719	1.59E+08	locus753.1	409.47	+	159476719	159477607	0,0,255	1	888	0
NC_030681.2	160299084	1.6E+08	locus754.1	398.48	+	160299084	160299957	0,0,255	1	873	0
NC_030681.2	160339058	1.6E+08	locus755.1	400.97	+	160339058	160339976	0,0,255	1	918	0
NC_030681.2	160350807	1.6E+08	locus756.1	415.98	-	160350807	160351680	0,0,255	1	873	0
NC_030681.2	160389885	1.6E+08	locus757.1	394.48	+	160389885	160390758	0,0,255	1	873	0
NC_030681.2	160421331	1.6E+08	locus758.1	409.47	+	160421331	160422204	0,0,255	1	873	0
NC_030681.2	160430947	1.6E+08	locus759.1	398.48	+	160430947	160431820	0,0,255	1	873	0
NC_030681.2	160447076	1.6E+08	locus760.1	402.47	+	160447076	160447949	0,0,255	1	873	0
NC_030681.2	160463911	1.6E+08	locus761.1	402.47	+	160463911	160464784	0,0,255	1	873	0
NC_030681.2	160479263	1.6E+08	locus762.1	402.47	+	160479263	160480136	0,0,255	1	873	0
NC_030681.2	160497053	1.6E+08	locus763.1	407.48	+	160497053	160497974	0,0,255	1	921	0
NC_030681.2	160533515	1.61E+08	locus764.1	403.97	+	160533515	160534457	0,0,255	1	942	0
NC_030681.2	160556685	1.61E+08	locus765.1	401.97	+	160556685	160557558	0,0,255	1	873	0
NC_030681.2	160566538	1.61E+08	locus766.1	402.47	-	160566538	160567411	0,0,255	1	873	0
NC_030681.2	160595058	1.61E+08	locus767.1	401.47	-	160595058	160596000	0,0,255	1	942	0
NC_030681.2	160633412	1.61E+08	locus768.1	404.97	-	160633412	160634285	0,0,255	1	873	0
NC_030681.2	160654222	1.61E+08	locus769.1	399.48	-	160654222	160655095	0,0,255	1	873	0
NC_030681.2	160685334	1.61E+08	locus770.1	401.46	-	160685334	160686207	0,0,255	1	873	0
NC_030681.2	160714142	1.61E+08	locus771.1	400.98	-	160714142	160715084	0,0,255	1	942	0
NC_030681.2	160754668	1.61E+08	locus772.1	403.97	-	160754668	160755610	0,0,255	1	942	0
NC_030681.2	160785237	1.61E+08	locus773.1	400.97	-	160785237	160786110	0,0,255	1	873	0
NC_030681.2	160800059	1.61E+08	locus774.1	400.98	-	160800059	160800932	0,0,255	1	873	0
NC_030681.2	160881173	1.61E+08	locus776.1	400.97	+	160881173	160882115	0,0,255	1	942	0
NC_030681.2	160934621	1.61E+08	locus778.1	399.48	+	160934621	160935494	0,0,255	1	873	0
NC_030681.2	160970410	1.61E+08	locus779.1	393.98	+	160970410	160971283	0,0,255	1	873	0
NC_030681.2	160997296	1.61E+08	locus780.1	398.47	+	160997296	160998169	0,0,255	1	873	0
NC_030681.2	161951424	1.62E+08	locus781.1	467.36	-	161951424	161952333	0,0,255	1	909	0
NC_030681.2	162768620	1.63E+08	locus782.1	710.9	-	162768620	162769517	0,0,255	1	897	0
NC_030681.2	162797056	1.63E+08	locus783.1	705.9	-	162797056	162797902	0,0,255	1	846	0
NC_030681.2	162852634	1.63E+08	locus785.1	709.4	+	162852634	162853480	0,0,255	1	846	0
NC_030681.2	163387067	1.63E+08	locus786.1	406.41	-	163387067	163387985	0,0,255	1	918	0
NC_030681.2	163806574	1.64E+08	locus787.1	613.69	-	163806574	163820415	0,0,255	3	91,827,9	0,232,13832
NC_030682.2	133471	134397	locus788.1	612.39	+	133471	134397	0,0,255	2	30,885	0,41
NC_030683.2	102962369	1.03E+08	locus847.1	574.59	+	102962369	102963374	0,0,255	2	692,259	0,746
NC_030683.2	103145211	1.03E+08	locus848.1	571.99	-	103145211	103146132	0,0,255	1	921	0
NC_030683.2	103161507	1.03E+08	locus849.1	569.92	-	103161507	103162431	0,0,255	2	250,620	0,304
NC_030683.2	103178607	1.03E+08	locus850.1	694.41	-	103178607	103179531	0,0,255	1	924	0
NC_030683.2	103205220	1.03E+08	locus852.1	559.11	-	103205220	103206099	0,0,255	2	241,584	0,295
NC_030683.2	103234456	1.03E+08	locus853.1	580.91	-	103234456	103235323	0,0,255	2	247,566	0,301
NC_030683.2	103239411	1.03E+08	locus854.1	561.61	-	103239411	103240359	0,0,255	2	247,647	0,301

NC_030683.2	103252046	1.03E+08	locus855.1	569.92	-	103252046	103252931	0,0,255	2	247,584	0,301
NC_030683.2	103264154	1.03E+08	locus856.1	572.09	-	103264154	103265039	0,0,255	2	247,584	0,301
NC_030683.2	103274702	1.03E+08	locus857.1	649.88	-	103274702	103275575	0,0,255	2	253,566	0,307
NC_030683.2	103292091	1.03E+08	locus858.1	587.9	-	103292091	103293078	0,0,255	2	274,659	0,328
NC_030683.2	103314139	1.03E+08	locus860.1	585.17	-	103314139	103315072	0,0,255	2	247,632	0,301
NC_030683.2	103330636	1.03E+08	locus862.1	584.96	-	103330636	103331533	0,0,255	2	259,584	0,313
NC_030683.2	103342877	1.03E+08	locus863.1	575.09	-	103342877	103343813	0,0,255	2	259,623	0,313
NC_030683.2	103357233	1.03E+08	locus864.1	445.53	-	103357233	103358124	0,0,255	2	271,566	0,325
NC_030683.2	103369450	1.03E+08	locus865.1	444.2	-	103369450	103370341	0,0,255	2	271,566	0,325
NC_030683.2	103380080	1.03E+08	locus866.1	436.71	-	103380080	103380971	0,0,255	2	271,566	0,325
NC_030683.2	103388898	1.03E+08	locus867.1	445.21	-	103388898	103389789	0,0,255	2	271,566	0,325
NC_030684.2	1271851	1272634	locus875.1	668.98	-	1271851	1272634	0,0,255	1	783	0
NC_030684.2	64857632	64858601	locus890.1	398.45	+	64857632	64858601	0,0,255	1	969	0
NC_030684.2	120151819	1.2E+08	locus903.1	437.88	-	120151819	120152740	0,0,255	1	921	0
NC_030684.2	120266315	1.2E+08	locus905.1	401.37	+	120266315	120267224	0,0,255	1	909	0
NC_030684.2	120272888	1.2E+08	locus906.1	395.88	-	120272888	120273809	0,0,255	1	921	0
NC_030684.2	120367889	1.2E+08	locus908.1	674.92	+	120367889	120368780	0,0,255	1	891	0
NC_030684.2	120508348	1.21E+08	locus909.1	438.89	+	120508348	120509248	0,0,255	1	900	0
NC_030684.2	120562151	1.21E+08	locus910.1	436.38	+	120562151	120563081	0,0,255	1	930	0
NC_030684.2	120584772	1.21E+08	locus911.1	439.38	+	120584772	120585672	0,0,255	1	900	0
NC_030684.2	120609590	1.21E+08	locus912.1	429.39	+	120609590	120610520	0,0,255	1	930	0
NC_030684.2	120633374	1.21E+08	locus913.1	420.14	+	120633374	120634268	0,0,255	1	894	0
NC_030684.2	120655966	1.21E+08	locus914.1	437.37	+	120655966	120656923	0,0,255	1	957	0
NC_030684.2	120758816	1.21E+08	locus915.1	420.89	+	120758816	120759713	0,0,255	1	897	0
NC_030684.2	120799205	1.21E+08	locus916.1	420.9	+	120799205	120800102	0,0,255	1	897	0
NC_030684.2	120840845	1.21E+08	locus917.1	407.9	+	120840845	120841742	0,0,255	1	897	0
NC_030684.2	120878982	1.21E+08	locus918.1	411.9	+	120878982	120879879	0,0,255	1	897	0
NC_030684.2	120921959	1.21E+08	locus919.1	409.9	+	120921959	120922856	0,0,255	1	897	0
NC_030684.2	120941613	1.21E+08	locus920.1	412.4	+	120941613	120942510	0,0,255	1	897	0
NC_030684.2	121006034	1.21E+08	locus922.1	431.9	+	121006034	121006931	0,0,255	1	897	0
NC_030684.2	121030642	1.21E+08	locus923.1	421.4	+	121030642	121031539	0,0,255	1	897	0
NC_030684.2	121062894	1.21E+08	locus924.1	422.89	+	121062894	121063797	0,0,255	1	903	0
NC_030684.2	122053742	1.22E+08	locus926.1	440.38	+	122053742	122054630	0,0,255	1	888	0
NC_030684.2	122093658	1.22E+08	locus927.1	447.37	+	122093658	122094546	0,0,255	1	888	0
NC_030684.2	122132340	1.22E+08	locus928.1	448.36	+	122132340	122133228	0,0,255	1	888	0
NC_030684.2	122167756	1.22E+08	locus929.1	450.36	+	122167756	122168644	0,0,255	1	888	0
NC_030684.2	122185836	1.22E+08	locus930.1	450.86	+	122185836	122186724	0,0,255	1	888	0
NC_030684.2	122205002	1.22E+08	locus931.1	447.37	+	122205002	122205890	0,0,255	1	888	0
NC_030684.2	122222015	1.22E+08	locus932.1	440.86	+	122222015	122222903	0,0,255	1	888	0
NC_030684.2	122268448	1.22E+08	locus933.1	446.86	+	122268448	122269330	0,0,255	1	882	0
NC_030684.2	122343970	1.22E+08	locus934.1	459.85	+	122343970	122344870	0,0,255	1	900	0
NC_030684.2	122360722	1.22E+08	locus935.1	453.35	+	122360722	122361613	0,0,255	1	891	0
NC_030684.2	122383303	1.22E+08	locus936.1	449.37	-	122383303	122384206	0,0,255	1	903	0
NC_030684.2	122409955	1.22E+08	locus937.1	456.86	-	122409955	122410858	0,0,255	1	903	0

NC_030684.2	122431682	1.22E+08	locus938.1	453.86	-	122431682	122432585	0,0,255	1	903	0
NC_030684.2	122447326	1.22E+08	locus939.1	465.36	-	122447326	122448229	0,0,255	1	903	0
NC_030684.2	122462640	1.22E+08	locus940.1	410.16	-	122462640	122463537	0,0,255	1	897	0
NC_030684.2	122472585	1.22E+08	locus941.1	396.66	-	122472585	122473509	0,0,255	1	924	0
NC_030684.2	123196134	1.23E+08	locus942.1	696.76	-	123196134	123197022	0,0,255	1	888	0
NC_030684.2	123225062	1.23E+08	locus943.1	400.39	-	123225062	123226001	0,0,255	1	939	0
NC_030684.2	123242839	1.23E+08	locus944.1	395.08	-	123242839	123243616	0,0,255	1	777	0
NC_030684.2	123272794	1.23E+08	locus945.1	400.07	-	123272794	123273586	0,0,255	1	792	0
NC_030684.2	123299228	1.23E+08	locus946.1	389.08	-	123299228	123300146	0,0,255	1	918	0
NC_030684.2	123335285	1.23E+08	locus947.1	398.08	-	123335285	123336203	0,0,255	1	918	0
NC_030684.2	123445890	1.23E+08	locus948.1	632.34	-	123445890	123446796	0,0,255	1	906	0
NC_030684.2	123481506	1.23E+08	locus950.1	678.32	+	123481506	123482607	0,0,255	1	1101	0
NC_030684.2	123503503	1.24E+08	locus951.1	671.32	+	123503503	123504517	0,0,255	1	1014	0
NC_030684.2	123534002	1.24E+08	locus952.1	676.83	+	123534002	123534911	0,0,255	1	909	0
NC_030684.2	123561352	1.24E+08	locus953.1	667.32	+	123561352	123562432	0,0,255	1	1080	0
NC_030684.2	123568064	1.24E+08	locus955.1	639.83	-	123568064	123568961	0,0,255	1	897	0
NC_030684.2	123603898	1.24E+08	locus957.1	684.81	+	123603898	123604807	0,0,255	1	909	0
NC_030684.2	123611296	1.24E+08	locus958.1	641.84	-	123611296	123612202	0,0,255	1	906	0
NC_030684.2	123625639	1.24E+08	locus959.1	670.82	-	123625639	123626548	0,0,255	1	909	0
NC_030684.2	123642642	1.24E+08	locus960.1	674.32	-	123642642	123643551	0,0,255	1	909	0
NC_030684.2	123665314	1.24E+08	locus961.1	667.32	-	123665314	123666226	0,0,255	1	912	0
NC_030684.2	123693946	1.24E+08	locus962.1	671.82	-	123693946	123694948	0,0,255	1	1002	0
NC_030684.2	123719758	1.24E+08	locus963.1	680.82	-	123719758	123720757	0,0,255	1	999	0
NC_030684.2	123742969	1.24E+08	locus964.1	666.32	-	123742969	123744058	0,0,255	1	1089	0
NC_030684.2	123770066	1.24E+08	locus965.1	667.32	-	123770066	123770978	0,0,255	1	912	0
NC_030684.2	123789471	1.24E+08	locus966.1	674.82	-	123789471	123790383	0,0,255	1	912	0
NC_030684.2	123822532	1.24E+08	locus967.1	679.82	-	123822532	123823444	0,0,255	1	912	0
NC_030684.2	123845006	1.24E+08	locus968.1	667.33	-	123845006	123845918	0,0,255	1	912	0
NC_030684.2	123873896	1.24E+08	locus969.1	672.82	-	123873896	123874805	0,0,255	1	909	0
NC_030684.2	123891709	1.24E+08	locus971.1	666.33	-	123891709	123892798	0,0,255	1	1089	0
NC_030684.2	123913965	1.24E+08	locus972.1	659.33	-	123913965	123914988	0,0,255	1	1023	0
NC_030684.2	123933769	1.24E+08	locus973.1	673.32	-	123933769	123934678	0,0,255	1	909	0
NC_030684.2	123956079	1.24E+08	locus974.1	672.32	-	123956079	123956988	0,0,255	1	909	0
NC_030684.2	123989850	1.24E+08	locus975.1	669.82	-	123989850	123990747	0,0,255	1	897	0
NC_030684.2	124008005	1.24E+08	locus976.1	667.82	-	124008005	124008911	0,0,255	1	906	0
NC_030684.2	124050641	1.24E+08	locus977.1	655.75	+	124050641	124051454	0,0,255	1	813	0
NC_030684.2	124073126	1.24E+08	locus978.1	701.21	+	124073126	124073939	0,0,255	1	813	0
NC_030684.2	124099565	1.24E+08	locus979.1	627.83	+	124099565	124100507	0,0,255	1	942	0
NC_030684.2	124120524	1.24E+08	locus980.1	402.3	+	124120524	124121448	0,0,255	1	924	0
NC_030684.2	124141358	1.24E+08	locus981.1	398.81	+	124141358	124142243	0,0,255	1	885	0
NC_030684.2	124161509	1.24E+08	locus982.1	379.33	+	124161509	124162430	0,0,255	1	921	0
NC_030684.2	124186313	1.24E+08	locus983.1	379.24	+	124186313	124187291	0,0,255	1	978	0
NC_030684.2	124199647	1.24E+08	locus984.1	374.32	+	124199647	124200568	0,0,255	1	921	0
NC_030684.2	124217234	1.24E+08	locus985.1	371.89	+	124217234	124218158	0,0,255	1	924	0

NC_030684.2	124238497	1.24E+08	locus986.1	375.89	+	124238497	124239421	0,0,255	1	924	0
NC_030684.2	124268262	1.24E+08	locus987.1	377.31	+	124268262	124269186	0,0,255	1	924	0
NC_030684.2	124300972	1.24E+08	locus988.1	387.89	+	124300972	124301896	0,0,255	1	924	0
NC_030684.2	124319645	1.24E+08	locus989.1	385.21	+	124319645	124320533	0,0,255	1	888	0
NC_030684.2	124341900	1.24E+08	locus990.1	385.32	+	124341900	124342821	0,0,255	1	921	0
NC_030684.2	124365525	1.24E+08	locus991.1	391.23	+	124365525	124366452	0,0,255	1	927	0
NC_030684.2	124394031	1.24E+08	locus992.1	381.81	+	124394031	124394940	0,0,255	1	909	0
NC_030684.2	124408758	1.24E+08	locus993.1	401.87	-	124408758	124409667	0,0,255	1	909	0
NC_030684.2	124439478	1.24E+08	locus994.1	431.82	-	124439478	124440378	0,0,255	1	900	0
NC_030684.2	124471663	1.24E+08	locus995.1	420.81	-	124471663	124472563	0,0,255	1	900	0
NC_030684.2	124506771	1.25E+08	locus997.1	665.42	+	124506771	124507602	0,0,255	1	831	0
NC_030684.2	124514272	1.25E+08	locus998.1	420.32	-	124514272	124515172	0,0,255	1	900	0
NC_030684.2	124525548	1.25E+08	locus999.1	434.06	-	124525548	124526448	0,0,255	1	900	0
NC_030684.2	124542568	1.25E+08	locus1000.1	704.23	-	124542568	124543459	0,0,255	1	891	0
NC_030684.2	124557985	1.25E+08	locus1001.1	715.81	-	124557985	124558879	0,0,255	1	894	0
NC_030684.2	124632930	1.25E+08	locus1003.1	709.06	-	124632930	124633830	0,0,255	1	900	0
NC_030684.2	124657304	1.25E+08	locus1004.1	688.56	-	124657304	124658204	0,0,255	1	900	0
NC_030684.2	124672716	1.25E+08	locus1005.1	606.12	-	124672716	124673637	0,0,255	1	921	0
NC_030684.2	124676823	1.25E+08	locus1006.1	606.12	-	124676823	124677744	0,0,255	1	921	0
NC_030684.2	124727027	1.25E+08	locus1007.1	701.91	-	124727027	124727921	0,0,255	1	894	0
NC_030684.2	124754575	1.25E+08	locus1009.1	693.91	-	124754575	124755469	0,0,255	1	894	0
NC_030684.2	124770146	1.25E+08	locus1011.1	673.85	-	124770146	124771046	0,0,255	1	900	0
NC_030684.2	125117771	1.25E+08	locus1014.1	702.41	+	125117771	125118665	0,0,255	1	894	0
NC_030684.2	127798466	1.28E+08	locus1017.1	611.84	-	127798466	127799336	0,0,255	1	870	0
NC_030684.2	127817942	1.28E+08	locus1018.1	607.35	-	127817942	127818812	0,0,255	1	870	0
NC_030684.2	127830771	1.28E+08	locus1019.1	610.84	-	127830771	127831719	0,0,255	1	948	0
NC_030684.2	127843652	1.28E+08	locus1020.1	609.35	-	127843652	127844588	0,0,255	1	936	0
NC_030684.2	127856269	1.28E+08	locus1021.1	615.84	-	127856269	127857205	0,0,255	1	936	0
NC_030684.2	127876097	1.28E+08	locus1022.1	602.35	-	127876097	127877033	0,0,255	1	936	0
NC_030684.2	127897746	1.28E+08	locus1023.1	619.84	-	127897746	127898682	0,0,255	1	936	0
NC_030685.2	16235	17110	locus1028.1	630.37	-	16235	17110	0,0,255	2	834,30	0,845
NC_030686.2	52381478	52388307	locus1062.1	636.09	-	52381478	52388307	0,0,255	2	876,9	0,6820

Caecilian

CABPRQ0100	27082	27886	locus46850.1	682.52 -	27082	27886	0,0,255	1	804	0
LR699147.1	250585478	250586369	locus10029.1	724.98 -	250585478	250586369	0,0,255	1	891	0
LR699150.1	90409978	90410893	locus22632.1	737.78 -	90409978	90410893	0,0,255	1	915	0
LR699154.1	160605649	160606597	locus34699.1	793.96 -	160605649	160606597	0,0,255	1	948	0
LR699154.1	161065784	161066675	locus34702.1	706.47 +	161065784	161066675	0,0,255	1	891	0
LR699155.1	119403663	119404602	locus36723.1	768.65 -	119403663	119404602	0,0,255	1	939	0
LR699155.1	119464874	119465780	locus36726.1	741.42 -	119464874	119465780	0,0,255	1	906	0
LR699155.1	119507874	119508780	locus36727.1	742.47 +	119507874	119508780	0,0,255	1	906	0
LR699155.1	119547583	119548480	locus36728.1	733.6 +	119547583	119548480	0,0,255	1	897	0
LR699155.1	119571081	119572020	locus36730.1	762.85 +	119571081	119572020	0,0,255	1	939	0
LR699155.1	119656359	119657253	locus36732.1	731.07 +	119656359	119657253	0,0,255	1	894	0
LR699155.1	119715611	119716505	locus36733.1	729.17 +	119715611	119716505	0,0,255	1	894	0
LR699155.1	119764824	119765718	locus36734.1	732.67 +	119764824	119765718	0,0,255	1	894	0
LR699155.1	119808317	119809211	locus36735.1	735.65 +	119808317	119809211	0,0,255	1	894	0
LR699155.1	119846364	119847258	locus36736.1	729.91 +	119846364	119847258	0,0,255	1	894	0
LR699155.1	119901002	119901797	locus36738.1	640.16 +	119901002	119901797	0,0,255	1	795	0
LR699155.1	120040733	120041627	locus36740.1	732.32 +	120040733	120041627	0,0,255	1	894	0
LR699155.1	120138907	120139801	locus36742.1	731.04 +	120138907	120139801	0,0,255	1	894	0
LR699155.1	120235603	120236497	locus36743.1	732.56 +	120235603	120236497	0,0,255	1	894	0
LR699155.1	120291050	120291944	locus36744.1	725.55 +	120291050	120291944	0,0,255	1	894	0
LR699155.1	130972543	130973506	locus36860.1	751.11 -	130972543	130973506	0,0,255	1	963	0
LR699155.1	131064468	131065407	locus36862.1	760.99 +	131064468	131065407	0,0,255	1	939	0
LR699155.1	134146095	134147004	locus36882.1	733.24 -	134146095	134147004	0,0,255	1	909	0

LR699155.1	134186404	134187313	locus36883.1	732.41 -	134186404	134187313	0,0,255	1	909	0
LR699155.1	134230892	134231801	locus36884.1	732.41 -	134230892	134231801	0,0,255	1	909	0
LR699155.1	134283980	134284889	locus36885.1	731.12 -	134283980	134284889	0,0,255	1	909	0
LR699155.1	134330989	134331898	locus36886.1	735.73 -	134330989	134331898	0,0,255	1	909	0
LR699155.1	134429384	134430296	locus36888.1	739.78 -	134429384	134430296	0,0,255	1	912	0
LR699155.1	134522068	134522977	locus36891.1	734.17 -	134522068	134522977	0,0,255	1	909	0
LR699155.1	134566990	134567899	locus36892.1	731.67 -	134566990	134567899	0,0,255	1	909	0
LR699155.1	134756206	134757115	locus36893.1	731.67 -	134756206	134757115	0,0,255	1	909	0
LR699155.1	134803810	134804719	locus36895.1	731.12 -	134803810	134804719	0,0,255	1	909	0
LR699155.1	134837467	134838379	locus36896.1	737.01 -	134837467	134838379	0,0,255	1	912	0
LR699155.1	134875233	134876142	locus36898.1	734.94 -	134875233	134876142	0,0,255	1	909	0
LR699155.1	134979490	134980399	locus36900.1	734.19 -	134979490	134980399	0,0,255	1	909	0
LR699155.1	135520728	135521622	locus36907.1	733.12 +	135520728	135521622	0,0,255	1	894	0
LR699155.1	135560679	135561573	locus36908.1	733.25 +	135560679	135561573	0,0,255	1	894	0
LR699155.1	135595258	135596161	locus36909.1	737.13 +	135595258	135596161	0,0,255	1	903	0
LR699155.1	135626048	135626942	locus36910.1	734.05 +	135626048	135626942	0,0,255	1	894	0
LR699155.1	135653943	135654846	locus36911.1	738.91 +	135653943	135654846	0,0,255	1	903	0
LR699155.1	135664608	135665511	locus36912.1	740.82 -	135664608	135665511	0,0,255	1	903	0
LR699155.1	135711963	135712857	locus36913.1	733.92 -	135711963	135712857	0,0,255	1	894	0
LR699155.1	135738061	135738955	locus36915.1	734.03 -	135738061	135738955	0,0,255	1	894	0
LR699155.1	135907700	135908600	locus36917.1	735.49 -	135907700	135908600	0,0,255	1	900	0
LR699155.1	136253768	136254662	locus36920.1	739.05 -	136253768	136254662	0,0,255	1	894	0
LR699155.1	136293371	136294265	locus36921.1	737.63 -	136293371	136294265	0,0,255	1	894	0
LR699155.1	136417898	136418792	locus36926.1	728.34 -	136417898	136418792	0,0,255	1	894	0

LR699155.1	136464911	136465832	locus36928.1	750.97 -	136464911	136465832	0,0,255	1	921	0
LR699155.1	136515857	136516778	locus36931.1	751.82 -	136515857	136516778	0,0,255	1	921	0
LR699155.1	136596668	136597589	locus36934.1	748.68 -	136596668	136597589	0,0,255	1	921	0
LR699155.1	136647593	136648514	locus36937.1	749.62 -	136647593	136648514	0,0,255	1	921	0
LR699155.1	136711929	136712850	locus36939.1	757.58 +	136711929	136712850	0,0,255	1	921	0
LR699155.1	136752845	136753766	locus36940.1	749.95 +	136752845	136753766	0,0,255	1	921	0
LR699155.1	136818561	136819482	locus36942.1	747.39 +	136818561	136819482	0,0,255	1	921	0
LR699155.1	136867269	136868163	locus36943.1	734.31 +	136867269	136868163	0,0,255	1	894	0
LR699155.1	136924397	136925291	locus36944.1	732.94 +	136924397	136925291	0,0,255	1	894	0
LR699155.1	137012054	137012948	locus36946.1	734.5 +	137012054	137012948	0,0,255	1	894	0
LR699155.1	137037904	137038798	locus36947.1	736.11 +	137037904	137038798	0,0,255	1	894	0
LR699155.1	137064077	137064971	locus36948.1	732.87 +	137064077	137064971	0,0,255	1	894	0
LR699155.1	137136386	137137211	locus36949.1	704.06 +	137136386	137137211	0,0,255	1	825	0
LR699155.1	137228543	137229437	locus36950.1	731.68 +	137228543	137229437	0,0,255	1	894	0
LR699155.1	137281666	137282560	locus36951.1	724.89 +	137281666	137282560	0,0,255	1	894	0
LR699155.1	137325379	137326264	locus36954.1	729.09 +	137325379	137326264	0,0,255	1	885	0
LR699155.1	137366651	137367545	locus36955.1	735.19 +	137366651	137367545	0,0,255	1	894	0
LR699155.1	137458179	137459073	locus36959.1	734.7 -	137458179	137459073	0,0,255	1	894	0
LR699155.1	137472008	137472890	locus36960.1	721.13 -	137472008	137472890	0,0,255	1	882	0
LR699155.1	137523138	137524032	locus36962.1	731.98 -	137523138	137524032	0,0,255	1	894	0
LR699155.1	137553143	137554037	locus36963.1	732.51 -	137553143	137554037	0,0,255	1	894	0
LR699155.1	137767704	137768613	locus36974.1	745.84 +	137767704	137768613	0,0,255	1	909	0
LR699155.1	137790050	137790959	locus36976.1	746.2 +	137790050	137790959	0,0,255	1	909	0
LR699155.1	137840577	137841486	locus36981.1	746.2 +	137840577	137841486	0,0,255	1	909	0

LR699157.1	95062657	95063512	locus40274.1	694.58 +	95062657	95063512	0,0,255	1	855	0
LR699157.1	95113206	95114118	locus40276.1	752.94 +	95113206	95114118	0,0,255	1	912	0
LR699157.1	95227104	95228025	locus40278.1	759.19 -	95227104	95228025	0,0,255	1	921	0
LR699157.1	95537468	95538362	locus40280.1	748.19 -	95537468	95538362	0,0,255	1	894	0
LR699157.1	95669367	95670261	locus40281.1	730.55 -	95669367	95670261	0,0,255	1	894	0
LR699157.1	95806893	95807787	locus40283.1	733.65 -	95806893	95807787	0,0,255	1	894	0
LR699157.1	95911461	95912373	locus40284.1	746.6 -	95911461	95912373	0,0,255	1	912	0
LR699157.1	96085334	96086237	locus40286.1	738.18 -	96085334	96086237	0,0,255	1	903	0
LR699157.1	96327021	96327939	locus40288.1	763.81 +	96327021	96327939	0,0,255	1	918	0
LR699157.1	96547458	96548340	locus40291.1	721.99 +	96547458	96548340	0,0,255	1	882	0
LR699157.1	97245280	97246174	locus40294.1	734.61 +	97245280	97246174	0,0,255	1	894	0
LR699157.1	97482784	97483696	locus40296.1	753.26 -	97482784	97483696	0,0,255	1	912	0
LR699157.1	97702293	97703307	locus40297.1	833.83 -	97702293	97703307	0,0,255	1	1014	0
LR699157.1	97880269	97881163	locus40302.1	730.47 -	97880269	97881163	0,0,255	1	894	0
LR699157.1	97970706	97971609	locus40303.1	736.29 -	97970706	97971609	0,0,255	1	903	0
LR699157.1	98087627	98088521	locus40306.1	731.31 +	98087627	98088521	0,0,255	1	894	0
LR699157.1	98251224	98252130	locus40307.1	745.06 +	98251224	98252130	0,0,255	1	906	0
LR699157.1	98300680	98301586	locus40308.1	744.23 +	98300680	98301586	0,0,255	1	906	0
LR699157.1	98424987	98425893	locus40309.1	745.15 +	98424987	98425893	0,0,255	1	906	0
LR699157.1	98544740	98545646	locus40310.1	744.2 +	98544740	98545646	0,0,255	1	906	0
LR699157.1	98605968	98606874	locus40311.1	744.79 +	98605968	98606874	0,0,255	1	906	0
LR699157.1	98689183	98690074	locus40312.1	728.82 -	98689183	98690074	0,0,255	1	891	0
LR699157.1	98944360	98945254	locus40313.1	726.04 -	98944360	98945254	0,0,255	1	894	0
LR699157.1	99010740	99011709	locus40314.1	755.54 -	99010740	99011709	0,0,255	1	969	0

LR699157.1	99080992	99081886	locus40315.1	732.31 -	99080992	99081886	0,0,255	1	894	0
LR699157.1	99271936	99272830	locus40317.1	730.47 -	99271936	99272830	0,0,255	1	894	0
LR699157.1	99354872	99355766	locus40318.1	731.14 -	99354872	99355766	0,0,255	1	894	0
LR699157.1	99494894	99495788	locus40321.1	731.7 -	99494894	99495788	0,0,255	1	894	0
LR699157.1	99570440	99571334	locus40322.1	736.27 -	99570440	99571334	0,0,255	1	894	0
LR699157.1	99679259	99680153	locus40323.1	731.33 -	99679259	99680153	0,0,255	1	894	0
LR699157.1	99799023	99799917	locus40325.1	733.22 -	99799023	99799917	0,0,255	1	894	0
LR699157.1	99963283	99964186	locus40327.1	751.45 +	99963283	99964186	0,0,255	1	903	0
LR699157.1	100011049	100012000	locus40328.1	779.48 +	100011049	100012000	0,0,255	1	951	0
LR699157.1	100063084	100064029	locus40329.1	779.86 +	100063084	100064029	0,0,255	1	945	0
LR699157.1	100161462	100162446	locus40331.1	770.08 -	100161462	100162446	0,0,255	1	984	0
LR699157.1	100234236	100235139	locus40332.1	741.81 -	100234236	100235139	0,0,255	1	903	0
LR699157.1	100446073	100446997	locus40334.1	756.79 +	100446073	100446997	0,0,255	1	924	0
LR699157.1	100530273	100531284	locus40335.1	827.25 +	100530273	100531284	0,0,255	1	1011	0
LR699157.1	100619386	100620310	locus40336.1	758.04 +	100619386	100620310	0,0,255	1	924	0
LR699157.1	100704039	100704963	locus40337.1	758.39 +	100704039	100704963	0,0,255	1	924	0
LR699157.1	100783653	100784577	locus40338.1	753.59 +	100783653	100784577	0,0,255	1	924	0
LR699157.1	100804798	100805692	locus40339.1	731.55 -	100804798	100805692	0,0,255	1	894	0
LR699157.1	100923341	100924262	locus40341.1	751.71 +	100923341	100924262	0,0,255	1	921	0
LR699157.1	100935936	100936830	locus40342.1	733.34 -	100935936	100936830	0,0,255	1	894	0
LR699157.1	101039811	101040732	locus40343.1	753.07 -	101039811	101040732	0,0,255	1	921	0
LR699157.1	101116783	101117704	locus40344.1	752.57 -	101116783	101117704	0,0,255	1	921	0
LR699157.1	101222064	101222985	locus40345.1	752.46 +	101222064	101222985	0,0,255	1	921	0
LR699157.1	101289913	101290807	locus40348.1	724.96 -	101289913	101290807	0,0,255	1	894	0

LR699157.1	101386980	101387883	locus40349.1	741.07 +	101386980	101387883	0,0,255	1	903	0
LR699157.1	101499018	101499912	locus40354.1	736.71 +	101499018	101499912	0,0,255	1	894	0
LR699157.1	101567284	101568202	locus40355.1	760.85 +	101567284	101568202	0,0,255	1	918	0
LR699157.1	101618109	101619030	locus40356.1	757.17 +	101618109	101619030	0,0,255	1	921	0
LR699157.1	101742020	101742932	locus40360.1	750.06 +	101742020	101742932	0,0,255	1	912	0
LR699157.1	101846600	101847500	locus40361.1	737.81 +	101846600	101847500	0,0,255	1	900	0
LR699157.1	101993509	101994409	locus40362.1	738.59 +	101993509	101994409	0,0,255	1	900	0
LR699157.1	102069442	102070336	locus40363.1	728.79 +	102069442	102070336	0,0,255	1	894	0
LR699157.1	102147284	102148208	locus40364.1	758.06 +	102147284	102148208	0,0,255	1	924	0
LR699157.1	102223317	102224238	locus40365.1	759.32 +	102223317	102224238	0,0,255	1	921	0
LR699157.1	102375245	102376280	locus40369.1	845.14 +	102375245	102376280	0,0,255	1	1035	0
LR699157.1	102555817	102556711	locus40370.1	786.69 +	102555817	102556711	0,0,255	1	894	0
LR699157.1	102681207	102682128	locus40371.1	756.9 +	102681207	102682128	0,0,255	1	921	0
LR699157.1	102925797	102926808	locus40376.1	820.93 +	102925797	102926808	0,0,255	1	1011	0
LR699157.1	102934062	102935073	locus40377.1	820.07 +	102934062	102935073	0,0,255	1	1011	0
LR699157.1	103103897	103104908	locus40379.1	818.63 +	103103897	103104908	0,0,255	1	1011	0
LR699157.1	103311773	103312784	locus40382.1	820.75 +	103311773	103312784	0,0,255	1	1011	0
LR699157.1	103483139	103484033	locus40384.1	790.69 +	103483139	103484033	0,0,255	1	894	0
LR699157.1	103578627	103579521	locus40385.1	736.97 +	103578627	103579521	0,0,255	1	894	0
LR699157.1	103609951	103610899	locus40387.1	761.15 -	103609951	103610899	0,0,255	1	948	0
LR699157.1	103665607	103666531	locus40390.1	760.77 -	103665607	103666531	0,0,255	1	924	0
LR699157.1	103809421	103810372	locus40392.1	793.88 +	103809421	103810372	0,0,255	1	951	0
LR699157.1	103836885	103837842	locus40393.1	775.76 -	103836885	103837842	0,0,255	1	957	0
LR699157.1	104036745	104037648	locus40394.1	741.54 -	104036745	104037648	0,0,255	1	903	0

LR699157.1	104092837	104093731	locus40395.1	732.66 +	104092837	104093731	0,0,255	1	894	0
LR699157.1	104129395	104130289	locus40397.1	731.61 -	104129395	104130289	0,0,255	1	894	0
LR699157.1	104202391	104203285	locus40400.1	736.04 -	104202391	104203285	0,0,255	1	894	0
LR699157.1	104252249	104253143	locus40401.1	733.38 -	104252249	104253143	0,0,255	1	894	0
LR699157.1	104351667	104352558	locus40402.1	727.87 -	104351667	104352558	0,0,255	1	891	0
LR699157.1	104411664	104412558	locus40403.1	733.24 -	104411664	104412558	0,0,255	1	894	0
LR699157.1	104478208	104479102	locus40404.1	728.81 -	104478208	104479102	0,0,255	1	894	0
LR699157.1	104549155	104550049	locus40406.1	735.19 -	104549155	104550049	0,0,255	1	894	0
LR699157.1	104604086	104604980	locus40407.1	732.32 -	104604086	104604980	0,0,255	1	894	0
LR699157.1	104681956	104682850	locus40408.1	730.93 -	104681956	104682850	0,0,255	1	894	0
LR699157.1	104732008	104732977	locus40409.1	798.41 +	104732008	104732977	0,0,255	1	969	0
LR699157.1	104793182	104794124	locus40410.1	773.99 +	104793182	104794124	0,0,255	1	942	0
LR699157.1	104815528	104816434	locus40412.1	744.49 +	104815528	104816434	0,0,255	1	906	0
LR699157.1	104822752	104823652	locus40413.1	743.5 -	104822752	104823652	0,0,255	1	900	0
LR699157.1	104854916	104855816	locus40414.1	737.94 -	104854916	104855816	0,0,255	1	900	0
LR699157.1	104884858	104885749	locus40415.1	733.84 -	104884858	104885749	0,0,255	1	891	0
LR699157.1	104900179	104901073	locus40416.1	731.41 -	104900179	104901073	0,0,255	1	894	0
LR699157.1	105023369	105024260	locus40417.1	738.04 +	105023369	105024260	0,0,255	1	891	0
LR699157.1	105139484	105140375	locus40418.1	734.02 -	105139484	105140375	0,0,255	1	891	0
LR699157.1	105229068	105229899	locus40420.1	709.56 -	105229068	105229899	0,0,255	1	831	0
LR699157.1	105285046	105286012	locus40421.1	797.67 -	105285046	105286012	0,0,255	1	966	0
LR699157.1	105298256	105299222	locus40422.1	797.67 -	105298256	105299222	0,0,255	1	966	0
LR699157.1	105400441	105401377	locus40424.1	772.72 +	105400441	105401377	0,0,255	1	936	0
LR699157.1	105474214	105475108	locus40426.1	750.85 +	105474214	105475108	0,0,255	1	894	0

LR699157.1	105486202	105487183	locus40428.1	809.23 -	105486202	105487183	0,0,255	1	981	0
LR699157.1	105564377	105565271	locus40429.1	729.63 +	105564377	105565271	0,0,255	1	894	0
LR699157.1	105675363	105676299	locus40431.1	766.93 +	105675363	105676299	0,0,255	1	936	0
LR699157.1	105744248	105745139	locus40432.1	732.25 +	105744248	105745139	0,0,255	1	891	0
LR699157.1	105756765	105757740	locus40433.1	755.91 -	105756765	105757740	0,0,255	1	975	0
LR699157.1	105836184	105837084	locus40434.1	743.59 -	105836184	105837084	0,0,255	1	900	0
LR699157.1	105880682	105881576	locus40435.1	729.37 -	105880682	105881576	0,0,255	1	894	0
LR699157.1	106038323	106039244	locus40438.1	752.75 +	106038323	106039244	0,0,255	1	921	0
LR699157.1	106120230	106121130	locus40440.1	734.33 +	106120230	106121130	0,0,255	1	900	0
LR699157.1	106204843	106205764	locus40441.1	749.76 +	106204843	106205764	0,0,255	1	921	0
LR699157.1	106271978	106272863	locus40443.1	724.59 +	106271978	106272863	0,0,255	1	885	0
LR699157.1	106353867	106354770	locus40446.1	741.4 +	106353867	106354770	0,0,255	1	903	0
LR699157.1	106370625	106371528	locus40447.1	741.2 -	106370625	106371528	0,0,255	1	903	0
LR699157.1	106469627	106470551	locus40448.1	755.44 +	106469627	106470551	0,0,255	1	924	0
LR699157.1	106499862	106500786	locus40450.1	757.5 -	106499862	106500786	0,0,255	1	924	0
LR699157.1	106648955	106649879	locus40454.1	762.44 -	106648955	106649879	0,0,255	1	924	0
LR699157.1	106701054	106702041	locus40455.1	826.28 -	106701054	106702041	0,0,255	1	987	0
LR699157.1	106796058	106796952	locus40458.1	733.6 -	106796058	106796952	0,0,255	1	894	0
LR699157.1	106837933	106838827	locus40460.1	734.89 -	106837933	106838827	0,0,255	1	894	0
LR699157.1	106887433	106888327	locus40462.1	734.95 -	106887433	106888327	0,0,255	1	894	0
LR699157.1	106935667	106936561	locus40463.1	736.51 -	106935667	106936561	0,0,255	1	894	0
LR699157.1	106974811	106975735	locus40464.1	766.03 -	106974811	106975735	0,0,255	1	924	0
LR699157.1	107027682	107028624	locus40466.1	773.44 -	107027682	107028624	0,0,255	1	942	0
LR699157.1	107131560	107132490	locus40467.1	761.81 +	107131560	107132490	0,0,255	1	930	0

LR699157.1	107172022	107172967	locus40469.1	780.54 -	107172022	107172967	0,0,255	1	945	0
LR699157.1	107313862	107314756	locus40470.1	737.26 +	107313862	107314756	0,0,255	1	894	0
LR699157.1	107429242	107430136	locus40473.1	737.43 +	107429242	107430136	0,0,255	1	894	0
LR699157.1	107505401	107506295	locus40476.1	730.55 +	107505401	107506295	0,0,255	1	894	0
LR699157.1	107564708	107565602	locus40477.1	732.53 +	107564708	107565602	0,0,255	1	894	0
LR699157.1	107632749	107633643	locus40480.1	735.98 +	107632749	107633643	0,0,255	1	894	0
LR699157.1	107670002	107670896	locus40481.1	731.73 +	107670002	107670896	0,0,255	1	894	0
LR699157.1	107727124	107728009	locus40485.1	725.34 +	107727124	107728009	0,0,255	1	885	0
LR699157.1	107804017	107804911	locus40486.1	732.26 +	107804017	107804911	0,0,255	1	894	0
LR699157.1	107821483	107822503	locus40487.1	768.71 -	107821483	107822503	0,0,255	1	1020	0
LR699157.1	107882045	107883038	locus40489.1	826.11 -	107882045	107883038	0,0,255	1	993	0
LR699157.1	107986510	107987413	locus40490.1	739.22 +	107986510	107987413	0,0,255	1	903	0
LR699157.1	108008100	108009003	locus40491.1	739.2 +	108008100	108009003	0,0,255	1	903	0
LR699157.1	108026740	108027664	locus40492.1	769.76 -	108026740	108027664	0,0,255	1	924	0
LR699157.1	108137460	108138348	locus40494.1	725.41 +	108137460	108138348	0,0,255	1	888	0
LR699157.1	108275397	108276285	locus40497.1	723.63 +	108275397	108276285	0,0,255	1	888	0
LR699157.1	108300028	108300916	locus40498.1	729.17 +	108300028	108300916	0,0,255	1	888	0
LR699157.1	108353043	108353931	locus40499.1	727.94 +	108353043	108353931	0,0,255	1	888	0
LR699157.1	108532693	108533581	locus40502.1	727.77 +	108532693	108533581	0,0,255	1	888	0
LR699157.1	108625788	108626676	locus40504.1	724.28 +	108625788	108626676	0,0,255	1	888	0
LR699157.1	108680607	108681501	locus40506.1	734.57 +	108680607	108681501	0,0,255	1	894	0
LR699157.1	108789178	108790135	locus40508.1	787.9 +	108789178	108790135	0,0,255	1	957	0
LR699157.1	108839533	108840427	locus40509.1	726.89 +	108839533	108840427	0,0,255	1	894	0
LR699157.1	108911615	108912518	locus40511.1	738.37 +	108911615	108912518	0,0,255	1	903	0

LR699157.1	108986539	108987505	locus40513.1	801.07 +	108986539	108987505	0,0,255	1	966	0
LR699157.1	109003250	109004162	locus40514.1	753.31 -	109003250	109004162	0,0,255	1	912	0
LR699157.1	109262621	109263551	locus40517.1	767.45 -	109262621	109263551	0,0,255	1	930	0
LR699157.1	109362718	109363603	locus40518.1	735 -	109362718	109363603	0,0,255	1	885	0
LR699157.1	109423540	109424422	locus40519.1	696.2 -	109423540	109424422	0,0,255	1	882	0
LR699157.1	109521576	109522458	locus40520.1	726.59 +	109521576	109522458	0,0,255	1	882	0
LR699157.1	109608190	109609075	locus40522.1	729.89 +	109608190	109609075	0,0,255	1	885	0
LR699157.1	109658305	109659190	locus40523.1	731.83 +	109658305	109659190	0,0,255	1	885	0
LR699157.1	109701965	109702850	locus40524.1	733.11 +	109701965	109702850	0,0,255	1	885	0
LR699157.1	109732771	109733656	locus40525.1	733.82 -	109732771	109733656	0,0,255	1	885	0
LR699157.1	109776449	109777373	locus40526.1	762.86 -	109776449	109777373	0,0,255	1	924	0
LR699157.1	109807220	109808105	locus40527.1	710.92 -	109807220	109808105	0,0,255	1	885	0
LR699157.1	109871761	109872760	locus40528.1	779.04 -	109871761	109872760	0,0,255	1	999	0
LR699157.1	109922567	109923452	locus40530.1	726.37 -	109922567	109923452	0,0,255	1	885	0
LR699157.1	110034098	110035016	locus40531.1	743.94 -	110034098	110035016	0,0,255	1	918	0
LR699157.1	110126450	110127386	locus40533.1	772.72 -	110126450	110127386	0,0,255	1	936	0
LR699157.1	110215511	110216396	locus40534.1	720.18 -	110215511	110216396	0,0,255	1	885	0
LR699157.1	110309727	110310612	locus40537.1	728.66 -	110309727	110310612	0,0,255	1	885	0
LR699157.1	110417353	110418238	locus40538.1	727.42 -	110417353	110418238	0,0,255	1	885	0
LR699157.1	110468381	110469266	locus40539.1	730.56 -	110468381	110469266	0,0,255	1	885	0
LR699157.1	110531067	110532045	locus40540.1	755.65 -	110531067	110532045	0,0,255	1	978	0
LR699157.1	110562731	110563718	locus40541.1	789.37 -	110562731	110563718	0,0,255	1	987	0
LR699157.1	112662266	112663187	locus40565.1	757.04 +	112662266	112663187	0,0,255	1	921	0
LR699157.1	112706537	112707461	locus40566.1	764.67 +	112706537	112707461	0,0,255	1	924	0

LR699157.1	112789869	112790793	locus40568.1	763 +	112789869	112790793	0,0,255	1	924	0
LR699157.1	112866282	112867206	locus40569.1	762.96 +	112866282	112867206	0,0,255	1	924	0
LR699157.1	112939465	112940389	locus40570.1	761.44 +	112939465	112940389	0,0,255	1	924	0
LR699157.1	113004018	113004912	locus40571.1	745.7 +	113004018	113004912	0,0,255	1	894	0
LR699157.1	113055734	113056658	locus40572.1	764.18 +	113055734	113056658	0,0,255	1	924	0
LR699157.1	113132402	113133326	locus40573.1	761.45 +	113132402	113133326	0,0,255	1	924	0
LR699157.1	113195399	113196323	locus40574.1	761.14 +	113195399	113196323	0,0,255	1	924	0
LR699157.1	113280057	113280981	locus40578.1	763.58 -	113280057	113280981	0,0,255	1	924	0
LR699157.1	113328484	113329408	locus40579.1	765.33 -	113328484	113329408	0,0,255	1	924	0
LR699157.1	113385393	113386317	locus40580.1	762.44 -	113385393	113386317	0,0,255	1	924	0
LR699157.1	113451104	113452028	locus40581.1	762.59 -	113451104	113452028	0,0,255	1	924	0
LR699157.1	113526897	113527821	locus40582.1	760.9 -	113526897	113527821	0,0,255	1	924	0
LR699157.1	113612402	113613326	locus40584.1	765.6 -	113612402	113613326	0,0,255	1	924	0
LR699157.1	113658588	113659512	locus40585.1	763.7 -	113658588	113659512	0,0,255	1	924	0
LR699157.1	113720965	113721859	locus40586.1	738.53 -	113720965	113721859	0,0,255	1	894	0
LR699161.1	15068330	15069230	locus44250.1	728.91 +	15068330	15069230	0,0,255	1	900	0
LR699161.1	15109005	15109938	locus44251.1	756.91 +	15109005	15109938	0,0,255	1	933	0
LR699161.1	15137860	15138913	locus44252.1	848.06 -	15137860	15138913	0,0,255	1	1053	0
LR699161.1	15159019	15159952	locus44253.1	757.76 -	15159019	15159952	0,0,255	1	933	0
LR699161.1	15580906	15581815	locus44258.1	737.06 +	15580906	15581815	0,0,255	1	909	0
LR699161.1	15686262	15687195	locus44261.1	759.51 +	15686262	15687195	0,0,255	1	933	0
LR699161.1	16326175	16326979	locus44273.1	690.01 +	16326175	16326979	0,0,255	1	804	0
LR699161.1	17752896	17753814	locus44290.1	741.03 -	17752896	17753814	0,0,255	1	918	0
LR699161.1	18086294	18087188	locus44297.1	723.51 +	18086294	18087188	0,0,255	1	894	0

LR699161.1	18177544	18178450	locus44300.1	730.75 +	18177544	18178450	0,0,255	1	906	0
LR699161.1	23691778	23692696	locus44364.1	753 -	23691778	23692696	0,0,255	1	918	0
LR699161.1	23722581	23723517	locus44365.1	785.11 -	23722581	23723517	0,0,255	1	936	0
LR699161.1	28638713	28639643	locus44437.1	752.52 +	28638713	28639643	0,0,255	1	930	0
LR699161.1	28670387	28671317	locus44439.1	751.92 +	28670387	28671317	0,0,255	1	930	0
LR699161.1	28690143	28691070	locus44440.1	749.12 +	28690143	28691070	0,0,255	1	927	0
LR699161.1	28718812	28719694	locus44442.1	733.44 +	28718812	28719694	0,0,255	1	882	0
LR699161.1	28742883	28743810	locus44444.1	751.51 +	28742883	28743810	0,0,255	1	927	0
LR699161.1	28961223	28962156	locus44450.1	757.22 +	28961223	28962156	0,0,255	1	933	0
LR699161.1	28973488	28974391	locus44451.1	732.7 -	28973488	28974391	0,0,255	1	903	0
LR699161.1	28991930	28992833	locus44452.1	733.92 -	28991930	28992833	0,0,255	1	903	0
LR699161.1	32961355	32962441	locus44514.1	914.35 +	32961355	32962441	0,0,255	1	1086	0

Anole_lizard

	2	193798122	193799079	locus37.1	780.54 +	193798122	193799079	0,0,255	1	957	0
	3	15721862	15722747	locus40.1	705.1 -	15721862	15722747	0,0,255	1	885	0
GL343220.1		94617	95520	locus96.1	733.75 -	94617	95520	0,0,255	1	903	0
GL343220.1		113516	114419	locus97.1	731.68 -	113516	114419	0,0,255	1	903	0
GL343220.1		128250	129024	locus98.1	710.76 -	128250	129024	0,0,255	1	774	0
GL343220.1		149925	150825	locus99.1	732.8 -	149925	150825	0,0,255	1	900	0
GL343220.1		159930	160821	locus100.1	732.7 -	159930	160821	0,0,255	1	891	0
GL343220.1		174203	175094	locus101.1	732.74 -	174203	175094	0,0,255	1	891	0
GL343220.1		187800	188691	locus102.1	723.25 -	187800	188691	0,0,255	1	891	0
GL343220.1		200234	201125	locus103.1	727.93 -	200234	201125	0,0,255	1	891	0
GL343220.1		212181	213111	locus104.1	765.26 -	212181	213111	0,0,255	1	930	0
GL343220.1		226433	227324	locus105.1	727.08 -	226433	227324	0,0,255	1	891	0
GL343220.1		241426	242326	locus106.1	725.66 -	241426	242326	0,0,255	1	900	0
GL343220.1		254373	255273	locus107.1	731.84 -	254373	255273	0,0,255	1	900	0
GL343220.1		284822	285722	locus108.1	734.78 +	284822	285722	0,0,255	1	900	0
GL343220.1		299440	300334	locus109.1	723.63 +	299440	300334	0,0,255	1	894	0
GL343220.1		327484	328570	locus111.1	905.18 +	327484	328570	0,0,255	1	1086	0
GL343220.1		343063	344074	locus112.1	820.88 +	343063	344074	0,0,255	1	1011	0
GL343220.1		355553	356444	locus113.1	724.51 +	355553	356444	0,0,255	1	891	0
GL343220.1		365185	366106	locus114.1	767.85 +	365185	366106	0,0,255	1	921	0
GL343220.1		392927	393749	locus115.1	646.51 +	392927	393749	0,0,255	1	822	0
GL343220.1		397437	398328	locus117.1	716.61 -	397437	398328	0,0,255	1	891	0
GL343220.1		411614	412556	locus119.1	762.71 -	411614	412556	0,0,255	1	942	0

GL343220.1	422000	422936	locus120.1	772.93 -	422000	422936	0,0,255	1	936	0
GL343220.1	433763	434663	locus121.1	728.18 -	433763	434663	0,0,255	1	900	0
GL343220.1	449524	450424	locus122.1	727.67 -	449524	450424	0,0,255	1	900	0
GL343220.1	464902	465865	locus123.1	761.78 -	464902	465865	0,0,255	1	963	0
GL343220.1	476931	477852	locus124.1	737.99 -	476931	477852	0,0,255	1	921	0
GL343220.1	487819	488782	locus125.1	773.63 -	487819	488782	0,0,255	1	963	0
GL343220.1	508308	509229	locus127.1	747.49 +	508308	509229	0,0,255	1	921	0
GL343220.1	1575221	1576208	locus129.1	816.65 -	1575221	1576208	0,0,255	1	987	0
GL343220.1	1587051	1587942	locus130.1	732.62 -	1587051	1587942	0,0,255	1	891	0
GL343253.1	601063	601996	locus135.1	758.35 +	601063	601996	0,0,255	1	933	0
GL343253.1	618252	619146	locus137.1	730.13 +	618252	619146	0,0,255	1	894	0
GL343253.1	780204	781149	locus139.1	778.79 +	780204	781149	0,0,255	1	945	0
GL343253.1	934580	935480	locus140.1	735.63 +	934580	935480	0,0,255	1	900	0
GL343253.1	1098933	1099848	locus141.1	756.56 +	1098933	1099848	0,0,255	1	915	0
GL343253.1	1137573	1138464	locus142.1	725.15 +	1137573	1138464	0,0,255	1	891	0
GL343253.1	1475928	1476840	locus143.1	748.49 +	1475928	1476840	0,0,255	1	912	0
GL343253.1	1494215	1495115	locus144.1	740.4 +	1494215	1495115	0,0,255	1	900	0
GL343253.1	1899873	1900782	locus145.1	744.49 -	1899873	1900782	0,0,255	1	909	0
GL343253.1	1917521	1918412	locus146.1	730.88 -	1917521	1918412	0,0,255	1	891	0
GL343253.1	1931433	1932225	locus147.1	645.86 -	1931433	1932225	0,0,255	1	792	0
GL343253.1	1959004	1960042	locus148.1	846.78 +	1959004	1960042	0,0,255	1	1038	0
GL343253.1	1963640	1964537	locus149.1	740.71 -	1963640	1964537	0,0,255	1	897	0
GL343253.1	1975044	1975962	locus150.1	750.76 -	1975044	1975962	0,0,255	1	918	0
GL343253.1	1989115	1990021	locus152.1	747.43 -	1989115	1990021	0,0,255	1	906	0

GL343287.1	1752846	1753809	locus155.1	773.89 +	1752846	1753809	0,0,255	1	963	0
GL343438.1	218253	219153	locus175.1	728.6 +	218253	219153	0,0,255	1	900	0
GL343491.1	140613	141510	locus177.1	737.45 +	140613	141510	0,0,255	1	897	0
GL343491.1	153746	154643	locus178.1	738.26 +	153746	154643	0,0,255	1	897	0
GL343491.1	165893	166793	locus179.1	740.81 +	165893	166793	0,0,255	1	900	0
GL343491.1	172830	173730	locus180.1	722.27 -	172830	173730	0,0,255	1	900	0
GL343491.1	214856	215756	locus181.1	728.35 -	214856	215756	0,0,255	1	900	0
GL343491.1	226456	227356	locus182.1	728.9 -	226456	227356	0,0,255	1	900	0
GL343514.1	253785	254691	locus186.1	747.63 +	253785	254691	0,0,255	1	906	0
GL343514.1	268411	269341	locus187.1	759.26 +	268411	269341	0,0,255	1	930	0
GL343514.1	281254	282160	locus188.1	740.5 +	281254	282160	0,0,255	1	906	0
GL343514.1	304686	305592	locus190.1	740.14 +	304686	305592	0,0,255	1	906	0
GL343520.1	399815	400715	locus183.1	718.66 -	399815	400715	0,0,255	1	900	0
GL343520.1	434981	435863	locus184.1	707.47 -	434981	435863	0,0,255	1	882	0
GL344165.1	51383	52262	locus203.1	716.55 -	51383	52262	0,0,255	1	879	0
AAWZ020352	30170	31106	locus204.1	761.36 -	30170	31106	0,0,255	1	936	0
AAWZ020387	59	779	locus211.1	580.84 +	59	779	0,0,255	1	720	0

Mouse

CM000995.2	182000184	182001087	locus17.1	743.69 +	182000184	182001087	0,0,255	1	903	0
CM000996.2	64104486	64105458	locus22.1	785.51 +	64104486	64105458	0,0,255	1	972	0
CM000996.2	64116431	64117403	locus23.1	785.52 -	64116431	64117403	0,0,255	1	972	0
CM000996.2	64258960	64260181	locus26.1	1001.5 -	64258960	64260181	0,0,255	1	1221	0
CM000996.2	64339564	64340671	locus28.1	901.25 -	64339564	64340671	0,0,255	1	1107	0
CM000996.2	64490820	64491849	locus33.1	831.03 -	64490820	64491849	0,0,255	1	1029	0
CM000996.2	64537560	64538532	locus35.1	791.09 -	64537560	64538532	0,0,255	1	972	0
CM000996.2	64690659	64691631	locus41.1	791.08 -	64690659	64691631	0,0,255	1	972	0
CM000997.2	156338145	156339060	locus63.1	745.28 +	156338145	156339060	0,0,255	1	915	0
CM000998.2	108797192	108798125	locus74.1	765.89 -	108797192	108798125	0,0,255	1	933	0
CM000998.2	108842946	108843849	locus75.1	733.96 -	108842946	108843849	0,0,255	1	903	0
CM000998.2	108995538	108996441	locus77.1	739.25 -	108995538	108996441	0,0,255	1	903	0
CM000998.2	109046872	109047775	locus78.1	742.9 -	109046872	109047775	0,0,255	1	903	0
CM000998.2	109085848	109086706	locus79.1	700.55 -	109085848	109086706	0,0,255	1	858	0
CM000998.2	109156067	109156922	locus80.1	694.16 -	109156067	109156922	0,0,255	1	855	0
CM000998.2	109215501	109216404	locus82.1	737.9 -	109215501	109216404	0,0,255	1	903	0
CM000998.2	109286268	109287171	locus83.1	735.87 -	109286268	109287171	0,0,255	1	903	0
CM000998.2	109363578	109364481	locus85.1	738.41 +	109363578	109364481	0,0,255	1	903	0
CM000998.2	109452484	109453387	locus86.1	739.61 +	109452484	109453387	0,0,255	1	903	0
CM000998.2	109566217	109567102	locus87.1	732.64 -	109566217	109567102	0,0,255	1	885	0
CM000998.2	138532199	138533006	locus90.1	667.82 +	138532199	138533006	0,0,255	1	807	0
CM000998.2	151513132	151514023	locus92.1	724.66 -	151513132	151514023	0,0,255	1	891	0
CM000998.2	151561660	151562464	locus93.1	646.37 -	151561660	151562464	0,0,255	1	804	0

CM000999.2	123335559	123336537	locus105.1	802.7 +	123335559	123336537	0,0,255	1	978	0
CM000999.2	123385261	123386152	locus106.1	725.55 -	123385261	123386152	0,0,255	1	891	0
CM000999.2	123492507	123493398	locus108.1	727.02 -	123492507	123493398	0,0,255	1	891	0
CM000999.2	123609757	123610648	locus110.1	727.02 -	123609757	123610648	0,0,255	1	891	0
CM000999.2	123741348	123742239	locus111.1	733.71 +	123741348	123742239	0,0,255	1	891	0
CM000999.2	123815389	123816280	locus112.1	728 +	123815389	123816280	0,0,255	1	891	0
CM000999.2	123822813	123823704	locus113.1	726.23 -	123822813	123823704	0,0,255	1	891	0
CM000999.2	124061144	124062035	locus114.1	725.35 +	124061144	124062035	0,0,255	1	891	0
CM000999.2	124081695	124082586	locus115.1	724.68 -	124081695	124082586	0,0,255	1	891	0
CM000999.2	124138730	124139621	locus116.1	721.54 -	124138730	124139621	0,0,255	1	891	0
CM000999.2	124191595	124192498	locus117.1	734.08 -	124191595	124192498	0,0,255	1	903	0
CM001000.2	5480640	5481543	locus120.1	748.14 -	5480640	5481543	0,0,255	1	903	0
CM001000.2	7231326	7232229	locus122.1	745.26 -	7231326	7232229	0,0,255	1	903	0
CM001000.2	7312273	7313176	locus124.1	747.85 -	7312273	7313176	0,0,255	1	903	0
CM001000.2	7383984	7384914	locus126.1	766.13 -	7383984	7384914	0,0,255	1	930	0
CM001000.2	7417669	7418572	locus128.1	748.98 -	7417669	7418572	0,0,255	1	903	0
CM001000.2	7463968	7464871	locus130.1	746.14 -	7463968	7464871	0,0,255	1	903	0
CM001000.2	7550966	7551896	locus133.1	765.78 -	7550966	7551896	0,0,255	1	930	0
CM001000.2	7642128	7643058	locus134.1	760.59 -	7642128	7643058	0,0,255	1	930	0
CM001000.2	7671828	7672731	locus136.1	745.58 -	7671828	7672731	0,0,255	1	903	0
CM001000.2	7786150	7787080	locus140.1	764.66 -	7786150	7787080	0,0,255	1	930	0
CM001000.2	7876652	7877555	locus143.1	747.96 -	7876652	7877555	0,0,255	1	903	0
CM001000.2	7948287	7949217	locus145.1	767.19 -	7948287	7949217	0,0,255	1	930	0
CM001000.2	8102367	8103297	locus150.1	763.48 -	8102367	8103297	0,0,255	1	930	0

CM001000.2	8137904	8138807 locus151.1	748.69 -	8137904	8138807	0,0,255	1	903	0
CM001000.2	8184212	8185115 locus153.1	745.53 -	8184212	8185115	0,0,255	1	903	0
CM001000.2	8244624	8245554 locus155.1	765.17 -	8244624	8245554	0,0,255	1	930	0
CM001000.2	8304225	8305155 locus157.1	764.59 -	8304225	8305155	0,0,255	1	930	0
CM001000.2	8367459	8368389 locus159.1	766.43 -	8367459	8368389	0,0,255	1	930	0
CM001000.2	8399201	8400104 locus161.1	748.72 -	8399201	8400104	0,0,255	1	903	0
CM001000.2	8471468	8472371 locus163.1	746.79 -	8471468	8472371	0,0,255	1	903	0
CM001000.2	8667317	8668220 locus170.1	746.95 -	8667317	8668220	0,0,255	1	903	0
CM001000.2	8738845	8739775 locus172.1	766.83 -	8738845	8739775	0,0,255	1	930	0
CM001000.2	8801137	8802040 locus174.1	749.47 -	8801137	8802040	0,0,255	1	903	0
CM001000.2	8872179	8873109 locus176.1	763.4 -	8872179	8873109	0,0,255	1	930	0
CM001000.2	8907733	8908636 locus177.1	748.76 -	8907733	8908636	0,0,255	1	903	0
CM001000.2	9014749	9015679 locus181.1	763.75 -	9014749	9015679	0,0,255	1	930	0
CM001000.2	9074795	9075725 locus183.1	765.18 -	9074795	9075725	0,0,255	1	930	0
CM001000.2	9176901	9177831 locus185.1	765.75 -	9176901	9177831	0,0,255	1	930	0
CM001000.2	9206102	9207005 locus187.1	747.24 -	9206102	9207005	0,0,255	1	903	0
CM001000.2	9326023	9326953 locus191.1	764.63 -	9326023	9326953	0,0,255	1	930	0
CM001000.2	9373547	9374450 locus192.1	747.54 -	9373547	9374450	0,0,255	1	903	0
CM001000.2	9547710	9548613 locus198.1	749.47 -	9547710	9548613	0,0,255	1	903	0
CM001000.2	9642620	9643523 locus200.1	747.54 -	9642620	9643523	0,0,255	1	903	0
CM001000.2	9816781	9817684 locus206.1	749.47 -	9816781	9817684	0,0,255	1	903	0
CM001000.2	9886277	9887207 locus208.1	764.31 -	9886277	9887207	0,0,255	1	930	0
CM001000.2	9927623	9928526 locus210.1	749.43 -	9927623	9928526	0,0,255	1	903	0
CM001000.2	9976244	9977147 locus212.1	746.8 -	9976244	9977147	0,0,255	1	903	0

CM001000.2	10037234	10038164	locus214.1	764.73 -	10037234	10038164	0,0,255	1	930	0
CM001000.2	10087197	10088100	locus216.1	748.3 -	10087197	10088100	0,0,255	1	903	0
CM001000.2	10158651	10159554	locus218.1	753.88 -	10158651	10159554	0,0,255	1	903	0
CM001000.2	12581469	12582444	locus220.1	788.01 -	12581469	12582444	0,0,255	1	975	0
CM001000.2	12615232	12616207	locus221.1	791.23 -	12615232	12616207	0,0,255	1	975	0
CM001000.2	12651705	12652608	locus222.1	733.6 -	12651705	12652608	0,0,255	1	903	0
CM001000.2	12693997	12694900	locus223.1	732.95 -	12693997	12694900	0,0,255	1	903	0
CM001000.2	41399731	41400661	locus224.1	759.8 -	41399731	41400661	0,0,255	1	930	0
CM001000.2	41719004	41719919	locus227.1	742.04 +	41719004	41719919	0,0,255	1	915	0
CM001000.2	41744712	41745639	locus229.1	757.77 -	41744712	41745639	0,0,255	1	927	0
CM001000.2	41836880	41837807	locus231.1	757.92 -	41836880	41837807	0,0,255	1	927	0
CM001000.2	41937526	41938462	locus232.1	765.04 -	41937526	41938462	0,0,255	1	936	0
CM001000.2	42011791	42012727	locus234.1	758.49 -	42011791	42012727	0,0,255	1	936	0
CM001000.2	42194876	42195776	locus237.1	732.81 +	42194876	42195776	0,0,255	1	900	0
CM001000.2	42299924	42300755	locus239.1	695.34 +	42299924	42300755	0,0,255	1	831	0
CM001000.2	42429782	42430718	locus243.1	762.82 -	42429782	42430718	0,0,255	1	936	0
CM001000.2	42764437	42765355	locus244.1	747.33 -	42764437	42765355	0,0,255	1	918	0
CM001000.2	42903250	42904168	locus246.1	747.55 -	42903250	42904168	0,0,255	1	918	0
CM001000.2	43047188	43048106	locus248.1	746.62 +	43047188	43048106	0,0,255	1	918	0
CM001000.2	84940168	84941215	locus254.1	852.34 -	84940168	84941215	0,0,255	1	1047	0
CM001000.2	84994644	84995562	locus255.1	750.26 -	84994644	84995562	0,0,255	1	918	0
CM001000.2	85136239	85137202	locus261.1	787.5 -	85136239	85137202	0,0,255	1	963	0
CM001000.2	85221517	85222480	locus264.1	791.86 -	85221517	85222480	0,0,255	1	963	0
CM001000.2	85406375	85407290	locus268.1	751.81 -	85406375	85407290	0,0,255	1	915	0

CM001000.2	85558702	85559620	locus271.1	748.5 -	85558702	85559620	0,0,255	1	918	0
CM001000.2	85623629	85624547	locus276.1	760.34 +	85623629	85624547	0,0,255	1	918	0
CM001000.2	85737783	85738746	locus280.1	793.66 -	85737783	85738746	0,0,255	1	963	0
CM001000.2	85857546	85858461	locus286.1	751.9 -	85857546	85858461	0,0,255	1	915	0
CM001000.2	85951866	85952781	locus289.1	753.33 -	85951866	85952781	0,0,255	1	915	0
CM001000.2	86148041	86148965	locus298.1	760.91 -	86148041	86148965	0,0,255	1	924	0
CM001000.2	86225205	86226111	locus302.1	752.48 -	86225205	86226111	0,0,255	1	906	0
CM001000.2	86811114	86812032	locus305.1	757.2 +	86811114	86812032	0,0,255	1	918	0
CM001000.2	86884870	86885788	locus307.1	755.19 +	86884870	86885788	0,0,255	1	918	0
CM001000.2	86954253	86955177	locus309.1	761.59 +	86954253	86955177	0,0,255	1	924	0
CM001000.2	87037050	87037968	locus311.1	760.7 +	87037050	87037968	0,0,255	1	918	0
CM001001.2	3139124	3140009	locus317.1	721.15 +	3139124	3140009	0,0,255	1	885	0
CM001002.2	124428075	124429008	locus338.1	763.2 -	124428075	124429008	0,0,255	1	933	0
CM001003.2	79193979	79194933	locus345.1	788.47 +	79193979	79194933	0,0,255	1	954	0
CM001003.2	79292956	79293874	locus346.1	762.26 +	79292956	79293874	0,0,255	1	918	0
CM001003.2	79395839	79396766	locus347.1	763.21 +	79395839	79396766	0,0,255	1	927	0
CM001003.2	79491347	79492154	locus348.1	656.54 +	79491347	79492154	0,0,255	1	807	0
CM001003.2	130385799	130386705	locus351.1	743.8 -	130385799	130386705	0,0,255	1	906	0
CM001003.2	130418260	130419166	locus352.1	744.36 -	130418260	130419166	0,0,255	1	906	0
CM001003.2	130446198	130447098	locus353.1	736.22 -	130446198	130447098	0,0,255	1	900	0
CM001003.2	130471820	130472720	locus354.1	733.27 -	130471820	130472720	0,0,255	1	900	0
CM001007.2	51417979	51418882	locus389.1	735.54 +	51417979	51418882	0,0,255	1	903	0
CM001007.2	51460056	51460854	locus391.1	695.29 +	51460056	51460854	0,0,255	1	798	0
CM001010.2	17733237	17734167	locus403.1	758.77 +	17733237	17734167	0,0,255	1	930	0

CM001010.2	18184353	18185178	locus409.1	699.47 +	18184353	18185178	0,0,255	1	825	0
CM001010.2	18243569	18244394	locus410.1	769.85 -	18243569	18244394	0,0,255	1	825	0
CM001010.2	18325619	18326441	locus413.1	767.65 +	18325619	18326441	0,0,255	1	822	0
CM001010.2	18451538	18452324	locus415.1	733.92 +	18451538	18452324	0,0,255	1	786	0
CM001010.2	18597338	18598157	locus419.1	760.9 +	18597338	18598157	0,0,255	1	819	0
CM001010.2	18706327	18707149	locus421.1	767.12 +	18706327	18707149	0,0,255	1	822	0
CM001010.2	18947249	18948071	locus426.1	720.52 +	18947249	18948071	0,0,255	1	822	0
CM001010.2	19080489	19081311	locus430.1	722.02 +	19080489	19081311	0,0,255	1	822	0
CM001010.2	19175935	19176751	locus432.1	692.39 +	19175935	19176751	0,0,255	1	816	0
CM001010.2	19303725	19304643	locus434.1	752.41 +	19303725	19304643	0,0,255	1	918	0
CM001010.2	19393768	19394590	locus436.1	762.84 +	19393768	19394590	0,0,255	1	822	0
CM001010.2	19531211	19532060	locus440.1	681.07 +	19531211	19532060	0,0,255	1	849	0
CM001010.2	19811540	19812536	locus448.1	827.96 +	19811540	19812536	0,0,255	1	996	0
CM001010.2	19986867	19987782	locus452.1	749.56 -	19986867	19987782	0,0,255	1	915	0
CM001010.2	20029424	20030246	locus453.1	699.09 -	20029424	20030246	0,0,255	1	822	0
CM001010.2	20208229	20209144	locus456.1	757.96 -	20208229	20209144	0,0,255	1	915	0
CM001010.2	20267546	20268545	locus458.1	838.63 -	20267546	20268545	0,0,255	1	999	0
CM001010.2	20374938	20375772	locus462.1	677.49 +	20374938	20375772	0,0,255	1	834	0
CM001010.2	20540516	20541434	locus465.1	754.13 -	20540516	20541434	0,0,255	1	918	0
CM001010.2	20573828	20574746	locus467.1	758.67 -	20573828	20574746	0,0,255	1	918	0
CM001010.2	22547940	22548753	locus469.1	659.26 -	22547940	22548753	0,0,255	1	813	0
CM001010.2	22618320	22619133	locus472.1	658.26 +	22618320	22619133	0,0,255	1	813	0
CM001010.2	22958001	22958814	locus474.1	657.06 +	22958001	22958814	0,0,255	1	813	0
CM001010.2	23076612	23077425	locus476.1	656.3 +	23076612	23077425	0,0,255	1	813	0

CM001010.2	23149863	23150676	locus477.1	652.21 +	23149863	23150676	0,0,255	1	813	0
CM001010.2	23290933	23291842	locus481.1	733.58 -	23290933	23291842	0,0,255	1	909	0
CM001010.2	23359219	23360128	locus484.1	731.67 +	23359219	23360128	0,0,255	1	909	0
CM001010.2	23400955	23401864	locus486.1	736.73 +	23400955	23401864	0,0,255	1	909	0
CM001010.2	23441010	23441823	locus487.1	673.2 -	23441010	23441823	0,0,255	1	813	0
CM001010.2	23459674	23460487	locus489.1	699.6 -	23459674	23460487	0,0,255	1	813	0
CM001010.2	55592340	55593123	locus493.1	736.42 -	55592340	55593123	0,0,255	1	783	0
CM001010.2	57508782	57509715	locus494.1	771.92 -	57508782	57509715	0,0,255	1	933	0
CM001013.2	124127777	124128680	locus508.1	734.21 -	124127777	124128680	0,0,255	1	903	0
KB469738.3	197845	198778	locus755.1	763.2 -	197845	198778	0,0,255	1	933	0
KB469742.1	904911	905817	locus758.1	83.15 -	904911	905817	0,0,255	1	906	0

Table S2. PCR primers used to amplify four V2R genes of *Polypterus senegalus*

Gene	Forward	Reverse
<i>V2R2</i>	5'-CCAACGTCTTCTGATTGTG-3'	5'-GACTCCGTGATGTTACTGCT-3'
<i>ancV2R</i>	5'-GCAAGACGAGATCAATGTG-3'	5'-TTGTGCTGATGTATCCTGG-3'
<i>f-V2R65700</i>	5'-TGTATGACACTGCTGAAGTGC-3'	5'-CTTTCCGTGCATACCGATA-3'
<i>t-V2R56889</i>	5'-GCAGGTACTGAGATTGTGTAGG-3'	5'-CAATGCTGTCACTGACAGAC-3'

MEYLSFEDTTGIIISLALFGLICTLITIVIFAYRNSPIVKANNSLSFLILFSLALCFLCSVTFIQTPTWMSCLRHTVFGITFVLSISCSILGKTVVLI AFKAKLPANMMTKWFGIQQKALILICTGVQIISVWVLIAPPLPM
NKIHKQSSRIILECNVGSVAVSLVLYGIGLSCICFLVLAFLARLKNDFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSFGLLCIPAPKCYIILLRPEKNTKQMLMGRSS
>Western_c_lawed_frog, locus782.1

MCVPKVIIFLSYQEPGLIFLAVTVIIFLITLISLIFIMKYRGTPIKATNRELSYLLVSLCFLCCLIFIPAGSVPMTCLRQTLFMVVSISISSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
SPFPQVNAEIKHLZRECHGFLYVTLGFMFLAMVFFAAFLNAGLILITSLMFLCSVWVSFIAPHLSTKGYVTSVQIFAILASSAGLACIFLPCYIILLRPPDRNSRGLTSGASR
>Caecilian, locus36862.1

CTTCPEDQWSPNRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPPKVTCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus36730.1

CITCPEDQWSPNRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPPKVTCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus689.1

CIKSEYKSNTEQDGPCKPKNINFLSYDILGATLSSITILCAVTCVAVLIGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLGEIISIVMLSNPPFSETDLSDPENIILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus638.1

CIKSEYKSNTEQDGPCKPKNINFLSYDILGATLSSITILCAVTCVAVLIGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLGEIISIVMLSNPPFSETDLSDPENIILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus582.1

CERCSEYKSNTERTECLLKAIFLSDYDITMGASLTAIAFLITFASVVLGFIKRYWETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLGEIISIVMLSNPPFSETDLSDPENIILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Small-eyed_fabbitsfish, locus128.1

CLTCPLEWSDIKRKHDLKIEEFLSLEETLRVLTALLGLVCLTSVTFAYYHRDITIVKANNSDLSFLLLVALLCFLCSVTFIPEPSVMSCLRHMMAFITFVLCISCVLGTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
LTLIQCLICTIWLSPPPYLETISEYFTRVFECHVGSVAFAVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27498.1

MGIALTTLSSGTCISICVLTIFIIYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGKPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEARITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27501.1

MGIALTTLSSGTCISICVLTIFIIYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGKPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEARITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27496.1

MGIALTTLSSGTCISICVLTIFIIYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGKPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEARITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27496.1

MGIALTTLSSGTCISICVLTIFIIYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGKPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEARITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27496.1

MGIALTTLSSGTCISICVLTIFIIYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGKPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEARITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus40354.1

CIKCPDDLWNSAGKNOQVCLKEIEFLSYDESMGIVLITIASLFGASISVCLLIIIFHYRNTPIVVKANNSLSFLLLISLTLFCVCLCFIGQPSDITCFMRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LTFIQSMICLWLAAPPFPKNSKYLNKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27514.1

MKEIEFLSYDESMGLTITLTTALTVGLSCLGILSIFIIHYRHTPIVVKANNSLSFLLLASLTLFCFALCFIGQPSNTSCLRHMVGFISVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPP
VPNKNTIKQSVIIFECDDVGLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27524.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27417.1

CSRLCPDFNSNQGKNOQVCLKEIEFLSYDESMGIIITLTTALGTCLSVAILAIFIQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
FTLIQAVICLWFCFPPGPAKNIKQNSKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27517.1

CIQCPDQWSPNRNCCLKEVEFLSYDAMGIIITLTAALFGASFCVMAIIFIIHYRHTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LTCVQSLICTFWLTTAPPFPNTLSONAKLILECNISGIFGCLGILSIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27515.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27510.1

CIKCTSEFPNSGRNECVLKEIEFLSYDESMGIIITLTTALSGACLSTGLVAVFIHYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
FTIQLSICIWLTTAPPFPKNSKYLNKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus40336.1

CIRCLPEFNSNRDSCVCLKEIEFLSYDDMGIIITLTAACFGACLSTGLVSVLFIHYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LAFIQALICLWMLTTAPPFPKNIKQNSKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus40342.1

CIRCLPEFNSNRDSCVCLKEIEFLSYDDMGIIITLTAACFGACLSTGLVSVLFIHYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LAFIQALICLWMLTTAPPFPKNIKQNSKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus40347.1

CIRCLTEFNSNRDSCVCLKEIEFLSYDDMGIIITLTAACFGACLSTGLVSVLFIHYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LAFIQALICLWMLTTAPPFPKNIKQNSKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27454.1

CIKCPDQWSPNRNCCVCLKEVEFLSFTVETIIGLTVSSGCVLCLSTIAVFIHYRNTSPLKANNLESLIILSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFF
LTLFQILCIWMLTTAPPFPKNIKQNSKIILEDIGSLIAGFCTLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27452.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27461.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27464.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus27456.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Redfish, locus40375.1

MGMLTAVIALGACMLFVLIIFQYRSTPIVVKANNSLSFLLLISLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Mouse, locus248.1

CVQCPESHYANSEKHNCLQKVSFLAYEELGMLITITLADFSVLTAVLVVFKHRDTPIVKANRNSVLSYLLTLIICFLSCLLYIROPNTATCIIQOAFGLTFTVALSTVLAKAVVITAFKTSAPRMVRLVSGAPNSIPI
CTLIQILIIYGLWATSPFPIDQNAHVEHGHIIIMCNKGSVAFAVYCVLGLGVLGAGVSVFAFLARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Zebrafish, locus480.1

MGITLTTALSGTCLSIGLMIIFQYRNTPIVVKANNSLSFLLLVSLTLFCVCLCFIGQPSHVTCLRHVMGFSVLCISICLVKTIIVVIMAFKATLPGNNIMKWFAGAAQRGTVFFFTIQLSICIWLSTAPPFPVNSKNINTK
IILECDIGSLTGFSCLLGYGLLACIFLAFARLNDPDTFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus661.1

CIKSKYKSNTEQDGPCKPKNINFLSYDILGATLSSITILCAVTCVAVLIGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLGEIISIVMLSNPPFSETDLSDPENIILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus658.1

CIKSKYKSNTEQDGPCKPKNINFLSYDILGATLSSITILCAVTCVAVLIGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLGEIISIVMLSNPPFSETDLSDPENIILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus660.1

MNYLSYDEHLSGTFSSIVLSITCAVILGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIVCSLGEIISIVMLSNPPFPE
DEILSDADITILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Western_c_lawed_frog, locus750.1

MNYLSYDDHLSGTFSSIVLSITCAVILGFIKYRETPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISVSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIVCSLGEIISIVMLSNPPFPE
DEILSDADITILLCEGNSGFFFCIIGYIGTLALLSFAAFLAKDFPDRFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40469.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

CIKCPANQNSNQRDACPIMIFLSEYELLGIVLILISIVFFLITAVILGIFIYRDPPIVRANRNNRSLYLLISLMSFLCFLCFLVIFIGRPTQICCLLRQTVFVITFISLSSVLAKTIVVIAFNATKPKGSLKHYVGTQALIAIVLVIV
CSLIQTVLCLAWLFTAPPFPYLMKSEIGLITLCEGNSIVAFVYCVLGLGVLGAGVSVFAFLARLNDPDSFNEAKITFSMLGFCVSWGAFVAPYLSKSGSRMVAVEIFAILSSSAGLGCIFIPKCYIILLRPPDRNSRGLTKNLNE
>Caecilian, locus40329.1

>Zebrafish, locus521.1

CTVCPDEFWSNLKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFKSSRPGSGAMKWFAGAAQQRCTVLV

>Zebrafish, locus526.1

CTVCPDEFWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Zebrafish, locus525.1

CTVCPDEFWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Zebrafish, locus532.1

CTVCPDEFWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Zebrafish, locus522.1

CTVCPDEFWSNLKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>marker, zebrafish_16_6_F

CPDFFWSNLKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Zebrafish, locus524.1

CTVCPDEFWSNLKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Cloudy_catshark, locus87.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Great_white_shark, locus10.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Brownbanded_bambooshark, locus519.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Thorny_skate, locus24.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Little_skate, locus5.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Smalltooth_sawfish, locus20.1

CFQCPEPWSNFKNDKQCPKPEIEFLSYEDPLGSLTTASLLGTGCFACVMIIFTHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>marker, fugu_15_1_F

CPPEFWSNDRGTACVPRQLDFLFSNETLGVALTAVAVSGAVTAVFVFLHYRHTPMVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Reedfish, locus27554.1

MCSCLPDYNSNEQKDHCVLKIIEFLSFGIEGIIIVLTCVSLFGVTLTALVASIFFYKPEPVPVKANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Reedfish, locus40520.1

CLSCPLDYNSEKQDHCVLKIIEFLSFGIEGIIIVLTCVSLFGVTLTALVASIFFYKPEPVPVKANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Whale_shark, locus79.1

MGIIIVLAFAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Whale_shark, locus77.1

CIKCPWEYRSNRRDEICLKIIEFLSFGDLGVLVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Whale_shark, locus61.1

MMGIIFVTALLGVSITGVFLFYHHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Cloudy_catshark, locus43.1

HKCPWYRSNDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Great_white_shark, locus29.1

CINCPLEYSNDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Smalltooth_sawfish, locus36.1

MGITLLVALLGASITMGVFTFYHHRNPPIVRANNSSELSFLLLSLKLCLFVLLFIGOPQLWTCQLRHAVFGISFVLCISSILVKTVMVIAVFNSSRPGSGAMKWFAGAAQQRCTVLV

>Caecilian, locus40504.1

CVSCSEDORPNHERNSICPKLITFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40497.1

CVSCREDORPNHERNTICPKLITFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40502.1

CVSCSEORPNHERNSICPKLITFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40494.1

CVSCREDORPNHERNTICPKLITFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40499.1

CMPCREDORPNHRDTCIPKLIIFLFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40498.1

CMPCREDORPNHRDTCIPKLIIFLFLSYEDSLGNLTTSSIFFLINVILRIFITYRDPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Caecilian, locus40492.1

CIKCPEDQNSKDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Spotted_gar, locus147.1

CFQCPLDWSNDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Spotted_gar, locus148.1

CFKCPDWSNDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Spotted_gar, locus152.1

CFQCPLDWSNDRDQKILKEVFLSFAELMGIIIVLTCVSLFGVTLTALVAGLSTIGVFLFYHHRNPPIVRANNSSELSFLLLSLMLCFSCSLTFIGEPQSWCTIRHTTGITFVLCISCLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1009.1

CFKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1007.1

CFKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus997.1

CFKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1014.1

CFKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus908.1

CFKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

>Western_c_lawed_frog, locus1011.1

CLKCPINQWPNLRITCTDKVIITLVSHEPLGASLALLSVLFCIMTCLVMIIFTKYRNTAVKANNRDLISYLLVSLKICFCLNLMFIGHPRHVTCLIRQTVFGVIFSVISSLAKTIVVLMFRATLPGNNIMKWFAGPTQRLSVLA

MALITISLWFLAVLVVFKHRDTPVKANNRSLYIILLTLFISFLSLLFVGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPICTLIQIICGIWLLTSPFFIDQDQAEHGHI
IVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus234.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFICLLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus237.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFISFLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus244.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFISFLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus246.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFISFLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus224.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFISFLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus403.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFISFLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Mouse, locus90.1

MALGFVLTAGVLGVFKYHHTPIVANKNOVLYIILLTLFALFCLPFLFVIGVNTATCIIQDSTFSLFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPICTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMG
GSAVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Redfish, locus40408.1

MGITLTFISFAGCVTTAVAVITFRQTPVVRANMELSFLLLLFLVLCFLCLPFAIGEPTNISCVRHRTLFGISFALCISCLGKTVVLMFAFRATLPGNNVMKWFGLAQQRASVFICTSIQIIVICWLLTSPFYAIPNSKFNHNSK
IILECSVGSAGFVCLVSIYGLFASMCVIAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus40406.1
CLKCSLEKSNKQKQKIPSEIYFSLYDQDGLGSLAFISFAGCVTTAVAVITFRQTPVVRANMELSFLLLLFLVLCFLCLPFAIGEPTNISCVRHRTLFGISFALCISCLGKTVVLMFAFRATLPGNNVMKWFGLAQQRASVFI
CTSIQIIVICWLLTSPFYAIPNSKFNHNSKIILECSVGSAGFVCLVSIYGLFASMCVIAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Japanese_eel, locus260.1
CYRCPDWFNSQLRDRCPKPEIEFLSFEHPELGLISLTTISVLGACICAVTLVSVFARHNTPVVKNANSELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
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>Cloudy_catshark, locus91.1
CLCKPLEYMSNQQORCVLKKIEFLSFEHPELGLISLTTISVLGACICAVTLVSVFARHNTPVVKNANSELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
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>Japanese_eel, locus82.1

MALAAAILGALSTAATAAIVFLHRRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus103.1
CIKCHIEYWPNEEKTCKIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus102.1
CIKCHIEYWPNEEKTCKIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus101.1
CIKCHIEYWPNEEKTCKIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus1018.1

MKERCLPKIIFLSYDEPLGSSLACISVLFCLITFSAFCLFIAKRKTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus1020.1
CLCKPEDWPSMKERCLPKIIFLSYDEPLGSSLACISVLFCLITFSAFCLFIAKRKTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Anole_lizard, locus211.1

MVKANNRDLTYMLVSLFLSFLSFLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus444.1

MHPNSARDRLCKPTEFLSYEELPAILLASTGIVSISLIPISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Japanese_eel, locus272.1
CYRCPDWFNSQLRDRCPKPEIEFLSFEHPELGLISLTTISVLGACICAVTLVSVFARHNTPVVKNANSELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Western_c_lawed_frog, locus177.1
CLCKEDTEWPNQEKTCIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Anole_lizard, locus183.1
CTKPLDQHPKQNRCPKNTFSLYEELGMLNLSIALLSITTCVFGVITNOQTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Anole_lizard, locus184.1
CNKCPDQHPKQNRCPKNTFSLYEELGMLNLSIALLSITTCVFGVITNOQTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Mouse, locus354.1
CVRCPDQHPKQNRCPKNTFSLYEELGMLNLSIALLSITTCVFGVITNOQTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus40372.1
CECKOPYFWSNPERTQCPKVEEFLSHEDALGIALTAVLSGAALSLAVLAVFYIYRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus40371.1

MGITLTAVALSAGALSLAVLAVFYIYRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus40368.1
CDKCPDQHPKQNRCPKNTFSLYEELGMLNLSIALLSITTCVFGVITNOQTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus27689.1
-MKCPDQHPKQNRCPKNTFSLYEELGMLNLSIALLSITTCVFGVITNOQTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Coelacanth, locus412.1
CLCKPDDWNSQNEQNECPKTEFLVYEDLAGAALAVSIFCALASTAVLAVFYIYRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Spotted_gar, locus110.1

MGITLTAVALSAGALSLAVLAVFYIYRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Spotted_gar, locus113.1
CVCKPESHYANSEKHNCKQKVSFLAYEELPMALITAIACFSLLTALVAVFVKHRDTPVKANNRSLYIILLTLFICLLSLLFVIGPNTTTCILQQTAFGLIFVLSLTVLAKAITVIAFKAIVPARMVRLVMSRAPNFIIPI
CTLIQIICGIWLLTSPFFIDQDQAEHGHIIVNMGSTVAFHVLGVLCSLALGSYMAFLSRNLPDTPNEAKLFSFMQVFFCVWITFLPVYHSTKGMVMAVEVFSILASSIALLGLNFAPKCYIILLRPEKISCIDIRHXYT
>Spotted_gar, locus105.1
CIKCHIEYWPNEEKTCKIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Spotted_gar, locus128.1
CIKCHIEYWPNEEKTCKIEKQTEFLSYDDPLTLVFIIVLSVSVLTVLIGIFISFRDTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Cloudy_catshark, locus78.1

MALNIAVIFRYRETPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>Redfish, locus40339.1
CFCTPPEYWSNHERSECIQKTEFLSYDDGMLTATLSALGACLSLVLAIFHRRTPVVRANMELSFLLLSLTLFCLCSSLFVIGPQORWTCQLRHAAGFISFALSISCLVKTIVVMAFAKARPGNTKWFVQOQRGTVLA
FTIIQAVICVAVLTAASPVYKNTLRONSKIIYQCAVGSIAAGFALLGYIGLLAAISLFLAFLARLKNLDPNFNEAKLFTFMSLIFCAVWITFIPAYISTPGKYTVAVELFAILASAGLLFCIFAPKCYIILLRPEKNTKXHMGGKNV
>marker, zebrafish_16_1_F

CPDEFWSSPKKNQCPVKDFEVLTYGDLPLGSLTASLLGSCISAVVIFAHHRHTPVVRANSELSFLLVSLKLCFLCVLLFIPGQPLWTRCLRHAVFGISFVLCISSILVKTMMVIAVFKSSRPGKSMKWFQSHQQRCTVLTALQVVICAVLWNASPKPKYNNQYTSKIVYECTISVGVFAMLLGYIGLAAVFSFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLAAIFAPKCYIILLPERNTKKAINGRA-->Reedfish, locus40475.1

MGILLVLSLFGAFITLITLTYLNRTPVVRANSELSFLLFSLTCLFCLSTFIGEPEWSEMLRHTAFGITVVMCISCVLGTIVVMAFRATIPGNINMKWFGVMQORLSVCSFTLIQILICLLWLLTSPFPKPKIMRHSTETIILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40481.1
CVKCPLEYKANKQKQDCILKEIEFLSFEENMGILLVTLALLGASLTIAIGVVFYKRDPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLVQVICTLWLMVSPFPKPKMAHTEIIEILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP>Reedfish, locus40483.1

MGILLVTLALLGASLTIAIGVVFYKRDPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLIQVICTLWLLVSPFPKPKMAHIAEIIILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40479.1
CLCKSLEYKANKQKQDCILKEIEFLSFEENMGILLVTLALLGASLTIAIGVVFYKRDPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGAMQORLSVCMFTLIQVICTLWLMVSPFPKPKMAHTEIIEILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40471.1

MGILLVALALLGASVTIAIFVYFRDTPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLIQVICTLWLLVSPFPKPKMHKHYSEIIILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40478.1

MGILLVTLALLGAFITIAIFVYFRDTPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLIQVICTLWLLVSPFPKPKMHKHYSEIIILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40513.1

MGILLVTLALLGAFITIAIFVYFRDTPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLIQVICTLWLLVSPFPKPKMHKHYSEIIILECDLGSKTAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus40492.1

MGILLVTLALLGAFITIAIFVYKRDPVIVKANSELSFLLFSLTCLFCLSTFIGEPTWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGATQORLSVCMFTLIQVICTLWLLVSPFPKPKMHKHYSEIIILECDLGSATAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP-->Reedfish, locus40486.1

MCYEEYKSNKQKQDCILKEIEFLSFEEMGILLMVLTVLGSALTSMAVIFVYFRDTPVIVKANSELSFLLFSLTCLFCLSTFIGEPEWSEMLRHTAFGITVFLCISCVLGTIVVMAFRATIPGNINMKWFGQIQRLSVCTFTLVQVILCLLWLLVSPFPKPKMHKHYSEIIILECDLGSATAFYAVLGYIGLAAFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILLPERNTKKNLMGKMP5>Reedfish, locus27495.1

MKQIEFLSYEETMGIIAASAFSGSLFVIVFYNRHTPVIVKANSELSFLLVSLKLCFLCVLLFIPGQPLWTRCLRHAVFGISFVLCISSILVKTMMVIAVFKSSRPGKSMKWFQSHQQRCTVLTALQVVICAVLWNASPKPKYNNQYTSKIVYECTISVGVFAMLLGYIGLAAVFSFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLAAIFAPKCYIILLPERNTKKAINGRA-->Mouse, locus176.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus208.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus150.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus159.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus126.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus133.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Mouse, locus183.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Western_c_lawed_frog, locus457.1

MISSPVPLFLLGIFCYKTPVIVRANNYSCLLILLSLFCLFCLSGFIGYPOPEKLLRQVAFGMVAFALCISCVLAKTITVIAFNATKPNRKRKMTGVRVSYCVIGICVLQILFVWLLVSPFPPEYDTGKPGIIVCNQEGSPTAFWMLGYLGLAMISFIVAFLARLNDPWFNEAKITFSMLAFSLVWVSFIPAYLSARGMYTVAEVEIFAILSSWAVGVCIFVPCYIIVLFPKNVSRKHILGK-->Coelacanth, locus377.1
CQKRDDEWSENERHDECPKLIIDYLSYELMGTIFAVISLSLTFPALIYTFIKYRDTPLVKNPNREISYLLVGLMLSLFCLSLFIGRPTVTCMMRQTVFGIIFALFVSCVLAKTIMVIAFNATKPNMMLKWKVWPKLSISIVFV
CTVIQISICIAWLSAPPPEKDMKSGIOMIIGNEGSTAFWCVLGYMLLAIISFIVAFLARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Western_c_lawed_frog, locus494.1
CHPCSMOTWMLQDRCLPRTEFLSYDPLGYSLAAISFSSLPLGLVGFVHQQKTPVIVRANNYSCLLILLSLFCLFCLSGFIGYPOPEKLLRQVAFGMVAFALCISCVLAKTITVIAFNATKPNRKRKMTGVRVSYCVIGICVLQILFVWLLVSPFPPEYDTGKPGIIVCNQEGSPTAFWMLGYLGLAMISFIVAFLARLNDPWFNEAKITFSMLAFSLVWVSFIPAYLSARGMYTVAEVEIFAILSSWAVGVCIFVPCYIIVLFPKNVSRKHILGK-->Western_c_lawed_frog, locus417.1
CFPCTAETWPNDRTECLPKPVDLFEELGITTICTTIFSSFTLTLCLVIFRYKDTAIVKANRDLTYLLVGLMLSLFCLSLFIGRPTVTCMMRQTVFGIIFALFVSCVLAKTIMVIAFNATKPNMMLKWKVWPKLSISIVFV
CTNLQILFVWLLVSPFPPEYDTGKPGIIVCNQEGSPTAFWMLGYLGLAMISFIVAFLARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Spotted_gar, locus137.1

MGIIISAVSLGSCFTIAVASIFVYRNTPVIVKANSELSFLLVSLKLCFLCVLLFIPGQPLWTRCLRHAVFGISFVLCISSILVKTMMVIAVFKSSRPGKSMKWFQSHQQRCTVLTALQVVICAVLWNASPKPKYNNQYTSKIVYECTISVGVFAMLLGYIGLAAVFSFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLAAIFAPKCYIILLPERNTKKAINGRA-->Mouse, locus191.1
CVNCEYQYANTEQNKCIQKGVTFSLYEDPLGMLALMAFCFAFTAVLVCVFKHHDTPVIVKANRSLYSILLLSMSCFLCSFFFIGHNPRATCVLQITFIVTAVSTVLAKTVTVLAFKVDTPGRRLNLFVSGTPNYIPII
CSLLQCLSAITLWLEVPDFVIDEHSOQHIIIVCNKGSVTAFCVLYGLAACLALGSFTLAFALAKNLPDAFNEAKFTFSMLVFFSVWVTFPLVYHSTGKVMVAVEIFAILASSAGMLGCFAPKVIYIILMRPVNSTQIKIEKESYF
>Brownbanded_bambooshark, locus520.1
CIQCPEDYNSNREDCVHKIEYGLYNDPLGALIALSIFGACVATAIAYLIRKDTALVKANNGLSFLVLSVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEDTEKFLSPQQRIIALI
FVSHACLCAWLLIIPYVKNQTSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Whale_shark, locus98.1

MALIALSIFGACVAAAIAYVLRKDTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALIFVSHACLCAWLLIIPYVKNQTSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Great_white_shark, locus11.1

MTLIALSIFGACTAAAIAYVYRNTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALIFVSHACLCAWLLIIPYVKNQTSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Cloudy_catshark, locus79.1

MALIALSIFGACTAAAIAYVYRNTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALIFVSHACLCAWLLIIPYVKNQTSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Thorny_skate, locus23.1

EGGGKGLGPHQORMLTVSLTCHACLTAWLLIFPPYIKNTLSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Little_skate, locus49.1
CIQCPEDYNSNREDCVHKIEYGLYNDPLGALIALSIFGACVATAIAYLIRKDTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALI
FTLCHACLTAWLLIFPPYIKNTLSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Elephant_shark, locus27.1
CIECLEYDYSNREDCVHKIEYGLYNDPLGALIALSIFGACVATAIAYLIRKDTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALI
FIFCHACLCAWLLIFPPYIKNTLSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Small-eyed_rabbitfish, locus110.1
CIECLEYDYSNREDCVHKIEYGLYNDPLGALIALSIFGACVATAIAYLIRKDTALVKANNRGLSFVLLFSLVICFLSSVVFVGEVPAWSCMTRQVLLAISFATCLSCMLSKAVNMLKARKTKPEGTEKFLSPQQRIIALI
FIFCHACLCAWLLIFPPYIKNTLSQNIKIIMECNEGSVFLCCVLYGDLALAAICFVAFIARLNDPWFNEAKITFSMLIFVSWVLAIFAPYVSTRGKYMVAEVEIFAILASSGTLCTIFCSKCYIILLMSDRNTEYLLGKGTK
>Reedfish, locus27509.1

MGITLTAASAVCLSVIVLVSFIHYRHTPVIVKANSELSFLLVSLTCLFCLSTFIGHPTLTKLRHLFGISFVLCISSILVKTMMVIAVFKSSRPGKSMKWFQSHQQRCTVLTALQVVICAVLWNASPKPKYNNQYTSKIVYECTISVGVFAMLLGYIGLAAVFSFLAFLARLNDPWFNEAKITFSMLIFCAVWITFIPAYISSPGKYTVAVEIFAILASSFGLLAAIFAPKCYIILLPERNTKKAINGRA-->Reedfish, locus27509.1

>Reedfish. locus27468.1

MGITLTATAIFGSCLSVSVLIVFIYRNTPVVKANNSELSFLLLSLTLCLFCLSCFIFGEPNSASCTLRHVVFISVFLSICISILVKTIVVIMAFKATLPGNNMMKWFVGTQQRGTVMFTFIQSLICVWLTSAFFPFSKNTKHQNSK
VILECDVGLSGFSCLLGIGLACISFVLAFLARLNPDTFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLGAIFAPKCYIILFKPERNTKALMGR---

>Reedfish. locus27482.1

MKQIEFLSYEETMGIIAASAI FGSSLSFVGLVIVFVYRHTPVVKANNSELSFLLVLSLCLFCLSCFIFGQPSQNLCLRHIMFGVSVFLCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFLFTFIQSIICIIWLITAPP
APSKNTKYQNAKIIIECDIGSVTGFSLGIGLGLSLVCFVLAFLARLNPDTFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLMAIFAPKCYIILFKPERNTKVMGRYDK---

>Reedfish. locus27487.1

MKQIEFLSYEETMGIIAASAI FGSSLSFVGLVIVFVYRHTPVVKANNSELSFLLVLSLCLFCLSCFIFGQPSQNLCLRHIMFGVSVFLCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFIQSIICIIWLITAPP
APSKNTKYQNAKIIIECDIGSVTGFSLGIGLGLSLVCFVLAFLARLNPDTFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLMAIFAPKCYIILFKPERNTKVMGRYDK---

>Reedfish. locus27491.1

MCLMKQIEFLSYEETMGIIAASAI FGSSLSFVGLVIVFVYRHTPVVKANNSELSFLLVLSLCLFCLSCFIFGQPSQNLCLRHIMFGVSVFLCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFIQSIICIIWLITAPP
IFECQVSGVTFGSCLLGIGLACFCFALAFARLNPDTFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLMAIFAPKCYIILFKPERNTKRALMGRGA---

>Reedfish. locus40381.1

MGIALTSLAALGMCVSVLAVFIHFRRETAVVKANNSELSYLLVLSLCLFCLSCFFIGEPHSVTRCLRHVAFGISVFLCISILVKTIVVIMAFKATLPGNNRIMKWFVGAOQRGTVFFTSVETLICIILWLVIAAPPVPAKNTNHEHSK
IILECYVSGITGFCVGLGYIFFLACICFALAFARLNPDSFNEAKITFSMLIFLAWVIAFIPAYVSSPGKYTVAVEIFAILASSFGLLTAIFTPKCYIILKPELNKRSLMGRIN

>Reedfish. locus40378.1

MGITLTTIAALGICVSVLAVFIHFRRETAVVKANNSELSYLLVLSLCLFCLSCFFIGEPHSVTRCLRHVAFGISVFLCISILVKTIVVIMAFKATLPGNNRIMKWFVGAOQRGTVFFTSVETLICIILWLVIAAPPVPAKNTNHEHSK
IILECNVSGVTFGACVGLGYIFFLACVCFVLAFLARLNPDSFNEAKITFSMLIFLAWVIAFIPAYVSSPGKYTVAVEIFAILASSFGLLTAIFTPKCYIILKPELNKRSLMGRSTN

>Reedfish. locus27478.1

MGITLTTTALFGSCLSLVGLVFLYRNTPVVKANNSELSFLLLALNCLFCLSCFIFGQPSQNLCLRHVLFGISFALCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQSIICIIWLITAPPVPAKNTNYQNTK
IILECNVSGLMGFFLLGYIGLACVCFVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>Reedfish. locus27457.1

MEYWSYERNKCVIREVEFLSYEDAMGITLSTALFGAELSVGLVAVFIHHRNTPPVKANNSELSFLLVLSLCLFCLSCFIFGKPSDLTCLRHRMFGVSVFLCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRSTVFFCTFIQ
SLVCTWMLTAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKAMMSRTLS

>Sterlet. locus293.1

MGISLMTIALFGAGLSVGLVFIYRNTPVVKANNSELSFLLVLSLCLFCLSCFIFGQPTNLTCLRHRVFGISVFLCISILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIFECNAGSFTGYSCLLGYIGLACTCFALFAFARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_13_F

CPYEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>Zebrafish. locus531.1

CLVCPYEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>Zebrafish. locus530.1

CTVCPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_12_F

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_11_F

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_10_F

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_9_F

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. zebrafish_16_8aa

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. cichlid_16-8aa

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. cichlid_16-4aa

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. medaka_16_2_F

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. cichlid_16-3aa

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. cichlid_16-1aa

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. pufferfish_16_3_Y

CPDEFWSNKEKDYCVKQVEFLSYEDPLGISLTTASLLGTCFALVMVIFSHHNTPIVRANNSELSFLLVLSLCLFCLVLLFIGQPQLWTCQLRYAVFGISVFLSVCSILVKTIVVIMAFKATLPGNNMMKWFVGAOQRGTVFTFIQVVICIWLITAPPVPAKNTNYQNTK
IIVVICIWLITAPPVPAKIPFTQFALIFECNVGSLTGFSCLLGIGLGLASLFCVLAFLARLNPDSFNEAKITFSMLIFCAVWVIFIPAYISSPGKYTVAVEIFAILASSFGLLVAIFAPKCYIILFKPERNTKALMGRVAVT

>marker. fugu_16_1_F

CPEDFWSSPQRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
IQAAICLWILLASPPHNTYQNSRIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRV---

>marker.fugu_16_4_F

CPEDFWSSPQRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
VQAAICTAWLVSYSPPHNTYQNSRIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRV---

>marker.medaka_16_1_F

CPEDFWSSQNDHCVPKTEFLSYDDPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
VQAAICTAWLVSYSPPHNTYQNSRIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRV---

>Japanese_eel, locus262.1

CYRCPVDFWNSQLRDRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTIIOAVICVAMLTAASPPVYKNTLRONSKIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRADAP

>Japanese_eel, locus274.1

CYRCPVDFWNSQLRDRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTIIOAVICVAMLTAASPPVYKNTLRONSKIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRADAP

>Japanese_eel, locus270.1

CYRCPVDFWNSQLRDRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTIIOAVICVAMLTAASPPVYKNTLRONSKIIEYECVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRADAP

>Spotted_gar, locus161.1

CFKCPQIEYWSNRSRQDCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTVIOALICIIWLTASPPFKNTQYNSKIIEFCVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Spotted_gar, locus163.1

CLKCPDPPDFWNSRQDCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTVIOALICIIWLTASPPFKNTQYNSKIIEFCVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Spotted_gar, locus154.1

CFKCPDPPDFWNSRQDCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTVIOALICIIWLTASPPFKNTQYNSKIIEFCVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAGL

>Spotted_gar, locus166.1

MDYWSPPGRDQVCKTEFLSYHDPGLISLTTISFGACTSVGLIIFYYRNTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
ALICIIWLTASPPFKNTQYNSKIIEFCVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Reedfish, locus40365.1

MGIALTAVSLGSAAMLAVLAVIYRETPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
IIECDIGITGFSCLMVGIFLASICFLAVLAFARLNDPNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Mouse, locus124.1

CVNCPEYQYANTEQNKCIQKGVFTLSEYDPLGALALMAFCFAFTAVLVCFVGHKHTDPIVKNANRSLYLLMSLMFCFSFFIIGLPNRAICVLOQITGIVTAVSTVLAKTVLAVFKVDPGRRLNLFVSGTNYIPI
CSLLOQVLCATLWAVSPPFVIDEHTLGHGIIIVCNKGSDFATYFCILGYLACLALGFSFLAFLAKLPDTPNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Western_c_lawed_frog, locus847.1

CTKCPEDMWANEMHGDRCRDKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
CTAIQVITICAGWLHSSPPFQYDNKSKGIIIEVCNKGSPIAYSCIT-----KLPGSFNEAKLITFSMLIFGAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Western_c_lawed_frog, locus849.1

CTECPEDMWANEMHGDRCRDKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
CTAIQVITICAGWLHSSPPFQYDNKSKGIIIEVCNKGSPIAYSCIT-----KLPGSFNEAKLITFSMLIFGAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Elephant_shark, locus31.1

CTKCPEDMWANEMHGDRCRDKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
CTAIQVITICAGWLHSSPPFQYDNKSKGIIIEVCNKGSPIAYSCIT-----KLPGSFNEAKLITFSMLIFGAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Sterlet, locus277.1

STGIQVITICAGWLHSSPPFQYDNKSKGIIIEVCNKGSPIAYSCIT-----KLPGSFNEAKLITFSMLIFGAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Japanese_eel, locus160.1

MGIIIVLIFSLGVCVTVLAVLFFKDKDPIVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
IIECDIGITGFSCLMVGIFLASICFLAVLAFARLNDPNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Spotted_gar, locus168.1

MEFLEFREPLGIVLTVLAVLGAVALSITGAFVHRDTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
KNEAVTPKIEVCEQDAGSPALFCVLAAYTGFVAVLAFARLNDPNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Reedfish, locus27375.1

MCPEDFWNSRDRDHCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
LVQIGICVGFHVPSSPVMNRDQYISKIIIECONEGPELALFCILGYLAVLAFARLNDPNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Japanese_eel, locus165.1

CICQPEEYWSNRSRQDCVPKTEFLSYHEPLGICLTAASLLGTIVSAVVLGFIHHRSTPVVRANSELSYQILVSLKLCFLCSSLFGRPRLWTCQRHAAGFISFVLCVSCILVKTMMVAVFRASKPGGATLKWFGAVQQRMTVIILTS
FTIIOALICIIWLTASPPFKNTQYNSKIIEFCVAGSVGTGIFLLSYIGLALTLFLAFYSRKLPDSFNEAKLITFSMLIFCAVWVAFVPAVYVSSPGKYADAVEIFAILASSFGLLALFAPKCYIILLRPEKNTKAIMGRAAP

>Western_c_lawed_frog, locus431.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus432.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus429.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus433.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus436.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus435.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus434.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus437.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus438.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus439.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus441.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus443.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus442.1

MWPNKRDRCFLKPIEFLSYEDYLGITLATISFSSMVPISVFRLLIHYKSTPIVRANNSVSCILLVLSFCFLCALAFIGYPOPEKCLLROAAFGVFTLVCVSCILAKTVIVVAFMATKPGSSLLKWTTPRVPYMIITCTFIQLT
LCIFWLSISPPFPQYNEAKPGIIVVECNENSQFAFWCMLGYLGLAVSFTVAFARLNDPNEAKLITFSMLAFSLVWVYFIPASLSAQGYTVAMEIFAILTSSWALVFCMFLPKCFIILFRPDMNSRDLNMGKRS

>Western_c_lawed_frog, locus444.1

>Thorny_skate, locus26.1
--MKCPIDYWSNDRRACVPKQIEFLSFGESMGVTLMAISVCGACVTVGVAVFLRINTPVRANNSSELSFLLLSLMLCFLCSIAFIGOPTWPCAMRHTVFGISFVLCISCLSKTLVLMFAKATLPSNVNMRWFGPAQORSIVFI
STLIQVIVCAVWLLTSPPPPTQNTQYOSAKIILECAVGSSTLAFCCAFYIGLLACILVLAFLGRALPDFKNEAKFITFSMLIFFAVWLTVPAYVTPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEENTKKQMMGRAER
>Little_skate, locus54.1
--MKCPIDYWSNDRRACVPKQIEFLSFGESMGVTLMAISVCGACVTVGVAVFLRINTPVRANNSSELSFLLLSLMLCFLCSIAFIGOPTWPCAMRHTVFGISFVLCISCLSKTLVLMFAKATLPSNVNMRWFGPAQORSIVFI
STLIQVIVCAVWLLTSPPPPTQNTQYOSAKIILECAVGSSTLAFCCAFYIGLLACILVLAFLGRALPDFKNEAKFITFSMLIFFAVWLTVPAYVTPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEENTKKQMMGRAER
>Mouse, locus110.1
CICKPEDQYPNKQNNCKPKIKFISLHEDTLGAVLVSLAISLAFSAMLGFLHYRDPVIVRANNRNLSYVLLVSLMLCFCCSLFIFIGQPTVTVLVRQIMFVGVVSVAVSAILAKTIVVVAFTAIPKSTLQMMVTRLSNAIVCC
GSIIVQVICAVWLGTPPPFDADMHEFQGIILWNEGSTLAFYCVLGYLGLSLSLLIAFLARLPESFNEAKFITFSMLVFCVWITVFPVYLSKQKTMVAVEIFAILASSFGLLFCIFPKCYIILKPEENTKKQMMGRAER
>marker, fugu_4_3_FP

CSEEFWPNPERNACFLKPVFSLFNEVLGILAVFVSGGACLAIVTAAVFFHRRASPIVRANNSSELSFLLLSLMLCFLCSIAFIGOPTWPCAMRHTVFGISFVLCISCLSKTLVLMFAKATLPSNVNMRWFGPPQORMTVTFSTS
IQVLCIWLVSPPFPVNRLLTYKERIILECALGSSVGFVAVLGYIGLAAVCLVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNSKXHLMNK--
>Western_c_lawed_frog, locus965.1
CLNCPKDPKWSRKEECLPKIQFLSYEELGSAACISVFLCLLTFVFCFLIIRKRPVIVKANRRDLSYLLLSLMLFMCFLSIAFIGRNPIMCIRQVMFAVIFSLCVSTILAKTIVVMFISATNPDSKLLKVLGRIPYIVPV
CTMVQVILCIWLLTADPAEAFNEAEIGIIVIECNEGSRVLFASVLYGMLGSLVSLFAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus189.1

MGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
IILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus184.1

MGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
IILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus188.1

CIQCPVDFWNSAERTCEIPKEIEYLYT-
DEMGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
SKIILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus183.1

CIQCPVDFWNSAERTCEIPKEIEYLYT-
DEMGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
SKIILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus185.1

MGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
IILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus187.1

CIQCPVDFWNSAERTCEIPKEIEYLYT-
DEMGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
SKIILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Sterlet, locus182.1

MGVTLTVIALFGAALTIGVLAFLHYKNTPIVRANNSSELSFLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
IILECDVGSSTLAFWCVLGYIGVLAFCMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKQYIMG--
>Mouse, locus78.1

CVRCPDDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus75.1

CVSCTGDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus74.1

CVRCPDDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus79.1

CVRCPDDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus83.1

CVRCPDDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus77.1

CMRCPDDKYANLEKTHCLQRASFLAYEDPLGMLGCMALFSLALTVLTVFKYKQDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTLIQVFCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus102.1

CFQCPEDHYNMRQDFIPKSLTFIIFEEALGTSALSSALLFCVTSVVLGFKHRDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
SLLIQTICTVWLTSPFPDQVMSAEVILKNEGSIIMFYCYLLGFMGFLSICSTAFARKLPDSFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Mouse, locus307.1

CMKCPVDEYANTDQTCFKKVSFLDYEEPLGMLTAVLAVFVSSLTVILCFLKHRDTPVIVKANRRISYLLLSLMLCFLCSIAFIGEIPANNSCFMRHTVFSITFSLCSICLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
CTTIQMLCGZLVTPSPFIDRDTQSEYKGTIIICNKGSVIAFHVFLGYLGLSALGSGTVAFLARLPDRFNEAKFITFSMLVFCVSWITFLPVYHSTRGTVMVVEVFSILASSAGLGCIFLPCCKCIVLRLDSNFLOKHYKDLPS
>Reef fish, locus2727.1

MGVLLTIMISGASITLTVLTVFKYKQDTPVIVKANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
HYSGRVILECNVGSVLYGYSVLYGIFLACMCFVLAFLARLPDNFNEAKFITFSMLIFCAVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFAPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40470.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40462.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40460.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40468.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40458.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40464.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40437.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40444.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus40451.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus27546.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus27548.1

CMSCPISYRSNKEKNOICIKDTEFLSFEEMGSLVLLFALLGALMTISVAVIFILYDTPVIVRANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
FTLTQVICTFWLFLSPPPHNFNTSYKEKIIILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA
>Reef fish, locus27551.1

MGSLVLLSLLGTFMTICVSVIFILYDTPVIVKANNSSELSFLLLSLMLCFLCSIAFIGOPLSWSMCLRHTAFGIFSVLVCISCVLKGTVVLMVFKATQPGSNIMKWFQIQRIMISACTSVQIICAIVLAMPFPPSKNTKYQSSK
IILECEVGSIVAFVCLGYIGLSAVCFVLAFLARLPDNFNEAKFITFSMLIFCSVWITFIPAYVSSPGKYTVAVEIFAILASSFGLLFCIFPKCYIILKPEKNTKXHLMEKPA

CLCEPDHWSNDRRDKCILTEFLSYEEPLGATLASISIFSSLPAAVLCFIRYHDPVTKANNRELSYLLLALMLCFLCSLFIGOPLVATCMLRQAFGIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLFQVQIICITWLSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus304.1
CLCKPNDHWSNARDKCPKPIEFLSYKEPLGATLASISLSSVPIVAILCTFKYQDPTVKANNREVSYLLLALVLCFLCSLFIGYPMMITCMLRQAAGFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTMLQVLTICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus305.1
CLCKPDDHWSNRRDCEPKPIEFLSYEEPLGATLASISVSSLPVAILSTFKYRDPVTKANNRELSYLLLALVLCFLCSLFIGYPRKVTMLRQAAGFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus308.1
CLCKPDDHWSNRRDCEPKPIEFLSYEEPLGATLASISVASSLPVILSTFKYRDPVTKANNRELSYLLLALVLCFLCSLFIGYPRKVTMLRQAAGFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus306.1
CLCKPDDHWSNRRDCEPKPIEFLSYEEPLGATLASISIAFSLPVAIISTFKYRDPVTKANNRELSYLLLALVLCFLCSLFIGYPRKVTMLRQAAGFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus352.1
CLCKPDDHWSNRRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus261.1
CMKCPDDHWSNRRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus395.1
CMKCPDDHWSNRRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTAVQIICITWLSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus274.1
CMKCPDDHWSNRRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CAVIQVQIICIAWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus334.1
CICQSLDYPWNGKDKCKIEEFLSFHDLTGLTITLVSFLVGLATLTVASVFLQYKTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLIQVTFIVVWTVLPPPIYKNSHSYKILIECALGSLALYGVCMYIGFLSICIFLAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Mouse, locus223.1
CDPCGDDHWSNAEKSCKVCPKLEFLVYKALGFTLVLSIFGALVLLAVTVVYVYHRRHTPLVKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
SMHPIFRKILVLCVVGEGVCAAYVLEPRPMFNIEIQVNIIEFCNEGSVEFLCSIFGFDVLLALCLLCTFFVARQLPDNYEGKCTIFGMLVFFIWIISFVAPYVSTKGGKFAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
NDETVGGRVPT
>Mouse, locus22.1
CDPCGDDHWSNAEKSCKVCPKLEFLVYKALGFTLVLSIFGALVLLAVTVVYVYHRRHTPLVKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
SMHPIFRKILVLCVVGEGVCAAYVLEPRPMFNIEIQVNIIEFCNEGSVEFLCSIFGFDVLLALCLLCTFFVARQLPDNYEGKCTIFGMLVFFIWIISFVAPYVSTKGGKFAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
NDETVGGRVPT
>Coelacanth, locus327.1
MGILLAVSLIGFIIITIAVVIFFYRHTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
IIECDLGSVAFYCVLGIYGLSILCFVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus329.1
CTKCPLEYNSNQRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
LTLIQGLICTLWLSLSPPYASKNMKHYKDRILECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Coelacanth, locus330.1
MGILLVLSLTSFTTIIATLIIFFYRHTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
IIECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Reedfish, locus27623.1
CLCKPPEYNSNQRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
STLIQVCIICAVMLISPPFYSKNIYYKDKIIECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Reedfish, locus27713.1
MEYNSNAKDKCFKTEHLSFEELIIGLITLAVSLMGVCIIVLTAFFLYKHTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
SLIFLWLIAPPADRNFYSYRDKIIECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Reedfish, locus27629.1
MGILLVLSLIGFIIITIAVVIFFYRHTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
IIECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Reedfish, locus40391.1
CFPCPKWYNSNQRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
STFVQVICTLWLTSSPPPEQNMKSOPGTIIIECNEGSTIAFWCLGYMGLLAIISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
-MLCPQYNSNQRDCEPKPIEFLSYKEPLGATLGAITFSAIPSTILCVFIRYRNPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CTLIQAIICVWLITSPPPYQNMKYNDIIECALGSAFAFVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Reedfish, locus40385.1
MAKQDCEKIEFLSYEDVGLITLVSFLSGASITVAVALIFFQHRHTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
WLTSSYPPDRNMEYSKDIIECENLGSVTAFCVLYGIGVLSLFCVLAFLARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus480.1
MLSSVPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
PTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus479.1
MWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
DCVLWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus476.1
MWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
DCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus482.1
MIPVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
WMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus483.1
CHPSWDTWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CALIQIDCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus477.1
CHPSWDTWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CIFVQIDCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus474.1
CHPSWDTWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CIFVQIDCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus481.1
CHPSWDTWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CALIQIDCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus454.1
MFSSTPIAIIIGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
PTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Western_c_lawed_frog, locus484.1
CHPSWDTWPNLQDRCLPRPTEFLSYENPLGYSLAAISMLSSIPLVILGIFIIHYKNTPIVANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CALIQIDCALWLFSPPFHELDTDTPQGVIIANCGESPTAFWMLGGLLASISFVAFARLRLPDSFNEAKFITFSMLVFSVWMLAFIPAYLSTRGKYMVAVEIFAILASSAGLLACIFFPKCYIILLRPMNTRKHELMGKGT
>Mouse, locus347.1
CVHCPETHYASAEKRRHCKKKTITFLSYNDPLGKGTITLISIGFSTLTAIIVWVFEHRGTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CIIQIQLLSGLWLTGSPFFIDKDCHESEHGIILCSKGSYIYFYCTLAYLWMAFGSYLLAFLSRRLPDRFNESKSLAFSMLVFCVSWMFLPVCHSTSGKVMVAMEFISLASSASLIIIVFAPKCYIVLFRPELNTLNRDKRHH
>Mouse, locus345.1
CVHCPETHYASAEKRRHCKKKTITFLSYNDPLGKGTITLISIGFSTLTAIIVWVFEHRGTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CIIQIQLLSGLWLTGSPFFIDKDCHESEHGIILCSKGSYIYFYCTLAYLWMAFGSYLLAFLSRRLPDRFNESKSLAFSMLVFCVSWMFLPVCHSTSGKVMVAMEFISLASSASLIIIVFAPKCYIVLFRPELNTLNRDKRHH
>Mouse, locus346.1
CVHCPETHYASAEKRRHCKKKTITFLSYNDPLGKGTITLISIGFSTLTAIIVWVFEHRGTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
CIIQIQLLSGLWLTGSPFFIDKDCHESEHGIILCSKGSYIYFYCTLAYLWMAFGSYLLAFLSRRLPDRFNESKSLAFSMLVFCVSWMFLPVCHSTSGKVMVAMEFISLASSASLIIIVFAPKCYIVLFRPELNTLNRDKRHH
>Mouse, locus348.1
MSLGFSAFTLIIIGVFNHRDTPVTKANNRELSYLLLALVLCFLCSLFIGYPTGVTMLRHAFAFIIFALCVSCLVAKTMMVIAFNATKPNNSLKKWVGPGLANSIVFV
GSAIAFYCTLAYLWMAFGSYLLAFLSRRLPDRFNESKSLAFSMLVFCVSWMFLPVCHSTSGKVMVAMEFISLASSASLIIIVFAPKCYIVLFRPELNTLNRDKRHH
>Mouse, locus63.1

CTAIQV IICAGLAHSPFPFYDNKSKMDTIIEMCNKGSVPVAYSCTI-----KLPGSFNEAKLITFSMLIFGAVWISFIPAHLSSTTGKYMVAVEVFAILSSSSGLLVCILLPKVYIILRPEMKNKDKRKFII--
>Western_c_lawed_frog, locus858.1
CMKCPEDMWNADKHNCGMKSLEFLSFRLETGGTLLTISVGLSFLPLSILAVFKNAETPVVKANNRNL SYLLLSLFCYLCALMFIGRPTITICILRQIFIGISFVMCISCVLGTMMVVI AFNLTPQRSSRRMNLNSRVNTLVLV
CTAIQV IICAGLAHSPFPFYDNKSKMGTIIECNKGSPIAYSCTI-----KLPGSFNEAKLITFSMLIFGAVWISFIPAYLSTTGKYMVAVEIFAMLSSSSGLVTCIFLPKVYIILRPEMKNKDKRMTNSY
>Western_c_lawed_frog, locus860.1
CMKCTEDMWNADKHNCGMKSLEFLSFRLETGGTLLTISVGLSFLPLSILAVFKNAETPVVKANNRNL SYLLLSLFCYLCALMFIGRPTITICILRQIFIGISFVMCISCVLGTMMVVI AFNLTPQRSSRRMNLNSRVNTLVLV
CTAIQV IICAGLAHSPFPFYDNKSKAGTIIIECNKGSVPVAYSCTI-----KLPGSFNEAKLITFSMLIFGAVWISFIPAYLSTTGKYMVAVEIFAMLSSSSGLVTCIFLPKVYIILRPEMNTKDKRKCICK--
>Western_c_lawed_frog, locus857.1

MWANEHNACGMRTLELLTYNEALGGTLATLSVMGLVPLTILITIFIKNSETPVVKANNRNL SYLLLSLFCYLCALMFIGRPTITICILRQIFIGISFVMCISCVLGTMMVVI AFNLTPQRSSRRMNLNSRVNTLVLVCTAIQVI
ICAGLAHSPFPFYDNKSKAGTIIIECNKGSVPVAYSCTI-----KLPGSFNEAKLITFSMLIFGAVWISFIPAYLSTTGKYMVAVEIFAMLSSSSGLLVCIFLPKVYIILRPEMKNKERNILIT--
>Western_c_lawed_frog, locus865.1

MWPTEQHDGCRPRSLEYLAVEDPLGGTLASL SVVGLSILPLSILGIFLNSKTPVVKANNRNL SYLLL FALFCLFCLSMFIGAPVHLICVLRQITFGVSVLVCVSCVLGKIMVVI AFNATOPKSSRRMNLNSRIPNTLIVCMITQII
ICSWWIMHSPFKMNDITSLKGLVITLCECVGSPVAFWMI-----NLPGSFNEAKMIFSMILIFGAVWISFIPYTLSTRGKESVAVEIFAILCSCSGLLALLFPFKCYIILRPEMKNKFLTGKRGF
>Western_c_lawed_frog, locus864.1

MWPTEHGDGCRPRSLEYLAVEDPLGGTLASL SVVGLSILPLSILVIFLNSKTPVVKANNRNL SYLLL FALFCLFCLSMFIGAPVHLICVLRQITFGVSVLVCVSCVLGKIMVVI AFNATOPKSSRRMNLNSRIPNTLIVCMITQII
ICSWWIMHSPFKMNDITSLKGLVITLCECVGSPVAFWMI-----KLPGSFNEAKMIFSMILIFGAVWISFIPYTLSTRGKESVAVEIFAILCSCSGLLALLFPFKCYIILRPEMKNKFLTGKRGF
>Anole_lizard, locus203.1

MCLPKKELFLAFHEPLGASLASAVCGSIMPIMILAFIAHOETPLVRANSRELSYLLLIGLALSCLLFLGQPSHTSCLLRQVFMGTALFCISLAKTILVVAAFRAISPRGHSRWLSSRRMPCSVLIGLLQLFLCAIWSMT
SPPYIKRN---SFP5AITLSCHEGSPATFHWGLSYLGLFAGLSLTAFAFLARNLPEAFNEALSICFSLGSGFVWLAFAVPAYLTSPEYAAVTEAFALASSLSLIGMFLPKCYILLHPQLNRRCLMRLEK
>Western_c_lawed_frog, locus499.1
CYLCSDDDEMPNSARNHCLSRAIELLSLSEPPGLSGTAVIGSLLPAVYVIFIRNRDTPVVKANNRNL SYLLLAALLSFLCPLLLFPPTGFLCFIRQAAGFIFALCISCLAKTIVVLAFRANQLGKMLMGPRSPRIALS
CTVFQTLCLSWIISQPPPEQDIDKSOVGTITIKNEG---LGFVWMLGVLGSLTICFVAFLARLPGAFNEATHITSMVFLCVMWSFVPAYLSTHGKLVATEIFAILSSSAGLFCIFSPKCYILLKPKQNLTRPLVSGHRR
>Coelacanth, locus294.1
CLKCPDDQWSNELQDQICPTIEFLAYEDAVGATLAVSIFCALFTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI
CTVIQIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus295.1

MGATLAL SILCALLSKTLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus292.1

MGATLAVLSIFCALYSIVLVCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus389.1

MGATLAL SILCALLSKTLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI I QIICIVWLASAPPFPTEMMKSGI
MILECNESSTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus290.1
CLKCPYDRWSNEQDQICPKTIEFLAYEDAMGTLATVLSILCALVSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVL
CTVIQIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus321.1

MGATLAVLSILCALSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus320.1
CLKCPDDQWSNE---
QDKICSKTIEFLAYEDALGATLAVSIFCALSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWL
ASAPPFPTEMMKSGITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus346.1
CLKCPDDQWSNELQHECIPKTIIEFLAYEDAGALATLSILCALSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVL
CTVIQIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus322.1

MGSTLAVSIFCALSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus324.1
CLKCPDDQWSNELQDQICPKTIEFLAYEDAMGTLATVLSILCALVSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVL
CTAIQIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus318.1

MCDDQWSNERDQICPKTIEFLAYEDMGATLAVSIFCALSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVFVCTI
GIFQIICIVWLANSYPPFAEKNTKSGITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus268.1

MGATLAVLSIFCALVCTAFICIFKQDTPVVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus272.1

MALVLCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI
PFIQNMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus269.1

MGAIVLAVSIVCAIIPAMTFWIFIKYRHTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus276.1
-MKCPDDQWSNERDQICPKTIEFLAYEDAMGTLATVLSILCALVSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVL
CTVIQIICIVWLASAPPFPTEMMKSGIITIECNEGSTTAFWCVLGYMGLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus270.1

MGATLAAFSIFCSIIPAKALCIFIKYRDTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI
LITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus271.1
-MKCPDDQWSNERDQICPKTIEFLAYEDAMGTLATVLSILCALVSTTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVL
CTI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus208.1
CMKCPDDQWSNERDQICPKTIEFLAYEDMGATLAVSISCAASLTVLCIFIKYQDTPVVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I
CTI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus388.1
-MKCPDDQWSNERDQICPKTIEFLAYEDMGATLAVSISCAASLTVLCIFIKYQDTPVVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I
CTI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus205.1
-MKCPDDQWSNERDQICPKTIEFLAYEDMGATLAVSISCAASLTVLCIFIKYQDTPVVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I
STVFQV I C IAWLASSPPPEQNMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus203.1
CLKCPDDQWSNERDQICPKTIEFLAYEDMGATLAVSISCAASLTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I
CSVIQV I C IAWLASSPPPEQNMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus201.1

MGATLAVSIVSICASLSTTVLCIFIKYRDTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI
ITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus200.1
CLKCPDDQWSNERDQICPKTIEFLAYEDMGATLAVSISCAASLTVLCIFIKYRNTPIVKANNRELSYLLLSLVCFLSFLVFIGOPKWTSCMLRQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I
GTLIQ I I C IAWLASSPPPEQNMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus278.1
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CTI I QIICIVWLASAPPFPTEMMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIPAYLSTGKYMVAVEIFAILASSAGLACIFFPKCYIILRPMNTRKSLMGKSKL
>Coelacanth, locus277.1
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TKLILCQAFGIFALSVSVCVLAKTMMVVI AFNATKPNSLRKKWGPGLNSIVLCTI I QIICIVWLASAPPFPTEMMKSGI I QIICIVWLASAPPFPTEMMKSGIITIECNESGATFACVWGLYMLLAIISFVAFARLNL PDSFNEAKFITFSMLVFSVWLAFAIP
AYLSTRGLYMAVEIFAILASSYLLTH-----
>Coelacanth, locus131.1

CLKCPDDHWSNEKQDACIEKTEFLSYQESLGAALATISIFCATIPAVLVAIFIKYQETPIVKANNRELSYLLSALMLGFLCCLMFIGKPRRATCIRQTAFGVIFAFVSVCLVAKTMMVIAFNAFKPNSLRKWKVGPGLPNSIVLA
CTVIQVVICVAVLVSPPPPIDNMKSOVQVGIIECEGSESPAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGD
>Coelacanth, locus349.1
CLCKTDEWSNEGDDKIPKLDIDLYSIEEPMGIILTVISISFTFFPMLCLCFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGQPSVNCMMRQTAFIGIIFALCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNSIVVFF
CTLIQIIICIAWLSAPPPEQDKMSEIGMIIEKNEGSTTAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus347.1

MGTTLVAISICALPFAVILHMCIKHRHTPLVKANNRELSYLLFALVLAFLCCLIFIGQPRWTWMMRQTAFIGIIFALCVSVLAKTMMVIAFNAFKPNSLRKWKVGRSLPNSIVFVCTVIQVVICITWLSYPPFPEDQTKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus136.1
---MCPDDHWSNERDCKIPKTEFLSYEDPMGVALTAIAIISLLPAAIPCFVFKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGHPTVVTMFRQIAGIIFTLVSVCLVAKTMMVIAFNAFKPNSLRKWKV----
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>Coelacanth, locus209.1

MCPDDHWSNERDCEILKATEFLSYRDPMGATLAAISIFCALFPATLICIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGLPTITMFRQVAFIIFALCVSVLAKTMMVIAFHATIPSSLKRKWKVGPGLPNTIVFICT
VIQVVICITWLSYPPFPVQNMKSIGTIIIECNDGSTTFFWVCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus132.1

MGATLATISISIALPTVITLLFIKHRDTAVKANNRELSYLLLVGLMFLCCLLFIGHPTWTCVLRQVAFIIFALCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNSIVFVCTVIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus375.1

MGVALAISIFCALPFAVILHMCIKHRHTPLVKANNRELSYLLLVGLMFLCCLLFIGRPRKVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus301.1

MGVTLASISIFALPVTIYIFIKNRHTPLVKANNRELSYLLLVGLMFLCCLLFIGNPRSVACMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus351.1

MGATLAAISIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus262.1
CLKCLDDYMANEAQRDCKIPKSEFLSFDPMGATLTSVIFGALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus141.1

MGATLTSVSISSVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus374.1

MGATLTSVSISSVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus145.1
CQKCPDDYWSNEAQRDCKIPKSIDFLSYEDPMGATLTSVIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus147.1
CQKCPDDYWSNEAQRDCKIPKSIDFLSYEDPMGATLTSVIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus380.1
CLKCPDDHWSNERDCKIPKSEFLSFDPMGATLTSVISAVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus341.1
CLKCPDDHWSNERDCKIPKSEFLSFDPMGATLTSVISAVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus353.1
CLKCPDDHWSNERDCKIPKSEFLSFDPMGATLTSVISAVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus392.1
CLKCPDDHWSNERDCKIPKSEFLSFDPMGATLTSVISAVALITATTLTIFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
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>Coelacanth, locus36976.1
CQKCPDDYWSNEAQRDCKIPKSEFLSFDPMGATLTSVIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus36981.1
CQKCPDDYWSNEAQRDCKIPKSEFLSFDPMGATLTSVIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus36974.1
CQKCPDDYWSNEAQRDCKIPKSEFLSFDPMGATLTSVIFAALITAATLCTFIKYRDTPLVKANNRELSYLLLVGLMFLCCLLFIGYPMRVTMLRQVAFIIFVLCVSVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus438.1
CLRCPDQWSNTRDQACVPRVLEFLSYEELGASLAVLAVLSPASVGLVFLRHRHSPVVKANNRQLSYVLLGALALCPLCLLFIGRPSASCMRLQTAFAIIVTLGVSCLVAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus416.1
CLRCPDQWSNTRDQACVPRVLEFLSYEELGASLAVLAVLSPASVGLVFLRHRHSPVVKANNRQLSYVLLGALALCPLCLLFIGRPSASCMRLQTAFAIIVTLGVSCLVAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Coelacanth, locus410.1

XLPASTLALFLWHHTPIVKANNRQLSYVLLCALALCPLCLLFIGIPSPASCMRLQTAFAIIFALSVCVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Reefish, locus56974.1

MVEFLSYSEPLGIVLAVLSIVSVKPSILGLFWYRHTPIVKANNRQLSYVLLCALALCPLCLLFIGIPSPASCMRLQTAFAIIFALSVCVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Reefish, locus56973.1

MVEFLSFDPELIVLIMSMLISLVKPSILGLFWYRHTPIVKANNRQLSYVLLCALALCPLCLLFIGIPSPASCMRLQTAFAIIFALSVCVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Reefish, locus56889.1
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IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Western_clawed_frog, locus416.1
CFPCTDETPNEGRTECLPKPVDLSEFEELGTTITTTIFSYISTVTLICVFIKRYKDTAVKANNRDTYVLLGSLSLFCLPLLFIGQPHRFTCLFRQVTFGVIFVLSVCVLAKTMMVIAFNAFKPNSLRKWKVGPGLPNTIVFCTIIQVVICIAWLSYPPFPVQNMKSIOG
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>Zebrafish, locus509.1
CHKCPDYPNAEKIKCLPKPVEFLSDEILGNTLAAFSIAGSLVALSMALVFKYKNSPIVRANNSLSLFLLSLTLCLCCLLFIGQPTWESCMRLHTAFGITFVLCISCVLGTIVVMAFAKATLPGSNMVKWFGPPQRLSVFGFTL
VLIQVVICIAWLSYPPFPVQNMKSIOG IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>marker, zebrafish_4_1_F

QPDYWPNAEKIKCLPKPVEFLSDEILGNTLAAFSIAGSLVALSMALVFKYKNSPIVRANNSLSLFLLSLTLCLCCLLFIGQPTWESCMRLHTAFGITFVLCISCVLGTIVVMAFAKATLPGSNMVKWFGPPQRLSVFGFTL
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>Zebrafish, locus848.1
CHKCPDYPNAEKIKCLPKPVEFLSDEILGNTLAAFSIAGSLVALSMALVFKYKNSPIVRANNSLSLFLLSLTLCLCCLLFIGQPTWESCMRLHTAFGITFVLCISCVLGTIVVMAFAKATLPGSNMVKWFGPPQRLSVFGFTL
VLIQVVICIAWLSYPPFPVQNMKSIOG IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Zebrafish, locus852.1
CHELSDYWPNAEKIKCLPKPVEFLSDEILGNTLAAFSIAGSLVALSMALVFKYKNSPIVRANNSLSLFLLSLTLCLCCLLFIGQPTWESCMRLHTAFGITFVLCISCVLGTIVVMAFAKATLPGSNMVKWFGPPQRLSVFGFTL
VLIQVVICIAWLSYPPFPVQNMKSIOG IITQNEGSSAFWCLVGMGLLAIISFVAVLARNLPDSFNEAKFITFMSLVFVSVWLAFLAPAYLSTRGKYMVAVEIFAILASSAGLPCIFFPKCYIILLKPDNTRDYLGMKGGT
>Zebrafish, locus513.1
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>Zebrafish, locus850.1
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>Zebrafish, locus511.1
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>marker, cichlid_4-10aa

IILECAVGSVLGFWGVGLGILLACLCFFIAFLARLKLDPNFNEAKITFSMLIFFAWITFVPAYVSTPGKYTVAQVFAILASAFGLLSCIFAPKCYIILLRPEKNSKKYLMDSKNK
>Coelacanth, locus26.1

MGITLTVIAVFGASVTTAVSIVFFNFKNTPIVRANMELSFLLLSLILCFLCALAFIGEPTTWSMIRQTVFGISFVLCISCILGKTVVLMFAKNRPLSSNTMWFQPPQQRASVFLTTVIOVICIIWLVNTPPPFSQNSVHOSAK
IILECNMGSALACLVLVGLLACTGCFCLAFARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSTGLLLCIFAPKCYIILLKPEKNTKXHLMDKVPV
>Ccloudy_catshark, locus14.1

MGITLAVISLFGACITGVAVVFLYFNTPIVRANSELSFLLLSLILCFLCSIAFIGQPTPWSMVRHTVFGVSFVLCISCILSKTLVLMFAKATLPSNMWKFQPKQORSIVFLCTLIQIIICVILVTSPLPKNTKYQSAK
IILECDVSTVAFVCLVYIGLLACMLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFAPKCYIILLKPEKNTKXHLMDKXHAQ
>Ccloudy_catshark, locus12.1

MGITLAAISLIGACITGVAVVFLYFNTPIVRANSELSFLLLSLILCFLCSIAFIGQPTPWSMVRHTVFGVSFVLCISCILSKTLVLMFAKATLPSNMWKFQPKQORSIVFLCTLIQIIICVILVTSPLPKNTKYQSAK
IILECDVSTVAFVCLVYIGLLACMLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFAPKCYIILLKPEKNTKXHLMDKXHAQ
>Ccloudy_catshark, locus8.1
CLRCSDIOWSNKNEKICPRENEYSFODGIGITLAAISLFGACITVVAIVFLCVNTPIVRANSELSFLLLSLILCFLCSIAFIGQPTPWSMVRHTVFGVSFVLCISCILSKTLVLMFAKATLPSNMWKFQPKQORSIVFL
CTLIQIIICVILVTSPLPKNTKYQSAKILECDVSTVAFVCLVYIGLLACMLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFAPKCYIILLKPEKNTKXHLMDKXHAQ
>Ccloudy_catshark, locus10.1
CLICPLQOWSNERRDQCPKQOVLEFSYDTHGMLTAVSLFGACITGVAVVFLYFNTPIVRANSELSFLLLSLILCFLCSIAFIGQPTTWSMVRHTVFGVSFVLCISCILSKTLVLMFAKATLPSNMWKFQPKQORSIVFL
CTLIQIIICVILVTSPLPKNTKYQSAKILECDVSTVAFVCLVYIGLLACMLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFAPKCYIILLKPEKNTKXHLMDKXHAQ
>Whale_shark, locus9.1

MGITLTAISLIGACITGAVAVVFLYFNTPIVKANSELSFLLLSLILCFLCSIAFIGQPSHVMQHTVFGVSFVLCISCILGKTLVLMFAKATLPGSDVMWKFQPKQORSIVFICALIOVICVILVTSPLPKNTKYQNEK
IILECGVSTVAVSVFVYIGLLGICLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFSCKCYIILLKPEKNTKXHLMDKXHAQ
>Brownbanded_bambooshark, locus200.1

MGITLTVISLGLAVSAAVFLHFNTPIVRANSELSFLLLSLILCFLCSIAFIGQPSHVMQHTVFGVSFVLCISCILGKTLVLMFAKATLPGSDVMWKFQPKQORSIVFICALIOVICVILVTSPLPKNTKYQNEK
IILECDVSTVAFVCLVYIGLLGICLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFSCKCYIILLKPEKNTKXHLMDKXHAQ
>Brownbanded_bambooshark, locus198.1
-MKCSLDYWSNDRNNECIPKENEYSFODGIGIALTVLTLGACITVAVAVFLHFNTPIVKANSELSFLLLSLILCFLCSIAFIGQPSHVMQHTVFGVSFVLCISCILGKTLVLMFAKATLPGSDVMWKFQPKQORSIVFL
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>Reedfish, locus40409.1

MGITLTAISLIGACITGAVAVVFLYFNTPIVKANSELSFLLLSLILCFLCSIAFIGQPSHVMQHTVFGVSFVLCISCILGKTLVLMFAKATLPGSDVMWKFQPKQORSIVFICALIOVICVILVTSPLPKNTKYQNEK
IILECHVSTVAFVCLVYIGLLGICLCLIFALARLKLDPNFNEAKITFSMLIFFAWITFIPAYVSTPGKYTVAEIFAIFAILSSFGLLCIFSCKCYIILLKPEKNTKXHLMDKXHAQ
>Sterlet, locus288.1

MGITLMSVSLGSCFTIAAIVFAYRNTPIVKNSELSFLLLSLILCFLCSIAFIGQPTTWSMVRHTVFGIAFVLCISCILGKTVLVMFAKATLPGSDVMWKFQPKQORSIVFICALIOVICVILVTSPLPKNTKYQNEK
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>Elephant_shark, locus206.1
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>Ccloudy_catshark, locus7.1
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>Elephant_shark, locus28.1
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>Small-eyed_rabbitfish, locus66.1
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>Sterlet, locus295.1
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>Western_c_lawed_frog, locus569.1

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>Mouse, locus33.1
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>Mouse, locus28.1
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>Mouse, locus26.1
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>Mouse, locus41.1
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>Mouse, locus35.1
CDPCGEDDWSNAEKSKVCPKHEFLAYEALGFTLVLSIFGALVLAIVVYVHRHTPLVKANDRELSFLIQMSLITVLSLIFIGKPCNMWCMARQITLALGFLCCLSSILGKTLVLMFAKATLPGSDVMWKFQPKQORSIVFL
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>Anole_lizard, locus40.1

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>Western_c_lawed_frog, locus568.1
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>Zebrafish, locus541.1
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>Spotted_gar, locus169.1
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>Sterlet, locus180.1
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>Coelacanth, locus28.1
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>Sterlet, locus167.1
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>Coelacanth, locus225.1
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>Spotted_gar, locus196.1
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>Mouse.locus398.1
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Supplementary File 2. The Newick format phylogenetic tree of all 1897 intact V2Rs identified by a broad range of vertebrates. Note that grouping of “fish-type” V2Rs, “tetrapod-type” V2Rs, V2R2, and ancV2R was supported in sufficient bootstrap values.

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