Supplementary Information

Average *dN*, *dS*, ω Values Per Gene

Table S1: Per gene *dN*, *dS*, and ω values calculated for *E. coli*.

Escherichia coli			
Gene	***dN***	***dS***	ω
gene_name	dN	dS	omega
b0031	0.007	0.2454	0.0287
b0062	0.0066	0.3173	0.02067
b0072	0.0031	0.3414	0.00894
b0123	0.0177	0.2745	0.06441
b0131	0	0.2121	0
b0139	0.4938	16.721	0.02953
b0145	0	0.029	0
b0147	0.0239	0.1129	0.21218
b0148	0.0143	0.3403	0.04204
b0159	0	0.0885	0
b0207	0.0347	0.1135	0.30568
b0222	0.0025	0.3515	0.0071
b0223	0.0038	0.2536	0.015
b0227	0.043	0.6404	0.06707
b0231	0.0098	0.3756	0.0261
b0289	0.0291	0.1975	0.14753
b0292	0.0162	0.1513	0.10679
b0308	0.0213	0.085	0.25021
b0310	0.0543	0.1318	0.4118
b0315	0.0151	0.3192	0.04717
b0329	0.0215	0.3277	0.06566
b0331	0.006	0.5788	0.01033
b0367	0	0.3408	0
b0369	0.0015	0.2367	0.00619
b0383	0.0105	0.2108	0.04981
b0387	0.0061	0.159	0.03833
b0391	0	0.0766	0
b0397	0.0164	0.1714	0.09582
b0398	0.0107	0.135	0.07944
b0399	0	0.1042	0
b0403	0.0222	0.284	0.07825
b0404	0.01515	0.34815	0.047355
b0405	0.0066	0.3334	0.01986
b0406	0	0.0943	0
b0414	0.0272	0.3644	0.07473
b0415	0	0.0343	0
b0418	0.0028	0.497	0.00567
b0424	0.0053	0.3324	0.01585
b0426	0	0.1522	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b0440	0	0.0231	0
b0457	0.0138	0.0957	0.14434
b0458	0	0.116	0
b0459	0.0214	0.0623	0.34304
b0460	0	0.0623	0
b0461	0	0.0732	0
b0469	0.0026	0.0984	0.02681
b0474	0.0022	0.2549	0.00873
b0512	0.0156	0.2577	0.06055
b0514	0.0093	0.2871	0.03252
b0567	0.0207	0.2221	0.09305
b0585	0.0351	0.1813	0.19382
b0587	0.0914	0.4176	0.21881
b0589	0.0238	0.3479	0.06841
b0600	0.0158	0.3349	0.04725
b0602	0.0082	0.2285	0.03587
b0603	0.0432	1.1731	0.03686
b0613	0.0281	0.1498	0.18786
b0622	0.0146	0.1978	0.07386
b0634	0.0014	0.0922	0.01533
b0637	0	0.0966	0
b0643	0.003	0.1436	0.02085
b0657	0.0116	0.2507	0.04619
b0677	0.0039	0.1319	0.02991
b0686	0.0186	0.2144	0.08665
b0709	0.0088	0.3132	0.02806
b0722	0.009	0.0851	0.10553
b0726	0.001	0.169	0.00584
b0734	0	0.0952	0
b0739	0	0.0552	0
b0755	0	0.1743	0
b0757	0.0026	0.1884	0.01354
b0764	0.009	0.2314	0.03872
b0796	0	0.2572	0
b0802	0.0118	0.1627	0.07231
b0823	0.0053	0.2402	0.02208
b0829	0.0133	0.1243	0.10672
b0837	0.018	0.074	0.24356
b0848	0.0041	0.1587	0.02579
b0862	0.0121	0.1888	0.06411
b0866	0.00005	0.4495	0.00005
b0867	0.014	0.2009	0.06947
b0881	0	0.0168	0
b0890	0.0027	0.2322	0.0117
b0903	0.0015	0.0746	0.02032
b0904	0	0.1349	0
b0912	0	0.0228	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b0917	0	0.096	0
b0929	0.0412	0.3697	0.11145
b0947	0.0147	0.143	0.10303
b0955	0.0133	0.0882	0.15033
b0995	0.0043	0.1779	0.02403
b1015	0.0046	0.2739	0.01697
b1019	0.0114	0.3662	0.03108
b1033	0.0254	0.1183	0.21466
b1035	0.0203	0.1684	0.12072
b1051	0.0202	0.1107	0.18213
b1053	0.0017	0.1577	0.0105
b1057	0.0385	0.1685	0.22838
b1061	0	0.0984	0
b1070	0.0356	0.1244	0.28625
b1071	0.0052	0.1095	0.0472
b1072	0.0477	0.1817	0.2628
b1075	0.0081	0.1224	0.06587
b1105	0	0.155	0
b1107	0.0129	0.2817	0.04591
b1136	0.0034	0.2676	0.01271
b1174	0	0.09	0
b1178	0.01	0.1331	0.07493
b1179	0.0082	0.1714	0.04781
b1180	0.0047	0.1274	0.03722
b1187	0	0.1347	0
b1199	0.0246	0.1187	0.20708
b1213	0.019	0.173	0.10996
b1223	0.0031	0.1014	0.03081
b1232	0.0034	0.2077	0.01628
b1243	0.0072	0.0954	0.07513
b1248	0	0.097	0
b1250	0.0022	0.1163	0.01919
b1263	0.0037	0.4012	0.00915
b1276	0.0129	0.203	0.06364
b1281	0.0223	0.1844	0.12073
b1287	0.0475	0.023	2.06691
b1329	0.0072	0.1558	0.04591
b1377	0.0279	0.1279	0.21796
b1380	0.003	0.1418	0.02128
b1411	0.0525	0.1822	0.28832
b1412	0.0167	0.274	0.06084
b1466	0	0.2118	0
b1468	0.0105	0.3076	0.03429
b1469	0.0073	0.1906	0.03852
b1478	0.0073	0.3054	0.02399
b1493	0.003	0.2115	0.01442
b1502	0.0312	0.2586	0.12067

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b1533	0.0369	0.76	0.04851
b1535	0.0152	0.1445	0.1055
b1589	0	0.1102	0
b1605	0.0022	0.1302	0.01687
b1606	0.0215	0.1205	0.17845
b1607	0.0046	0.1124	0.04054
b1610	0.0189	0.1972	0.09563
b1611	0.0042	0.2393	0.01742
b1626	0.0106	0.0902	0.11761
b1634	0.0048	0.1478	0.0325
b1640	0.009	0.1813	0.04978
b1643	0.0079	0.0624	0.12664
b1675	0	0.0422	0
b1677	0	0	0
b1680	0.0071	0.2115	0.03337
b1687	0.0098	0.2223	0.0442
b1706	0.022	0.1688	0.13009
b1722	0.0037	0.1457	0.02539
b1724	0.0095	0.07	0.1353
b1726	0.0095	0.1569	0.06075
b1739	0.0046	0.0181	0.25497
b1746	0.0707	0.3167	0.22332
b1749	0.0041	0.2967	0.01387
b1750	0.0375	0.1624	0.23092
b1758	0.0282	0.467	0.06033
b1759	0.0453	0.1131	0.40094
b1772	0.0282	0.1157	0.244
b1781	0.03	0.1737	0.17269
b1783	0	0.2104	0
b1784	0.0033	0.2329	0.01401
b1785	0.0056	0.1152	0.049
b1792	0.0164	0.1258	0.13069
b1807	0.0176	0.4795	0.03393
b1816	0.0009	0.1154	0.00815
b1817	0.0044	0.0781	0.05583
b1820	0.0069	0.0789	0.08702
b1836	0	0.1269	0
b1838	0.0337	0.1313	0.25691
b1841	0.0249	0.0925	0.26956
b1844	0.0021	0.081	0.0254
b1847	0.008	0.1062	0.07506
b1873	0.0338	0.3124	0.10834
b1875	0.0188	0.1871	0.10066
b1901	0.0036	0.2489	0.01452
b1912	0	0.1158	0
b1924	0.2084	4.6225	0.04509
b1926	0.0331	0.1734	0.19066

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b1945	0.0014	0.1567	0.00896
b1973	0.0142	0.1835	0.07749
b1987	0.0192	0.1656	0.11564
b2009	0.0255	0.1237	0.20625
b2025	0.0136	0.2686	0.0508
b2027	0.0756	2.1644	0.03493
b2043	0.0336	0.592	0.05683
b2048	0.0177	0.3855	0.04581
b2056	0.0106	0.1551	0.06825
b2065	0.0074	0.1529	0.04844
b2069	0.0188	0.2762	0.06816
b2072	0.1175	0.6795	0.17286
b2077	0.0161	0.3921	0.04118
b2078	0.0185	0.5005	0.03701
b2080	0.0131	0.1739	0.0751
b2098	0.0077	0.1905	0.04055
b2104	0.03845	0.271	0.162845
b2114	0.0072	0.4241	0.0169
b2120	0.0384	0.4162	0.09236
b2164	0.0165	0.7069	0.02329
b2172	0.0236	0.1893	0.12473
b2177	0.0168	0.1785	0.09425
b2196	0.0045	0.287	0.01576
b2198	0	0.1066	0
b2213	0.022	0.2488	0.0884
b2229	0.0458	0.27	0.1695
b2233	0.10585	0.94845	0.1354025
b2242	0.0427	0.8003	0.05332
b2255	0.0108	0.1433	0.07568
b2283	0.0009	0.1933	0.00485
b2297	0.0027	0.1252	0.02117
b2308	0.0042	0.2513	0.01656
b2324	0.03885	0.328475	0.127015
b2325	0.0051	0.1712	0.02955
b2326	0.01375	0.3356	0.04268
b2327	0.0018	0.4757	0.00385
b2328	0.0181	0.1978	0.09175
b2336	0.355	2.6487	0.13404
b2342	0.0344	0.3324	0.10337
b2367	0.0037	0.2063	0.01817
b2374	0.0033	0.1147	0.0289
b2381	0	0.1234	0
b2382	0.0118	0.2739	0.04319
b2386	0.0067	0.3379	0.01983
b2389	0.0199	0.1943	0.10241
b2412	0.0071	0.1188	0.05983
b2453	0.0178	0.4293	0.04137

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b2463	0.0025	0.2674	0.00921
b2467	0.0201	0.1556	0.12886
b2474	0.0753	0.1761	0.42759
b2476	0.002	0.1372	0.01486
b2477	0.006	0.0374	0.16154
b2493	0.0056	0.3107	0.01796
b2496	0	0.0846	0
b2501	0.0007	0.128	0.00557
b2502	0.0009	0.1745	0.00523
b2505	0.0028	0.1132	0.02466
b2514	0.0023	0.1195	0.01888
b2515	0.0013	0.1703	0.00744
b2516	0.02655	0.1293	0.18361
b2518	0.0034	0.1245	0.027
b2548	0.0128	0.2643	0.04845
b2549	0.056	0.2655	0.21083
b2573	0	0.0101	0
b2576	0.0011	0.279	0.0038
b2605	0.0117	0.0851	0.13699
b2606	0	0	0
b2607	0	0.0427	0
b2608	0	0.0685	0
b2609	0	0	0
b2610	0.001	0.2584	0.00394
b2611	0.0018	0.1441	0.01282
b2614	0.0023	0.1857	0.01244
b2615	0.0063	0.2321	0.02705
b2616	0.012	0.1666	0.07183
b2659	0.0397	0.3086	0.12873
b2687	0.0119	0.0789	0.15052
b2688	0.0055	0.2031	0.02726
b2689	0.0068	0.0759	0.08964
b2704	0.0228	0.1145	0.19887
b2710	0.003	0.2091	0.01457
b2734	0.1486	1.3089	0.11351
b2749	0.0438	0.41	0.10672
b2751	0.0062	0.2933	0.02112
b2764	0.0196	0.2992	0.06549
b2768	0.0099	0.3627	0.0274
b2776	0.0203	0.4275	0.04744
b2777	0.0045	0.3419	0.01312
b2779	0	0.1023	0
b2785	0.0205	0.1191	0.17209
b2789	0.0031	0.1985	0.01558
b2793	0.0059	0.0897	0.06564
b2800	0.0068	0.1083	0.06325
b2817	0	0.1915	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b2818	0.0011	0.1002	0.01105
b2819	0.0072	0.3857	0.01857
b2828	0	0.1546	0
b2831	0.0066	0.2371	0.02797
b2886	0.0392	0.205	0.19098
b2891	0.0034	0.1392	0.02422
b2892	0.0112	0.2209	0.05056
b2906	0.021	0.2147	0.09757
b2916	0.0017	0.2428	0.00691
b2921	0.0163	0.1629	0.1002
b2928	0.0462	0.3784	0.12204
b2933	0.008	0.3041	0.02644
b2950	0.0267	0.4599	0.058
b2954	0.0309	0.1857	0.16644
b2955	0.0369	2.7333	0.01352
b2987	0.0175	0.3772	0.04634
b2988	0.0053	0.2815	0.01873
b2989	0.0144	0.4626	0.03109
b3005	0	0.101	0
b3018	0.0059	0.1743	0.03379
b3029	0.0046	0.3016	0.01527
b3050	0.0302	0.2554	0.11834
b3052	0.0042	0.3182	0.01308
b3055	0.0047	0.1598	0.02925
b3060	0.0046	0.2389	0.01915
b3061	0.0095	0.3733	0.02541
b3074	0.0138	0.1276	0.10827
b3076	0.0135	0.2314	0.05829
b3086	0.0466	0.6232	0.07481
b3087	0.01445	0.2935	0.076855
b3089	0.0086	0.2154	0.03972
b3098	0	0.1131	0
b3118	0.0015	0.1186	0.0125
b3131	0.0018	0.2178	0.00808
b3132	0.0187	0.1723	0.10833
b3133	0.01	0.1047	0.09572
b3136	0.0156	0.18295	0.083645
b3137	0.005	0.1262	0.03987
b3138	0.0131	0.0877	0.14882
b3181	0	0.0437	0
b3184	0.0014	0.072	0.0191
b3198	0.0082	0.0977	0.08359
b3199	0.003	0.0264	0.11224
b3202	0.0021	0.076	0.02699
b3203	0	0.0188	0
b3220	0.1153	0.3715	0.31046
b3224	0.0061	0.1712	0.0354

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b3257	0.0136	0.1149	0.11859
b3260	0	0.0445	0
b3263	0.0066	0.0396	0.1661
b3267	0.0066	0.1756	0.03747
b3269	0.0088	0.2833	0.0311
b3296	0	0	0
b3309	0.005	0.0186	0.26856
b3344	0.0298	0.1958	0.15211
b3347	0.0034	0.1265	0.02668
b3352	0.003	0.1815	0.01636
b3356	0	0.1686	0
b3368	0.0033	0.3069	0.01064
b3390	0	0.047	0
b3402	0.0412	0.1581	0.26087
b3403	0.0035	0.2494	0.01395
b3412	0.0103	0.2799	0.03676
b3415	0	0.1371	0
b3417	0.0041	0.2052	0.01982
b3422	0.0351	0.5875	0.05967
b3424	0.0068	0.1581	0.0432
b3426	0.0194	0.3898	0.04988
b3437	0.0059	0.228	0.02593
b3438	0.0043	0.2967	0.01448
b3439	0.0145	0.3315	0.04388
b3440	0.0138	0.3092	0.0445
b3441	0.0614	0.4614	0.13319
b3486	0.0084	0.3363	0.02487
b3494	0	0.0255	0
b3496	0.0123	0.2019	0.06112
b3498	0.0022	0.3939	0.00548
b3506	0.0023	0.1313	0.0173
b3510	0.0083	0.0486	0.17133
b3513	0.0042	0.1207	0.03445
b3514	0.0047	0.1769	0.02651
b3517	0.0042	0.1762	0.02356
b3532	0.0065	0.2257	0.02862
b3543	0.0028	0.3682	0.0075
b3546	0.0083	0.3005	0.02762
b3564	0.0202	0.2355	0.08585
b3598	0.0123	0.1304	0.09417
b3604	0.0113	0.2182	0.05184
b3605	0.0037	0.3898	0.00951
b3608	0.0014	0.2425	0.00594
b3653	0.006	0.2242	0.0267
b3660	0.013	0.3268	0.03986
b3666	0.001	0.1834	0.00563
b3675	0	0.0784	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b3676	0.0094	0.1751	0.05388
b3690	0.088	0.3177	0.27701
b3698	0.0349	0.3047	0.11459
b3708	0.001	0.2414	0.00411
b3712	0.0176	0.0896	0.19597
b3724	0	0.2571	0
b3728	0.00205	0.22295	0.00727
b3741	0.0007	0.1611	0.00465
b3746	0.0072	0.1097	0.05845
b3747	0.0015	0.1218	0.01255
b3748	0.0127	0.084	0.15124
b3752	0.0047	0.1232	0.0379
b3753	0	0.1332	0
b3754	0.0052	0.1143	0.04562
b3755	0.0079	0.128	0.06184
b3769	0	0.0347	0
b3771	0.013	0.502	0.02588
b3793	0.0064	0.1818	0.03533
b3804	0.0146	0.0673	0.2168
b3821	0.0061	0.1713	0.03587
b3850	0.0128	0.3716	0.03451
b3856	0.0289	0.1701	0.16991
b3886	0.0017	0.2105	0.00821
b3894	0	0.236	0
b3945	0.0082	0.3868	0.0211
b3947	0.0228	0.2513	0.09092
b3949	0.0057	0.2235	0.02558
b3953	0.0125	0.2952	0.0425
b3957	0.0058	0.2695	0.02143
b3959	0.0104	0.2005	0.05171
b3986	0	0.0211	0
b3987	0	0.0908	0
b3988	0.001	0.0855	0.01163
b4012	0.0472	0.3052	0.15483
b4033	0.0054	0.2305	0.02327
b4037	0.0049	0.1539	0.03171
b4055	0.0141	0.0889	0.15902
b4062	0	0.2412	0
b4067	0.0026	0.3824	0.00678
b4073	0.0259	0.2055	0.12585
b4074	0.02535	0.2053	0.119295
b4075	0.0417	0.13	0.32108
b4076	0.0383	0.2028	0.18884
b4077	0.0021	0.1912	0.0111
b4111	0.0048	0.1204	0.03995
b4117	0.0031	0.1118	0.0275
b4128	0.0048	0.1397	0.03439

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
b4133	0.0097	0.113	0.08599
b4140	0.0031	0.202	0.01515
b4146	0.0219	0.1621	0.13495
b4147	0	0.0913	0
b4150	0.0423	0.1448	0.29216
b4152	0.0079	0.063	0.12556
b4153	0.0018	0.0538	0.034
b4154	0.0064	0.0997	0.06465
b4169	0.0218	0.22465	0.125005
b4175	0	0.0847	0
b4177	0	0.1099	0
b4181	0.0323	0.1397	0.23145
b4185	0.0487	0.4055	0.12009
b4187	0.0142	0.2069	0.06866
b4235	0.0053	0.3258	0.01642
b4243	0	0.2542	0
b4254	0.0325	1.9179	0.01694
b4263	0.0356	0.5019	0.07101
b4324	0.0132	0.2552	0.05162
b4355	0.1017	0.1735	0.58596
b4357	0.0764666666666667	8.79456666666667	0.02139
b4359	0.0052	0.1707	0.03055
b4365	0.0021	0.0622	0.03394
b4378	0.0522	0.4312	0.1211
b4391	0.0022	0.1727	0.01264
b4460	0	0.1661	0
b4465	0.0228	0.3502	0.06507
b4475	0.03945	0.3126	0.17199
b4480	0.0119	0.1712	0.06979
ECIAI39_0018	0	0.0307	0
ECIAI39_0019	0	0.1961	0
ECIAI39_0021	0.00676666666666667	0.190733333333333	0.04286
ECIAI39_0022	0	0.1406	0
ECIAI39_0023	0.0046	0.2932	0.01572
ECIAI39_0024	0.023	0.4289	0.05359
ECIAI39_0026	0.0074	0.2183	0.03382
ECIAI39_0027	0.00485	0.33235	0.01464
ECIAI39_0030	0.02025	0.11955	0.16873
ECIAI39_0031	0.0077	0.1404	0.05466
ECIAI39_0032	0.0309	0.201	0.15353
ECIAI39_0033	0.007	0.2125	0.03296
ECIAI39_0034	0.00185	0.15505	0.01187
ECIAI39_0035	0.0093	0.1094	0.08523
ECIAI39_0037	0.02	0.1605	0.12481
ECIAI39_0038	0.0034	0.16825	0.01352
ECIAI39_0039	0.0033	0.2286	0.01429
ECIAI39_0040	0.007	0.24135	0.02624

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0041	0.00425	0.17925	0.023305
ECIAI39_0042	0.0086	0.1528	0.05601
ECIAI39_0043	0.0051	0.0608	0.047795
ECIAI39_0044	0.0243	0.1178	0.20596
ECIAI39_0046	0	0.1085	0
ECIAI39_0047	0.0066	0.1488	0.04415
ECIAI39_0048	0.0049	0.1771	0.02743
ECIAI39_0053	0.0086	0.1761	0.04869
ECIAI39_0055	0.001	0.1995	0.005
ECIAI39_0057	0.02365	0.3089	0.08431
ECIAI39_0058	0.0121	0.3011	0.04021
ECIAI39_0061	0.0186	0.2613	0.07101
ECIAI39_0062	0.011	0.236933333333333	0.0454066666666667
ECIAI39_0063	0.0341	0.4757	0.07145
ECIAI39_0064	0.0214	0.484	0.04429
ECIAI39_0065	0.0199	0.3781	0.05264
ECIAI39_0066	0.0398	0.6272	0.06339
ECIAI39_0067	0.0112	0.4135	0.0272
ECIAI39_0069	0.0053	0.2762	0.01934
ECIAI39_0071	0.0027	0.3476	0.00767
ECIAI39_0072	0.0105	0.1981	0.05278
ECIAI39_0074	0.0147	0.3414	0.04293
ECIAI39_0075	0.00455	0.1679	0.02289
ECIAI39_0077	0.0042	0.05645	0.088195
ECIAI39_0078	0	0.0072	0
ECIAI39_0079	0.0025	0.1245	0.02012
ECIAI39_0080	0.012	0.1788	0.0673
ECIAI39_0081	0.0042	0.1998	0.02123
ECIAI39_0082	0.0079	0.3029	0.02593
ECIAI39_0083	0	0.1804	0
ECIAI39_0084	0.0042	0.128	0.0332
ECIAI39_0086	0.0028	0.1643	0.01718
ECIAI39_0087	0.0114	0.1522	0.07463
ECIAI39_0088	0.00185	0.05235	0.038335
ECIAI39_0089	0	0.0883	0
ECIAI39_0090	0	0.0614	0
ECIAI39_0091	0.0058	0.1318	0.04396
ECIAI39_0092	0.001	0.1616	0.00646
ECIAI39_0094	0.0195	0.1098	0.168215
ECIAI39_0095	0.0091	0.0523	0.17472
ECIAI39_0096	0.0015	0.1394	0.01047
ECIAI39_0097	0.0346	0.2102	0.16547
ECIAI39_0098	0.02405	0.17035	0.14221
ECIAI39_0099	0.02675	0.18895	0.136445
ECIAI39_0100	0.0049	0.1379	0.03586
ECIAI39_0101	0.0119666666666667	0.2465	0.0653366666666667
ECIAI39_0103	0	0.0726	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0105	0.001	0.1647	0.00611
ECIAI39_0107	0.00715	0.165	0.043145
ECIAI39_0109	0	0.1387	0
ECIAI39_0111	0.0594	0.56685	0.103215
ECIAI39_0112	0.0481333333333333	0.289433333333333	NA
ECIAI39_0113	0.0011	0.2912	0.00382
ECIAI39_0114	0.00185	0.2459	0.015315
ECIAI39_0115	0.00085	0.1593	0.00617
ECIAI39_0117	0.0041	0.3665	0.01119
ECIAI39_0118	0.003525	0.16215	0.02218
ECIAI39_0120	0.0635	0.2751	0.23083
ECIAI39_0121	0.0257	0.2131	0.12049
ECIAI39_0123	0.0177	0.4941	0.03894
ECIAI39_0124	0.0261	0.6333	0.03687
ECIAI39_0127	0.425	8.9931	0.048065
ECIAI39_0128	0.282833333333333	7.64586666666667	0.0368966666666667
ECIAI39_0129	0.6877	10.4519	0.0658
ECIAI39_0130	0.67885	16.12105	0.063745
ECIAI39_0132	0.0345	0.6825	0.0505
ECIAI39_0134	0.0042	0.2447	0.01701
ECIAI39_0135	0.0273	0.3473	0.07852
ECIAI39_0138	0.0103	0.0632	0.16339
ECIAI39_0140	0.0233	0.1997	0.11673
ECIAI39_0141	0.0292	0.1977	0.14775
ECIAI39_0143	0.0028	0.2839	0.0098
ECIAI39_0145	0.0247	0.5876	0.04205
ECIAI39_0146	0.1605	2.6315	0.061
ECIAI39_0147	0.00915	0.2761	0.032155
ECIAI39_0148	0.0149	0.3879	0.03832
ECIAI39_0150	0.0154	0.4347	0.03549
ECIAI39_0152	0.0049	0.1889	0.027385
ECIAI39_0153	0.0041	0.0906	0.0500866666666667
ECIAI39_0154	0.0095	0.1594	0.05953
ECIAI39_0155	0.0039	0.2087	0.01885
ECIAI39_0157	0.00125	0.27435	0.00526
ECIAI39_0158	0.0037	0.2311	0.01585
ECIAI39_0159	0.0064	0.3134	0.02049
ECIAI39_0162	0	0.1675	0
ECIAI39_0163	0.0019	0.0104	0.18434
ECIAI39_0164	0	0.0293	0
ECIAI39_0165	0	0.02795	0
ECIAI39_0166	0.0024	0.0479	0.05091
ECIAI39_0167	0	0.0549	0
ECIAI39_0168	0.0078	0.0778	0.10068
ECIAI39_0169	0.0037	0.0831	0.06765
ECIAI39_0171	0	0.0721	0
ECIAI39_0172	0.0027	0.0914	0.02979

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0173	0.0026	0.0396	0.0657
ECIAI39_0175	0.0083	0.2032	0.04106
ECIAI39_0176	0.01345	0.22765	0.065705
ECIAI39_0179	0.0036	0.175	0.02044
ECIAI39_0180	0.0025	0.13835	0.025945
ECIAI39_0181	0.0064	0.2586	0.02465
ECIAI39_0182	0.0069	0.0866	0.07941
ECIAI39_0183	0.0502	0.426	0.11777
ECIAI39_0184	0.0489	0.3302	0.14815
ECIAI39_0185	0.00975	0.16965	0.058355
ECIAI39_0186	0.0188	0.1862	0.10079
ECIAI39_0187	0.03355	0.26455	0.1225925
ECIAI39_0188	0.006	0.1466	0.039335
ECIAI39_0189	0.0038	0.1448	0.026715
ECIAI39_0190	0.0057	0.1619	0.03547
ECIAI39_0191	0.0076	0.1282	0.05933
ECIAI39_0198	0.00955	0.12555	0.09383
ECIAI39_0199	0.0637	0.1469	0.43383
ECIAI39_0201	0.00905	0.1263	0.065685
ECIAI39_0202	0.0119	0.1674	0.0712
ECIAI39_0203	0.0061	0.3002	0.02017
ECIAI39_0204	0.0098	0.1848	0.05285
ECIAI39_0206	0.018	0.2307	0.07793
ECIAI39_0207	0.0029	0.1548	0.01878
ECIAI39_0208	0.0034	0.343	0.01003
ECIAI39_0210	0	0.2082	0
ECIAI39_0221	0.0873	0.2177	0.40086
ECIAI39_0222	0.0039	0.2083	0.01887
ECIAI39_0224	0.0073	0.1223	0.06667
ECIAI39_0226	0.009	0.3644	0.02465
ECIAI39_0228	0.00665	0.27515	0.02025
ECIAI39_0229	0.0107	0.3389	0.03163
ECIAI39_0273	0.0022	0.3786	0.00582
ECIAI39_0275	0.0079	0.1067	0.07365
ECIAI39_0277	0.013	0.1461	0.08895
ECIAI39_0279	0.0167	0.1395	0.11975
ECIAI39_0280	0.0056	0.1371	0.04059
ECIAI39_0284	0.015	0.077	0.19464
ECIAI39_0285	0.0116	0.11305	0.10121
ECIAI39_0286	0.0082	0.0645	0.12642
ECIAI39_0287	0.0088	0.077	0.11445
ECIAI39_0288	0.0308	0.3658	0.08431
ECIAI39_0291	0.0186	0.4844	0.03834
ECIAI39_0293	0.0426	0.4291	0.09933
ECIAI39_0294	0.0212	0.3397	0.06234
ECIAI39_0295	0.0266	0.3008	0.08834
ECIAI39_0297	0.0014	0.2211	0.00624

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Gene	*dN*	*dS*	ω
ECIAI39_0299	0.1271	1.6406	0.07749
ECIAI39_0301	0.0183	0.393	0.04566
ECIAI39_0303	0.0769	0.3228	0.23833
ECIAI39_0304	0.0397	0.3744	0.10596
ECIAI39_0305	0.04565	0.1593	0.32077
ECIAI39_0306	0.0276	0.47	0.05873
ECIAI39_0308	0.0132	0.467	0.02833
ECIAI39_0309	0.0211	0.4175	0.05044
ECIAI39_0315	0.0052	0.2343	0.02233
ECIAI39_0316	0.08105	0.4238	0.20928
ECIAI39_0317	0.0259	0.5523	0.04688
ECIAI39_0318	0.0049	0.2822	0.01748
ECIAI39_0320	0.0087	0.2402	0.0361
ECIAI39_0322	0.0075	0.3059	0.02453
ECIAI39_0324	0.0071	0.2332	0.03028
ECIAI39_0325	0.011	0.2194	0.05018
ECIAI39_0330	0.0497	0.2425	0.20486
ECIAI39_0331	0.0049	0.1062	0.04651
ECIAI39_0332	0.0227	0.18635	0.118445
ECIAI39_0333	0.056	0.271	0.20653
ECIAI39_0334	0.0196	0.1996	0.103495
ECIAI39_0343	0.0225	0.2536	0.08867
ECIAI39_0344	0.0481333333333333	0.188933333333333	0.604276666666667
ECIAI39_0345	0.00256666666666667	0.1557	0.0170033333333333
ECIAI39_0349	0.0136	0.3658	0.03708
ECIAI39_0350	0.0221	0.6191	0.03576
ECIAI39_0351	0.0161	0.2256	0.07136
ECIAI39_0354	0.024	0.5143	0.04667
ECIAI39_0362	0.0021	0.1615	0.01331
ECIAI39_0363	0.0074	0.2385	0.031
ECIAI39_0364	0.0047	0.1362	0.03461
ECIAI39_0365	0.00845	0.10785	0.083855
ECIAI39_0366	0.00505	0.1177	0.044755
ECIAI39_0367	0.0162	0.1161	0.13915
ECIAI39_0370	0	0.2878	0
ECIAI39_0371	0.00825	0.1204	0.07185
ECIAI39_0372	0.00803333333333333	0.155233333333333	0.0348733333333333
ECIAI39_0374	0.0016	0.1521	0.01048
ECIAI39_0375	0.01225	0.152	0.092695
ECIAI39_0378	0.0303	0.1628	0.18618
ECIAI39_0379	0.0833	0.3221	0.2585
ECIAI39_0381	0.0057	0.1232	0.04601
ECIAI39_0384	0.0035	0.1317	0.02631
ECIAI39_0385	0.001	0.1771	0.00559
ECIAI39_0388	0	0.0627	0
ECIAI39_0389	0.0008	0.1352	0.00596
ECIAI39_0391	0	0.2096	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0392	0.0076	0.2127	0.03557
ECIAI39_0393	0	0.0521	0
ECIAI39_0396	0	0.0504	0
ECIAI39_0398	0.0088	0.1867	0.04707
ECIAI39_0400	0.0086	0.3938	0.02182
ECIAI39_0401	0.0053	0.2834	0.01878
ECIAI39_0402	0.0035	0.14045	0.01996
ECIAI39_0403	0.011	0.2662	0.0412
ECIAI39_0406	0.0098	0.2288	0.04294
ECIAI39_0408	0.0162	0.2464	0.06587
ECIAI39_0409	0.0031	0.1802	0.01746
ECIAI39_0410	0.00465	0.1421	0.035895
ECIAI39_0412	0	0.108	0
ECIAI39_0413	0.0072	0.0873	0.08221
ECIAI39_0414	0.0062	0.1507	0.04133
ECIAI39_0416	0.0036	0.0619	0.029155
ECIAI39_0418	0.0011	0.0667	0.01701
ECIAI39_0419	0	0.1125	0
ECIAI39_0420	0	0.2369	0
ECIAI39_0423	0.0012	0.141	0.00848
ECIAI39_0428	0.0037	0.1392	0.02684
ECIAI39_0429	0.0363	0.1322	0.27459
ECIAI39_0430	0.0136	0.2869	0.0473
ECIAI39_0431	0.0113	0.16465	0.0702
ECIAI39_0432	0.0107	0.0657	0.16326
ECIAI39_0433	0	0.0774	0
ECIAI39_0434	0.0087	0.2231	0.03902
ECIAI39_0435	0.0254	0.3347	0.07601
ECIAI39_0437	0.0057	0.2595	0.02212
ECIAI39_0438	0	0.0914	0
ECIAI39_0439	0.0034	0.2482	0.01366
ECIAI39_0440	0.0016	0.2055	0.00774
ECIAI39_0441	0.0077	0.2331	0.034105
ECIAI39_0442	0	0.1761	0
ECIAI39_0445	0.0026	0.0637	0.04043
ECIAI39_0446	0.0067	0.0763	0.08729
ECIAI39_0449	0.003	0.2361	0.01287
ECIAI39_0451	0.0378333333333333	0.267233333333333	0.10497
ECIAI39_0454	0.0061	0.1331	0.0456
ECIAI39_0455	0	0.1105	0
ECIAI39_0456	0.0024	0.1295	0.01875
ECIAI39_0460	0.0008	0.1848	0.00409
ECIAI39_0463	0.0108	0.2046	0.05278
ECIAI39_0464	0.0235	0.1298	0.1812
ECIAI39_0466	0	0.2074	0
ECIAI39_0481	0.0341	0.4108	0.08313
ECIAI39_0482	0.0015	0.2811	0.00545

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Gene	*dN*	*dS*	ω
ECIAI39_0483	0.0137	0.1536	0.08908
ECIAI39_0484	0.0037	0.1504	0.02446
ECIAI39_0512	0.0238	0.201	0.11853
ECIAI39_0513	0.0022	0.2202	0.0102
ECIAI39_0515	0.0279	0.2612	0.1069
ECIAI39_0516	0.0141	0.2597	0.05422
ECIAI39_0517	0.0281	0.2712	0.10369
ECIAI39_0519	0.0186	0.2173	0.08577
ECIAI39_0522	0.0131	0.2242	0.05834
ECIAI39_0523	0.0397	0.216	0.18362
ECIAI39_0525	0.0178	0.239033333333333	0.07628
ECIAI39_0527	0.0182	0.2189	0.08314
ECIAI39_0528	0.01165	0.2612	0.03523
ECIAI39_0529	0.0164	0.1974	0.08291
ECIAI39_0530	0.01232	0.23366	0.05414
ECIAI39_0531	0.0053	0.196	0.02719
ECIAI39_0559	0.0157	0.1246	0.1263
ECIAI39_0563	0.01496	0.29056	0.054498
ECIAI39_0564	0.01245	0.19065	0.065225
ECIAI39_0566	0.006	0.238	0.02516
ECIAI39_0568	0.0065	0.2086	0.03095
ECIAI39_0569	0.0046	0.1512	0.03056
ECIAI39_0570	0.0128	0.1962	0.06518
ECIAI39_0571	0.0233	0.177666666666667	0.15577
ECIAI39_0575	0.062	0.4374	0.130605
ECIAI39_0578	0.0484	0.184	0.26301
ECIAI39_0579	0.0385	0.26	0.14822
ECIAI39_0580	0.0468	0.3377	0.13849
ECIAI39_0581	0.0315	0.4192	0.07519
ECIAI39_0583	0.0382	0.2555	0.14944
ECIAI39_0584	0.0036	0.3643	0.00992
ECIAI39_0586	0.0077	0.3363	0.02289
ECIAI39_0587	0.0059	0.3172	0.01861
ECIAI39_0588	0.0181	0.2513	0.07204
ECIAI39_0589	0.01	0.1955	0.05104
ECIAI39_0591	0.011	0.34455	0.028895
ECIAI39_0592	0.0088	0.1627	0.0541
ECIAI39_0594	0.0094	0.30995	0.03055
ECIAI39_0595	0.00275	0.3973	0.007045
ECIAI39_0597	0.0222	0.4349	0.056515
ECIAI39_0598	0.0138	0.1753	0.07844
ECIAI39_0600	0.0189	0.4221	0.04473
ECIAI39_0603	0.0647666666666667	1.4543	0.0418466666666667
ECIAI39_0604	0	0.0338	0
ECIAI39_0606	0.0009	0.2115	0.00424
ECIAI39_0607	0.014	0.4837	0.02897
ECIAI39_0610	0.00715	0.13265	0.05911

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Gene	*dN*	*dS*	ω
ECIAI39_0611	0	0.1207	0
ECIAI39_0612	0.004	0.202	0.01991
ECIAI39_0613	0.0121	0.0666	0.18119
ECIAI39_0615	0.0075	0.1662	0.04526
ECIAI39_0616	0.0064	0.1559	0.0413
ECIAI39_0617	0.00766666666666667	0.0673333333333333	0.09684
ECIAI39_0618	0.0049	0.2136	0.02279
ECIAI39_0619	0.0023	0.1124	0.02029
ECIAI39_0620	0.001	0.1494	0.00701
ECIAI39_0623	0.00975	0.0868	0.06156
ECIAI39_0624	0	0.05635	0
ECIAI39_0626	0.0647	0.1253	0.51669
ECIAI39_0627	0.0047	0.1481	0.03157
ECIAI39_0628	0.0006	0.07655	0.005335
ECIAI39_0629	0.0068	0.1339	0.05084
ECIAI39_0631	0	0.0751	0
ECIAI39_0632	0.0411	0.2717	0.15145
ECIAI39_0633	0.0067	0.1265	0.05303
ECIAI39_0634	0.0267333333333333	0.279866666666667	0.0654333333333333
ECIAI39_0636	0.006	0.1798	0.03346
ECIAI39_0646	0.0141	0.2109	0.06687
ECIAI39_0647	0.01	0.3702	0.02692
ECIAI39_0648	0.0043	0.384	0.01127
ECIAI39_0650	0.0086	0.2864	0.0325
ECIAI39_0654	0.00506666666666667	0.1296	0.0360733333333333
ECIAI39_0656	0.0169	0.3667	0.034155
ECIAI39_0658	0.0051	0.3855	0.01312
ECIAI39_0660	0	0.3489	0
ECIAI39_0661	0	0.235	0
ECIAI39_0663	0.0018	0.1581	0.01127
ECIAI39_0665	0.0131	0.2537	0.05164
ECIAI39_0667	0.0041	0.2614	0.01556
ECIAI39_0669	0.0133	0.2025	0.06593
ECIAI39_0670	0.0152	0.3023	0.04907
ECIAI39_0671	0	0.0979	0
ECIAI39_0673	0.00245	0.15345	0.019495
ECIAI39_0674	0.0027	0.0413	0.06578
ECIAI39_0676	0.0061	0.277	0.02199
ECIAI39_0683	0.01385	0.338	0.039355
ECIAI39_0684	0.0445	0.2225	0.19999
ECIAI39_0686	0.0107	0.3109	0.03434
ECIAI39_0687	0.0399	0.3704	0.096035
ECIAI39_0688	0.0274	0.1547	0.17739
ECIAI39_0697	0.06125	0.41215	0.153115
ECIAI39_0700	0.002	0.1203	0.01636
ECIAI39_0701	0.0132	0.2359	0.055735
ECIAI39_0702	0.0584	0.1799	0.32487

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0703	0.02495	0.3695	0.08408
ECIAI39_0710	0	0.2351	0
ECIAI39_0713	0.0039	0.035	0.11088
ECIAI39_0714	0.0008	0.2776	0.00295
ECIAI39_0715	0.004	0.062	0.06462
ECIAI39_0719	0.0046	0.1235	0.03698
ECIAI39_0720	0	0.1213	0
ECIAI39_0722	0	0.2529	0
ECIAI39_0728	0	0.0812	0
ECIAI39_0731	0	0.0782	0
ECIAI39_0732	0	0.03	0
ECIAI39_0733	0.001	0.0985	0.006225
ECIAI39_0734	0.0097	0.1406	0.06928
ECIAI39_0735	0	0.1519	0
ECIAI39_0736	0.0027	0.0517	0.05175
ECIAI39_0738	0.0107	0.0566	0.18917
ECIAI39_0740	0.01785	0.1349	0.133035
ECIAI39_0741	0.0062	0.1516	0.04103
ECIAI39_0742	0.0073	0.1481	0.04914
ECIAI39_0743	0.0093	0.2456	0.03794
ECIAI39_0745	0.0108	0.1653	0.06554
ECIAI39_0749	0.0098	0.1842	0.05318
ECIAI39_0750	0.0014	0.1238	0.01108
ECIAI39_0751	0.0119	0.2129	0.0557
ECIAI39_0752	0	0.1362	0
ECIAI39_0753	0	0.033	0
ECIAI39_0754	0.0135	0.1863	0.07272
ECIAI39_0755	0.00955	0.2167	0.043315
ECIAI39_0756	0.0087	0.3071	0.02833
ECIAI39_0757	0.0015	0.1454	0.01055
ECIAI39_0763	0.0032	0.4351	0.0073
ECIAI39_0764	0.0116	0.2286	0.05084
ECIAI39_0766	0.0078	0.2281	0.0344
ECIAI39_0767	0.0124	0.1922	0.06463
ECIAI39_0768	0.0157	0.2546	0.06166
ECIAI39_0769	0.0026	0.3648	0.00715
ECIAI39_0770	0.0444	0.311966666666667	0.15727
ECIAI39_0771	0.0352	0.28675	0.122115
ECIAI39_0773	0.0014	0.3217	0.00433
ECIAI39_0775	0.0075	0.2922	0.02531
ECIAI39_0776	0.013125	0.162775	0.0972175
ECIAI39_0777	0.0125	0.3627	0.03442
ECIAI39_0778	0.0414	0.27505	0.15184
ECIAI39_0780	0.0012	0.2636	0.00439
ECIAI39_0782	0.00163333333333333	0.1529	0.0105666666666667
ECIAI39_0784	0	0.2973	0
ECIAI39_0786	0.00565	0.2903	0.018545

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0788	0.00125	0.29945	0.004855
ECIAI39_0789	0.0676	0.4207	0.16057
ECIAI39_0791	0.0046	0.3306	0.01403
ECIAI39_0793	0.02025	0.2005	0.10097
ECIAI39_0795	0.01975	0.2125	0.091425
ECIAI39_0796	0.0099	0.2186	0.04518
ECIAI39_0797	0.013	0.1495	0.154605
ECIAI39_0798	0.0195	0.2161	0.09009
ECIAI39_0799	0.0071	0.2855	0.02499
ECIAI39_0800	0.002	0.13515	0.013145
ECIAI39_0801	0	0.0741	0
ECIAI39_0802	0	0.0555	0
ECIAI39_0803	0.005	0.1159	0.04323
ECIAI39_0804	0	0.0512	0
ECIAI39_0805	0.0132	0.1252	0.10575
ECIAI39_0806	0.0063	0.1336	0.04718
ECIAI39_0807	0.01125	0.23715	0.03675
ECIAI39_0809	0	0.2351	0
ECIAI39_0810	0.0129	0.1346	0.09592
ECIAI39_0811	0.0053	0.3875	0.01358
ECIAI39_0814	0.0277	0.21255	0.1274
ECIAI39_0815	0.0237	0.2368	0.10002
ECIAI39_0816	0.0254	0.4342	0.05846
ECIAI39_0817	0.0254	0.2317	0.105545
ECIAI39_0818	0.01605	0.09375	0.152455
ECIAI39_0821	0.0084	0.1399	0.06027
ECIAI39_0823	0.0015	0.1409	0.01064
ECIAI39_0824	0.0049	0.1853	0.02655
ECIAI39_0827	0.0097	0.1683	0.05792
ECIAI39_0830	0.001	0.097	0.01067
ECIAI39_0831	0	0.0068	0
ECIAI39_0834	0.0024	0.0746	0.03175
ECIAI39_0835	0.0024	0.1403	0.01685
ECIAI39_0836	0.0076	0.1958	0.03873
ECIAI39_0837	0.00475	0.1442	0.049595
ECIAI39_0839	0.00885	0.0833	0.3149
ECIAI39_0840	0.016	0.1865	0.08588
ECIAI39_0841	0.0049	0.1657	0.02983
ECIAI39_0842	0.0158	0.1133	0.13981
ECIAI39_0844	0	0.1722	0
ECIAI39_0846	0.017625	0.061325	0.4723425
ECIAI39_0848	0	0.0844	0
ECIAI39_0849	0.0051	0.5129	0.00995
ECIAI39_0850	0.01	0.3346	0.02992
ECIAI39_0851	0.0081	0.3351	0.02432
ECIAI39_0852	0.0107333333333333	0.265766666666667	0.03091
ECIAI39_0853	0.0134	0.4725	0.02841

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0854	0.0106	0.412	0.021585
ECIAI39_0855	0.0057	0.4123	0.01391
ECIAI39_0857	0	0.0611	0
ECIAI39_0858	0.0014	0.1819	0.00761
ECIAI39_0860	0.014	0.2789	0.05018
ECIAI39_0861	0.0135	0.2997	0.04497
ECIAI39_0862	0	0.1668	0
ECIAI39_0863	0.0159	0.32415	0.062295
ECIAI39_0864	0.0034	0.2352	0.01463
ECIAI39_0865	0.0082	0.1977	0.04153
ECIAI39_0866	0.0068	0.1892	0.03581
ECIAI39_0867	0.0018	0.2234	0.00797
ECIAI39_0870	0.0073	0.1322	0.05547
ECIAI39_0872	0.01	0.1161	0.08628
ECIAI39_0873	0.009	0.154	0.05845
ECIAI39_0874	0	0.0138	0
ECIAI39_0876	0	0.193	0
ECIAI39_0878	0	0	0
ECIAI39_0879	0.0081	0.1919	0.04207
ECIAI39_0880	0.0115	0.1579	0.07265
ECIAI39_0881	0.00413333333333333	0.133566666666667	0.0247333333333333
ECIAI39_0882	0	0.0522	0
ECIAI39_0883	0.01985	0.1652	0.119985
ECIAI39_0887	0	0.053	0
ECIAI39_0888	0.0032	0.232	0.01371
ECIAI39_0890	0	0.1209	0
ECIAI39_0892	0.0071	0.2743	0.02589
ECIAI39_0893	0.00973333333333333	0.202633333333333	0.04643
ECIAI39_0894	0.00775	0.17175	0.04631
ECIAI39_0896	0	0.07225	0
ECIAI39_0897	0.0092	0.1754	0.05259
ECIAI39_0900	0.0067	0.2637	0.02534
ECIAI39_0901	0.01038	0.30026	0.034374
ECIAI39_0902	0.0102	0.21465	0.03085
ECIAI39_0903	0	0.0245	0
ECIAI39_0906	0.0878	0.1379	0.63645
ECIAI39_0908	0.0177333333333333	0.1491	0.139223333333333
ECIAI39_0909	0.0221	0.1061	0.20833
ECIAI39_0911	0.0202	0.1374	0.14665
ECIAI39_0913	0.0078	0.2126	0.03685
ECIAI39_0914	0.0037	0.0854	0.04307
ECIAI39_0915	0.0022	0.1836	0.01219
ECIAI39_0916	0.0018	0.0919	0.01983
ECIAI39_0917	0.003	0.1759	0.01682
ECIAI39_0918	0.00315	0.1184	0.017165
ECIAI39_0920	0.0049	0.27	0.01797
ECIAI39_0925	0.0118	0.1136	0.10399

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_0926	0.0059	0.10905	0.06214
ECIAI39_0927	0.006	0.1186	0.05062
ECIAI39_0928	0	0.0794	0
ECIAI39_0929	0.0182	0.3836	0.04753
ECIAI39_0930	0.0021	0.1448	0.01428
ECIAI39_0933	0.0074	0.1438	0.05151
ECIAI39_0936	0.0105	0.3533	0.02962
ECIAI39_0938	0.01772	0.36596	0.049644
ECIAI39_0939	0.038	0.5186	0.07336
ECIAI39_0943	0.0028	0.1697	0.01632
ECIAI39_0944	0.0078	0.2565	0.03041
ECIAI39_0946	0.0078	0.2316	0.034405
ECIAI39_0948	0.0034	0.1517	0.02259
ECIAI39_0949	0.0035	0.099	0.03516
ECIAI39_0950	0.0106	0.2091	0.05049
ECIAI39_0952	0.0029	0.1018	0.01421
ECIAI39_0953	0.003	0.125	0.02364
ECIAI39_0954	0.0072	0.0891	0.08035
ECIAI39_0955	0.0108	0.14164	0.11078
ECIAI39_0957	0.0042	0.1536	0.02762
ECIAI39_0958	0.0102	0.0794	0.12864
ECIAI39_0960	0.0101	0.1233	0.08194
ECIAI39_0962	0.00595	0.11685	0.045275
ECIAI39_0963	0.0059	0.14005	0.022475
ECIAI39_0964	0.015	0.1769	0.08488
ECIAI39_0965	0.0212	0.22925	0.08525
ECIAI39_0966	0.0045	0.1398	0.03222
ECIAI39_0967	0.0025	0.1877	0.01357
ECIAI39_0968	0.0047	0.2447	0.01917
ECIAI39_0969	0.0335	0.3686	0.0798
ECIAI39_0970	0.021	0.16985	0.12873
ECIAI39_0971	0.0055	0.108	0.05129
ECIAI39_0972	0.0067	0.1931	0.03463
ECIAI39_0973	0.0204	0.1716	0.11872
ECIAI39_0983	0	0.0962	0
ECIAI39_0984	0	0.12	0
ECIAI39_0985	0.0391	0.1362	0.28746
ECIAI39_0987	0.0264	0.2071	0.12767
ECIAI39_0988	0.0728	0.3364	0.21638
ECIAI39_0989	0.0294	0.171633333333333	0.188913333333333
ECIAI39_0990	0.00435	0.1994	0.02517
ECIAI39_0992	0.013	0.2166	0.06018
ECIAI39_0994	0.0597	0.2632	0.22677
ECIAI39_0995	0.0049	0.155	0.03157
ECIAI39_0996	0.0123	0.0939	0.13149
ECIAI39_0998	0.0152	0.2024	0.07492
ECIAI39_0999	0	0.0368	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1001	0.0155	0.2375	0.06545
ECIAI39_1002	0.02185	0.2565	0.08441
ECIAI39_1003	0.02195	0.12955	0.179865
ECIAI39_1004	0.0253	0.1804	0.14044
ECIAI39_1005	0.0075	0.2476	0.03015
ECIAI39_1006	0.0068	0.2243	0.03018
ECIAI39_1008	0.0085	0.2827	0.03009
ECIAI39_1017	0.0141	0.2391	0.0589
ECIAI39_1018	0.0625	0.4772	0.1309
ECIAI39_1022	0.0037	0.0753	0.04852
ECIAI39_1035	0.0038	0.2075	0.01818
ECIAI39_1038	0.0238	0.1133	0.2104
ECIAI39_1039	0.0017	0.1942	0.00869
ECIAI39_1040	0.0031	0.129866666666667	0.0234166666666667
ECIAI39_1042	0.0029	0.051	0.05685
ECIAI39_1043	0.01425	0.3513	0.14426
ECIAI39_1044	0.01425	0.1372	0.09753
ECIAI39_1045	0.008	0.1709	0.04709
ECIAI39_1046	0.0052	0.1797	0.02869
ECIAI39_1048	0.001	0.1123	0.00846
ECIAI39_1050	0.01035	0.20155	0.04784
ECIAI39_1055	0.0046	0.094	0.04847
ECIAI39_1056	0.0106	0.1869	0.05661
ECIAI39_1058	0.0052	0.1711	0.03029
ECIAI39_1059	0.0169	0.1694	0.09978
ECIAI39_1060	0.0156	0	NA
ECIAI39_1061	0.00835	0.1865	0.044315
ECIAI39_1062	0	0.0577	0
ECIAI39_1063	0.0041	0.0911	0.052115
ECIAI39_1064	0.01475	0.17785	0.08488
ECIAI39_1065	0.0019	0.1712	0.0111
ECIAI39_1068	0.0097	0.103	0.09392
ECIAI39_1069	0	0.1179	0
ECIAI39_1070	0.0122	0.23506	0.049776
ECIAI39_1071	0.00105	0.1436	0.007525
ECIAI39_1073	0.0106	0.1566	0.06751
ECIAI39_1074	0.0127888888888889	0.132811111111111	0.0899011111111111
ECIAI39_1075	0.00625714285714286	0.0663571428571429	0.0971257142857143
ECIAI39_1076	0.0086	0.1551	0.05542
ECIAI39_1077	0.0087	0.18305	0.06161
ECIAI39_1078	0	0.0509	0
ECIAI39_1081	0.01295	0.07665	0.56286
ECIAI39_1082	0.0272	0.0381	0.71543
ECIAI39_1084	0.0048	0.3155	0.01531
ECIAI39_1086	0.0056	0.1685	0.03341
ECIAI39_1087	0.0052	0.1191	0.04391
ECIAI39_1088	0.0195	0.1261	0.15498

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1089	0.0057	0.1354	0.050555
ECIAI39_1091	0.0067	0.2387	0.02825
ECIAI39_1094	0.0221	0.2415	0.0914
ECIAI39_1095	0.0496	0.2921	0.16994
ECIAI39_1096	0	0.2536	0
ECIAI39_1097	0.0061	0.4054	0.01506
ECIAI39_1098	0.0116	0.2625	0.04428
ECIAI39_1101	0.00495	0.25425	0.03852
ECIAI39_1105	0.0065	0.323	0.02022
ECIAI39_1106	0.0019	0.2468	0.00762
ECIAI39_1107	0.0019	0.1745	0.01079
ECIAI39_1109	0.0027	0.1217	0.02188
ECIAI39_1111	0.0027	0.1118	0.02395
ECIAI39_1113	0.0065	0.1706	0.03823
ECIAI39_1115	0.00505	0.1568	0.0408
ECIAI39_1118	0.0031	0.1535	0.02044
ECIAI39_1119	0.0046	0.1446	0.03192
ECIAI39_1121	0.0216	0.235433333333333	0.0766866666666667
ECIAI39_1155	0	0.0796	0
ECIAI39_1156	0.0042	0.0686	0.06095
ECIAI39_1157	0.0285	0.0775	0.36742
ECIAI39_1161	0.0151	0.0646	0.1929
ECIAI39_1163	0.00975	0.13645	0.07262
ECIAI39_1164	0.0085	0.1027	0.08274
ECIAI39_1165	0.0097	0.3102	0.03131
ECIAI39_1167	0.0027	0.1502	0.01771
ECIAI39_1169	0.0011	0.1628	0.00672
ECIAI39_1170	0.0123	0.1654	0.0741
ECIAI39_1171	0.0055	0.2686	0.02052
ECIAI39_1173	0.02065	0.13165	0.132645
ECIAI39_1174	0.0331	0.1527	0.21659
ECIAI39_1175	0.0245	0.1608	0.15237
ECIAI39_1176	0.0047	0.1678	0.0281
ECIAI39_1177	0.02065	0.09085	0.221115
ECIAI39_1178	0.0068	0.1008	0.06709
ECIAI39_1179	0.0117	0.06005	0.21862
ECIAI39_1187	0.0013	0.1561	0.00828
ECIAI39_1188	0.0026	0.0926	0.02856
ECIAI39_1189	0	0.0603	0
ECIAI39_1190	0.0054	0.2117	0.02561
ECIAI39_1192	0	0.0433	0
ECIAI39_1193	0.00955	0.1589	0.075505
ECIAI39_1194	0.0126	0.3773	0.03346
ECIAI39_1195	0	0.1496	0
ECIAI39_1196	0.0224	0.1903	0.11755
ECIAI39_1198	0.0017	0.1271	0.01387
ECIAI39_1200	0.0092	0.1357	0.06809

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Gene	*dN*	*dS*	ω
ECIAI39_1201	0.0114	0.18235	0.087195
ECIAI39_1203	0.008	0.1177	0.06764
ECIAI39_1204	0.0089	0.1477	0.06038
ECIAI39_1205	0.00355	0.1175	0.03163
ECIAI39_1214	0.0037	0.2594	0.01423
ECIAI39_1216	0.0072	0.2511	0.02634
ECIAI39_1219	0.0257	0.1409	0.18247
ECIAI39_1220	0.0015	0.1394	0.011465
ECIAI39_1221	0.0015	0.1217	0.01213
ECIAI39_1222	0	0.0533	0
ECIAI39_1223	0.0069	0.065	0.10632
ECIAI39_1228	0.0011	0.1013	0.01076
ECIAI39_1232	0.0023	0.0894	0.02623
ECIAI39_1236	0	0.1595	0
ECIAI39_1237	0.00515	0.1477	0.03522
ECIAI39_1238	0.0014	0.1796	0.00804
ECIAI39_1240	0.002	0.1756	0.01116
ECIAI39_1245	0.0065	0.115325	0.0537075
ECIAI39_1246	0.0051	0.1388	0.03698
ECIAI39_1247	0.006	0.0848	0.07026
ECIAI39_1248	0.0127	0.174633333333333	0.100363333333333
ECIAI39_1249	0.0278	0.332	0.08386
ECIAI39_1250	0.0046	0.3498	0.01323
ECIAI39_1251	0.0323	0.1601	0.20192
ECIAI39_1252	0.0439	0.2708	0.16204
ECIAI39_1254	0.0237	0.2871	0.08264
ECIAI39_1255	0.0137	0.1341	0.10244
ECIAI39_1257	0	0.27	0
ECIAI39_1262	0.01395	0.42745	0.0281
ECIAI39_1263	0.0207	0.1666	0.12402
ECIAI39_1265	0.0104	0.2345	0.04418
ECIAI39_1267	0	0.0833	0
ECIAI39_1268	0.0027	0.1777	0.01505
ECIAI39_1269	0.0015	0.1456	0.01057
ECIAI39_1270	0.0327	0.1448	0.22606
ECIAI39_1272	0.0028	0.0556	0.04992
ECIAI39_1273	0.0161	0.1097	0.1463
ECIAI39_1274	0.01585	0.14035	0.16194
ECIAI39_1277	0.01365	0.1787	0.100625
ECIAI39_1278	0.0037	0.2102	0.0174
ECIAI39_1279	0.0132	0.1866	0.0705
ECIAI39_1281	0.0046	0.1049	0.04377
ECIAI39_1283	0.0588	0.1792	0.32795
ECIAI39_1285	0.0037	0.0927	0.03982
ECIAI39_1287	0.0035	0.1985	0.01771
ECIAI39_1288	0	0.2346	0
ECIAI39_1289	0.00545	0.187	0.034125

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1290	0.007	0.1919	0.03642
ECIAI39_1292	0.0166	0.0687	0.24096
ECIAI39_1300	0.0118	0.2989	0.03936
ECIAI39_1302	0.0124	0.173	0.07162
ECIAI39_1303	0.0086	0.0656	0.081155
ECIAI39_1304	0.00945	0.13715	0.08784
ECIAI39_1319	0.0103	0.5062	0.02036
ECIAI39_1320	0.0112	0.3602	0.03096
ECIAI39_1322	0.0109	0.154933333333333	0.0923033333333333
ECIAI39_1324	0.0082	0.1794	0.04542
ECIAI39_1329	0.0084	0.1721	0.04861
ECIAI39_1332	0	0.1462	0
ECIAI39_1333	0.003	0.0986	0.03069
ECIAI39_1334	0.0104	0.1981	0.03832
ECIAI39_1340	0.0148	0.1623	0.090855
ECIAI39_1342	0	0.1697	0
ECIAI39_1344	0.0169	0.1964	0.08584
ECIAI39_1346	0.0061	0.1904	0.03186
ECIAI39_1368	0.00505	0.11865	0.06141
ECIAI39_1371	0.01025	0.1708	0.069515
ECIAI39_1375	0.0109	0.2	0.05428
ECIAI39_1377	0.118366666666667	1.16806666666667	0.104663333333333
ECIAI39_1403	0.0590333333333333	0.389666666666667	0.145996666666667
ECIAI39_1404	0.0835	0.1782	0.46839
ECIAI39_1405	0.04405	0.36865	0.1171
ECIAI39_1406	0.046	0.2434	0.18908
ECIAI39_1410	0.0059	0.3987	0.0147
ECIAI39_1415	0.0205	0.1694	0.12083
ECIAI39_1456	0.0427	0.687	0.06208
ECIAI39_1457	0.0282	0.1798	0.15701
ECIAI39_1458	0.0221	0.3042	0.07276
ECIAI39_1459	0.0597	0.3555	0.16782
ECIAI39_1460	0.0524333333333333	1.09363333333333	0.0473866666666667
ECIAI39_1461	0.0235	0.2341	0.10028
ECIAI39_1462	0.0053	0.4517	0.01173
ECIAI39_1465	0.0168	0.3472	0.04832
ECIAI39_1470	0.0092	0.2128	0.04337
ECIAI39_1472	0.0062	0.0737	0.08469
ECIAI39_1473	0.0066	0.1366	0.04835
ECIAI39_1478	0.0033	0.2483	0.01319
ECIAI39_1479	0.0082	0.142	0.096775
ECIAI39_1492	0.0084	0.0527	0.16003
ECIAI39_1495	0.0075	0.168	0.0449
ECIAI39_1497	0.0076	0.0871	0.08721
ECIAI39_1502	0.0206	0.1024	0.2015
ECIAI39_1511	0.0101	0.1642	0.06165
ECIAI39_1512	0.0064	0.1429	0.04469

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1514	0.0175	0.12	0.14603
ECIAI39_1515	0.0863	0.2119	0.40721
ECIAI39_1517	0.0091	0.1908	0.04791
ECIAI39_1518	0.0203	0.2152	0.09445
ECIAI39_1537	0.0618	0.2564	0.24099
ECIAI39_1539	0.0084	0.2117	0.0398
ECIAI39_1540	0.007	0.2268	0.03073
ECIAI39_1542	0.01215	0.18145	0.06605
ECIAI39_1543	0.003	0.181	0.01677
ECIAI39_1544	0.0147	0.2011	0.07299
ECIAI39_1547	0.0037	0.2113	0.01772
ECIAI39_1549	0.0044	0.1865	0.02355
ECIAI39_1550	0.0083	0.1583	0.05217
ECIAI39_1551	0.0321	0.326733333333333	0.0975733333333333
ECIAI39_1554	0.0199	0.2694	0.07388
ECIAI39_1558	0.0384	0.0443	0.86672
ECIAI39_1559	0.0119	0.2011	0.0592
ECIAI39_1560	0.0097	0.1102	0.08841
ECIAI39_1561	0.0038	0.0987	0.03874
ECIAI39_1562	0.0134	0.13325	0.080135
ECIAI39_1582	0.0251	0.12505	0.206345
ECIAI39_1583	0.0046	0.2265	0.02022
ECIAI39_1584	0.01825	0.15165	0.148075
ECIAI39_1586	0.0178	0.2144	0.08286
ECIAI39_1589	0.0037	0.1737	0.02158
ECIAI39_1591	0.0085	0.169	0.05054
ECIAI39_1593	0.0338	0.1422	0.23779
ECIAI39_1595	0.0139	0.1381	0.10073
ECIAI39_1597	0.0127	0.1279	0.09936
ECIAI39_1598	0.0023	0.0458	0.04944
ECIAI39_1599	0.00675	0.15865	0.047065
ECIAI39_1600	0.0055	0.1594	0.03464
ECIAI39_1601	0.01815	0.10095	0.19008
ECIAI39_1602	0	0.0776	0
ECIAI39_1604	0.00495	0.15795	0.028535
ECIAI39_1605	0.0096	0.1086	0.08878
ECIAI39_1608	0.003	0.113	0.02691
ECIAI39_1613	0.0113	0.13435	0.085395
ECIAI39_1617	0.0105	0.2115	0.050165
ECIAI39_1619	0.0162	0.1943	0.08319
ECIAI39_1621	0.01515	0.07465	0.441215
ECIAI39_1622	0.0152	0.1314	0.11595
ECIAI39_1625	0.0038	0.1501	0.0251
ECIAI39_1627	0.0062	0.175033333333333	0.0404666666666667
ECIAI39_1628	0.0028	0.1935	0.01469
ECIAI39_1629	0.0062	0.1489	0.04193
ECIAI39_1630	0.0239	0.2611	0.09137

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1632	0.0086	0.1274	0.06788
ECIAI39_1633	0.0069	0.1817	0.03817
ECIAI39_1635	0	0.0617	0
ECIAI39_1636	0.00245	0.11635	0.020885
ECIAI39_1638	0.034275	0.1397	0.2170175
ECIAI39_1639	0.0101	0.10905	0.10417
ECIAI39_1642	0.0142	0.1298	0.10966
ECIAI39_1643	0.0049	0.1551	0.03172
ECIAI39_1644	0.0023	0.0894	0.02567
ECIAI39_1645	0.01455	0.2778	0.05032
ECIAI39_1647	0.0064	0.11455	0.05212
ECIAI39_1648	0.0135	0.1191	0.11318
ECIAI39_1649	0.019	0.1895	0.10006
ECIAI39_1651	0.0065	0.15485	0.04291
ECIAI39_1652	0.0362	0.1872	0.19326
ECIAI39_1653	0.00505	0.1638	0.030495
ECIAI39_1654	0.0023	0.1175	0.01995
ECIAI39_1662	0.0044	0.06345	0.24207
ECIAI39_1663	0.0093	0.11155	0.077595
ECIAI39_1665	0.0078	0.1311	0.05911
ECIAI39_1666	0.0014	0.2048	0.0068
ECIAI39_1667	0.0015	0.1659	0.00908
ECIAI39_1668	0.0088	0.1345	0.06511
ECIAI39_1669	0.0046	0.183	0.02502
ECIAI39_1670	0.0023	0.126	0.01818
ECIAI39_1671	0.0053	0.1384	0.03816
ECIAI39_1672	0.0257	0.1482	0.17341
ECIAI39_1673	0.0355	0.2292	0.15512
ECIAI39_1674	0.0251	0.1464	0.17123
ECIAI39_1675	0.01555	0.15335	0.109385
ECIAI39_1676	0.0341	0.0988	0.34526
ECIAI39_1677	0.0349	0.1206	0.28933
ECIAI39_1679	0.0093	0.2037	0.0457
ECIAI39_1680	0.0067	0.1375	0.04844
ECIAI39_1682	0.001	0.0724	0.01398
ECIAI39_1685	0.009	0.16305	0.05633
ECIAI39_1688	0.0196	0.1841	0.10061
ECIAI39_1689	0.0058	0.1336	0.04333
ECIAI39_1690	0.0125	0.1585	0.07874
ECIAI39_1691	0.0114	0.14565	0.078195
ECIAI39_1695	0.004	0.1541	0.02612
ECIAI39_1697	0.02455	0.1582	0.172525
ECIAI39_1698	0.0121333333333333	0.151966666666667	0.0867033333333333
ECIAI39_1700	0.0101	0.1851	0.05465
ECIAI39_1703	0.0078	0.1983	0.03951
ECIAI39_1704	0.0346	0.113	0.30652
ECIAI39_1705	0.015	0.1362	0.11007

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1706	0.0198	0.234333333333333	0.0839933333333333
ECIAI39_1709	0.013	0.14468	0.124254
ECIAI39_1710	0.0287	0.1521	0.18879
ECIAI39_1711	0.009	0.129	0.0710866666666667
ECIAI39_1712	0.019	0.1087	0.17439
ECIAI39_1713	0	0	0
ECIAI39_1714	0.0057	0.2042	0.0278
ECIAI39_1715	0.0015	0.137	0.01067
ECIAI39_1716	0	0.0173	0
ECIAI39_1717	0	0	0
ECIAI39_1718	0.0022	0.1109	0.01991
ECIAI39_1722	0.0146	0.1674	0.08744
ECIAI39_1723	0.0066	0.1277	0.05143
ECIAI39_1725	0.0072	0.1464	0.04892
ECIAI39_1726	0.0025	0.117	0.02178
ECIAI39_1728	0.0096	0.1674	0.05745
ECIAI39_1729	0.0064	0.0937	0.06877
ECIAI39_1730	0.03296	0.33466	0.313678
ECIAI39_1731	0.00565	0.15335	0.039465
ECIAI39_1732	0.006	0.1386	0.04448
ECIAI39_1733	0	0	0
ECIAI39_1734	0.0119	0.1976	0.06002
ECIAI39_1735	0.0185	0.2732	0.06772
ECIAI39_1736	0.0141	0.16752	0.107228
ECIAI39_1738	0.0481	0.27745	0.17907
ECIAI39_1739	0.0256	0.3489	0.07333
ECIAI39_1741	0.0221	0.4056	0.05454
ECIAI39_1742	0.0085	0.2232	0.03812
ECIAI39_1743	0.022825	0.283225	0.08312
ECIAI39_1747	0.0199	0.20445	0.119665
ECIAI39_1748	0.0214	0.2256	0.09484
ECIAI39_1749	0.0298	0.22885	0.135765
ECIAI39_1750	0.0351	0.2572	0.13658
ECIAI39_1751	0.0436	0.349966666666667	0.158533333333333
ECIAI39_1752	0.0172	0.2283	0.07546
ECIAI39_1755	0.0043	0.2262	0.01914
ECIAI39_1756	0.0014	0.2736	0.00507
ECIAI39_1757	0.0085	0.28375	0.028195
ECIAI39_1758	0.0051	0.2612	0.01954
ECIAI39_1759	0.0122	0.191533333333333	0.07561
ECIAI39_1760	0.01465	0.20545	0.061475
ECIAI39_1761	0.01495	0.09755	0.159845
ECIAI39_1762	0.0117	0.1545	0.07561
ECIAI39_1763	0.0163	0.16805	0.09833
ECIAI39_1764	0.0053	0.1514	0.03504
ECIAI39_1766	0.00923333333333333	0.1009	0.105076666666667
ECIAI39_1767	0.0249	0.1865	0.172735

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_1768	0.0037	0.0605	0.06185
ECIAI39_1780	0.0045	0.115	0.03921
ECIAI39_1782	0.00575	0.21755	0.063285
ECIAI39_1783	0.0143	0.1337	0.097885
ECIAI39_1785	0.0115	0.1689	0.06789
ECIAI39_1786	0.0159	0.1286	0.185085
ECIAI39_1787	0	0.139	0
ECIAI39_1788	0.0041	0.07825	0.03643
ECIAI39_1789	0.0156	0.093	0.187925
ECIAI39_1794	0.004	0.1405	0.02848
ECIAI39_1796	0.0025	0.34	0.0074
ECIAI39_1797	0.0127	0.2266	0.05627
ECIAI39_1800	0.0022	0.3131	0.00715
ECIAI39_1802	0.0042	0.1606	0.02622
ECIAI39_1803	0.023	0.181	0.12709
ECIAI39_1804	0	0.1153	0
ECIAI39_1805	0.0422	0.1361	0.31024
ECIAI39_1806	0.0584	0.1752	0.33339
ECIAI39_1807	0.0209	0.1837	0.11398
ECIAI39_1809	0.0079	0.1977	0.04014
ECIAI39_1812	0.0032	0.1907	0.01678
ECIAI39_1813	0.0182	0.0835	0.21774
ECIAI39_1814	0.0087	0.1177	0.07382
ECIAI39_1818	0	0.0628	0
ECIAI39_1820	0	0.1113	0
ECIAI39_1823	0.01805	0.1136	0.15475
ECIAI39_1825	0.0094	0.1538	0.06098
ECIAI39_1827	0.0088	0.1078	0.08142
ECIAI39_1829	0.012	0.1487	0.0807
ECIAI39_1830	0.0017	0.1034	0.016
ECIAI39_1831	0.0047	0.2034	0.02295
ECIAI39_1832	0.0111	0.0416	0.26696
ECIAI39_1834	0.0238	0.0962	0.24769
ECIAI39_1835	0.0069	0.1918	0.03613
ECIAI39_1836	0.0051	0.2236	0.02292
ECIAI39_1837	0.005	0.2826	0.01764
ECIAI39_1839	0.02205	0.37885	0.07689
ECIAI39_1840	0.0138	0.1713	0.0808
ECIAI39_1841	0.01915	0.11885	0.192605
ECIAI39_1842	0	0.0627	0
ECIAI39_1843	0.0089	0.0906	0.09796
ECIAI39_1845	0.0109	0.1805	0.06036
ECIAI39_1846	0.0241	0.1484	0.16269
ECIAI39_1847	0	0.0484	0
ECIAI39_1849	0.03605	0.2575	0.13646
ECIAI39_1850	0	0.0521	0
ECIAI39_1853	0.0018	0.1128	0.016485

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Gene	*dN*	*dS*	ω
ECIAI39_1855	0.00346666666666667	0.132533333333333	0.02697
ECIAI39_1856	0	0.1062	0
ECIAI39_1857	0.017	0.1027	0.16517
ECIAI39_1859	0.0041	0.1731	0.02351
ECIAI39_1860	0.0031	0.217233333333333	0.0117333333333333
ECIAI39_1862	0.0182	0.281	0.0648
ECIAI39_1863	0	0.4343	0
ECIAI39_1865	0.0019	0.1791	0.01061
ECIAI39_1866	0.0105	0.1369	0.07703
ECIAI39_1868	0.0057	0.182	0.03128
ECIAI39_1870	0.0116	0.26745	0.066705
ECIAI39_1871	0.0065	0.1293	0.04891
ECIAI39_1873	0.01275	0.4043	0.03291
ECIAI39_1874	0.0169	0.3437	0.04912
ECIAI39_1877	0.0337	0.0771	0.43666
ECIAI39_1880	0.0048	0.1711	0.02833
ECIAI39_1881	0.0366	0.2531	0.14445
ECIAI39_1882	0.0042	0.2097	0.02019
ECIAI39_1883	0.0087	0.1717	0.05074
ECIAI39_1884	0.00295	0.11005	0.02758
ECIAI39_1885	0.0041	0.1714	0.02363
ECIAI39_1886	0.0119	0.1265	0.09396
ECIAI39_1890	0.0077	0.1248	0.06171
ECIAI39_1891	0.0028	0.0928	0.03064
ECIAI39_1893	0.0082	0.1181	0.06971
ECIAI39_1896	0.006	0.2289	0.02636
ECIAI39_1897	0.0078	0.102	0.07655
ECIAI39_1898	0.0041	0.0612	0.0669
ECIAI39_1902	0.0297	0.0978	0.30421
ECIAI39_1904	0.0099	0.150966666666667	0.0644466666666667
ECIAI39_1906	0.0028	0.1233	0.02256
ECIAI39_1907	0.0232	0.3727	0.06225
ECIAI39_1909	0	0.0988	0
ECIAI39_1913	0.0114	0.197	0.04278
ECIAI39_1914	0.0061	0.186	0.03304
ECIAI39_1915	0.0041	0.1306	0.03145
ECIAI39_1918	0	0.2188	0
ECIAI39_1919	0.0021	0.0952	0.02218
ECIAI39_1920	0.0057	0	NA
ECIAI39_1921	0.0227	0.1672	0.13545
ECIAI39_1922	0.0116	0.2493	0.04636
ECIAI39_1923	0.0021	0.2759	0.00745
ECIAI39_1924	0.012	0.0987	0.12151
ECIAI39_1925	0.0034	0.2558	0.01347
ECIAI39_1926	0.0127333333333333	0.136366666666667	0.08148
ECIAI39_1928	0.018	0.8058	0.02237
ECIAI39_1930	0.0288	0.963	0.02991

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Gene	*dN*	*dS*	ω
ECIAI39_1931	0.0602	1.2844	0.04686
ECIAI39_1932	0.1582	1.1101	0.14249
ECIAI39_1933	0.0522	2.54	0.02055
ECIAI39_1934	0.08845	3.214	0.035835
ECIAI39_1935	0.0109	0.1397	0.07792
ECIAI39_1936	0.0064	0.3842	0.01672
ECIAI39_1937	0.00645	0.19625	0.03571
ECIAI39_1938	0	0.2108	0
ECIAI39_1939	0.0171	0.1533	0.11162
ECIAI39_1944	0.0189	0.1784	0.10581
ECIAI39_1946	0.014	0.1815	0.07708
ECIAI39_1951	0.01545	0.1832	0.082955
ECIAI39_1952	0.0257	0.0983	0.2418
ECIAI39_1953	0.0032	0.1241	0.02552
ECIAI39_1955	0.0127	0.22315	0.061435
ECIAI39_1956	0.0046	0.17615	0.025955
ECIAI39_1957	0	0.2039	0
ECIAI39_1958	0.0107	0.1725	0.06223
ECIAI39_1960	0.0063	0.0439	0.1441
ECIAI39_1961	0	0.04245	0
ECIAI39_1962	0.029	0.147	0.19737
ECIAI39_1964	0.0157	0.1706	0.09202
ECIAI39_1965	0.0105	0.12505	0.1052225
ECIAI39_1966	0.0151	0.2088	0.07234
ECIAI39_1968	0.0109	0.1915	0.05676
ECIAI39_1969	0.0397	0.1468	0.27024
ECIAI39_1971	0.0106	0.1741	0.0606
ECIAI39_1973	0.0099	0.1309	0.07561
ECIAI39_1974	0.0234	0.2042	0.11472
ECIAI39_1976	0.0108	0.1685	0.06405
ECIAI39_1977	0.0103	0.1936	0.05311
ECIAI39_1979	0.018	0.1418	0.12661
ECIAI39_1982	0.026	0.1714	0.15193
ECIAI39_1988	0.017	0.064	0.26555
ECIAI39_1991	0.081	0.2627	0.30816
ECIAI39_2003	0.0111	0.1658	0.06669
ECIAI39_2004	0.0029	0.2401	0.01204
ECIAI39_2006	0.0037	0.2255	0.01632
ECIAI39_2007	0.0135	0.2938	0.04585
ECIAI39_2008	0.0099	0.1223	0.08059
ECIAI39_2010	0.0129	0.2033	0.06323
ECIAI39_2011	0.0222	0.2478	0.08956
ECIAI39_2013	0.0433	0.1576	0.27486
ECIAI39_2015	0.019	0.10665	0.201775
ECIAI39_2032	0.00325	0.0956	0.02657
ECIAI39_2033	0.0102	0.1336	0.07643
ECIAI39_2034	0.0059	0.123	0.04835

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2036	0.0163	0.1683	0.09703
ECIAI39_2040	0.0011	0.1664	0.0064
ECIAI39_2041	0.0077	0.2336	0.03282
ECIAI39_2042	0.0036	0.1433	0.02484
ECIAI39_2044	0.0098	0.2298	0.04251
ECIAI39_2045	0.0285	0.3976	0.07174
ECIAI39_2046	0.01285	0.343675	0.0411225
ECIAI39_2047	0.0266	0.5967	0.04466
ECIAI39_2048	0.05215	0.75785	0.06957
ECIAI39_2049	0.1425	1.8419	0.07736
ECIAI39_2050	0.0126	0.6323	0.01986
ECIAI39_2051	0.0101	0.553	0.0182
ECIAI39_2066	0.0032	0.5947	0.00546
ECIAI39_2068	0.0375	0.5673	0.06618
ECIAI39_2069	0.01435	0.54645	0.026355
ECIAI39_2070	0.0257	0.4499	0.056725
ECIAI39_2073	0.0132	0.4	0.03291
ECIAI39_2075	0.0059	0.3594	0.01652
ECIAI39_2076	0.0114333333333333	0.265166666666667	0.0468633333333333
ECIAI39_2077	0.0294	0.1066	0.27572
ECIAI39_2078	0.1259	0.1112	1.13184
ECIAI39_2079	0.0215	0.4362	0.04922
ECIAI39_2080	0.0121	0.2304	0.065405
ECIAI39_2081	0.0261	0.3694	0.07053
ECIAI39_2084	0.0172	0.371	0.04647
ECIAI39_2085	0.003	0.15	0.01978
ECIAI39_2086	0.0066	0.3542	0.01873
ECIAI39_2087	0.0151	0.2917	0.05171
ECIAI39_2089	0.0102	0.2536	0.0404
ECIAI39_2091	0.0012	0.2215	0.00546
ECIAI39_2094	0.0063	0.2147	0.02955
ECIAI39_2096	0.0124	0.2095	0.05932
ECIAI39_2098	0	0.1083	0
ECIAI39_2099	0.01035	0.1649	0.071105
ECIAI39_2101	0.0286	0.3366	0.08485
ECIAI39_2104	0.0498	0.2495	0.19944
ECIAI39_2109	0.0467	0.3139	0.14879
ECIAI39_2111	0.0463	0.40465	0.11686
ECIAI39_2114	0.0189	0.3137	0.06027
ECIAI39_2115	0.0072	0.4071	0.01771
ECIAI39_2116	0.0046	0.4586	0.01013
ECIAI39_2117	0.00955	0.4476	0.020905
ECIAI39_2121	0.0224	0.5561	0.04024
ECIAI39_2123	0.0087	0.3032	0.02871
ECIAI39_2126	0.004	0.2423	0.01647
ECIAI39_2129	0.0182	0.2319	0.07863
ECIAI39_2130	0.0183	0.1713	0.10676

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2132	0.0237333333333333	0.177066666666667	0.148493333333333
ECIAI39_2133	0.0122	0.0806	0.15109
ECIAI39_2134	0.0216	0.1277	0.16917
ECIAI39_2135	0.004	0.1983	0.02029
ECIAI39_2137	0.0254	0.198	0.12836
ECIAI39_2138	0.0206	0.1368	0.1507
ECIAI39_2139	0.004	0.1177	0.03435
ECIAI39_2140	0.0287	0.27855	0.089905
ECIAI39_2141	0.0285857142857143	0.531742857142857	0.107304285714286
ECIAI39_2142	0.0485	0.9675	0.05012
ECIAI39_2143	0.0614	0.4979	0.12324
ECIAI39_2144	0.0801	1.0844	0.07389
ECIAI39_2145	0.0698	1.462	0.04775
ECIAI39_2146	0.0381	2.1091	0.01807
ECIAI39_2148	0	0.3423	0
ECIAI39_2149	0.0032	0.2972	0.01087
ECIAI39_2154	0.1062	1.0094	0.10523
ECIAI39_2155	0.0851	0.6374	0.13358
ECIAI39_2156	0.09555	0.343	0.27934
ECIAI39_2157	0.0776	0.355	0.212525
ECIAI39_2158	0.0124	0.3026	0.04733
ECIAI39_2159	0.0532	0.2311	0.23033
ECIAI39_2160	0.05055	0.3671	0.131345
ECIAI39_2161	0.0445	0.3275	0.146585
ECIAI39_2163	0.0033	0.1187	0.02741
ECIAI39_2164	0.0029	0.0932	0.03115
ECIAI39_2166	0.00275	0.1513	0.01892
ECIAI39_2168	0.00926666666666667	0.1747	0.05666
ECIAI39_2169	0.026	0.2586	0.10063
ECIAI39_2170	0.0278	0.2435	0.1143
ECIAI39_2171	0.0347	0.4256	0.08147
ECIAI39_2172	0.0247	0.2798	0.08823
ECIAI39_2173	0.0061	0.4015	0.01512
ECIAI39_2174	0.0871	0.43	0.20259
ECIAI39_2175	0.0037	0.2571	0.01424
ECIAI39_2177	0.0031	0.1387	0.02228
ECIAI39_2178	0.005	0.2357	0.02127
ECIAI39_2179	0.0096	0.1776	0.05418
ECIAI39_2182	0.0316	0.3157	0.102625
ECIAI39_2184	0.0182	0.3229	0.05649
ECIAI39_2186	0.00426666666666667	0.135666666666667	0.0366666666666667
ECIAI39_2187	0	0.0803	0
ECIAI39_2188	0.0063	0.0704	0.08898
ECIAI39_2190	0.03705	0.2315	0.16946
ECIAI39_2191	0.0078	0.2584	0.03014
ECIAI39_2192	0.0044	0.2298	0.01932
ECIAI39_2193	0.0028	0.2411	0.01175

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2196	0.00695	0.13005	0.05814
ECIAI39_2197	0.0204	0.2386	0.08558
ECIAI39_2198	0.00593333333333333	0.309966666666667	0.0140933333333333
ECIAI39_2199	0.0158	0.5667	0.02791
ECIAI39_2200	0.0029	0.0973	0.02973
ECIAI39_2202	0.0017	0.1169	0.01423
ECIAI39_2203	0.0014	0.0589	0.02353
ECIAI39_2205	0.0049	0.137	0.03548
ECIAI39_2206	0.131133333333333	1.95586666666667	0.0707133333333333
ECIAI39_2207	0.0346	0.36415	0.10663
ECIAI39_2208	0.01615	0.40745	0.03794
ECIAI39_2211	0.0389	0.90085	0.03819
ECIAI39_2212	0.05175	1.4317	0.036355
ECIAI39_2214	0.0078	0.1868	0.04188
ECIAI39_2215	0.0027	0.10225	0.02168
ECIAI39_2216	0.0074	0.142	0.05215
ECIAI39_2217	0	0.0971	0
ECIAI39_2218	0.0226	0.158	0.14323
ECIAI39_2219	0.0081	0.1392	0.05853
ECIAI39_2220	0.0026	0.0604	0.0427
ECIAI39_2222	0.0111	0.2156	0.05165
ECIAI39_2223	0.00866666666666667	0.163166666666667	0.0604566666666667
ECIAI39_2224	0.0042	0.1295	0.03276
ECIAI39_2225	0.0071	0.3121	0.02271
ECIAI39_2226	0	0.1886	0
ECIAI39_2227	0.0113	0.3224	0.03511
ECIAI39_2229	0.0202	0.0256	0.78922
ECIAI39_2230	0.0015	0.1682	0.00889
ECIAI39_2231	0.0069	0.0133	0.52079
ECIAI39_2232	0.0008	0.1154	0.00689
ECIAI39_2236	0.0104	0.24095	0.04342
ECIAI39_2237	0.0026	0.1694	0.01548
ECIAI39_2239	0	0.2666	0
ECIAI39_2240	0.00115	0.1242	0.00811
ECIAI39_2241	0.0072	0.0835	0.077575
ECIAI39_2242	0.0033	0.1018	0.0325
ECIAI39_2243	0.00845	0.13495	0.06231
ECIAI39_2244	0.0034	0.2329	0.01466
ECIAI39_2245	0.0075	0.0912	0.138315
ECIAI39_2247	0.0052	0.2565	0.02026
ECIAI39_2249	0.00965	0.2264	0.043555
ECIAI39_2250	0.0229	0.2301	0.09955
ECIAI39_2252	0.0177	0.3279	0.05405
ECIAI39_2253	0.03455	0.31895	0.107755
ECIAI39_2254	0.0254333333333333	0.293066666666667	0.145626666666667
ECIAI39_2255	0.0036	0.0731	0.04904
ECIAI39_2256	0	0.148	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2258	0.0044	0.1287	0.03423
ECIAI39_2263	0.01675	0.284	0.08103
ECIAI39_2264	0.0268	0.309566666666667	0.104206666666667
ECIAI39_2273	0.0325	0.3279	0.09912
ECIAI39_2274	0.0022	0.1942	0.01132
ECIAI39_2276	0.0628666666666667	0.403166666666667	0.16101
ECIAI39_2277	0.1862	2.0023	0.09299
ECIAI39_2278	0.18725	0.9076	0.237595
ECIAI39_2279	0.1907	1.3061	0.14602
ECIAI39_2281	0.0012	0.2505	0.00482
ECIAI39_2283	0.0025	0.4023	0.00614
ECIAI39_2285	0.01205	0.18995	0.071745
ECIAI39_2286	0.0108	0.3083	0.03492
ECIAI39_2287	0.0083	0.2635	0.03143
ECIAI39_2288	0.0038	0.2141	0.01767
ECIAI39_2289	0.01665	0.2571	0.07293
ECIAI39_2290	0.0192	0.3458	0.05539
ECIAI39_2291	0.0061	0.2848	0.02126
ECIAI39_2292	0.0093	0.2134	0.04357
ECIAI39_2293	0.0075	0.1412	0.05328
ECIAI39_2297	0.0165	0.2393	0.06905
ECIAI39_2298	0.022	0.26095	0.10224
ECIAI39_2299	0.0138	0.228	0.06044
ECIAI39_2300	0.0251	0.1293	0.19412
ECIAI39_2301	0.02135	0.28805	0.067095
ECIAI39_2302	0.0226	0.2721	0.08301
ECIAI39_2304	0.0258	0.1786	0.14445
ECIAI39_2305	0.0153	0.138	0.11076
ECIAI39_2306	0.0247	0.1794	0.136735
ECIAI39_2307	0.0191333333333333	0.4087	0.0624033333333333
ECIAI39_2308	0.005	0.2807	0.01772
ECIAI39_2309	0.05055	0.18485	0.274105
ECIAI39_2310	0.013	0.2563	0.0508
ECIAI39_2311	0.0271	0.6091	0.0445
ECIAI39_2312	0.0223	0.2591	0.08624
ECIAI39_2313	0.0566666666666667	0.991466666666667	0.0412466666666667
ECIAI39_2314	0.0301	0.204	0.14773
ECIAI39_2318	0.0368	0.3212	0.118375
ECIAI39_2321	0.0011	0.2065	0.00545
ECIAI39_2322	0.0037	0.2189	0.01692
ECIAI39_2324	0.0031	0.1559	0.0201
ECIAI39_2325	0	0.0981333333333333	0
ECIAI39_2326	0.0028	0.1187	0.024
ECIAI39_2329	0.006	0.2468	0.02445
ECIAI39_2330	0.00303333333333333	0.269766666666667	0.0114366666666667
ECIAI39_2332	0	0.06945	0
ECIAI39_2334	0.0046	0.1496	0.03057

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2336	0.0011	0.1629	0.00694
ECIAI39_2338	0.0045	0.1799	0.02476
ECIAI39_2340	0.0039	0.1755	0.02216
ECIAI39_2342	0.00565	0.1058	0.03957
ECIAI39_2343	0.0065	0.0153	0.42639
ECIAI39_2344	0	0.0289	0
ECIAI39_2347	0.0024	0.11875	0.01755
ECIAI39_2348	0.0134	0.12975	0.092535
ECIAI39_2349	0.00735	0.1084	0.037795
ECIAI39_2350	0.0283	0.2188	0.12951
ECIAI39_2351	0.0144	0.2218	0.06486
ECIAI39_2352	0.00385	0.35355	0.010175
ECIAI39_2354	0.00753333333333333	0.227966666666667	0.0325433333333333
ECIAI39_2356	0.00736666666666667	0.1709	0.0484566666666667
ECIAI39_2357	0.00535	0.10615	0.0546
ECIAI39_2358	0.0308	0.54385	0.042265
ECIAI39_2359	0.007	0.046	0.15289
ECIAI39_2360	0.0098	0.2241	0.0437
ECIAI39_2361	0.022	0.2728	0.08062
ECIAI39_2362	0.0135	0.1033	0.13031
ECIAI39_2363	0.0091	0.1589	0.05755
ECIAI39_2364	0.0012	0.2034	0.00585
ECIAI39_2367	0.004	0.4666	0.00858
ECIAI39_2368	0.0107	0.3762	0.02833
ECIAI39_2369	0.533125	5.242625	0.09111
ECIAI39_2370	0.23635	3.01205	0.081955
ECIAI39_2374	0.0180666666666667	0.3038	0.0703333333333333
ECIAI39_2376	0.0554	1.30751666666667	0.0602866666666667
ECIAI39_2379	0.0074	0.192	0.03876
ECIAI39_2380	0.009	0.1752	0.05145
ECIAI39_2393	0.0151	0.203	0.07438
ECIAI39_2397	0.017	0.2489	0.06843
ECIAI39_2399	0.0022	0.1158	0.01913
ECIAI39_2401	0.0244	0.2399	0.10163
ECIAI39_2402	0.023	0.3298	0.06963
ECIAI39_2403	0.00745	0.13305	0.070975
ECIAI39_2404	0.0084	0.1223	0.06898
ECIAI39_2408	0.0056	0.1677	0.03334
ECIAI39_2409	0.0577	0.27295	0.21054
ECIAI39_2410	0.0359	0.1456	0.24649
ECIAI39_2411	0.0122	0.1944	0.06274
ECIAI39_2412	0.0045	0.3774	0.01197
ECIAI39_2413	0.0017	0.2501	0.00681
ECIAI39_2416	0.0037	0.2254	0.01636
ECIAI39_2419	0.0209	0.4699	0.04458
ECIAI39_2421	0.0504	0.3445	0.14637
ECIAI39_2423	0.0045	0.2805	0.01604

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2424	0.0245	0.105	0.690445
ECIAI39_2425	0.00885	0.24385	0.05771
ECIAI39_2428	0.0024	0.1807	0.01343
ECIAI39_2430	0.0153	0.1574	0.0917
ECIAI39_2431	0.0085	0.1189	0.07188
ECIAI39_2432	0.0249	0.5261	0.04204
ECIAI39_2433	0.0041	0.1886	0.02147
ECIAI39_2439	0.0089	0.1925	0.04607
ECIAI39_2440	0.0075	0.1519	0.04961
ECIAI39_2443	0.0089	0.0842	0.245555
ECIAI39_2444	0.00075	0.0727	0.005915
ECIAI39_2445	0.0017	0.0236	0.07346
ECIAI39_2446	0.0026	0.1211	0.02148
ECIAI39_2447	0.0134	0.2353	0.05682
ECIAI39_2448	0.0278	0.5435	0.05117
ECIAI39_2451	0.0157	0.4062	0.03864
ECIAI39_2452	0.00485	0.56205	0.00873
ECIAI39_2453	0.0052	0.4109	0.01266
ECIAI39_2454	0.0069	0.4188	0.01643
ECIAI39_2455	0.0072	0.2029	0.03545
ECIAI39_2457	0.0114	0.3729	0.03044
ECIAI39_2458	0.0345	0.5725	0.06027
ECIAI39_2459	0.0152	0.3477	0.04365
ECIAI39_2461	0.0046	0.2122	0.02163
ECIAI39_2462	0.0144	0.1363	0.1058
ECIAI39_2463	0.01295	0.1123	0.09943
ECIAI39_2464	0.0104	0.29105	0.032615
ECIAI39_2465	0.0276	0.4852	0.05699
ECIAI39_2466	0.0095	0.2853	0.03333
ECIAI39_2467	0.0088	0.0996	0.08867
ECIAI39_2468	0.0162	0.33075	0.048645
ECIAI39_2477	0.0281	0.3149	0.08939
ECIAI39_2478	0.0083	0.19825	0.10808
ECIAI39_2480	0.0784	0.7057	0.11106
ECIAI39_2481	0.0164	0.2094	0.07832
ECIAI39_2483	0.0134	0.2213	0.06074
ECIAI39_2485	0.0052	0.0695	0.07414
ECIAI39_2486	0	0.0892	0
ECIAI39_2487	0.006	0.2	0.03001
ECIAI39_2488	0.0133	0.3882	0.0342
ECIAI39_2489	0.02335	0.1401	0.156445
ECIAI39_2490	0.0114666666666667	0.3219	0.06743
ECIAI39_2493	0.0029	0.195	0.014305
ECIAI39_2494	0.0138	0.235	0.05872
ECIAI39_2497	0.0088	0.1746	0.05044
ECIAI39_2499	0.0088	0.1667	0.05283
ECIAI39_2501	0.0027	0.1345	0.02021

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2503	0.032	0.1361	0.23541
ECIAI39_2504	0.03082	0.23394	0.180346
ECIAI39_2505	0.0018	0.1554	0.01161
ECIAI39_2507	0.0017	0.0383	0.04331
ECIAI39_2508	0	0.04925	0
ECIAI39_2520	0.0041	0.1855	0.02206
ECIAI39_2522	0.0253	0.115	0.22029
ECIAI39_2523	0.0035	0.115	0.0305
ECIAI39_2524	0.0032	0.12505	0.025335
ECIAI39_2525	0.0096	0.0736	0.13052
ECIAI39_2534	0.0018	0.2079	0.00887
ECIAI39_2536	0.002	0.3848	0.00514
ECIAI39_2538	0.0327666666666667	1.09123333333333	0.0309333333333333
ECIAI39_2539	0.003	0.1492	0.01991
ECIAI39_2540	0.0074	0.0638	0.11611
ECIAI39_2546	0.0024	0.2348	0.01037
ECIAI39_2548	0.0231	0.2295	0.10077
ECIAI39_2550	0.04	0.35	0.11428
ECIAI39_2552	0.0163	0.1907	0.08548
ECIAI39_2555	0.0072	0.1788	0.04016
ECIAI39_2556	0.0169	0.162	0.10448
ECIAI39_2557	0.0158	0.2518	0.06266
ECIAI39_2558	0.0108	0.22325	0.05552
ECIAI39_2560	0.0048	0.1637	0.02956
ECIAI39_2562	0.0022	0.110833333333333	0.0222466666666667
ECIAI39_2563	0	0.1568	0
ECIAI39_2564	0	0.0521	0
ECIAI39_2566	0.0019	0.2515	0.00753
ECIAI39_2567	0	0.1379	0
ECIAI39_2568	0.0264	0.3273	0.08054
ECIAI39_2569	0.0169	0.1363	0.12423
ECIAI39_2570	0.0089	0.1775	0.05015
ECIAI39_2576	0.0195	0.2553	0.07805
ECIAI39_2577	0.0369	0.3194	0.11546
ECIAI39_2578	0.0132	0.4046	0.03272
ECIAI39_2580	0.0105	0.3117	0.03377
ECIAI39_2581	0.0123	0.2532	0.04847
ECIAI39_2585	0.0231	0.2738	0.08449
ECIAI39_2588	0.022	0.2769	0.07956
ECIAI39_2589	0.0022	0.1757	0.01265
ECIAI39_2591	0.008	0.06675	0.153005
ECIAI39_2592	0.0017	0.22845	0.00755
ECIAI39_2594	0.0283	0.1191	0.23747
ECIAI39_2596	0.0075	0.2458	0.03066
ECIAI39_2600	0.0093	0.3224	0.02879
ECIAI39_2602	0.00693333333333333	0.200766666666667	0.03399
ECIAI39_2603	0.0033	0.0897	0.03644

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2604	0.0065	0.283	0.02296
ECIAI39_2605	0.0137666666666667	0.3414	0.0381466666666667
ECIAI39_2606	0.00245	0.2143	0.008575
ECIAI39_2607	0.0011	0.17285	0.006315
ECIAI39_2608	0.0302	0.3491	0.08642
ECIAI39_2609	0.0048	0.057	0.0834
ECIAI39_2610	0.00275	0.063	0.028465
ECIAI39_2613	0.05875	0.4389	0.11225
ECIAI39_2614	0.0104	0.1867	0.05578
ECIAI39_2617	0.01745	0.3006	0.04967
ECIAI39_2618	0.0086	0.4464	0.0193
ECIAI39_2620	0.0068	0.2318	0.02937
ECIAI39_2621	0.00705	0.14665	0.05088
ECIAI39_2622	0.015	0.2542	0.05891
ECIAI39_2623	0.0074	0.144	0.05122
ECIAI39_2624	0	0.1039	0
ECIAI39_2625	0.03675	0.2631	0.12378
ECIAI39_2635	0.0005	0.12	0.00454
ECIAI39_2636	0.0323	0.1828	0.17646
ECIAI39_2637	0.0073	0.2792	0.02619
ECIAI39_2638	0	0.0916	0
ECIAI39_2639	0.0046	0.0167	0.27812
ECIAI39_2640	0.0037	0.2145	0.01714
ECIAI39_2641	0.0091	0.203	0.04465
ECIAI39_2642	0.01505	0.1312	0.129095
ECIAI39_2643	0.0171	0.0975	0.226876666666667
ECIAI39_2651	0.0035	0.318	0.01114
ECIAI39_2657	0.00815	0.256675	0.035645
ECIAI39_2700	0.01785	0.4751	0.04343
ECIAI39_2702	0.0187	0.3119	0.0599
ECIAI39_2704	0.0191	0.4558	0.04185
ECIAI39_2705	0.0149	0.5732	0.02597
ECIAI39_2706	0.0046	0.2828	0.015515
ECIAI39_2707	0.015325	0.126125	0.132965
ECIAI39_2708	0.00931111111111111	0.1826	0.0714222222222222
ECIAI39_2709	0.0027	0.1949	0.01379
ECIAI39_2710	0.0043	0.2445	0.01772
ECIAI39_2712	0.00786666666666667	0.0678666666666667	0.0935066666666667
ECIAI39_2713	0.0024	0.1467	0.01641
ECIAI39_2715	0.0009	0.2679	0.00332
ECIAI39_2720	0.0034	0.06215	0.03164
ECIAI39_2721	0.004	0.1467	0.030698
ECIAI39_2723	0.0073	0.2358	0.03091
ECIAI39_2724	0.01415	0.20585	0.093025
ECIAI39_2726	0.0076	0.3267	0.02318
ECIAI39_2727	0.0257333333333333	0.3611	0.08131
ECIAI39_2731	0.0249333333333333	0.1559	0.15715

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2732	0.0406	0.2775	0.14643
ECIAI39_2733	0.0341	0.3191	0.10673
ECIAI39_2735	0.0027	0.2301	0.01163
ECIAI39_2736	0.0085	0.1625	0.060445
ECIAI39_2737	0.0158	0.1981	0.07953
ECIAI39_2738	0.0214	0.2891	0.07415
ECIAI39_2739	0.0088	0.30865	0.046315
ECIAI39_2740	0.0055	0.3432	0.01602
ECIAI39_2742	0.0127	0.3222	0.03955
ECIAI39_2743	0.0032	0.3804	0.00849
ECIAI39_2744	0.0063	0.2806	0.0226
ECIAI39_2746	0.0065	0.2254	0.02896
ECIAI39_2748	0.0035	0.14155	0.014725
ECIAI39_2749	0.00445	0.08185	0.18839
ECIAI39_2750	0.00315	0.25215	0.008925
ECIAI39_2751	0.0155	0.3369	0.04606
ECIAI39_2752	0.01335	0.16435	0.08297
ECIAI39_2753	0.0045	0.5233	0.00861
ECIAI39_2754	0.0957	0.8185	0.11687
ECIAI39_2761	0.002975	0.100525	0.0321425
ECIAI39_2762	0.00885	0.12665	0.07443
ECIAI39_2763	0.0125	0.2117	0.05885
ECIAI39_2764	0.0047	0.0554	0.08551
ECIAI39_2765	0.0026	0.1178	0.02239
ECIAI39_2769	0.0044	0.2437	0.01807
ECIAI39_2771	0.0169	0.5219	0.03238
ECIAI39_2781	0.0112	0.3838	0.02926
ECIAI39_2782	0.0065	0.4268	0.0152
ECIAI39_2787	0.0155	0.3527	0.04408
ECIAI39_2788	0.0237	0.3086	0.07667
ECIAI39_2789	0.06395	0.2006	0.299855
ECIAI39_2790	0.0454	0.1225	0.37026
ECIAI39_2791	0.0722	0.347333333333333	0.218353333333333
ECIAI39_2792	0.03352	0.23344	0.176962
ECIAI39_2793	0.0087	0.38845	0.022155
ECIAI39_2797	0	0.1012	0
ECIAI39_2798	0.0072	0.2122	0.03401
ECIAI39_2800	0	0.1762	0
ECIAI39_2805	0.0055	0.2508	0.02198
ECIAI39_2806	0.0068	0.4411	0.0155
ECIAI39_2812	0.0255	0.2327	0.10958
ECIAI39_2814	0.0258	0.1255	0.20589
ECIAI39_2815	0.0175	0.1435	0.12211
ECIAI39_2816	0.001	0.1612	0.00644
ECIAI39_2818	0.0011	0.0847	0.01314
ECIAI39_2819	0.0032	0.2146	0.01473
ECIAI39_2821	0.0116	0.0689	0.16799

Continued on next page

Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2823	0.005	0.1045	0.04783
ECIAI39_2825	0.0034	0.1153	0.02989
ECIAI39_2826	0.0049	0.1397	0.03475
ECIAI39_2827	0.012	0.1387	0.0867
ECIAI39_2828	0.0034	0.0672	0.05038
ECIAI39_2829	0.0079	0.0816	0.09648
ECIAI39_2831	0.00255	0.12485	0.019315
ECIAI39_2833	0	0.0961	0
ECIAI39_2835	0.0279	0.24775	0.11317
ECIAI39_2836	0.0103	0.3962	0.0261
ECIAI39_2837	0.0013	0.212	0.00615
ECIAI39_2843	0.0126	0.2651	0.04743
ECIAI39_2844	0.00775	0.1915	0.0397
ECIAI39_2845	0.0275	0.2603	0.10547
ECIAI39_2846	0.0118	0.2709	0.04371
ECIAI39_2847	0.0146	0.1305	0.11167
ECIAI39_2849	0.0104	0.2277	0.04585
ECIAI39_2851	0.0324666666666667	0.190033333333333	0.155286666666667
ECIAI39_2852	0.0447	0.108666666666667	0.372243333333333
ECIAI39_2853	0.0218	0.1394	0.15642
ECIAI39_2855	0	0.1802	0
ECIAI39_2859	0.0025	0.1044	0.02432
ECIAI39_2861	0	0.0111	0
ECIAI39_2864	0	0.1831	0
ECIAI39_2865	0.0041	0.1021	0.02374
ECIAI39_2866	0.0087	0.122	0.07168
ECIAI39_2867	0.0087	0.195	0.04466
ECIAI39_2869	0.0055	0.0857	0.06476
ECIAI39_2870	0.0059	0.1061	0.05576
ECIAI39_2871	0.0205	0.1146	0.17885
ECIAI39_2873	0.0042	0.1101	0.03857
ECIAI39_2874	0.0024	0.1341	0.01808
ECIAI39_2875	0.0131	0.2133	0.06121
ECIAI39_2876	0.01135	0.20925	0.05413
ECIAI39_2878	0.0012	0.1464	0.0081
ECIAI39_2892	0	0.1418	0
ECIAI39_2893	0	0.057	0
ECIAI39_2895	0.0113	0.1754	0.06438
ECIAI39_2896	0.02335	0.23615	0.098965
ECIAI39_2897	0.0087	0.1298	0.06694
ECIAI39_2898	0.0023	0.2481	0.00921
ECIAI39_2899	0.0012	0.1474	0.00798
ECIAI39_2900	0.0011	0.3393	0.00335
ECIAI39_2901	0.0105	0.2615	0.04022
ECIAI39_2902	0.0077	0.2521	0.03074
ECIAI39_2903	0.0054	0.1131	0.0476
ECIAI39_2905	0.0245	0.0903	0.27123

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2907	0.0386	0.2351	0.16417
ECIAI39_2909	0.0151	0.2412	0.06256
ECIAI39_2911	0.0143333333333333	0.127	0.109846666666667
ECIAI39_2915	0.0044	0.2128	0.02077
ECIAI39_2918	0.003	0.2226	0.01365
ECIAI39_2920	0.0055	0.18645	0.03876
ECIAI39_2923	0.01335	0.18955	0.07704
ECIAI39_2924	0.0052	0.2496	0.02069
ECIAI39_2926	0.0291	0.31785	0.07103
ECIAI39_2930	0.0109	0.4752	0.02295
ECIAI39_2932	0.0176	0.3318	0.05297
ECIAI39_2933	0.0321	0.2274	0.121645
ECIAI39_2934	0	0.0868	0
ECIAI39_2935	0.0116	0.1482	0.07836
ECIAI39_2936	0	0.1682	0
ECIAI39_2937	0.0227	0.2273	0.0999
ECIAI39_2939	0	0.1737	0
ECIAI39_2940	0.00645	0.26285	0.032095
ECIAI39_2941	0.0178	0.358	0.04977
ECIAI39_2944	0.0061	0.2958	0.02055
ECIAI39_2945	0.0159	0.1351	0.11805
ECIAI39_2946	0.008	0.2166	0.03716
ECIAI39_2948	0.0302	0.2724	0.11082
ECIAI39_2950	0.0213	0.3209	0.06637
ECIAI39_2951	0.0026	0.1646	0.01584
ECIAI39_2952	0	0.0079	0
ECIAI39_2953	0.0138	0.1286	0.10717
ECIAI39_2954	0.0006	0.1084	0.00481
ECIAI39_2957	0.0141	0.0723	0.1951
ECIAI39_2958	0.0175	0.2647	0.06614
ECIAI39_2962	0.0054	0.2123	0.02537
ECIAI39_2963	0.0059	0.1566	0.03766
ECIAI39_2964	0.00735	0.2015	0.03381
ECIAI39_2965	0.0013	0.1545	0.00852
ECIAI39_2966	0.0013	0.0851	0.01495
ECIAI39_2967	0.003	0.0578	0.05198
ECIAI39_2970	0.0456	0.1487	0.30682
ECIAI39_2974	0.0363	0.1728	0.21019
ECIAI39_2975	0.0028	0.3092	0.00921
ECIAI39_2977	0.0253	0.5322	0.04746
ECIAI39_2978	0.0046	0.3574	0.01291
ECIAI39_2981	0.0007	0.2713	0.00261
ECIAI39_2983	0	0.1571	0
ECIAI39_2984	0.0046	0.20435	0.022005
ECIAI39_2985	0.0108	0.1378	0.07813
ECIAI39_2986	0.024	0.2946	0.067855
ECIAI39_2987	0.00235	0.13775	0.01712

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_2988	0.0143	0.4117	0.03478
ECIAI39_2989	0.0037	0.151733333333333	0.02867
ECIAI39_2990	0.0116	0.3957	0.02922
ECIAI39_2991	0.01375	0.17215	0.11453
ECIAI39_2993	0.00843333333333333	0.0746666666666667	0.233376666666667
ECIAI39_2994	0.0088	0.1218	0.07184
ECIAI39_2995	0.0071	0.1403	0.05161
ECIAI39_2996	0.005	0.151	0.03327
ECIAI39_2997	0.0022	0.1635	0.01361
ECIAI39_2999	0.0149	0.1733	0.08613
ECIAI39_3000	0.0189	0.2304	0.08184
ECIAI39_3022	0.0068	0.1034	0.065435
ECIAI39_3023	0.00743333333333333	0.2275	0.03344
ECIAI39_3024	0.0025	0.1407	0.01764
ECIAI39_3026	0.0058	0.1637	0.03566
ECIAI39_3027	0.0013	0.1916	0.00685
ECIAI39_3028	0.0044	0.0411	0.10716
ECIAI39_3029	0.0144	0.1684	0.08532
ECIAI39_3030	0	0.0959	0
ECIAI39_3031	0.0032	0.1722	0.01865
ECIAI39_3032	0	0.1182	0
ECIAI39_3033	0.00793333333333333	0.117966666666667	0.04943
ECIAI39_3034	0.00485	0.0602	0.08701
ECIAI39_3035	0.0202	0.0636	0.31677
ECIAI39_3036	0.0205	0.1056	0.19381
ECIAI39_3037	0.0063	0.1743	0.060675
ECIAI39_3038	0.004	0.4028	0.00983
ECIAI39_3039	0.0032	0.1053	0.02993
ECIAI39_3041	0.0013	0.0778	0.01678
ECIAI39_3045	0.0152	0.15175	0.07716
ECIAI39_3046	0.0231333333333333	0.159033333333333	0.140246666666667
ECIAI39_3047	0	0.1908	0
ECIAI39_3048	0.0015	0.3158	0.00486
ECIAI39_3049	0	0.0668	0
ECIAI39_3051	0.0006	0.0692666666666667	0.00468666666666667
ECIAI39_3052	0.0028	0.1898	0.01479
ECIAI39_3053	0	0.1397	0
ECIAI39_3054	0.0131333333333333	0.288033333333333	0.0363366666666667
ECIAI39_3063	0.0127	0.5036	0.02515
ECIAI39_3064	0.0017	0.6111	0.00285
ECIAI39_3065	0.016	0.7064	0.02263
ECIAI39_3066	0.0293	0.8093	0.03625
ECIAI39_3070	0.0176	0.2828	0.06229
ECIAI39_3072	0.0269	0.2903	0.09252
ECIAI39_3076	0.0171	0.2279	0.07505
ECIAI39_3078	0.00735	0.1701	0.044435
ECIAI39_3079	0	0.1198	0

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3081	0.007	0.2485	0.02799
ECIAI39_3083	0.0136	0.3311	0.04108
ECIAI39_3084	0.0057	0.3078	0.01861
ECIAI39_3085	0	0	0
ECIAI39_3086	0.0008	0.0882	0.00927
ECIAI39_3088	0.0033	0.0526	0.06284
ECIAI39_3089	0.0085	0.2205	0.03837
ECIAI39_3090	0.0278	0.155	0.17936
ECIAI39_3091	0.01095	0.1689	0.064475
ECIAI39_3093	0.0052	0.2873	0.01793
ECIAI39_3095	0.0144	0.2601	0.05552
ECIAI39_3096	0.0136	0.2123	0.06396
ECIAI39_3099	0.0029	0.1089	0.02649
ECIAI39_3100	0.0039	0.1297	0.03039
ECIAI39_3101	0.0133	0.3857	0.03441
ECIAI39_3102	0.0244	0.3148	0.07765
ECIAI39_3103	0.0123	0.4188	0.02931
ECIAI39_3104	0.0246	0.4939	0.04986
ECIAI39_3107	0.0141	0.3426	0.04114
ECIAI39_3108	0.0167	0.3807	0.04398
ECIAI39_3109	0.1003	0.8632	0.11626
ECIAI39_3111	0.0076	0.1682	0.04507
ECIAI39_3112	0.021	0.2275	0.09228
ECIAI39_3114	0.0079	0.2707	0.02923
ECIAI39_3116	0.004	0.173	0.023
ECIAI39_3118	0.00225	0.23585	0.010225
ECIAI39_3119	0.0036	0.3974	0.0091
ECIAI39_3120	0	0.0776	0
ECIAI39_3121	0.01585	0.1207	0.17364
ECIAI39_3122	0.0135	0.235375	0.0713225
ECIAI39_3123	0	0.1393	0
ECIAI39_3124	0.015	0.13025	0.116215
ECIAI39_3125	0.02315	0.0956	0.271705
ECIAI39_3126	0.0151	0.1794	0.08421
ECIAI39_3127	0.0069	0.0994	0.06953
ECIAI39_3129	0.0055	0.16905	0.03371
ECIAI39_3130	0.0063	0.3843	0.01626
ECIAI39_3131	0.0116	0.168	0.06895
ECIAI39_3132	0.0045	0.168	0.0265
ECIAI39_3133	0	0.213	0
ECIAI39_3134	0.1266	0.0327	3.87286
ECIAI39_3137	0.0069	0.194166666666667	0.0320366666666667
ECIAI39_3138	0.0043	0.2088	0.02047
ECIAI39_3139	0.0094	0.1464	0.06443
ECIAI39_3140	0.0065	0.2763	0.0235
ECIAI39_3141	0.0238	0.0945	0.267555
ECIAI39_3146	0.0039	0.1869	0.02069

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3151	0.0071	0.1688	0.04184
ECIAI39_3153	0.0176	0.165	0.10687
ECIAI39_3154	0.0202	0.1	0.263665
ECIAI39_3155	0.0128	0.2581	0.04941
ECIAI39_3156	0.0106	0.1951	0.05452
ECIAI39_3157	0.01215	0.31965	0.038055
ECIAI39_3160	0.0154	0.21738	0.067756
ECIAI39_3162	0.0044	0.1922	0.02315
ECIAI39_3163	0.0086	0.3211	0.02672
ECIAI39_3165	0.0036	0.32055	0.0087
ECIAI39_3168	0.0025	0.1638	0.01551
ECIAI39_3170	0.0034	0.007	0.48581
ECIAI39_3171	0.002	0.1907	0.01074
ECIAI39_3172	0.0062	0	NA
ECIAI39_3173	0.0008	0.2253	0.002355
ECIAI39_3175	0	0.1096	0
ECIAI39_3177	0	0.187	0
ECIAI39_3180	0.00105	0.05905	0.01463
ECIAI39_3181	0.0054	0.2481	0.02176
ECIAI39_3183	0.0135	0.1438	0.09421
ECIAI39_3185	0.0045	0.1021	0.04449
ECIAI39_3186	0.0024	0.2738	0.00892
ECIAI39_3187	0.00695	0.13385	0.062515
ECIAI39_3188	0.0007	0.0868	0.00837
ECIAI39_3190	0	0.0089	0
ECIAI39_3193	0.006	0.1948	0.03075
ECIAI39_3195	0.0062	0.1948	0.03195
ECIAI39_3197	0	0.0048	0
ECIAI39_3198	0.01475	0.14095	0.09035
ECIAI39_3199	0.0006	0.0853	0.005105
ECIAI39_3200	0.00615	0.1335	0.04241
ECIAI39_3201	0	0.0996	0
ECIAI39_3203	0.0042	0.0653	0.06606
ECIAI39_3204	0.0028	0.088	0.03211
ECIAI39_3206	0	0.118	0
ECIAI39_3207	0	0.0542	0
ECIAI39_3209	0.00305	0.06935	0.05254
ECIAI39_3210	0.00725	0.10885	0.07157
ECIAI39_3211	0.0144	0.1358	0.10038
ECIAI39_3213	0.0006	0.1042	0.00594
ECIAI39_3215	0.0076	0.1853	0.04088
ECIAI39_3218	0.0034	0.3375	0.01007
ECIAI39_3220	0.009	0.3469	0.02587
ECIAI39_3228	0.04495	0.44155	0.10198
ECIAI39_3229	0.0402	0.1521	0.2645
ECIAI39_3230	0.0068	0.1743	0.03929
ECIAI39_3232	0.0032	0.3999	0.00789

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Gene	*dN*	*dS*	ω
ECIAI39_3234	0.004	0.2584	0.01538
ECIAI39_3236	0.0029	0.07755	0.031565
ECIAI39_3237	0	0.0149	0
ECIAI39_3238	0.00885	0.1347	0.039285
ECIAI39_3239	0.0065	0.187966666666667	0.04248
ECIAI39_3240	0.003375	0.122175	0.0282725
ECIAI39_3241	0.003775	0.118575	0.078705
ECIAI39_3243	0.0031	0.1715	0.01833
ECIAI39_3246	0.0111	0.1204	0.09231
ECIAI39_3248	0.0121	0.21215	0.057025
ECIAI39_3249	0	0.2094	0
ECIAI39_3250	0.0257	0.0676	0.37954
ECIAI39_3252	0.0015	0.1022	0.01476
ECIAI39_3254	0	0.0621	0
ECIAI39_3255	0.0124	0.1338	0.09303
ECIAI39_3256	0.0165	0.1353	0.12194
ECIAI39_3257	0	0.0851	0
ECIAI39_3258	0.0031	0.1483	0.02121
ECIAI39_3259	0.0102	0.3615	0.02823
ECIAI39_3261	0.005	0.2371	0.02091
ECIAI39_3262	0	0.0421	0
ECIAI39_3263	0.0249	0.1987	0.1255
ECIAI39_3264	0.0209	0.2084	0.10049
ECIAI39_3265	0.0064	0.1185	0.05412
ECIAI39_3273	0.0215	0.1902	0.11282
ECIAI39_3275	0.0175	0.4938	0.03549
ECIAI39_3281	0	0.0319	0
ECIAI39_3282	0.0399	0.25	0.15945
ECIAI39_3283	0.0133	0.0951	0.1398
ECIAI39_3284	0.01635	0.19545	0.10116
ECIAI39_3285	0.0102	0.13205	0.06735
ECIAI39_3286	0.0205	0.2269	0.09046
ECIAI39_3287	0	0.1056	0
ECIAI39_3288	0.0042	0.2405	0.01749
ECIAI39_3289	0.01355	0.2917	0.039375
ECIAI39_3290	0	0.0041	0
ECIAI39_3291	0	0.0282	0
ECIAI39_3292	0	0	0
ECIAI39_3293	0.000533333333333333	0.0303833333333333	0.00888666666666667
ECIAI39_3294	0	0.00446666666666667	0
ECIAI39_3295	0	0	0
ECIAI39_3296	0	0.0119142857142857	0
ECIAI39_3297	0	0.0190666666666667	0
ECIAI39_3298	0	0.0093	0
ECIAI39_3310	0.10015	17.2989	0.03387
ECIAI39_3317	0	0.0335	0
ECIAI39_3318	0.005675	0.0613	0.034505

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3319	0.044	0.5274	0.08349
ECIAI39_3320	0.0099	0.322	0.03072
ECIAI39_3322	0.0031	0.0864	0.041215
ECIAI39_3324	0	0.1736	0
ECIAI39_3328	0.0132666666666667	0.180966666666667	0.04663
ECIAI39_3329	0.0032	0.1538	0.02077
ECIAI39_3330	0	0.0742	0
ECIAI39_3331	0.0028	0.1936	0.01467
ECIAI39_3332	0.0167	0.2516	0.06627
ECIAI39_3333	0.0242	0.1787	0.13566
ECIAI39_3334	0.0164333333333333	0.133366666666667	0.186053333333333
ECIAI39_3335	0.0075	0.1826	0.0412
ECIAI39_3338	0.0028	0.1856	0.01513
ECIAI39_3339	0.0044	0.2946	0.01497
ECIAI39_3340	0.0026	0.2605	0.01003
ECIAI39_3341	0	0.174	0
ECIAI39_3356	0.0043	0.2116	0.02046
ECIAI39_3357	0.0123	0.2012	0.06122
ECIAI39_3358	0.0017	0.12735	0.030825
ECIAI39_3359	0.0124	0.187	0.06629
ECIAI39_3360	0.0041	0.0814	0.05095
ECIAI39_3361	0.0139	0.1657	0.08387
ECIAI39_3362	0.0343	0.1029	0.33364
ECIAI39_3363	0.0684	0.1758	0.52565
ECIAI39_3364	0.0343	0.1719	0.19938
ECIAI39_3366	0.0028	0.1604	0.01765
ECIAI39_3369	0.0077	0.1279	0.06057
ECIAI39_3372	0.0077	0.161	0.04768
ECIAI39_3373	0.0019	0.0763	0.02549
ECIAI39_3374	0.0024	0.09145	0.01471
ECIAI39_3381	0.0021	0.2734	0.00772
ECIAI39_3382	0	0.1511	0
ECIAI39_3383	0.0028	0.2303	0.01225
ECIAI39_3385	0.0129	0.3204	0.04033
ECIAI39_3387	0	0.0342	0
ECIAI39_3388	0.0043	0.2222	0.01921
ECIAI39_3389	0.02465	0.37555	0.069805
ECIAI39_3390	0.0303	0.3414	0.10376
ECIAI39_3391	0.0025	0.4206	0.0059
ECIAI39_3393	0.0158	0.2247	0.07039
ECIAI39_3402	0.0032	0.2071	0.01559
ECIAI39_3409	0.02975	0.3844	0.07144
ECIAI39_3413	0.0033	0.2969	0.007405
ECIAI39_3419	0.0034	0.1725	0.01981
ECIAI39_3421	0	0.0645	0
ECIAI39_3422	0.0011	0.0595	0.01879
ECIAI39_3423	0.0071	0.1165	0.06052

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3425	0.005	0.1562	0.03201
ECIAI39_3426	0.0041	0.0733	0.05569
ECIAI39_3427	0.00195	0.219	0.012045
ECIAI39_3434	0.0032	0.6139	0.00519
ECIAI39_3435	0.0164	0.5302	0.03089
ECIAI39_3436	0.0225	0.33135	0.06449
ECIAI39_3437	0.01155	0.391325	0.0360625
ECIAI39_3438	0.0112	0.2851	0.03912
ECIAI39_3439	0.0053	0.3268	0.0163
ECIAI39_3440	0.0039	0.5744	0.00681
ECIAI39_3441	0	0.3612	0
ECIAI39_3442	0.0071	0.46885	0.014905
ECIAI39_3443	0.0119	0.3334	0.03585
ECIAI39_3445	0.0329	0.3319	0.09921
ECIAI39_3446	0.0038	0.2901	0.01301
ECIAI39_3447	0	0.1855	0
ECIAI39_3448	0.0028	0.3371	0.0084
ECIAI39_3449	0	0.1499	0
ECIAI39_3450	0.0044	0.2333	0.01905
ECIAI39_3452	0.054	0.0774	0.69764
ECIAI39_3453	0.0033	0.1033	0.03156
ECIAI39_3454	0.0100666666666667	0.155033333333333	0.08505
ECIAI39_3455	0.0223	0.3371	0.06611
ECIAI39_3456	0.0051	0.4699	0.011065
ECIAI39_3457	0.0025	0.1079	0.02275
ECIAI39_3458	0.0076	0.1608	0.04741
ECIAI39_3460	0.00858	0.31288	0.039518
ECIAI39_3462	0.0160333333333333	0.444833333333333	0.0389133333333333
ECIAI39_3468	0.0049	0.2901	0.01693
ECIAI39_3471	0.0167	0.3358	0.04959
ECIAI39_3476	0.0548	1.6723	0.03275
ECIAI39_3477	0.042	1.36655	0.02947
ECIAI39_3478	0.0124	0.1573	0.07904
ECIAI39_3480	0	0.1001	0
ECIAI39_3483	0	0.1271	0
ECIAI39_3484	0.0029	0.3541	0.00634
ECIAI39_3486	0.0042	0.4561	0.00917
ECIAI39_3489	0.0142	0.2553	0.05553
ECIAI39_3490	0.0042	0.32	0.0131
ECIAI39_3493	0.0467	0.3616	0.12921
ECIAI39_3499	0.0241	0.1433	0.16788
ECIAI39_3500	0.011	0.143	0.07711
ECIAI39_3501	0.0041	0.1132	0.03588
ECIAI39_3502	0.0052	0.1763	0.02963
ECIAI39_3503	0	0.0681	0
ECIAI39_3509	0.0488	0.2391	0.202383333333333
ECIAI39_3510	0.0024	0.2116	0.01154

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3513	0.00525	0.16235	0.03017
ECIAI39_3514	0.0068	0.1226	0.05552
ECIAI39_3516	0.0141	0.1044	0.13483
ECIAI39_3517	0.0373	0.1433	0.26055
ECIAI39_3519	0.0068	0.1775	0.03839
ECIAI39_3521	0.01	0.5171	0.017755
ECIAI39_3523	0.0131	0.2633	0.04956
ECIAI39_3526	0.0126	0.109	0.11528
ECIAI39_3527	0.0095	0.1325	0.07176
ECIAI39_3528	0.0099	0.1731	0.05691
ECIAI39_3530	0.0011	0.0602	0.01906
ECIAI39_3532	0.0073	0.1604	0.04571
ECIAI39_3538	0.0103	0.1609	0.06421
ECIAI39_3539	0.0125	0.1966	0.06351
ECIAI39_3545	0.0224	0	NA
ECIAI39_3547	0	0.0154	0
ECIAI39_3549	0.0121666666666667	0.3101	0.06132
ECIAI39_3550	0	0.3111	0
ECIAI39_3552	0.0027	0.2063	0.01301
ECIAI39_3557	0.0154	0.4243	0.03623
ECIAI39_3558	0.0194	0.4584	0.04225
ECIAI39_3559	0.01425	0.1981	0.080635
ECIAI39_3560	0.0502	0.1916	0.26177
ECIAI39_3561	0.0313	0.2302	0.13606
ECIAI39_3562	0.0043	0.1079	0.04008
ECIAI39_3563	0.0082	0.14095	0.059405
ECIAI39_3564	0	0.04365	0
ECIAI39_3568	0.0041	0.3063	0.01355
ECIAI39_3570	0.0015	0.1138	0.01348
ECIAI39_3571	0.0204	0.2809	0.07254
ECIAI39_3574	0.00515	0.1638	0.03138
ECIAI39_3575	0.0059	0.1272	0.04626
ECIAI39_3576	0.0042	0.2338	0.01776
ECIAI39_3577	0.0012	0.1062	0.01171
ECIAI39_3578	0.0035	0.1388	0.0252
ECIAI39_3579	0.0056	0.181	0.03069
ECIAI39_3580	0.026	0.1493	0.1951
ECIAI39_3592	0.0074	0.373	0.01979
ECIAI39_3593	0.0105	0.3383	0.03111
ECIAI39_3595	0.0174	0.3035	0.05749
ECIAI39_3597	0.0076	0.1247	0.06067
ECIAI39_3612	0.0026	0.1126	0.02344
ECIAI39_3614	0.0052	0.1995	0.02581
ECIAI39_3615	0.014	0.3673	0.03823
ECIAI39_3616	0.005	0.1337	0.03766
ECIAI39_3617	0.0027	0.405	0.00655
ECIAI39_3621	0.0184	0.1721	0.10704

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Gene	*dN*	*dS*	ω
ECIAI39_3622	0	0.4475	0
ECIAI39_3623	0.00445	0.13095	0.03396
ECIAI39_3624	0	0.1324	0
ECIAI39_3625	0.0048	0.195	0.02471
ECIAI39_3626	0.0048	0.2815	0.01694
ECIAI39_3627	0.01885	0.20675	0.092365
ECIAI39_3630	0.0069	0.4102	0.0169
ECIAI39_3631	0.0048	0.2452	0.01958
ECIAI39_3634	0.0015	0.3348	0.00436
ECIAI39_3635	0.0072	0.1535	0.04686
ECIAI39_3636	0.0289	0.2399	0.12052
ECIAI39_3640	0.5365	9.2696	0.05787
ECIAI39_3643	0.47995	7.57225	0.063655
ECIAI39_3645	0.06	2.2229	0.02699
ECIAI39_3646	0.04015	4.08225	0.03687
ECIAI39_3647	0.03915	1.62355	0.02327
ECIAI39_3648	0.0529	0.6434	0.08224
ECIAI39_3649	0.1324	1.7333	0.07641
ECIAI39_3650	0.0035	0.1791	0.01952
ECIAI39_3653	0.0085	0.0991	0.08571
ECIAI39_3654	0.0069	0.1458	0.04758
ECIAI39_3655	0.00206666666666667	0.0370333333333333	0.0209633333333333
ECIAI39_3657	0.0061	0.0652	0.137365
ECIAI39_3658	0.0033	0.19845	0.012035
ECIAI39_3659	0.0066	0.2899	0.02272
ECIAI39_3660	0.0321	0.1819	0.17656
ECIAI39_3661	0.0207	0.1624	0.142436666666667
ECIAI39_3663	0.0012	0.0326	0.025675
ECIAI39_3665	0.00465	0.23215	0.02288
ECIAI39_3666	0.0113	0.4621	0.02436
ECIAI39_3668	0.001	0.1356	0.0077
ECIAI39_3669	0.018	0.1512	0.11932
ECIAI39_3673	0.0072	0.1384	0.0517
ECIAI39_3677	0.0255	0.4369	0.0584
ECIAI39_3678	0.0317	0.7263	0.04369
ECIAI39_3679	0.0075	0.14775	0.050975
ECIAI39_3680	0.0136	0.2011	0.06745
ECIAI39_3682	0.0129	0.1359	0.09496
ECIAI39_3683	0.0088	0.1567	0.05584
ECIAI39_3684	0.0116	0.3717	0.03114
ECIAI39_3688	0.0027	0.2249	0.01207
ECIAI39_3689	0.0091	0.2501	0.03644
ECIAI39_3690	0.0102	0.4071	0.02495
ECIAI39_3691	0.0025	0.4057	0.00605
ECIAI39_3692	0.0077	0.2273	0.037635
ECIAI39_3693	0.0177	0.4084	0.0434
ECIAI39_3697	0.0202	0.1694	0.11151

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3701	0.0207	0.3082	0.06712
ECIAI39_3703	0.0175	0.1327	0.13191
ECIAI39_3705	0.0197	0.1462	0.13448
ECIAI39_3707	0.0170833333333333	0.231083333333333	0.07039
ECIAI39_3708	0.0299	0.3643	0.08205
ECIAI39_3715	0.0036	0.2206	0.01626
ECIAI39_3717	0.003	0.1914	0.01561
ECIAI39_3719	0.0013	0.2062	0.00644
ECIAI39_3721	0	0.2162	0
ECIAI39_3722	0.001	0.1077	0.00926
ECIAI39_3724	0.00285	0.00455	0.31081
ECIAI39_3725	0.0009	0.0859	0.00996
ECIAI39_3726	0.00465	0.44325	0.01139
ECIAI39_3729	0.0146	0.2962	0.04935
ECIAI39_3731	0.0127	0.33695	0.047275
ECIAI39_3732	0.02255	0.30095	0.074435
ECIAI39_3734	0.0103	0.103	0.10028
ECIAI39_3735	0.0054	0.3334	0.01611
ECIAI39_3736	0.09445	1.30275	0.069645
ECIAI39_3744	0.00155	0.25285	0.00449
ECIAI39_3745	0.0015	0.1943	0.00749
ECIAI39_3748	0.0024	0.2307	0.01032
ECIAI39_3750	0.0063	0.2108	0.0301
ECIAI39_3751	0.0037	0.0145	0.25517
ECIAI39_3752	0.0007	0.02085	0.0935
ECIAI39_3754	0	0.067	0
ECIAI39_3755	0.00145	0.06345	0.025235
ECIAI39_3756	0.00185	0.0219	0.041735
ECIAI39_3758	0.00445	0.1145	0.02197
ECIAI39_3762	0.00475	0.14045	0.036135
ECIAI39_3764	0.0118	0.2264	0.05207
ECIAI39_3765	0.0053	0.1409	0.03751
ECIAI39_3769	0.0048	0.1624	0.02943
ECIAI39_3770	0.0015	0.1054	0.01464
ECIAI39_3771	0.0033	0.1072	0.03094
ECIAI39_3781	0	0.0519	0
ECIAI39_3782	0.0129	0.1706	0.07553
ECIAI39_3786	0	0.1861	0
ECIAI39_3792	0.0074	0.6615	0.01119
ECIAI39_3794	0.0159	0.7315	0.0218
ECIAI39_3795	0.0078	0.3771	0.02066
ECIAI39_3798	0.0049	0.4665	0.01048
ECIAI39_3800	0.006	0.6981	0.00856
ECIAI39_3803	0.0098	0.337	0.02898
ECIAI39_3807	0.0088	0.2198	0.04017
ECIAI39_3811	0.0058	0.1323	0.04417
ECIAI39_3812	0	0.0262	0

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Gene	*dN*	*dS*	ω
ECIAI39_3814	0.0011	0.1456	0.00741
ECIAI39_3816	0.0038	0.1402	0.02726
ECIAI39_3819	0.0067	0.1219	0.05535
ECIAI39_3820	0.00675	0.215	0.031585
ECIAI39_3821	0.0162	0.1559	0.10396
ECIAI39_3823	0.0067	0.3027	0.022
ECIAI39_3825	0.0311	0.1039	0.29941
ECIAI39_3826	0	0.1633	0
ECIAI39_3827	0.01445	0.16945	0.12085
ECIAI39_3829	0.0184	0.1313	0.13994
ECIAI39_3830	0.0279	0.1685	0.1655
ECIAI39_3833	0.0118	0.1521	0.07745
ECIAI39_3835	0.005	0.1968	0.02561
ECIAI39_3836	0.0228	0.3515	0.12589
ECIAI39_3838	0.0358	0.4561	0.0784
ECIAI39_3841	0.0426	0.1764	0.24165
ECIAI39_3842	0.00715	0.19925	0.0713
ECIAI39_3843	0.0052	0.1395	0.03755
ECIAI39_3845	0.008	0.2	0.03994
ECIAI39_3848	0.0063	0.2953	0.02117
ECIAI39_3849	0.00705	0.3511	0.01373
ECIAI39_3850	0.0065	0.2494	0.02597
ECIAI39_3851	0.01395	0.31965	0.042935
ECIAI39_3852	0.002	0.2472	0.00799
ECIAI39_3854	0.0033	0.4808	0.00683
ECIAI39_3857	0	0.305	0
ECIAI39_3858	0.0048	0.2541	0.01895
ECIAI39_3859	0	0.0967	0
ECIAI39_3861	0	0.4049	0
ECIAI39_3862	0.0008	0.3024	0.00254
ECIAI39_3863	0.0094	0.4678	0.02
ECIAI39_3864	0.0023	0.2106	0.0111
ECIAI39_3865	0.0044	0.1191	0.0366
ECIAI39_3866	0.0121	0.2884	0.04198
ECIAI39_3867	0.0035	0.319	0.010405
ECIAI39_3869	0.0159	0.3267	0.04855
ECIAI39_3872	0.0184	0.2115	0.08709
ECIAI39_3874	0.00326666666666667	0.1316	0.02787
ECIAI39_3875	0.0177	0.078	0.22688
ECIAI39_3876	0.00156666666666667	0.0548	0.0217133333333333
ECIAI39_3877	0.0037	0.1494	0.0248
ECIAI39_3879	0.012	0.2132	0.081895
ECIAI39_3880	0.0049	0.4493	0.01086
ECIAI39_3881	0.0113	0.2737	0.039835
ECIAI39_3884	0.012	0.2108	0.05695
ECIAI39_3886	0.0044	0.2763	0.01588
ECIAI39_3887	0.00735	0.13225	0.05106

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Gene	*dN*	*dS*	ω
ECIAI39_3888	0.0113	0.2417	0.04668
ECIAI39_3896	0.0319333333333333	0.200233333333333	0.15126
ECIAI39_3897	0.00865	0.1594	0.05574
ECIAI39_3898	0.0221	0.1319	0.186245
ECIAI39_3899	0.00345	0.1666	0.023205
ECIAI39_3901	0.01	0.1771	0.07372
ECIAI39_3903	0.0062	0.3338	0.01858
ECIAI39_3904	0.0042	0.1797	0.02326
ECIAI39_3906	0	0.1904	0
ECIAI39_3907	0	0.0712	0
ECIAI39_3917	0.01085	0.2014	0.06111
ECIAI39_3918	0.00425	0.2497	0.028945
ECIAI39_3920	0.0936	0.5274	0.17744
ECIAI39_3922	0.0032	0.1122	0.018375
ECIAI39_3923	0.0016	0.1357	0.0115
ECIAI39_3924	0.0055	0.2819	0.01949
ECIAI39_3927	0.00175	0.1601	0.00647
ECIAI39_3934	0.0367	0.65295	0.056805
ECIAI39_3935	0.0293	0.55345	0.065885
ECIAI39_3937	0.0169	0.3664	0.04622
ECIAI39_3938	0.0199	0.2495	0.075635
ECIAI39_3939	0.0108	0.1588	0.06773
ECIAI39_3940	0.0157	0.0931	0.16906
ECIAI39_3942	0.0095	0.2089	0.04552
ECIAI39_3943	0.01005	0.18855	0.049345
ECIAI39_3944	0.0136	0.2428	0.05588
ECIAI39_3945	0.0005	0.11865	0.00295
ECIAI39_3946	0	0.1547	0
ECIAI39_3947	0	0.037	0
ECIAI39_3949	0.0016	0.0764	0.02101
ECIAI39_3950	0.00365	0.11805	0.026795
ECIAI39_3952	0.0148	0.239	0.06177
ECIAI39_3953	0	0.1609	0
ECIAI39_3954	0.0109	0.09	0.121155
ECIAI39_3955	0.0042	0.0678	0.0718
ECIAI39_3956	0.0192	0.3104	0.06199
ECIAI39_3957	0.0028	0.2113	0.01338
ECIAI39_3958	0.0047	0.282	0.01671
ECIAI39_3959	0.0017	0.0591	0.02956
ECIAI39_3960	0	0.025	0
ECIAI39_3961	0	0.0321	0
ECIAI39_3962	0.0051	0.1384	0.0371
ECIAI39_3964	0.0033	0.1062	0.03126
ECIAI39_3966	0.0056	0.10925	0.05647
ECIAI39_3967	0.0014	0.106	0.0136
ECIAI39_3968	0.039	0.3599	0.10842
ECIAI39_3969	0.0057	0.395	0.01446

Continued on next page

Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_3970	0.0102	0.505	0.02019
ECIAI39_3971	0	0	0
ECIAI39_3972	0.0043	0.1161	0.02572
ECIAI39_3973	0.0056	0.3345	0.01664
ECIAI39_3974	0.0109	0.3997	0.0273
ECIAI39_3975	0.002	0.2259	0.00877
ECIAI39_3976	0.0114	0.2208	0.05176
ECIAI39_3978	0.0412	0.2613	0.15757
ECIAI39_3981	0.0141	0.495	0.02848
ECIAI39_3982	0.0104	0.3404	0.03064
ECIAI39_3986	0.0046	0.3798	0.01211
ECIAI39_3987	0.0112	0.2314	0.04822
ECIAI39_3988	0.0249	0.2176	0.1146
ECIAI39_3989	0.0105	0.1854	0.05669
ECIAI39_3990	0.0095	0.24145	0.036025
ECIAI39_3994	0.0016	0.2288	0.00717
ECIAI39_3997	0.0178	0.1654	0.10733
ECIAI39_3998	0.0162	0.1561	0.10361
ECIAI39_3999	0.0039	0.1758	0.0221
ECIAI39_4000	0.0023	0.295	0.00787
ECIAI39_4001	0.0595	0.3124	0.19038
ECIAI39_4002	0.0011	0.17925	0.006105
ECIAI39_4004	0.0011	0.13835	0.011495
ECIAI39_4005	0.0131	0.2722	0.04816
ECIAI39_4007	0.023	0.3359	0.06844
ECIAI39_4009	0.0139	0.1469	0.09446
ECIAI39_4016	0.0148	0.237133333333333	0.0599066666666667
ECIAI39_4019	0	0.0355	0
ECIAI39_4020	0.000866666666666667	0.0429666666666667	0.01432
ECIAI39_4021	0	0.02705	0
ECIAI39_4029	0.01425	0.2836	0.050225
ECIAI39_4030	0.02595	0.2041	0.137005
ECIAI39_4031	0.0306	0.2138	0.144785
ECIAI39_4032	0.01305	0.12325	0.126325
ECIAI39_4033	0.00596	0.13688	0.11726
ECIAI39_4034	0.0101	0.10485	0.135075
ECIAI39_4035	0.0311333333333333	0.456466666666667	0.07578
ECIAI39_4036	0.0252333333333333	0.370866666666667	0.0789
ECIAI39_4038	0.0072	0.2678	0.02696
ECIAI39_4048	0.0116	0.1795	0.06487
ECIAI39_4049	0.0175	0.2678	0.06531
ECIAI39_4050	0.0022	0.2424	0.00927
ECIAI39_4052	0.0128	0.3656	0.03491
ECIAI39_4054	0.0053	0.3754	0.01415
ECIAI39_4055	0.0068	0.3767	0.01798
ECIAI39_4056	0.0068	0.405	0.0168
ECIAI39_4059	0.0019	0.2202	0.00735

Continued on next page

Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_4060	0.0112	0.3308	0.03382
ECIAI39_4061	0.0104	0.3279	0.03161
ECIAI39_4062	0.0066	0.1342	0.0493
ECIAI39_4065	0.0025	0.1941	0.01314
ECIAI39_4067	0.0357	0.247966666666667	0.14662
ECIAI39_4068	0.0084	0.2601	0.03217
ECIAI39_4071	0.0116	0.1179	0.09808
ECIAI39_4076	0.00395	0.1437	0.02842
ECIAI39_4077	0.0059	0.1935	0.03043
ECIAI39_4079	0.0023	0.09795	0.024025
ECIAI39_4080	0.0823	1.4055	0.05857
ECIAI39_4083	0.0143	0.1257	0.26819
ECIAI39_4084	0.0006	0.2069	0.00281
ECIAI39_4086	0.004	0.1309	0.02318
ECIAI39_4087	0.0132	0.1951	0.06755
ECIAI39_4089	0	0.2691	0
ECIAI39_4090	0.0055	0.1473	0.03723
ECIAI39_4092	0.017	0.224566666666667	0.0786833333333333
ECIAI39_4093	0.0085	0.1996	0.04243
ECIAI39_4095	0.0041	0.2061	0.01996
ECIAI39_4096	0.0041	0.1878	0.02202
ECIAI39_4097	0.022	0.1642	0.13406
ECIAI39_4100	0.00355	0.11185	0.050145
ECIAI39_4102	0.0015	0.4086	0.00369
ECIAI39_4105	0.00775	0.1735	0.03843
ECIAI39_4106	0.0268	0.1804	0.1484
ECIAI39_4107	0.0094	0.2214	0.04252
ECIAI39_4108	0.0034	0.1644	0.02038
ECIAI39_4109	0.0026	0.1616	0.01633
ECIAI39_4114	0.01225	0.215	0.063895
ECIAI39_4117	0.0039	0.1225	0.03148
ECIAI39_4120	0.0077	0.1003	0.07636
ECIAI39_4121	0.0082	0.2043	0.04024
ECIAI39_4124	0.002	0.1965	0.01022
ECIAI39_4125	0.0034	0.1612	0.02083
ECIAI39_4126	0	0.0314	0
ECIAI39_4128	0.0132	0.2229	0.05927
ECIAI39_4129	0.0216	0.3573	0.06033
ECIAI39_4131	0.0302	0.2254	0.13403
ECIAI39_4133	0.03685	0.3195	0.11907
ECIAI39_4134	0.03925	1.01065	0.04432
ECIAI39_4142	0.03765	0.51865	0.07599
ECIAI39_4143	0.0315333333333333	0.401966666666667	0.0891166666666667
ECIAI39_4144	0.022	0.6225	0.03539
ECIAI39_4145	0.0416	0.8217	0.05065
ECIAI39_4146	0.0113	0.7107	0.01596
ECIAI39_4147	0.0126	0.6106	0.02058

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_4148	0.0189	0.5413	0.03485
ECIAI39_4149	0.0248333333333333	0.404366666666667	0.08411
ECIAI39_4150	0.0092	0.4443	0.02073
ECIAI39_4151	0.0198666666666667	0.4768	0.0430966666666667
ECIAI39_4152	0.0267	0.5103	0.05225
ECIAI39_4155	0	0.0521	0
ECIAI39_4156	0.0075	0.1431	0.05257
ECIAI39_4157	0.0312	0.0924	0.33742
ECIAI39_4159	0.0471	0.1557	0.30218
ECIAI39_4162	0.0096	0.1014	0.09426
ECIAI39_4163	0.0088	0.3273	0.02681
ECIAI39_4164	0.0273	0.57395	0.051365
ECIAI39_4165	0.0178	0.3418	0.05207
ECIAI39_4166	0	0.1646	0
ECIAI39_4167	0.0051	0.1422	0.03583
ECIAI39_4172	0.00515	0.1409	0.035095
ECIAI39_4174	0.0327	0.1948	0.16759
ECIAI39_4175	0.0085	0.1642	0.05148
ECIAI39_4176	0	0.0956	0
ECIAI39_4177	0.002	0.1648	0.01211
ECIAI39_4178	0.0057	0.1619	0.03516
ECIAI39_4179	0	0.1622	0
ECIAI39_4180	0.01955	0.0923	0.220645
ECIAI39_4182	0.0027	0.1641	0.01663
ECIAI39_4185	0.0172	0.1646	0.10477
ECIAI39_4186	0.00135	0.07875	0.018555
ECIAI39_4190	0.0206	0.1289	0.16011
ECIAI39_4191	0.00275	0.06715	0.03882
ECIAI39_4193	0	0.0703	0
ECIAI39_4195	0.0111	0.1775	0.06262
ECIAI39_4196	0	0.054	0
ECIAI39_4198	0	0.1577	0
ECIAI39_4199	0.0377	0.1643	0.22958
ECIAI39_4202	0.0046	0.1213	0.03828
ECIAI39_4203	0.0027	0.1259	0.02133
ECIAI39_4207	0.0042	0.1372	0.03073
ECIAI39_4211	0.00615	0.11975	0.03985
ECIAI39_4212	0.0164	0.4377	0.03755
ECIAI39_4215	0.0011	0.2712	0.00417
ECIAI39_4218	0.0043	0.1792	0.02424
ECIAI39_4219	0.0027	0.2453	0.01099
ECIAI39_4220	0.0025	0.3197	0.0078
ECIAI39_4221	0.0082	0.2082	0.03927
ECIAI39_4223	0.024	0.1623	0.14805
ECIAI39_4224	0.0052	0.1695	0.021325
ECIAI39_4227	0.0152	0.2089	0.07295
ECIAI39_4228	0.0074	0.0377	0.195425

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_4229	0.0023	0.1196	0.01892
ECIAI39_4231	0.0035	0.0976	0.0354
ECIAI39_4233	0	0.0179	0
ECIAI39_4235	0	0.0563	0
ECIAI39_4236	0.0047	0.203	0.02312
ECIAI39_4237	0	0.335	0
ECIAI39_4239	0.0112	0.1075	0.10383
ECIAI39_4240	0.0306	0.3558	0.08844
ECIAI39_4241	0	0.27635	0
ECIAI39_4244	0.0168	0.323	0.05197
ECIAI39_4248	0.0046	0.03	0.11654
ECIAI39_4249	0.0192	0.0844	0.22788
ECIAI39_4250	0.0019	0.1879	0.00991
ECIAI39_4251	0.0052	0.4655	0.01113
ECIAI39_4254	0.0233	0.643475	0.0322375
ECIAI39_4255	0.0045	0.516266666666667	0.0118133333333333
ECIAI39_4256	0.01605	0.4613	0.0319
ECIAI39_4257	0.00116666666666667	0.0205666666666667	0.0574466666666667
ECIAI39_4258	0.0186909090909091	0.290163636363636	0.0684354545454545
ECIAI39_4259	0.0087	0.204	0.04286
ECIAI39_4262	0.0039	0.1613	0.02443
ECIAI39_4264	0.0207	0.1807	0.11463
ECIAI39_4265	0.0005	0.0833	0.00455
ECIAI39_4266	0.0064	0.1289	0.0498
ECIAI39_4267	0.0025	0.1238	0.02043
ECIAI39_4269	0.0125	0.2528	0.04963
ECIAI39_4271	0.0126	0.2133	0.05917
ECIAI39_4273	0.006	0.3384	0.01775
ECIAI39_4274	0.0123	0.3475	0.03551
ECIAI39_4277	0.0123	0.3916	0.03138
ECIAI39_4280	0.0028	0.1946	0.0145
ECIAI39_4281	0.0052	0.2206	0.02371
ECIAI39_4282	0.0052	0.2398	0.02184
ECIAI39_4284	0.0197	0.1408	0.14014
ECIAI39_4285	0.0032	0.1967	0.0165
ECIAI39_4287	0.0181	0.1103	0.16442
ECIAI39_4288	0.004	0.1796	0.02227
ECIAI39_4290	0.0076	0.2138	0.03578
ECIAI39_4292	0.0066	0.1829	0.03588
ECIAI39_4294	0.003	0.2698	0.0112
ECIAI39_4295	0.0015	0.0502	0.014935
ECIAI39_4302	0.0196	0.2709	0.07247
ECIAI39_4303	0.0226	0.973466666666667	0.0280166666666667
ECIAI39_4305	0.0024	0.269	0.00898
ECIAI39_4306	0.0035	0.0835	0.04178
ECIAI39_4309	0	0.2333	0
ECIAI39_4310	0.0013	0.0739	0.01805

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Table S1 – continued from previous page

Gene	*dN*	*dS*	ω
ECIAI39_4311	0	0.1421	0
ECIAI39_4312	0.0284	0.4691	0.057895
ECIAI39_4318	0.0184	0.4011	0.04585
ECIAI39_4361	0.0061	0.2516	0.02407
ECIAI39_4362	0.0069	0.2675	0.0257
ECIAI39_4369	0.015	0.1931	0.0778
ECIAI39_4370	0	0.1475	0
ECIAI39_4371	0.0088	0.2471	0.03547
ECIAI39_4372	0.0533333333333333	0.837666666666667	0.0887933333333333
ECIAI39_4373	0.0171333333333333	0.291	0.0593766666666667
ECIAI39_4393	0.0114	0.2753	0.04129
ECIAI39_4394	0	0	0
ECIAI39_4395	0.0034	0.1731	0.01984
ECIAI39_4396	0.0056	0.1615	0.03465
ECIAI39_4399	0.0157	0.1165	0.13453
ECIAI39_4400	0.00636666666666667	0.1411	0.0540766666666667
ECIAI39_4401	0.0138	0.1573	0.08769
ECIAI39_4403	0.0136	0.1139	0.1194
ECIAI39_4404	0.0441	0.2406	0.24898
ECIAI39_4405	0.01395	0.2259	0.080375
ECIAI39_4406	0.005925	0.14145	0.055335
ECIAI39_4408	0.007	0.1906	0.03666
ECIAI39_4409	0.0079	0.2485	0.03179
ECIAI39_4411	0.0355	0.3775	0.09398
ECIAI39_4413	0.0054	0.3189	0.0169
ECIAI39_4415	0.0036	0.1777	0.0202
ECIAI39_4417	0.0024	0.1929	0.01231
ECIAI39_4418	0.002	0.1952	0.01047
ECIAI39_4422	0.0301	0.3808	0.08671
ECIAI39_4423	0.0069	0.2886	0.0238
ECIAI39_4424	0.0045	0.176	0.02557
ECIAI39_4426	0.0033	0.44945	0.00708
ECIAI39_4428	0	0.277	0
ECIAI39_4431	0.0029	0.2916	0.00982
ECIAI39_4433	0.0044	0.14	0.0315
ECIAI39_4434	0.0103	0.184	0.0559266666666667
ECIAI39_4435	0	0.1369	0
ECIAI39_4436	0.0166	0.2482	0.06702
ECIAI39_4437	0.0195	0.2263	0.0864
ECIAI39_4440	0.0262	0.1786	0.14671
ECIAI39_4442	0	0.0732	0
ECIAI39_4443	0.0261	0.1621	0.209915
ECIAI39_4937	0.0152	0.2165	0.07027

Table S2: Per gene dN, dS, and ω values calculated for *B. subtilis*.

Bacillus subtilis			
Gene	***dN***	***dS***	ω
gene_name	dN	dS	omega
B657_RS21020	0.0198	0.3709	0.05341
B657_RS21130	0.01665	0.14565	0.110055
B657_RS21135	0.03355	0.497	0.06602
B657_RS21140	0.0687	0.64175	0.10724
B657_RS21170	0.0324	0.416533333333333	0.07838
B657_RS21175	0.02295	0.2772	0.106485
B657_RS21180	0.0039	0.202	0.01934
B657_RS21185	0.0089	0.3754	0.02359
B657_RS21190	0.0097	0.26345	0.03468
B657_RS21195	0.04755	0.9777	0.048235
B657_RS21200	0.0616	0.48	0.12842
B657_RS21205	0.05475	0.51925	0.10833
B657_RS21210	0.0957	0.5554	0.17224
B657_RS21215	0.0628	0.3043	0.20636
B657_RS21220	0.06955	0.3059	0.24682
B657_RS21225	0.0283	0.2916	0.09705
B657_RS21230	0.0141	0.1901	0.07427
B657_RS21240	0.0254333333333333	0.466366666666667	0.0646466666666667
B657_RS21245	0.0471	0.2284	0.20622
B657_RS21255	0.0589	0.3145	0.18483
B657_RS21260	0.011	0.3412	0.03212
B657_RS21265	0.0134	0.1976	0.06761
B657_RS21270	0.0247	0.2268	0.1089
B657_RS21275	0.0176	0.1524	0.11555
B657_RS21285	0.0165	0.1789	0.09251
B657_RS21300	0.0851333333333333	1.7132	0.0528166666666667
B657_RS21310	0.02	0.1743	0.11492
B657_RS21315	0.0114	0.2678	0.04261
B657_RS21320	0.0137	0.3752	0.03661
B657_RS21325	0.026	0.2968	0.08763
B657_RS21340	0.02495	0.27115	0.08777
B657_RS21345	0.0134	0.3324	0.04036
B657_RS21350	0.0179	0.2686	0.0665
B657_RS21355	0.0208	0.2422	0.08597
B657_RS21360	0.0108	0.3264	0.03319
B657_RS21365	0.0059	0.2287	0.02591
B657_RS21390	0.0403666666666667	0.4546	0.09046
B657_RS21395	0.0197	0.5549	0.03548
B657_RS21400	0.0281333333333333	0.477866666666667	0.0555866666666667
B657_RS21425	0.0344	0.3423	0.10047
B657_RS21430	0.0968	0.681025	0.1450925
B657_RS21435	0.0261	0.5505	0.04733
B657_RS21500	0.0675	0.3196	0.21136
B657_RS21505	0.0564	0.3781	0.14909

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
B657_RS21515	0.0521	0.3195	0.16927
B657_RS21520	0.032	0.2436	0.13153
B657_RS21525	0.0299	0.4727	0.0632
B657_RS21535	0.0376	0.2516	0.14955
B657_RS21540	0.01345	0.27785	0.04872
B657_RS21560	0.0255	0.3486	0.07316
B657_RS21565	0.0149	0.4145	0.03601
B657_RS21570	0.0782	0.0929	0.84181
B657_RS21595	0.0114	0.23595	0.059915
B657_RS21645	0.0085	0.4087	0.02079
B657_RS21680	0.04215	0.29595	0.17832
B657_RS21695	0.11115	0.3988	0.280295
B657_RS21705	0.0521	0.469533333333333	0.119153333333333
B657_RS21710	0.0217	0.2773	0.07838
B657_RS21715	0.0168	0.33565	0.06229
B657_RS21720	0.0183	0.4063	0.045
B657_RS21725	0.0117	0.3116	0.03767
BSBS38_RS02685	0.0102	0.2813	0.03621
BSBS38_RS03245	0.0156	0.2732	0.05725
BSBS38_RS06355	0.0655	0.4395	0.14896
BSBS38_RS06455	0.0208	0.2823	0.07384
BSBS38_RS13570	0.0157	0.2405	0.06516
BSBS38_RS13600	0.0146	0.2687	0.05449
BSBS38_RS15175	0.0232	0.334	0.06933
BSBS38_RS16465	0.0984	0.6294	0.15634
BSU17360	0.0113	0.1186	0.09556
BSU39360	0.0131	0.3506	0.03726
BSU39400	0.0078	0.3429	0.02289
BSU39440	0.1182	0.6529	0.18111
BSU39490	0.0147	0.3225	0.04556
BSU39520	0.0191	0.4154	0.04604
BSU39590	0.0195	0.2517	0.07742
BSU39640	0.018	0.3285	0.05483
BSU39690	0.0077	0.391	0.0196
BSU39720	0.0207	0.218	0.09477
BSU39780	0.01	0.3334	0.02986
BSU39820	0.0062	0.4048	0.01538
BSU39990	0.0251	0.1301	0.19324
BSU40010	0.0119	0.2958	0.0401
BSU40050	0.0232	0.2561	0.09077
BSU40070	0.0102	0.3165	0.0323
BSU40080	0.0118	0.2658	0.04439
BSU40350	0.01415	0.49265	0.02951
BSU40360	0.02395	0.1868	0.252125
BSU40370	0.0052	0.3574	0.01462
BSU40380	0.0261	0.2297	0.11365
BSU40390	0.0288666666666667	0.2943	0.102013333333333

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSU40400	0.0038	0.2874	0.01306
BSU40410	0	0.1751	0
BSU40420	0.0068	0.1875	0.03609
BSU40430	0.05395	0.3554	0.158905
BSU40440	0.002	0.2769	0.00738
BSU40450	0.0613	0.3172	0.19327
BSU40460	0.0588	0.2333	0.25189
BSU40480	0.03285	0.2685	0.122285
BSU40490	0.06445	0.3292	0.1925975
BSU40500	0.0064	0.2458	0.02605
BSU40510	0.0042	0.2016	0.02105
BSU40540	0.0285	0.2957	0.0965
BSU40550	0.0091	0.2335	0.0389
BSU40560	0.0425	0.3309	0.1283
BSU40570	0.0089	0.3689	0.024
BSU40630	0.0433	0.4511	0.10148
BSU40710	0.0171	0.4546	0.03765
BSU40720	0.0944	0.5156	0.18313
BSU40730	0.0787	0.3792	0.20751
BSU40820	0.03225	0.560125	0.0592975
BSU40830	0.0237	0.4819	0.0492
BSU40840	0.0268	0.4302	0.0622
BSU40850	0.03905	0.2918	0.175005
BSU40860	0.0487	0.2632	0.18513
BSU40870	0.0597	0.2796	0.21345
BSU40880	0.0333	0.4421	0.07544
BSU40890	0	0.0537	0
BSU40900	0	0.0366	0
BSU40910	0.0099	0.0134	0.74218
BSU40920	0.0076	0.272	0.02809
BSU40930	0.0245	0.38715	0.063115
BSU40939	0.0061	0.1667	0.03652
BSU40940	0.0195	0.2973	0.06574
BSU40950	0.0201	0.4284	0.04699
BSU40960	0.0114	0.2984	0.03807
BSU40970	0	0.2648	0
BSU40980	0.0541	0.32555	0.16628
BSU40990	0.0048	0.1592	0.03042
BSU41000	0.0153	0.3464	0.04407
BSU41010	0.0022	0.2435	0.00895
BSU41020	0.0056	0.30285	0.0195
BSU41030	0.0303	0.2758	0.10998
BSU41040	0.0071	0.1677	0.04264
BSU41050	0.008	0.1561	0.05118
BSU41060	0	0.0593	0
BSUW23_RS01260	0.1203	0.1997	0.60238
BSUW23_RS01285	0.05685	0.28265	0.200915

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS01425	0.0263	0.1681	0.15626
BSUW23_RS01450	0.0939	0.312	0.30106
BSUW23_RS01455	0.0048	0.2737	0.01766
BSUW23_RS01565	0.0404	0.4036	0.10018
BSUW23_RS01575	0.0111	0.3903	0.02832
BSUW23_RS01580	0	0.1512	0
BSUW23_RS01625	0.0463	0.2847	0.16262
BSUW23_RS01665	0.0884	0.3314	0.26669
BSUW23_RS01690	0.0487	0.4077	0.11935
BSUW23_RS01855	0.005	0.3493	0.01426
BSUW23_RS01935	0.1114	0.2807	0.39707
BSUW23_RS01970	0.0211	0.384	0.05487
BSUW23_RS02040	0.0422	0.3159	0.13369
BSUW23_RS02155	0.0749	0.7629	0.09817
BSUW23_RS02255	0.0163	0.3906	0.04179
BSUW23_RS02300	0.0285	0.262	0.1089
BSUW23_RS02355	0.0451	0.4028	0.11201
BSUW23_RS02390	0.0277	0.333	0.08306
BSUW23_RS02510	0.0314	0.4113	0.07626
BSUW23_RS02570	0	0.1521	0
BSUW23_RS02600	0.0093	0.1835	0.05075
BSUW23_RS02630	0.0256	0.2521	0.10151
BSUW23_RS02715	0.0116	0.1787	0.06469
BSUW23_RS02920	0.0433	0.4526	0.09566
BSUW23_RS02950	0.0833	0.5626	0.14813
BSUW23_RS02995	0.0532	0.3553	0.14978
BSUW23_RS03040	0.03745	0.4382	0.085665
BSUW23_RS03060	0.0449	0.4089	0.11098
BSUW23_RS03110	0.0226	0.3194	0.07068
BSUW23_RS03140	0.082	1.3326	0.06153
BSUW23_RS03185	0.0288	0.3434	0.08398
BSUW23_RS03235	0.0276	1.2984	0.02126
BSUW23_RS03260	0.0814	0.41105	0.198145
BSUW23_RS03265	0.0163	0.5054	0.03229
BSUW23_RS03270	0.0077	0.2098	0.0369
BSUW23_RS03280	0.0183	0.4654	0.03938
BSUW23_RS03300	0.03585	0.443	0.0827
BSUW23_RS03310	0.0483	0.4273	0.11298
BSUW23_RS05065	0.022	0.1348	0.1631
BSUW23_RS05080	0	0.0245	0
BSUW23_RS05210	0.0396	0.41515	0.09715
BSUW23_RS05235	0.0406	0.1597	0.25422
BSUW23_RS05250	0.0109	0.3452	0.0316
BSUW23_RS05265	0.0193	0.2754	0.07008
BSUW23_RS05310	0.047	0.1629	0.28834
BSUW23_RS05385	0.0355	0.3737	0.09487
BSUW23_RS05430	0.01035	0.07665	0.131905

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS05450	0.0413	0.2778	0.14875
BSUW23_RS05555	0.0094	0.314	0.02985
BSUW23_RS05655	0.0144	0.2906	0.04963
BSUW23_RS05675	0.0199	0.2906	0.06837
BSUW23_RS05715	0.0237	0.2847	0.08343
BSUW23_RS05815	0.0393	0.3139	0.12519
BSUW23_RS05835	0.0437	0.3702	0.11805
BSUW23_RS05860	0.0127	0.3231	0.0392
BSUW23_RS05920	0.0205	0.1914	0.10709
BSUW23_RS06010	0.0834	0.1848	0.45121
BSUW23_RS06020	0.0642	0.37145	0.186455
BSUW23_RS06065	0.068	0.408433333333333	0.154186666666667
BSUW23_RS06075	0.0222	0.3948	0.05627
BSUW23_RS06140	0.0193	0.4649	0.04143
BSUW23_RS06220	0.0655	0.2623	0.2497
BSUW23_RS06300	0.0382	1.4794	0.02581
BSUW23_RS06420	0.0043	0.3012	0.01413
BSUW23_RS06430	0.0485	0.3586	0.13519
BSUW23_RS06435	0.0376	0.2474	0.1519
BSUW23_RS06455	0.0281	0.3609	0.07797
BSUW23_RS06465	0.0327	0.390966666666667	0.07914
BSUW23_RS06535	0.0162	0.2772	0.05846
BSUW23_RS06545	0.0199	0.4057	0.04911
BSUW23_RS06635	0.033	0.7229	0.04569
BSUW23_RS06740	0.0662	0.4175	0.15863
BSUW23_RS06765	0.0687	0.2063	0.33282
BSUW23_RS06775	0	0.2026	0
BSUW23_RS06915	0.0333	0.4967	0.06698
BSUW23_RS06920	0.0111	0.4263	0.02593
BSUW23_RS06945	0.0348	0.2153	0.16185
BSUW23_RS06970	0.0731	3.4346	0.02127
BSUW23_RS07030	0.0879	0.2786	0.31546
BSUW23_RS07070	0.0172	0.2707	0.06361
BSUW23_RS07120	0.0392	0.5866	0.06681
BSUW23_RS07125	0.0084	0.2989	0.02804
BSUW23_RS07155	0.0172	0.3568	0.04822
BSUW23_RS07175	0.0346	0.3082	0.11215
BSUW23_RS07190	0.07085	0.32815	0.211265
BSUW23_RS07255	0.0331	0.3712	0.08929
BSUW23_RS07280	0.0233	0.5286	0.04408
BSUW23_RS07285	0.0121	0.3472	0.03471
BSUW23_RS07300	0.0476	0.6882	0.082845
BSUW23_RS07305	0.0149	0.4077	0.03649
BSUW23_RS07330	0.02	0.3269	0.06127
BSUW23_RS07375	0.0425	0.4329	0.09814
BSUW23_RS07410	0.0174	0.2757	0.06322
BSUW23_RS07415	0.015	0.4129	0.03627

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS07435	0.0109	0.3146	0.03476
BSUW23_RS07440	0.051	0.4306	0.11842
BSUW23_RS07450	0.03525	0.4639	0.077
BSUW23_RS07485	0.0064	0.2632	0.0244
BSUW23_RS07500	0.0074	0.2428	0.03041
BSUW23_RS07585	0.0077	0.0644	0.11921
BSUW23_RS07600	0.0235	0.3162	0.07419
BSUW23_RS07640	0.0083	0.2035	0.04082
BSUW23_RS07645	0.0051	0.1661	0.03073
BSUW23_RS07835	0.0533	0.3331	0.16011
BSUW23_RS07850	0.0259	0.5618	0.04617
BSUW23_RS07870	0.0138	0.3398	0.04067
BSUW23_RS07890	0.0368	0.2918	0.12598
BSUW23_RS07910	0.0072	0.1885	0.03839
BSUW23_RS07915	0.0919	0.5137	0.17897
BSUW23_RS07950	0.0665	0.2556	0.26003
BSUW23_RS08040	0.011	0.1526	0.07192
BSUW23_RS08085	0.0633	0.434	0.14582
BSUW23_RS08095	0.0369	0.4168	0.08843
BSUW23_RS08185	0.033	0.3451	0.09572
BSUW23_RS08260	0.0244	0.2866	0.08519
BSUW23_RS08330	0.016	0.321	0.04998
BSUW23_RS08505	0.0387	0.22875	0.183755
BSUW23_RS08550	0.0207	0.2788	0.07407
BSUW23_RS08715	0	0.0213	0
BSUW23_RS08835	0.0042	0.0292	0.14506
BSUW23_RS08910	0.0105	0.2843	0.03698
BSUW23_RS09035	0.0023	0.2061	0.01138
BSUW23_RS09055	0	0.0204	0
BSUW23_RS09085	0.0095	0.187	0.05107
BSUW23_RS09115	0.0130666666666667	0.328166666666667	0.0412166666666667
BSUW23_RS09380	0.0651	0.3475	0.18726
BSUW23_RS09410	0.0165	0.3904	0.04225
BSUW23_RS09415	0.03865	0.31605	0.12491
BSUW23_RS09465	0.0054	0.402	0.01351
BSUW23_RS09475	0.0429	0.3092	0.13877
BSUW23_RS09495	0.012	0.2987	0.04028
BSUW23_RS09505	0.01	0.2735	0.03653
BSUW23_RS09585	0.025	0.3192	0.07838
BSUW23_RS09590	0.0299	0.2207	0.1356
BSUW23_RS09600	0.0213	0.2305	0.09245
BSUW23_RS09635	0.0392	0.3651	0.10733
BSUW23_RS09645	0.0288	0.5873	0.04903
BSUW23_RS09670	0.03775	0.38665	0.103445
BSUW23_RS09705	0.0567333333333333	0.3131	0.279043333333333
BSUW23_RS09710	0.01015	0.295475	0.0325125
BSUW23_RS09715	0.0396666666666667	0.557566666666667	0.0819666666666667

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS10035	0.0183	0.2948	0.0621
BSUW23_RS10110	0	0.3282	0
BSUW23_RS10480	0.1302	0.5312	0.24515
BSUW23_RS10530	0.0159	0.428	0.03712
BSUW23_RS10555	0	0.2178	0
BSUW23_RS10655	0.0453	0.4549	0.09964
BSUW23_RS10660	0.0365	0.5499	0.06632
BSUW23_RS10735	0.0433	0.284	0.15256
BSUW23_RS10745	0.0151	0.187	0.08067
BSUW23_RS10750	0.0325	0.3258	0.09989
BSUW23_RS10810	0.0084	0.3441	0.02438
BSUW23_RS10860	0.0527	0.2856	0.1847
BSUW23_RS10875	0.0068	0.3972	0.01724
BSUW23_RS10885	0.0468	0.3155	0.14838
BSUW23_RS11720	0.0093	0.2715	0.03439
BSUW23_RS11735	0	0.1105	0
BSUW23_RS11740	0.0205	0.281	0.07285
BSUW23_RS12135	0.0305	0.5719	0.05334
BSUW23_RS12160	0.077	0.4751	0.16196
BSUW23_RS12175	0.0319	0.6918	0.04606
BSUW23_RS12180	0.033	0.44	0.07503
BSUW23_RS12195	0.02	0.8245	0.02429
BSUW23_RS12305	0.0105	0.3358	0.03135
BSUW23_RS12335	0.0043	0.179	0.02383
BSUW23_RS12340	0.0487	0.4451	0.10938
BSUW23_RS12415	0.0856	0.5025	0.17028
BSUW23_RS12475	0.005	0.3575	0.01409
BSUW23_RS12485	0.0101	0.0915	0.11064
BSUW23_RS12525	0.0762	1.5431	0.04939
BSUW23_RS12550	0.0115	0.5925	0.01936
BSUW23_RS12570	0.0156	0.4526	0.029005
BSUW23_RS12615	0.0104	0.3454	0.03005
BSUW23_RS12625	0.0109	0.4226	0.02577
BSUW23_RS12665	0.0027	0.2424	0.01123
BSUW23_RS12730	0.0234	0.6004	0.03894
BSUW23_RS12760	0.0204	0.377	0.05419
BSUW23_RS12865	0.0256	0.4896	0.0523
BSUW23_RS12875	0.0204	0.3281	0.06227
BSUW23_RS12910	0.0192	0.3388	0.05662
BSUW23_RS12955	0.0304	0.3086	0.09836
BSUW23_RS13015	0	0.1811	0
BSUW23_RS13075	0.0034	0.1209	0.02812
BSUW23_RS13085	0.005	0.2563	0.0196
BSUW23_RS13090	0.0102	0.1899	0.05356
BSUW23_RS13115	0.0228	0.1476	0.15468
BSUW23_RS13125	0.0237	0.23735	0.115305
BSUW23_RS13150	0.0281	0.2599	0.10809

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Gene	*dN*	*dS*	ω
BSUW23_RS13175	0.0115	0.28	0.04111
BSUW23_RS13180	0.0037	0.1978	0.01869
BSUW23_RS13215	0	0.0092	0
BSUW23_RS13235	0.07505	0.29065	0.261205
BSUW23_RS13275	0.0311	0.2368	0.13119
BSUW23_RS13280	0.0581	0.2468	0.23548
BSUW23_RS13345	0.0066	0.2445	0.02693
BSUW23_RS13355	0.0134	0.2435	0.05507
BSUW23_RS13395	0.0335	0.3044	0.10994
BSUW23_RS13420	0.0208	0.2662	0.07813
BSUW23_RS13440	0.0131	0.3965	0.03315
BSUW23_RS13460	0	0.0228	0
BSUW23_RS13470	0.0071	0.2448	0.02892
BSUW23_RS13535	0.0106	0.0728	0.14539
BSUW23_RS13595	0.0029	0.181	0.01626
BSUW23_RS13660	0.0169	0.3147	0.05357
BSUW23_RS13680	0.017	0.2787	0.06099
BSUW23_RS13690	0.0319	0.2368	0.13481
BSUW23_RS14040	0.0608	0.6324	0.09609
BSUW23_RS14235	0.0293	0.4903	0.05968
BSUW23_RS14305	0.0368	0.4255	0.08656
BSUW23_RS14310	0.0399	0.3931	0.10152
BSUW23_RS14370	0.0169	0.3037	0.05562
BSUW23_RS14400	0.0028	0.2588	0.01101
BSUW23_RS14410	0.0062	0.2952	0.02087
BSUW23_RS14430	0.0032	0.0875	0.03695
BSUW23_RS14490	0.0132	0.4432	0.0297
BSUW23_RS14505	0	0.2085	0
BSUW23_RS14570	0.0524	0.4145	0.12654
BSUW23_RS14585	0.0258	0.4985	0.05181
BSUW23_RS14640	0.0086	0.2239	0.0383
BSUW23_RS14650	0.0191	0.3317	0.05745
BSUW23_RS14655	0.0366	0.393	0.0931
BSUW23_RS14670	0.0223	0.0956	0.23322
BSUW23_RS14700	0	0.2244	0
BSUW23_RS14730	0.0122	0.2254	0.05428
BSUW23_RS14750	0.0554	0.6342	0.08731
BSUW23_RS14765	0.0355	0.3415	0.10395
BSUW23_RS14890	0.014	0.3483	0.0403
BSUW23_RS14900	0.2004	0.6046	0.33143
BSUW23_RS14975	0.0195	0.2364	0.08242
BSUW23_RS15035	0.0124	0.3013	0.04105
BSUW23_RS15075	0.0183	0.3458	0.05278
BSUW23_RS15080	0.015	0.3165	0.04746
BSUW23_RS15090	0.0226	0.3236	0.06971
BSUW23_RS15160	0.031	0.3229	0.09593
BSUW23_RS15195	0	0.0432	0

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS15200	0.0655	0.6328	0.10344
BSUW23_RS15340	0	0.1999	0
BSUW23_RS15345	0	0.0441	0
BSUW23_RS15350	0.0056	0.2952	0.01891
BSUW23_RS15360	0.0121	0.2729	0.04433
BSUW23_RS15365	0.0141	0.2636	0.05362
BSUW23_RS15370	0.0407	0.2257	0.1805
BSUW23_RS15440	0.0265	0.2275	0.11649
BSUW23_RS15560	0.0093	0.1811	0.05118
BSUW23_RS15630	0.0369	0.4715	0.07837
BSUW23_RS15665	0.011	0.2943	0.03736
BSUW23_RS15710	0.0112	0.3368	0.03321
BSUW23_RS15775	0.0216	0.1755	0.1228
BSUW23_RS15840	0.0212	0.323	0.06568
BSUW23_RS15940	0.0181	0.3634	0.04976
BSUW23_RS15975	0.0386	0.2848	0.13567
BSUW23_RS15990	0.0201	0.3368	0.05971
BSUW23_RS16070	0.1156	0.6111	0.18924
BSUW23_RS16095	0.2892	1.8195	0.15894
BSUW23_RS16100	0.0065	0.4881	0.0133
BSUW23_RS16115	0.0176	0.2407	0.0733
BSUW23_RS16160	0.0204	0.2619	0.08319
BSUW23_RS16165	0.0286	0.2853	0.1004
BSUW23_RS16200	0.0332	0.348	0.09535
BSUW23_RS16210	0.0162	0.3096	0.05243
BSUW23_RS16265	0.0347	0.3084	0.11249
BSUW23_RS16285	0.0136	0.0748	0.18209
BSUW23_RS16330	0.0414	0.376	0.11014
BSUW23_RS16340	0.0358	0.4014	0.08927
BSUW23_RS16565	0.0484	0.2863	0.16905
BSUW23_RS16640	0.0701	0.1813	0.38695
BSUW23_RS16660	0.01345	0.37305	0.03535
BSUW23_RS16670	0.0212	0.3757	0.05647
BSUW23_RS16680	0.0064	0.075	0.08554
BSUW23_RS16685	0.0391	0.3958	0.09882
BSUW23_RS16720	0.0256	0.1912	0.13406
BSUW23_RS16790	0.0211	0.1608	0.13134
BSUW23_RS16795	0	0.1425	0
BSUW23_RS16815	0.0252333333333333	0.3368	0.07612
BSUW23_RS16850	0.0971	0.3452	0.28119
BSUW23_RS16950	0.0156	0.3395	0.04583
BSUW23_RS16960	0.0226	0.3686	0.0613
BSUW23_RS17040	0.0212	0.2726	0.07782
BSUW23_RS17185	0.0169	0.3769	0.04494
BSUW23_RS17195	0.0439	0.2612	0.1682
BSUW23_RS17220	0.15	0.7163	0.20942
BSUW23_RS17230	0.0791	0.6013	0.13149

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS17235	0.0929	0.3333	0.27873
BSUW23_RS17395	0.0151	0.3996	0.03773
BSUW23_RS17400	0.0181	0.3104	0.05821
BSUW23_RS17405	0.0169	0.3255	0.05185
BSUW23_RS17410	0.0342	0.4914	0.06969
BSUW23_RS17420	0.00955	0.14205	0.088605
BSUW23_RS17425	0.0266	0.2343	0.11347
BSUW23_RS17450	0.0319	0.281	0.11364
BSUW23_RS17525	0.0461	0.9384	0.04915
BSUW23_RS17690	0.01	0.3552	0.02812
BSUW23_RS17720	0.0183	0.3453	0.05303
BSUW23_RS17725	0.0455	0.2904	0.15669
BSUW23_RS17790	0	0.1815	0
BSUW23_RS17795	0.0071	0.2812	0.02523
BSUW23_RS17840	0.0132	0.3136	0.04206
BSUW23_RS17865	0.0312	0.4761	0.06549
BSUW23_RS17950	0.0275	0.29245	0.09516
BSUW23_RS18035	0.024	0.3034	0.07903
BSUW23_RS18065	0.0255	0.1238	0.20588
BSUW23_RS18075	0.0473	0.356	0.133
BSUW23_RS18080	0.0096	0.2372	0.04056
BSUW23_RS18105	0.0351	0.39955	0.087965
BSUW23_RS18130	0.0547	0.3913	0.13976
BSUW23_RS18155	0.0188	0.1927	0.122575
BSUW23_RS18185	0.0167	0.4559	0.03666
BSUW23_RS18195	0.0069	0.2474	0.02784
BSUW23_RS18310	0.0169	0.4054	0.0417
BSUW23_RS18340	0.0137	0.3611	0.03799
BSUW23_RS18390	0.0301	0.3013	0.09992
BSUW23_RS18400	0.0305	0.394	0.07731
BSUW23_RS18435	0.1005	0.2267	0.44349
BSUW23_RS18455	0.022	0.2486	0.08838
BSUW23_RS18490	0.0275	0.2834	0.09699
BSUW23_RS18580	0.0031	0.3271	0.01038
BSUW23_RS18655	0.0199	0.3918	0.05092
BSUW23_RS18705	0.0143	0.2787	0.05118
BSUW23_RS18765	0.0354	0.6669	0.0531
BSUW23_RS18810	0.7194	110.4406	0.00651
BSUW23_RS18835	0.0566	3.1277	0.01809
BSUW23_RS18930	0.5178	41.1163	0.01259
BSUW23_RS18940	0.1013	0.5983	0.16924
BSUW23_RS19025	0.0408	0.2912	0.13997
BSUW23_RS19070	0.0375	0.3168	0.11838
BSUW23_RS19115	0.0288	0.5016	0.05736
BSUW23_RS19235	0.0123	0.4017	0.03059
BSUW23_RS19250	0.0337	0.1543	0.21841
BSUW23_RS19270	0.01	0.5446	0.01838

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
BSUW23_RS19340	0	0.2746	0
BSUW23_RS19350	0	0.1596	0
BSUW23_RS19385	0.0336	0.3548	0.09479
BSUW23_RS19430	0.019	0.3293	0.05754
BSUW23_RS19470	0.0106	0.1162	0.09159
BSUW23_RS19480	0.0038	0.1496	0.02534
BSUW23_RS19500	0.0438	0.3284	0.13347
BSUW23_RS19540	0.0378	0.2081	0.19216
BSUW23_RS19545	0.0366	0.3289	0.11141
BSUW23_RS19550	0.005	0.2422	0.02055
BSUW23_RS19630	0.0254	0.3663	0.06924
BSUW23_RS19690	0.0644	0.3944	0.16336
BSUW23_RS19735	0.0091	0.0496	0.18346
BSUW23_RS19790	0.089	0.3764	0.23641
BSUW23_RS19795	0.06755	0.312	0.22061
BSUW23_RS19860	0.006	0.2196	0.02729
BSUW23_RS19870	0	0.0504	0
BSUW23_RS19895	0.0725	0.3536	0.20504
BSUW23_RS19900	0.0318	0.3832	0.08287
BSUW23_RS19915	0.0384	0.3595	0.10683
BSUW23_RS19920	0.0099	0.2459	0.04006
BSUW23_RS19945	0.0181	0.3264	0.0555
BSUW23_RS20030	0.0433	0.1631	0.26538
BSUW23_RS20040	0.0041	0.2669	0.01554
BSUW23_RS20045	0.0398	0.2471	0.16109
BSUW23_RS20075	0.0268	0.2733	0.09818
BSUW23_RS20125	0.0894	3.4964	0.02555
BSUW23_RS20145	0.0185	0.2746	0.06753
BSUW23_RS20210	0.0279	0.3699	0.07535
BSUW23_RS20215	0.00915	0.31215	0.03009
BSUW23_RS20235	0.0221	0.4257	0.05193
BSUW23_RS20255	0.034	0.6361	0.05352
BSUW23_RS20275	0.0021	0.269	0.00774
BSUW23_RS20315	0.0279	0.3372	0.08275
BSUW23_RS20330	0.0334	0.1477	0.22574
BSUW23_RS20425	0.0107	0.3294	0.03246
BSUW23_RS20440	0.0287	0.4222	0.06791
BSUW23_RS20460	0.0629	0.323	0.19476
BSUW23_RS20525	0.0078	0.8713	0.00893
BSUW23_RS20550	0.0422	0.4037	0.10461
BSUW23_RS20610	0.0135	0.3202	0.04208
BSUW23_RS20625	0.0896	0.359	0.24947
BSUW23_RS20630	0.0308	0.466	0.06616
BSUW23_RS20645	0.04	0.3145	0.12718
BSUW23_RS20650	0.0146	0.6649	0.02193
BSUW23_RS20675	0.0269	0.7612	0.03538
BSUW23_RS20680	0.0224	0.3614	0.06211

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS01240	0.05685	0.40465	0.150125
I33_RS01245	0.04975	0.41375	0.149655
I33_RS01250	0.0739	0.3921	0.18855
I33_RS01260	0.01615	0.2507	0.071305
I33_RS01265	0.0392333333333333	0.695666666666667	0.05315
I33_RS01270	0.0443	0.44925	0.097895
I33_RS01280	0.0956	1.40915	0.100105
I33_RS01285	0.0021	0.3274	0.00639
I33_RS01290	0.1188	0.3782	0.31421
I33_RS01295	0.0706	0.3197	0.22074
I33_RS01330	0.03325	0.38175	0.098395
I33_RS01335	0.0183	0.3427	0.05326
I33_RS01340	0.0358666666666667	0.238033333333333	0.163713333333333
I33_RS01345	0.0351	0.3438	0.10198
I33_RS01355	0.0253	0.2848	0.08876
I33_RS01360	0.0201	0.3725	0.05377
I33_RS01365	0.059	0.254875	0.307445
I33_RS01370	0.0424	0.343	0.1235
I33_RS01380	0.0044	0.2382	0.01839
I33_RS01385	0.0179	0.336	0.05325
I33_RS01400	0.0413	0.2626	0.15736
I33_RS01405	0.037475	0.496725	0.0848975
I33_RS01410	0.02265	0.3309	0.0696
I33_RS01415	0.0378	0.3116	0.12125
I33_RS01425	0.0355	0.361	0.09827
I33_RS01430	0.0217	0.2123	0.10222
I33_RS01435	0.0194	0.2376	0.08165
I33_RS01440	0.0286	0.3071	0.0932
I33_RS01450	0.0231	0.3155	0.07334
I33_RS01460	0.0197	0.3408	0.0578
I33_RS01465	0.0155666666666667	0.295166666666667	0.05359
I33_RS01475	0.0237	0.2779	0.08531
I33_RS01480	0.0102	0.2389	0.04281
I33_RS01485	0.01695	0.3939	0.04385
I33_RS01490	0.0689333333333333	0.486033333333333	0.136576666666667
I33_RS01495	0.1325	0.4094	0.32372
I33_RS01520	0.018	0.3001	0.05989
I33_RS01525	0.0261	0.3108	0.08399
I33_RS01530	0.0254	0.20485	0.14523
I33_RS01545	0.02615	0.4191	0.06048
I33_RS01555	0.0173	0.3578	0.04842
I33_RS01560	0.04015	0.34215	0.129635
I33_RS01570	0.0323	0.2399	0.13456
I33_RS01575	0.0386	0.3148	0.122035
I33_RS01595	0.0512	0.2278	0.22496
I33_RS01600	0.0297	0.4363	0.06797
I33_RS01615	0.082	0.4619	0.17764

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS01620	0.09445	0.3625	0.269935
I33_RS01625	0.0464	0.3037	0.150685
I33_RS01630	0.02925	0.3545	0.07562
I33_RS01635	0.02705	0.36615	0.076685
I33_RS01645	0.0232	0.157	0.14812
I33_RS01650	0.03445	0.25815	0.156505
I33_RS01655	0.0155	0.3067	0.04748
I33_RS01660	0.0196	0.50095	0.045955
I33_RS01665	0.0146	0.26205	0.05552
I33_RS01670	0.0048	0.1817	0.02637
I33_RS01685	0.0193	0.2705	0.07136
I33_RS01695	0.01315	0.33035	0.037275
I33_RS01700	0.0774	0.1997	0.38747
I33_RS01705	0.0127	0.3162	0.04015
I33_RS01710	0.01385	0.26405	0.04915
I33_RS01720	0.0286	0.4961	0.05769
I33_RS01725	0.0179	0.3484	0.05137
I33_RS01750	0.00585	0.285	0.02523
I33_RS01780	0.0397	0.2874	0.13805
I33_RS01790	0.0248	0.3512	0.07055
I33_RS01800	0.0560666666666667	0.438766666666667	0.137583333333333
I33_RS01805	0.044	0.27925	0.155955
I33_RS01810	0.0262	0.3096	0.08466
I33_RS01815	0.0292	0.3293	0.096215
I33_RS01825	0.0093	0.36285	0.0255575
I33_RS01830	0.0220666666666667	0.211366666666667	0.100283333333333
I33_RS01835	0.04064	0.31834	0.121142
I33_RS01840	0.0376666666666667	0.5052	0.0770633333333333
I33_RS01845	0.054	0.3528	0.15313
I33_RS01850	0.0128	0.1769	0.07226
I33_RS01860	0.0137	0.2811	0.04862
I33_RS01870	0.0213	0.4421	0.050205
I33_RS01890	0.0431	0.3221	0.13388
I33_RS01895	0.0834	0.3603	0.23156
I33_RS01900	0.1352	0.3371	0.442133333333333
I33_RS01905	0.0145	0.3931	0.03694
I33_RS01915	0.05125	0.2527	0.23371
I33_RS01920	0.0154	0.3356	0.04584
I33_RS01930	0.0068	0.2744	0.02474
I33_RS01935	0.033625	0.29145	0.115790833333333
I33_RS01940	0.03455	0.36533	0.096045
I33_RS01990	0.0395	0.3646	0.10823
I33_RS01995	0.0186	0.3104	0.06008
I33_RS02000	0.02965	0.43615	0.068305
I33_RS02005	0.0478	0.375	0.12754
I33_RS02010	0.067	0.30625	0.211975
I33_RS02030	0.0242	0.2138	0.11336

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS02035	0.0135333333333333	0.2029	0.0644033333333333
I33_RS02045	0.0183	0.3528	0.059035
I33_RS02050	0.0049	0.3031	0.01612
I33_RS02055	0.0152	0.3052	0.04859
I33_RS02060	0.0778666666666667	0.727	0.12034
I33_RS02065	0.0334	0.2437	0.13702
I33_RS02075	0.0627	0.4989	0.1257
I33_RS02080	0.0446	0.5848	0.0762
I33_RS02100	0.0601	0.60664	0.098932
I33_RS02105	0.0282666666666667	0.4986	0.0655566666666667
I33_RS02110	0.037	0.3362	0.115555
I33_RS02115	0.0116	0.393	0.02961
I33_RS02120	0.0084	0.2758	0.0304
I33_RS02125	0.0206	0.3141	0.06574
I33_RS02130	0.0094	0.198	0.04756
I33_RS02135	0	0.0684	0
I33_RS02140	0.0259	0.3144	0.08236
I33_RS02155	0.00925	0.17145	0.05414
I33_RS02160	0.0189	0.3011	0.06265
I33_RS02165	0.0303	0.4688	0.06031
I33_RS02175	0.0186	0.1718	0.10804
I33_RS02180	0.0228	0.2915	0.07833
I33_RS02185	0.0166666666666667	0.257233333333333	0.0588866666666667
I33_RS02210	0.0082	0.3666	0.02246
I33_RS02220	0.0347	0.5319	0.0677
I33_RS02225	0.0378	0.2723	0.1388
I33_RS02230	0.0158	0.53165	0.02961
I33_RS02235	0.0218	0.2819	0.07736
I33_RS02245	0.005	0.3157	0.01587
I33_RS02250	0.019	0.5185	0.03657
I33_RS02255	0.0290666666666667	0.543433333333333	0.0575566666666667
I33_RS02260	0.0233	0.3702	0.06287
I33_RS02265	0.0634	0.3519	0.1803
I33_RS02270	0.0818	0.5508	0.201515
I33_RS02280	0.0147	0.2543	0.05789
I33_RS02290	0.0381	0.2245	0.1698
I33_RS02295	0.0261333333333333	0.468366666666667	0.0644833333333333
I33_RS02300	0.0386	0.34245	0.12006
I33_RS02305	0.031	0.261533333333333	0.116276666666667
I33_RS02310	0.01015	0.26525	0.037365
I33_RS02315	0.0199	0.3186	0.06231
I33_RS02320	0.0149	0.3734	0.03987
I33_RS02325	0.0615	0.3187	0.19306
I33_RS02350	0.0299	0.3048	0.09809
I33_RS02355	0.03775	0.3914	0.10429
I33_RS02360	0.104066666666667	0.6874	0.160643333333333
I33_RS02365	0.0161	0.2443	0.06601

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS02370	0.00645	0.45895	0.021315
I33_RS02450	0.0276333333333333	0.326333333333333	0.0774
I33_RS02455	0.0644	0.3723	0.17308
I33_RS02460	0.01275	0.3449	0.036375
I33_RS02465	0.1407	0.2637	0.53337
I33_RS02470	0.0311	0.3198	0.098595
I33_RS02480	0.0121	0.3085	0.03935
I33_RS02485	0.01975	0.31125	0.0641
I33_RS02490	0.0081	0.207	0.03912
I33_RS02505	0.0263	0.418366666666667	0.0627866666666667
I33_RS02510	0.0278	0.3941	0.07062
I33_RS02520	0.0097	0.2484	0.036305
I33_RS02525	0.011	0.2612	0.04223
I33_RS02535	0.0296	0.3126	0.09476
I33_RS02540	0.0028	0.1942	0.01467
I33_RS02555	0.0457	0.3125	0.14618
I33_RS02560	0.033	0.2808	0.11764
I33_RS02565	0.0527	0.4021	0.13116
I33_RS02570	0.0219	0.2588	0.08472
I33_RS02575	0.0385	0.3614	0.10653
I33_RS02585	0.0039	0.3207	0.01227
I33_RS02600	0	0	0
I33_RS02605	0	0.0263	0
I33_RS02610	0.00674	0.3381	0.019938
I33_RS02615	0.037	0.4138	0.08929
I33_RS02670	0.0214	0.3223	0.06639
I33_RS02680	0.0224	0.388	0.05785
I33_RS02840	0.03405	0.178	0.183685
I33_RS02860	0.0605	0.3354	0.18044
I33_RS02865	0.0582	0.5349	0.10888
I33_RS02880	0.0972	0.4281	0.2268
I33_RS02885	0.0598	0.6541	0.09135
I33_RS02895	0.0494	0.4266	0.11571
I33_RS02900	0.0441	0.406	0.10854
I33_RS02910	0.0636	0.371733333333333	0.17834
I33_RS02920	0.0351	0.3375	0.10403
I33_RS02935	0.0677	0.5403	0.12537
I33_RS02945	0.091	0.6179	0.14727
I33_RS02950	0.0719	0.6743	0.10666
I33_RS02955	0.0703	0.5612	0.12525
I33_RS02960	0.1431	0.5051	0.28326
I33_RS02975	0.0573	0.5004	0.11446
I33_RS02980	0.0575	0.301	0.19099
I33_RS03015	0.0393	0.302733333333333	0.131213333333333
I33_RS03020	0.0254	0.391	0.06496
I33_RS03025	0.0188	0.4401	0.04268
I33_RS03035	0.0387666666666667	0.438433333333333	0.08499

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS03040	0.0568	0.3748	0.1514
I33_RS03045	0.0342	0.3895	0.08781
I33_RS03055	0.0582	0.2668	0.20812
I33_RS03065	0.0874	0.3985	0.2193
I33_RS03070	0.0498	0.328525	0.149565
I33_RS03080	0.04225	0.424	0.100365
I33_RS03085	0.0356	0.3529	0.10094
I33_RS03090	0.0083	0.302	0.0276
I33_RS03095	0.07295	0.25865	0.28554
I33_RS03100	0.0482	0.3293	0.14632
I33_RS03120	0.0143	0.2221	0.085205
I33_RS03145	0.0203	0.2881	0.07052
I33_RS03150	0.07345	1.48735	0.049105
I33_RS03155	0.0529	0.3891	0.13604
I33_RS03160	0.0199	0.2668	0.07442
I33_RS03165	0.0252	0.512	0.04914
I33_RS03170	0.0903	0.3818	0.287005
I33_RS03175	0.06425	0.38425	0.16604
I33_RS03215	0.0192	0.32035	0.059955
I33_RS03225	0.05225	0.322	0.17191
I33_RS03235	0.0516	0.369	0.13988
I33_RS04795	0.0359	0.3458	0.10376
I33_RS04800	0.0264	0.2081	0.12692
I33_RS04805	0.0888	0.29	0.30609
I33_RS04810	0.01295	0.50185	0.028115
I33_RS04835	0.0585	0.3223	0.18141
I33_RS04840	0.0066	0.2793	0.02354
I33_RS04845	0.0254	0.3176	0.07982
I33_RS04855	0.0291	0.2803	0.10391
I33_RS04860	0.0281	0.4396	0.06381
I33_RS04865	0.0201	0.3283	0.06134
I33_RS04870	0.0770666666666667	0.321833333333333	0.209596666666667
I33_RS04875	0.05775	0.3592	0.17979
I33_RS04880	0.0071	0.1709	0.04177
I33_RS04885	0.04255	0.2696	0.166515
I33_RS04890	0.0105	0.3966	0.0264
I33_RS04895	0.0412714285714286	0.313557142857143	0.129181428571429
I33_RS04905	0.0035	0.2966	0.01183
I33_RS04920	0.0023	0.2728	0.00849
I33_RS04925	0.0152	0.34405	0.043485
I33_RS04930	0.0144	0.266	0.05405
I33_RS04935	0.0026	0.4081	0.00644
I33_RS04940	0.03775	0.1827	0.205835
I33_RS04945	0.0412333333333333	0.5168	0.0759366666666667
I33_RS04950	0.0439	0.2839	0.15454
I33_RS04955	0.0489333333333333	0.330633333333333	0.12907
I33_RS04960	0.03135	0.29465	0.09436

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS04965	0.0242	0.307	0.07867
I33_RS04970	0.0555	0.7843	0.07074
I33_RS04975	0.135	0.2732	0.494
I33_RS04980	0.0695	5.9191	0.01174
I33_RS04985	0.0649	4.3562	0.01489
I33_RS04995	0.05265	0.36115	0.153515
I33_RS05000	0.0483	0.4436	0.10892
I33_RS05005	0.0622	0.3915	0.184475
I33_RS05010	0.0288	0.0837	0.34428
I33_RS05015	0.0164	0.4746	0.03461
I33_RS05020	0.0035	0.3328	0.01059
I33_RS05030	0.00925	0.28485	0.032335
I33_RS05035	0.00965	0.51065	0.02091
I33_RS05040	0.0063	0.2974	0.02105
I33_RS05045	0.0107	0.2947	0.03618
I33_RS05060	0.0266	0.3356	0.07933
I33_RS05070	0.1112	0.5487	0.20265
I33_RS05075	0.02532	0.35028	0.089784
I33_RS05080	0.0298	0.2991	0.09968
I33_RS05085	0.048075	0.2712	0.18792
I33_RS05090	0.02205	0.30005	0.07468
I33_RS05110	0.0182	0.2742	0.06622
I33_RS05115	0.0156	0.458	0.034
I33_RS05120	0.031	0.25365	0.10554
I33_RS05130	0.0292333333333333	0.435733333333333	0.0725066666666667
I33_RS05135	0.0194	0.3371	0.0577
I33_RS05145	0.0107	0.3064	0.03501
I33_RS05150	0.07685	0.39205	0.1816775
I33_RS05155	0.0836	0.2785	0.30001
I33_RS05160	0.0321	0.3847	0.08338
I33_RS05165	0.0054	0.2119	0.02539
I33_RS05170	0.0117	0.1995	0.0484433333333333
I33_RS05175	0.0378	0.3348	0.11278
I33_RS05180	0.0123	0.13755	0.086425
I33_RS05185	0.0049	0.2851	0.01709
I33_RS05190	0.0034	0.061	0.05637
I33_RS05200	0.01325	0.2466	0.05306
I33_RS05205	0.0656333333333333	0.257333333333333	0.253356666666667
I33_RS05220	0.025	0.3178	0.0787
I33_RS05230	0.0471	0.3946	0.1194
I33_RS05235	0.0438	0.469	0.09337
I33_RS05240	0.0574	0.3004	0.19104
I33_RS05245	0.0417	0.30365	0.1707
I33_RS05250	0.0214	0.32025	0.06662
I33_RS05265	0.1298	0.3869	0.30413
I33_RS05280	0.0329	0.3115	0.10564
I33_RS05290	0.0353	0.4544	0.07764

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS05295	0.0153	0.3474	0.04417
I33_RS05305	0.0415	0.3252	0.12768
I33_RS05310	0.0218	0.2019	0.08596
I33_RS05325	0.0347	0.2712	0.18523
I33_RS05330	0.0128	0.3037	0.042
I33_RS05335	0.0056	0.3357	0.022315
I33_RS05340	0.0457	0.3017	0.20015
I33_RS05350	0.0525	0.2261	0.292825
I33_RS05355	0.0189	0.3436	0.0604166666666667
I33_RS05360	0.04	0.2899	0.13796
I33_RS05365	0.03605	0.22305	0.157075
I33_RS05370	0.0722	0.31165	0.231745
I33_RS05375	0.0648	0.5117	0.1266
I33_RS05380	0.032575	0.6764	0.0649525
I33_RS05385	0.0141	0.2091	0.06762
I33_RS05390	0.0183	0.0955	0.1916
I33_RS05395	0.0046	0.1654	0.02759
I33_RS05400	0.03175	0.19435	0.17279
I33_RS05405	0.0204	0.244	0.08375
I33_RS05410	0.0265	0.4225	0.06282
I33_RS05420	0.0037	0.2803	0.01302
I33_RS05425	0	0.2686	0
I33_RS05430	0.02945	0.3934	0.074725
I33_RS05435	0.0346333333333333	0.3835	0.08686
I33_RS05445	0.037	0.3031	0.12198
I33_RS05450	0.0273	0.2599	0.10518
I33_RS05455	0.0232	0.4067	0.05696
I33_RS05465	0.0213	0.2881	0.07397
I33_RS05470	0.0147	0.315	0.04675
I33_RS05475	0.0126	0.5751	0.02195
I33_RS05480	0.0166666666666667	0.3014	0.05841
I33_RS05485	0.0056	0.3001	0.01856
I33_RS05490	0.0702	0.6145	0.0998633333333333
I33_RS05495	0.0452666666666667	0.408433333333333	0.124913333333333
I33_RS05500	0.0788	0.3793	0.20783
I33_RS05510	0.0368	0.5205	0.07078
I33_RS05515	0.0091	0.2324	0.03919
I33_RS05525	0.0178	0.2132	0.08354
I33_RS05540	0.0344	0.37735	0.08952
I33_RS05545	0.0362	0.2798	0.12925
I33_RS05550	0.0222333333333333	0.282433333333333	0.0888866666666667
I33_RS05555	0.0267	0.36445	0.080055
I33_RS05560	0.0297	0.3535	0.085805
I33_RS05570	0.06	0.31535	0.17046
I33_RS05575	0.0247	0.2781	0.08873
I33_RS05580	0.019	0.3496	0.05422
I33_RS05585	0.0596	0.3612	0.167663333333333

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS05590	0.0885	0.3637	0.2434
I33_RS05595	0.0162	0.298	0.0545
I33_RS05610	0.0194	0.25855	0.103845
I33_RS05615	0.0303	0.2728	0.1154175
I33_RS05620	0.04075	0.38195	0.09671
I33_RS05625	0.062875	0.322875	0.2269225
I33_RS05630	0.0315	0.3628	0.08684
I33_RS05635	0.0035	0.2334	0.01489
I33_RS05640	0.0262	0.3243	0.08073
I33_RS05660	0.0374	0.2122	0.17615
I33_RS05670	0.026	0.2394	0.10868
I33_RS05675	0.0224	0.1913	0.1171
I33_RS05680	0.082	0.2284	0.3589
I33_RS05685	0.0617714285714286	0.316457142857143	0.212568571428571
I33_RS05700	0.0152	0.2504	0.06052
I33_RS05710	0.0115	0.2882	0.03985
I33_RS05715	0.0193	0.3504	0.05505
I33_RS05720	0.0328	0.3638	0.09005
I33_RS05730	0.0217	0.3088	0.07026
I33_RS05735	0.0462	0.3812	0.12131
I33_RS05740	0.1003	0.2953	0.33943
I33_RS05745	0.03605	0.25575	0.14373
I33_RS05750	0.0283	0.2865	0.12179
I33_RS05755	0.0533	0.542333333333333	0.141646666666667
I33_RS05760	0.0205	0.5504	0.069295
I33_RS05765	0.0496	0.2057	0.24094
I33_RS05775	0.0139	0.2581	0.05367
I33_RS05780	0.0182	0.0963	0.18947
I33_RS05785	0.0343	0.2937	0.1167
I33_RS05800	0.02565	0.3788	0.062775
I33_RS05820	0.0092	0.2837	0.03237
I33_RS05830	0.0098	0.1708	0.0573
I33_RS05840	0.0325	0.4311	0.07536
I33_RS05845	0.0364	0.4753	0.07657
I33_RS05855	0.0713	0.45145	0.15802
I33_RS05860	0.0483	0.3086	0.15654
I33_RS05865	0.03065	0.4722	0.06647
I33_RS05870	0.0389	0.3072	0.1388625
I33_RS05880	0.03495	0.32535	0.110925
I33_RS05885	0.06555	0.3325	0.189385
I33_RS05890	0.0438166666666667	0.365483333333333	0.115636666666667
I33_RS05895	0.0537	0.3609	0.15435
I33_RS05900	0.1185	0.5915	0.20037
I33_RS05905	0.0591	0.6076	0.09731
I33_RS05920	0.0183	0.3863	0.04748
I33_RS05935	0.0214	0.3413	0.06261
I33_RS05955	0.0731	3.3439	0.02186

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS05960	0.0283	0.1152	0.24568
I33_RS05965	0.02705	0.4183	0.051625
I33_RS05970	0.02515	0.17885	0.13563
I33_RS05975	0.0154	0.4298	0.03577
I33_RS05980	0.0279	0.3075	0.09056
I33_RS05985	0.02935	0.27805	0.10179
I33_RS05990	0.029	0.2503	0.11571
I33_RS05995	0.0275	0.2733	0.10044
I33_RS06000	0.022	0.4137	0.05306
I33_RS06005	0.02405	0.3915	0.06139
I33_RS06010	0.01555	0.2516	0.061625
I33_RS06015	0.0222	0.4622	0.04808
I33_RS06035	0.0277	0.2738	0.10125
I33_RS06040	0.02105	0.17105	0.3122
I33_RS06050	0.0087	0.3056	0.02841
I33_RS06055	0.0485	0.29255	0.15759
I33_RS06060	0.0045	0.2883	0.01553
I33_RS06070	0.0069	0.2548	0.02717
I33_RS06080	0.0497	0.2611	0.19037
I33_RS06085	0.0042	0.2256	0.01874
I33_RS06090	0.0128	0.2914	0.04389
I33_RS06100	0.0409	2.79585	0.01986
I33_RS06105	0.0032	0.4087	0.00788
I33_RS06110	0.0105	0.3058	0.03443
I33_RS06120	0.0097	0.3711	0.02615
I33_RS06130	0.0246	1.1394	0.0387766666666667
I33_RS06135	0.0533	2.5231	0.02114
I33_RS06140	0.0112	0.2538	0.04395
I33_RS06155	0.0105	0.3222	0.03259
I33_RS06165	0.0075	0.3303	0.02262
I33_RS06180	0.0619	0.2784	0.22244
I33_RS06190	0.00873333333333333	0.176366666666667	0.0493033333333333
I33_RS06195	0.0081	0.0467	0.17379
I33_RS06205	0.0619	0.3633	0.17036
I33_RS06210	0.0474	0.3147	0.15052
I33_RS06215	0.0068	0.277	0.02456
I33_RS06225	0.0076	0.3405	0.02241
I33_RS06235	0.054	0.1898	0.2847
I33_RS06245	0.0363	0.2226	0.232215
I33_RS06265	0.0111	0.3474	0.03208
I33_RS06280	0.0178	0.4309	0.04138
I33_RS06290	0.033	0.2873	0.11489
I33_RS06295	0.014	0.2148	0.06532
I33_RS06315	0.0234	0.3306	0.07071
I33_RS06320	0.037175	0.310525	0.1648925
I33_RS06325	0.0147	0.35275	0.03845
I33_RS06330	0.0481	0.6507	0.07396

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS06335	0.0778	0.7323	0.10619
I33_RS06340	0.0239	0.6292	0.03799
I33_RS06350	0.0284	0.4355	0.06513
I33_RS06365	0.0211	0.2292	0.091825
I33_RS06370	0.0154	0.3273	0.04706
I33_RS06375	0.0142	0.3311	0.04409
I33_RS06470	0.0837	0.3382	0.24754
I33_RS06475	0.0631	0.3087	0.198485
I33_RS06480	0.0398	0.3771	0.10541
I33_RS06485	0.0287	0.4886	0.05864
I33_RS06490	0.0175	0.3598	0.0486
I33_RS06495	0.04	0.2142	0.18671
I33_RS06500	0.0725666666666667	0.4657	0.198546666666667
I33_RS06505	0.0737666666666667	0.435966666666667	0.17415
I33_RS06510	0.0164	0.339	0.04851
I33_RS06515	0.0218	0.368	0.05935
I33_RS06520	0.175533333333333	2.45993333333333	0.276643333333333
I33_RS06525	0.04785	0.6888	0.07338
I33_RS06535	0.040075	0.40595	0.1187875
I33_RS06540	0.02805	0.30595	0.09102
I33_RS06550	0.0347	0.513	0.06757
I33_RS06555	0.0260666666666667	0.272	0.10182
I33_RS06565	0.053	0.4223	0.12552
I33_RS06570	0.0321	0.2875	0.11157
I33_RS06575	0.0871	0.3204	0.27178
I33_RS06590	0.0035	0.175	0.02002
I33_RS06600	0.0384	0.4002	0.09595
I33_RS06610	0.0077	0.324	0.02367
I33_RS06615	0.0122	0.2636	0.04618
I33_RS06625	0.03605	0.296	0.12093
I33_RS06635	0.0293	0.297966666666667	0.129426666666667
I33_RS06640	0.0101	0.3145	0.03223
I33_RS06650	0.0256	0.3741	0.06841
I33_RS06660	0.019	0.4523	0.04196
I33_RS06665	0.0259	0.6599	0.039695
I33_RS06670	0.0843	0.2559	0.32955
I33_RS06680	0.019625	0.233	0.0931175
I33_RS06685	0.0024	0.151	0.01605
I33_RS06690	0.0246	0.1973	0.12472
I33_RS06700	0.0379	0.4404	0.08608
I33_RS06705	0.026	0.5843	0.04443
I33_RS06710	0.0773	0.5621	0.1375
I33_RS06715	0.0178	0.6984	0.02549
I33_RS06720	0.0207	0.418866666666667	0.05485
I33_RS06725	0.048	0.326	0.14715
I33_RS06735	0.03325	0.42875	0.079575
I33_RS06745	0.0322	0.2901	0.11098

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS06750	0.0363	0.4613	0.07873
I33_RS06760	0.0154	0.2967	0.05177
I33_RS06765	0.0223	0.3894	0.05738
I33_RS06770	0.0154	0.366	0.04196
I33_RS06775	0.0213	0.1654	0.12874
I33_RS06780	0.02425	0.2777	0.068415
I33_RS06785	0.02285	0.2305	0.1187875
I33_RS06790	0.0092	0.6666	0.01381
I33_RS06815	0.08335	1.882	0.03938
I33_RS06820	0.0283	0.35415	0.098445
I33_RS06825	0.0161	0.3649	0.04438
I33_RS06830	0.04735	0.56705	0.08783
I33_RS06835	0.284	5.1227	0.05544
I33_RS06840	0.581833333333333	81.2946	0.04828
I33_RS06845	0.06055	0.48755	0.14032
I33_RS06850	0.040275	0.32845	0.1463075
I33_RS06855	0.0324	0.4602	0.10014
I33_RS06860	0.0193	0.2226	0.08668
I33_RS06865	0.01095	0.28975	0.03407
I33_RS06890	0.0198	0.4422	0.04481
I33_RS06910	0.0205	0.2359	0.08689
I33_RS06915	0.0147	0.4083	0.03605
I33_RS06920	0.0179	0.5028	0.03554
I33_RS06925	0.0543	0.293	0.18549
I33_RS06930	0.0641	0.4667	0.13734
I33_RS06940	0.0123	0.23705	0.05211
I33_RS06945	0.0419	0.38045	0.111335
I33_RS06950	0.0266	0.4296	0.06186
I33_RS06960	0.0506666666666667	0.343366666666667	0.143383333333333
I33_RS06965	0.05795	0.356	0.152865
I33_RS06970	0.0487	0.4141	0.11755
I33_RS06980	0.0197	0.3106	0.06332
I33_RS06990	0.0054	0.2824	0.01902
I33_RS07000	0.0371666666666667	0.323733333333333	0.11398
I33_RS07015	0.0594	0.2608	0.22778
I33_RS07020	0.0267	0.323733333333333	0.0864266666666667
I33_RS07025	0.0042	0.2826	0.01473
I33_RS07030	0.0111	0.3992	0.02774
I33_RS07035	0.036	0.217	0.21706
I33_RS07040	0.0278	0.3763	0.07435
I33_RS07045	0.035475	0.28425	0.1134075
I33_RS07050	0.0107	0.3336	0.03195
I33_RS07055	0.0128	0.2829	0.0457633333333333
I33_RS07060	0.0065	0.2741	0.02373
I33_RS07065	0.07785	0.4459	0.171215
I33_RS07070	0.0649	0.4887	0.1328
I33_RS07075	0.02415	0.3411	0.068545

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS07085	0.0664	0.5527	0.12022
I33_RS07095	0.0645	0.39025	0.18074
I33_RS07105	0.0136666666666667	0.305633333333333	0.03489
I33_RS07115	0.0556	0.6978	0.07971
I33_RS07120	0.0309	0.3424	0.0901
I33_RS07125	0.0198	0.3722	0.0531
I33_RS07130	0.0139	0.3786	0.0368
I33_RS07135	0.0512333333333333	0.399566666666667	0.128003333333333
I33_RS07145	0.015	0.4278	0.03495
I33_RS07170	0.02135	0.2964	0.076575
I33_RS07180	0.0114	0.2597	0.04391
I33_RS07185	0.0035	0.187	0.01847
I33_RS07190	0.0492	0.177666666666667	0.259903333333333
I33_RS07210	0.0124	0.298	0.04173
I33_RS07230	0.0189	0.2694	0.07008
I33_RS07240	0.0308	0.2716	0.11341
I33_RS07255	0.0238	0.4163	0.05723
I33_RS07260	0.0117	0.2233	0.04903
I33_RS07265	0.0221	0.370966666666667	0.0615433333333333
I33_RS07270	0.0535	0.3592	0.14891
I33_RS07275	0.023225	0.30365	0.059845
I33_RS07285	0.0151	0.2137	0.07044
I33_RS07290	0.0065	0.1384	0.04731
I33_RS07295	0.0088	0.2558	0.03433
I33_RS07300	0.0218	0.3153	0.0692
I33_RS07310	0.0333	0.4127	0.08079
I33_RS07320	0.0084	0.3223	0.02566
I33_RS07325	0.0098	0.3037	0.03229
I33_RS07330	0.0001	0.7566	0.0001
I33_RS07345	0.03435	0.2018	0.171745
I33_RS07350	0.0288	0.220166666666667	0.267106666666667
I33_RS07355	0.0101	0.3031	0.03324
I33_RS07370	0.03005	0.22035	0.13489
I33_RS07375	0.0159	0.3559	0.04455
I33_RS07380	0.0441	0.2602	0.16939
I33_RS07385	0.003	0.2493	0.01188
I33_RS07415	0.0008	0.1315	0.00619
I33_RS07420	0.0056	0.4771	0.01174
I33_RS07425	0.0118	0.2693	0.04387
I33_RS07430	0.0853	0.3758	0.22696
I33_RS07440	0.0248	0.2992	0.08291
I33_RS07450	0.0161	0.3228	0.04995
I33_RS07465	0.028	0.3834	0.07307
I33_RS07470	0.06515	1.234975	0.0533275
I33_RS07480	0.0077	0.2217	0.03454
I33_RS07485	0.0143	0.3187	0.04473
I33_RS07500	0.0106	0.265	0.0399

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS07505	0.0086	0.1896	0.041015
I33_RS07510	0.061025	0.749825	0.08532
I33_RS07515	0.0438	0.3469	0.12623
I33_RS07540	0.0065	0.3919	0.0166
I33_RS07545	0.00256666666666667	0.0911333333333333	0.01645
I33_RS07555	0.0091	0.285	0.03189
I33_RS07560	0.04415	0.3101	0.15263
I33_RS07565	0.0289	0.27375	0.08779
I33_RS07570	0.0138	0.3171	0.04354
I33_RS07575	0.01525	0.3542	0.04274
I33_RS07580	0.0075	0.3169	0.0238
I33_RS07585	0.0142	0.2108	0.03553
I33_RS07590	0.0189	0.25385	0.057555
I33_RS07595	0.0351	0.1255	0.27992
I33_RS07600	0.055	0.32745	0.17585
I33_RS07605	0.0342	0.26085	0.13703
I33_RS07610	0.018	0.2314	0.07766
I33_RS07615	0.0291	0.3022	0.09617
I33_RS07620	0.0232	0.2625	0.08849
I33_RS07635	0.02765	0.293	0.094775
I33_RS07640	0.0477	0.3827	0.12459
I33_RS07645	0.0178	0.2652	0.06709
I33_RS07650	0.01395	0.22495	0.03874
I33_RS07655	0.0143	0.2024	0.07079
I33_RS07660	0.00366666666666667	0.232366666666667	0.01606
I33_RS07670	0.0204	0.4161	0.049
I33_RS07675	0.0069	0.2056	0.03349
I33_RS07680	0.0052	0.309	0.01692
I33_RS07695	0.0144	0.3478	0.0414
I33_RS07700	0.006	0.2647	0.02341
I33_RS07710	0.0154	0.247	0.06224
I33_RS07720	0.0497	0.486	0.1023
I33_RS07730	0.01675	0.36015	0.04081
I33_RS07735	0.06255	0.34165	0.18506
I33_RS07740	0.0213	0.6325	0.03368
I33_RS07750	0.006	0.1971	0.05893
I33_RS07755	0.0152	0.5002	0.03036
I33_RS07760	0.0081	0.29505	0.02634
I33_RS07775	0.00226666666666667	0.140166666666667	0.0193833333333333
I33_RS07780	0.0029	0.1904	0.0152
I33_RS07790	0.013	0.4114	0.0317
I33_RS07795	0.01328	0.3087	0.042918
I33_RS07800	0.0325	0.25255	0.11721
I33_RS07810	0.0481	0.4648	0.10497
I33_RS07820	0.0143	0.2855	0.04993
I33_RS07825	0	0.1909	0
I33_RS07830	0.0766	0.3403	0.22506

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS07835	0.0559	0.3623	0.15428
I33_RS07840	0.106	0.8823	0.12015
I33_RS07845	0.3415	0.5936	0.57534
I33_RS07850	0.1208	0.2213	0.54598
I33_RS07855	0.09645	0.24535	0.39455
I33_RS07860	0.0435	0.4612	0.09423
I33_RS07865	0.003	0.2356	0.01274
I33_RS07870	0.0101	0.1306	0.07752
I33_RS07875	0.0229333333333333	0.2601	0.09846
I33_RS07885	0.0032	0.273	0.01168
I33_RS07890	0.0545	0.2416	0.22548
I33_RS07895	0.0113	0.2739	0.04143
I33_RS07900	0.0088	0.215	0.04559
I33_RS07905	0.01435	0.3777	0.04444
I33_RS07915	0.0106	0.3288	0.03227
I33_RS07925	0.01195	0.25625	0.0475
I33_RS07930	0.0031	0.1568	0.01962
I33_RS07935	0.0142	0.2314	0.06118
I33_RS07940	0.0089	0.2732	0.03262
I33_RS07945	0.0141	0.26035	0.053065
I33_RS07950	0.01715	0.3037	0.056435
I33_RS07955	0.0168	0.31605	0.047665
I33_RS07960	0.0156	0.2171	0.07166
I33_RS07965	0.0107	0.20655	0.046505
I33_RS07970	0.0156	0.1797	0.08661
I33_RS07975	0.0157	0.28265	0.053265
I33_RS07985	0.0194	0.2814	0.06909
I33_RS07990	0.00835	0.22255	0.03749
I33_RS07995	0.03148	0.24446	0.121164
I33_RS08010	0	0.167	0
I33_RS08015	0.0132	0.1323	0.1139
I33_RS08020	0.03105	1.357975	0.0417225
I33_RS08025	0.0975	10.5519	0.00924
I33_RS08030	0.0413	0.3818	0.10821
I33_RS08035	0.0043	0.3422	0.01249
I33_RS08055	0.0134	0.3012	0.04436
I33_RS08060	0.0111	0.2037	0.05171
I33_RS08065	0.0013	0.2242	0.00587
I33_RS08075	0.0143	0.2056	0.06952
I33_RS08080	0.0032	0.2036	0.01569
I33_RS08085	0.0081	0.3142	0.02583
I33_RS08090	0.0307	0.3103	0.09879
I33_RS08095	0.0051	0.1169	0.042795
I33_RS08105	0.0423666666666667	0.261866666666667	0.15207
I33_RS08110	0.04055	0.46195	0.14074
I33_RS08115	0.0518	0.374	0.13857
I33_RS08125	0.026	0.208	0.12523

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS08130	0	0.3845	0
I33_RS08135	0.0038	0.126	0.03028
I33_RS08140	0.0405	0.485466666666667	0.0800166666666667
I33_RS08145	0.0259	0.46265	0.055055
I33_RS08150	0.02355	0.2833	0.06898
I33_RS08155	0.0336	0.1812	0.18539
I33_RS08160	0.0275	0.1208	0.22769
I33_RS08165	0.0159	0.211333333333333	0.0764366666666667
I33_RS08170	0.00425	0.30235	0.01656
I33_RS08185	0.01375	0.254	0.052675
I33_RS08195	0.0152	0.5214	0.02915
I33_RS08200	0.01315	0.3133	0.0445375
I33_RS08210	0.0202	0.3642	0.05558
I33_RS08215	0.012	0.4039	0.0296
I33_RS08225	0.0072	0.3532	0.0204
I33_RS08230	0.0256	0.2145	0.11943
I33_RS08235	0.0229	0.4116	0.05561
I33_RS08240	0.0334	0.32995	0.10746
I33_RS08245	0.0177	0.3256	0.05428
I33_RS08260	0.0039	0.2442	0.016
I33_RS08265	0.0146666666666667	0.2576	0.0557533333333333
I33_RS08270	0.0072	0.3446	0.02098
I33_RS08275	0.0203	0.4379	0.04633
I33_RS08280	0.0409	0.2787	0.1544325
I33_RS08290	0.0147	0.4485	0.03276
I33_RS08300	0.0079	0.3335	0.0238
I33_RS08315	0.01725	0.269375	0.05667375
I33_RS08320	0.0132	0.3081	0.04297
I33_RS08335	0.0288	0.37135	0.08436
I33_RS08360	0.0155	0.2559	0.06066
I33_RS08365	0.0259	0.1777	0.14567
I33_RS08375	0.0188	0.3017	0.06222
I33_RS08380	0.01115	0.26505	0.04408
I33_RS08390	0.0124	0.11145	0.05554
I33_RS08395	0.015	0.2322	0.071605
I33_RS08400	0.0259	0.3861	0.06719
I33_RS08405	0.0064	0.26125	0.024555
I33_RS08410	0.01015	0.33495	0.031285
I33_RS08415	0.0026	0.1869	0.01367
I33_RS08420	0.007	0.1883	0.03696
I33_RS08425	0.0222	0.2669	0.08316
I33_RS08430	0.0095	0.3565	0.02654
I33_RS08435	0.0038	0.1159	0.03275
I33_RS08450	0.01205	0.36335	0.034315
I33_RS08455	0.0084	0.3264	0.02583
I33_RS08465	0.02125	0.33215	0.062415
I33_RS08470	0.0041	0.0364	0.11253

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS08480	0.00676666666666667	0.0825666666666667	0.344616666666667
I33_RS08485	0.0183	0.1409	0.13009
I33_RS08490	0.022	0.2531	0.0871
I33_RS08495	0.01	0.2655	0.03761
I33_RS08505	0.0048	0.1624	0.016015
I33_RS08510	0.0318	0.2199	0.14451
I33_RS08515	0.0534	0.3149	0.16949
I33_RS08520	0.1949	0.4299	0.45338
I33_RS08525	0.05275	0.2446	0.224925
I33_RS08530	0.0156	0.2515	0.06194
I33_RS08535	0.0075	0.1816	0.04115
I33_RS08540	0.0016	0.1781	0.00881
I33_RS08545	0.0409	0.23945	0.173215
I33_RS08550	0.0075	0.4034	0.01854
I33_RS08560	0.0062	0.3769	0.01645
I33_RS08565	0.0058	0.1665	0.041905
I33_RS08580	0	0.2697	0
I33_RS08585	0.01445	0.1502	0.130645
I33_RS08590	0.0124	0.2254	0.05485
I33_RS08600	0.0138	0.2817	0.0489
I33_RS08610	0.035	0.3442	0.10161
I33_RS08620	0.0117	0.3496	0.0334
I33_RS08625	0.035525	0.2426	0.1594775
I33_RS08630	0.0657	0.261166666666667	0.233486666666667
I33_RS08635	0.026025	0.334975	0.0844025
I33_RS08640	0.008075	0.20705	0.04410875
I33_RS08650	0.02165	0.366	0.057895
I33_RS08665	0.0177	0.26685	0.065975
I33_RS08680	0.0125	0.3027	0.04114
I33_RS08685	0.0204	0.24755	0.08307
I33_RS08695	0.0106666666666667	0.1797	0.06357
I33_RS08700	0.00415	0.1593	0.023865
I33_RS08705	0.0506666666666667	0.116366666666667	0.30358
I33_RS08715	0.0088	0.1893	0.0464
I33_RS08720	0	0.1309	0
I33_RS08725	0.0119	0.2404	0.04965
I33_RS08730	0.0127	0.1869	0.067775
I33_RS08735	0.0098	0.1731	0.0567
I33_RS08740	0.02415	0.33715	0.066155
I33_RS08745	0.0122	0.2703	0.04525
I33_RS08755	0.0181	0.2692	0.06726
I33_RS08760	0.0063	0.3082	0.02047
I33_RS08770	0.0029	0.0824	0.0352
I33_RS08775	0.0049	0.101466666666667	0.0621133333333333
I33_RS08780	0.0145	0.1107	0.13109
I33_RS08795	0.00945	0.0928	0.10454
I33_RS08800	0.0222	0.3233	0.06862

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS08805	0.0207	0.3302	0.06259
I33_RS08815	0.0092	0.2405	0.03843
I33_RS08820	0.01855	0.23495	0.07817
I33_RS08825	0.0108	0.276	0.03902
I33_RS08835	0.0091	0.2746	0.03301
I33_RS08840	0.0092	0.1713	0.05351
I33_RS08845	0.00785	0.28265	0.0284
I33_RS08860	0.016725	0.3518	0.0470225
I33_RS08865	0.0037	0.2635	0.01395
I33_RS08870	0.0088	0.3014	0.02918
I33_RS08875	0	0.254	0
I33_RS08885	0.0335	0.3663	0.09143
I33_RS08895	0.0079	0.2657	0.0298
I33_RS08900	0.0328	0.4052	0.08104
I33_RS08905	0.0135666666666667	0.169066666666667	0.1109
I33_RS08915	0.0145	0.279	0.05212
I33_RS08920	0.0053	0.1504	0.03492
I33_RS08925	0.0427	0.3153	0.13546
I33_RS08935	0.0122461538461538	0.247753846153846	0.0450553846153846
I33_RS09120	0.039	0.3683	0.10582
I33_RS09125	0.0228	0.257	0.08891
I33_RS09130	0.0297	0.2666	0.11136
I33_RS09145	0.0224	0.3148	0.07101
I33_RS09150	0.0897	0.2446	0.36685
I33_RS09155	0.017	0.478	0.03562
I33_RS09165	0.0465	0.2342	0.19874
I33_RS09170	0.017	0.0684	0.248
I33_RS09175	0.0057	0.4849	0.01185
I33_RS09180	0.0224	0.3798	0.05909
I33_RS09185	0.0929	0.3128	0.2969
I33_RS09190	0.00535	0.3157	0.017365
I33_RS09200	0.0068	0.0853	0.08001
I33_RS09280	0.03725	0.2545	0.171745
I33_RS09290	0.0346	0.2916	0.11858
I33_RS09300	0.0178	0.3491	0.05088
I33_RS09305	0.0585	0.3368	0.17371
I33_RS09310	0.0204	0.4469	0.0457
I33_RS09345	0.0302	0.495	0.064375
I33_RS09350	0.0583	0.4264	0.1368
I33_RS09355	0.1562	0.2469	0.63246
I33_RS09380	0.0531	0.4371	0.12157
I33_RS09405	0.0545	0.31335	0.194785
I33_RS09410	0.1084	0.3229	0.33576
I33_RS09420	0.0621	0.3407	0.18221
I33_RS09440	0.0582	0.3251	0.17907
I33_RS09450	0.0415	0.34095	0.131065
I33_RS09455	0.02026	0.32354	0.06587

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS09465	0.00976666666666667	0.362266666666667	0.03028
I33_RS09470	0.0064	0.137766666666667	0.05458
I33_RS09475	0.0115	0.2199	0.05209
I33_RS09480	0.02625	0.296125	0.0875525
I33_RS09485	0.0042	0.54955	0.00929
I33_RS09500	0.0426	0.3105	0.1371
I33_RS09505	0.0238	0.526133333333333	0.0564566666666667
I33_RS09510	0.0168	0.3565	0.05077
I33_RS09535	0.008	0.3367	0.02374
I33_RS09560	0.0754	0.2963	0.27923
I33_RS09570	0.0308	1.5625	0.04123
I33_RS09575	0.0273375	0.45019375	0.0729875
I33_RS09580	0.0322	0.3648	0.0925575
I33_RS09655	0.0685	0.3032	0.22595
I33_RS09660	0.0653	0.4234	0.15421
I33_RS09665	0.0531	0.3525	0.15056
I33_RS09680	0.0204	0.4311	0.04722
I33_RS09685	0.0076	0.3002	0.02529
I33_RS09690	0.0388	0.1404	0.27639
I33_RS09695	0.011	0.367	0.02996
I33_RS09700	0.0928	0.3919	0.2367
I33_RS09710	0.00835	0.2608	0.05488
I33_RS09720	0.0171	0.3292	0.05206
I33_RS09735	0.0081	0.2097	0.03885
I33_RS09750	0.02755	0.27295	0.09925
I33_RS09755	0.0715	0.40125	0.23297
I33_RS09760	0.1132	0.5119	0.22118
I33_RS09770	0.0131	0.3196	0.04101
I33_RS10055	0.0933	0.7687	0.12135
I33_RS10060	0.04825	0.413025	0.124495
I33_RS10095	0.0563	0.6491	0.08667
I33_RS10105	0.0428	0.385	0.11117
I33_RS10110	0.1095	0.4242	0.25811
I33_RS10115	0.0927666666666667	0.494966666666667	0.187903333333333
I33_RS10120	0.05375	0.4353	0.1396175
I33_RS10125	0.026	0.3992	0.098845
I33_RS10130	0.0122333333333333	0.231433333333333	0.0923433333333333
I33_RS10135	0.0634666666666667	0.329333333333333	0.230256666666667
I33_RS10140	0.0363666666666667	0.3749	0.100163333333333
I33_RS10145	0.0219	0.3634	0.05991
I33_RS10150	0.0303	0.19595	0.16631
I33_RS10155	0.0237	0.2885	0.08208
I33_RS10165	0.0105	0.2354	0.04476
I33_RS10170	0.0321	0.4224	0.07592
I33_RS10180	0.0192	0.2198	0.08749
I33_RS10185	0.0095	0.2853	0.03316
I33_RS10200	0.0511	0.309	0.16543

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS10210	0.02	0.3952	0.05069
I33_RS10215	0.0084	0.3141	0.02677
I33_RS10220	0.017	0.2737	0.06196
I33_RS10225	0.0299	0.3257	0.0919
I33_RS10235	0.0111	0.2675	0.04159
I33_RS10245	0.0096	0.237	0.04063
I33_RS10255	0.0048	0.1619	0.02977
I33_RS10260	0.0129	0.3143	0.04089
I33_RS10265	0.0108	0.3403	0.03173
I33_RS10270	0.0117	0.3025	0.03852
I33_RS10275	0.0403	0.3696	0.10907
I33_RS10280	0.0343	0.3334	0.1028
I33_RS10290	0.06085	0.5464	0.111515
I33_RS10300	0.0201	0.5225	0.03856
I33_RS10315	0.0215	0.3765	0.055665
I33_RS10320	0.0168	0.3473	0.04826
I33_RS10325	0.0138333333333333	0.213233333333333	0.0978933333333333
I33_RS10330	0.0244	0.266	0.09173
I33_RS10335	0.0146	0.50565	0.03454
I33_RS10340	0.0665	0.2487	0.26756
I33_RS10350	0.04015	0.51915	0.076215
I33_RS10355	0.0114	0.2529	0.05371
I33_RS10375	0.0093	0.4085	0.02279
I33_RS10380	0.0245	0.2604	0.09411
I33_RS10390	0.0243	0.2144	0.11326
I33_RS10395	0.06125	0.2846	0.22642
I33_RS10400	0.012	0.2397	0.05003
I33_RS10415	0.0239	0.27415	0.070855
I33_RS10425	0.012	0.1951	0.06149
I33_RS10430	0.0159	0.2579	0.05998
I33_RS10435	0.0558	0.3542	0.15762
I33_RS10440	0.0657	0.4071	0.16144
I33_RS10445	0.0201	0.3077	0.06522
I33_RS10455	0.0234	0.3343	0.07006
I33_RS10460	0.045	0.3556	0.12652
I33_RS10465	0.02945	0.30805	0.095415
I33_RS10470	0.063	0.4455	0.14135
I33_RS10475	0.0492	0.2527	0.19389
I33_RS10480	0.0417	0.33915	0.12256
I33_RS10485	0.0827	0.2972	0.27824
I33_RS10495	0.037	0.37535	0.10687
I33_RS11245	0.01455	0.313425	0.04637
I33_RS11255	0.0236	0.2943	0.0802
I33_RS11260	0.0144	0.2905	0.04973
I33_RS11265	0.0277	0.242	0.11456
I33_RS11270	0.0261	0.2214	0.11779
I33_RS11275	0.0424	0.2811	0.15068

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS11280	0.0152	0.0763	0.19974
I33_RS11290	0.0111	0.2224	0.04975
I33_RS11305	0.0348	0.2617	0.13277
I33_RS11315	0.013	0.382	0.03393
I33_RS11320	0.0314	0.2624	0.11955
I33_RS11325	0.0278	0.4218	0.06599
I33_RS11330	0.0369	0.3872	0.09528
I33_RS11335	0.0135	0.2172	0.06223
I33_RS11340	0.0034	0.3101	0.01083
I33_RS11345	0.05455	0.3238	0.15392
I33_RS11350	0.043	0.3813	0.11283
I33_RS11355	0.0175	0.1772	0.09876
I33_RS11360	0.0107	0.2564	0.04185
I33_RS11375	0.0278333333333333	0.224766666666667	0.12048
I33_RS11380	0.0621	0.3228	0.19231
I33_RS11385	0.00555	0.17175	0.032595
I33_RS11390	0.0363	0.3046	0.11932
I33_RS11395	0.0597	0.3488	0.1712
I33_RS11400	0.01295	0.2444	0.059495
I33_RS11410	0.0501	0.2695	0.18581
I33_RS11415	0.0471	0.3583	0.13158
I33_RS11420	0.06645	0.30255	0.21382
I33_RS11425	0.063	0.3857	0.16335
I33_RS11430	0.0713	0.3434	0.20425
I33_RS11440	0.0409	0.2695	0.15184
I33_RS11445	0.0123	0.3822	0.03213
I33_RS11450	0.0283	0.2921	0.09678
I33_RS11455	0.0203	0.3046	0.06671
I33_RS11460	0.0121	0.3049	0.03978
I33_RS11465	0.03045	0.337	0.09158
I33_RS11470	0.0254	0.2469	0.10273
I33_RS11475	0.0287	0.42	0.06842
I33_RS11485	0.0459	0.3137	0.14671
I33_RS11490	0.0068	0.283566666666667	0.0227833333333333
I33_RS11495	0.0208	0.2765	0.086275
I33_RS11500	0.01975	0.61665	0.01804
I33_RS11505	0.0446	0.8345	0.05347
I33_RS11515	0.0474	0.3483	0.13609
I33_RS11525	0.0133	0.3049	0.04353
I33_RS11530	0.0257	0.2125	0.12089
I33_RS11535	0.03885	0.37485	0.103205
I33_RS11540	0.0285	0.16705	NA
I33_RS11545	0.03225	0.21055	0.112645
I33_RS11550	0.03705	0.20265	0.214145
I33_RS11555	0.0127	0.1307	0.09738
I33_RS11560	0.0109	0.5333	0.02039
I33_RS11565	0.048625	5.5537	0.036585

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS11570	0.05235	0.3518	0.161675
I33_RS11575	0.0021	0.3551	0.00592
I33_RS11580	0.0082	0.4795	0.01702
I33_RS11585	0.0053	0.2354	0.02271
I33_RS11590	0.0165	0.2932	0.05641
I33_RS11595	0.01585	0.18885	0.091155
I33_RS11600	0.0206	0.197	0.10468
I33_RS11605	0.0296	0.277333333333333	0.106766666666667
I33_RS11610	0.0159	0.28335	0.04163
I33_RS11615	0.02845	0.4116	0.07298
I33_RS11625	0.0917	0.5553	0.16519
I33_RS11630	0.0555666666666667	0.556033333333333	0.107623333333333
I33_RS11635	0.03205	0.41895	0.077365
I33_RS11640	0.02275	0.4983	0.0449
I33_RS11645	0.0066	0.5438	0.01223
I33_RS11650	0.0384	0.5935	0.06462
I33_RS11655	0.0018	0.4755	0.00382
I33_RS11660	0	0.2663	0
I33_RS11670	0.0339666666666667	0.446133333333333	0.0727333333333333
I33_RS11675	0.0343	0.4289	0.07991
I33_RS11680	0.0482	0.5734	0.08407
I33_RS11685	0.06615	0.5355	0.139605
I33_RS11695	0.0702	0.2876	0.24408
I33_RS11700	0.0932	0.8084	0.11287
I33_RS11705	0.063	0.3553	0.17743
I33_RS11710	0.0474	0.5343	0.08865
I33_RS11715	0.0942	0.55905	0.17557
I33_RS11720	0.0468	0.5546	0.08431
I33_RS11730	0.0425	0.5361	0.07933
I33_RS11740	0.035	0.6452	0.05425
I33_RS11745	0.0032	0.3529	0.00902
I33_RS11755	0.0059	0.4615	0.01268
I33_RS11760	0.0118	0.1114	0.113505
I33_RS11770	0.006	0.1717	0.03482
I33_RS11775	0	0.1485	0
I33_RS11780	0	0.0299	0
I33_RS11790	0.0038	0.2246	0.01695
I33_RS11795	0.022	0.3102	0.07083
I33_RS11800	0.0269	0.2239	0.12008
I33_RS11810	0.0069	0.3337	0.02058
I33_RS11815	0.0065	0.3237	0.02007
I33_RS11820	0.0308	0.3021	0.10182
I33_RS11825	0.0096	0.3295	0.029
I33_RS11830	0.0359	0.2248	0.15987
I33_RS11835	0.037	0.3359	0.11023
I33_RS11840	0.0339666666666667	0.415266666666667	0.0669066666666667
I33_RS11845	0.0188	0.2226	0.08432

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS11850	0.0521	0.3197	0.16302
I33_RS11855	0.0118666666666667	0.425733333333333	0.0287966666666667
I33_RS11860	0.0219	0.2689	0.08147
I33_RS11885	0.00235	0.1661	0.01588
I33_RS11890	0.0193	0.2497	0.07735
I33_RS11905	0.0308	0.305	0.142295
I33_RS11920	0.024	0.1699	0.14102
I33_RS11925	0.0278	0.3585	0.07749
I33_RS11930	0.0501	0.1881	0.26636
I33_RS11935	0	0.0621	0
I33_RS11940	0.0134	0.2869	0.04671
I33_RS11945	0.0079	0.3244	0.02446
I33_RS11955	0.0532	0.5461	0.0974
I33_RS11960	0.0525	0.5897	0.08907
I33_RS11965	0.09975	0.4342	0.236575
I33_RS11980	0.0077	0.2084	0.03699
I33_RS11985	0.0119	0.3131	0.03797
I33_RS11990	0.0136	0.27475	0.050095
I33_RS11995	0.016	0.2922	0.05469
I33_RS12005	0.00815	0.19245	0.05522
I33_RS12010	0.0055	0.2158	0.02535
I33_RS12015	0.0265	0.3091	0.08565
I33_RS12030	0.0048	0.2804	0.01722
I33_RS12035	0.0127	0.1747	0.0726
I33_RS12040	0.0475	0.3492	0.12571
I33_RS12045	0	0.13475	0
I33_RS12050	0.0116	0.2828	0.04114
I33_RS12055	0.0128	0.2092	0.06111
I33_RS12060	0.0253666666666667	0.335133333333333	0.110973333333333
I33_RS12065	0.0368	0.4604	0.08001
I33_RS12085	0.013	0.303	0.04282
I33_RS12090	0.0061	0.34875	0.016395
I33_RS12100	0.0627	1.4893	0.04213
I33_RS12110	0.02035	0.30145	0.06618
I33_RS12115	0.0357	0.2336	0.15296
I33_RS12120	0.0088	0.2966	0.02967
I33_RS12125	0.0055	0.342833333333333	0.02137
I33_RS12130	0.0017	0.2183	0.00775
I33_RS12135	0.0051	0.255566666666667	0.01802
I33_RS12140	0.0191	0.32	0.05984
I33_RS12160	0.00833333333333333	0.189166666666667	0.168846666666667
I33_RS12165	0.0702	0.3025	0.23215
I33_RS12170	0.0122	0.3107	0.03929
I33_RS12175	0.0334	0.716	0.04662
I33_RS12180	0.00556666666666667	0.5036	0.0108233333333333
I33_RS12190	0.0192	0.2246	0.08546
I33_RS12200	0.0178	0.3382	0.05249

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS12210	0.0318	0.3178	0.10012
I33_RS12215	0.03175	0.303	0.105433333333333
I33_RS12220	0.06725	0.2996	0.22708
I33_RS12225	0.0327	0.24615	0.141245
I33_RS12230	0.0503	0.2367	0.21259
I33_RS12235	0.0038	0.2061	0.01821
I33_RS12240	0.02155	0.38705	0.052475
I33_RS12245	0.0336	0.2414	0.13903
I33_RS12260	0.0297	0.3038	0.096095
I33_RS12265	0.1056	0.37725	0.275455
I33_RS12270	0.0176	0.2966	0.05942
I33_RS12275	0.0376	0.35735	0.10458
I33_RS12285	0.02805	0.425325	0.0611975
I33_RS12295	0.02535	0.2401	0.132145
I33_RS12300	0.0338	0.2969	0.113115
I33_RS12305	0.0063	0.2929	0.02143
I33_RS12315	0.001	0.2648	0.00376
I33_RS12320	0.0291	0.3064	0.0949
I33_RS12330	0.0282666666666667	0.304133333333333	0.0972533333333333
I33_RS12340	0.0264	0.30925	0.07722
I33_RS12345	0.0305	0.2787	0.10939
I33_RS12350	0.0565	0.3009	0.1877
I33_RS12355	0.0328	0.2991	0.10979
I33_RS12360	0.0115	0.4312	0.02662
I33_RS12370	0.0158	0.3004	0.05266
I33_RS12375	0.0066	0.2221	0.02961
I33_RS12385	0.0257	0.2507	0.1024
I33_RS12390	0.02635	0.41555	0.0584
I33_RS12395	0.0525	0.5606	0.09373
I33_RS12410	0.0235	0.3569	0.06589
I33_RS12415	0.0373	0.3478	0.111285
I33_RS12420	0.0044	0.3691	0.01185
I33_RS12425	0.0084	0.2546	0.03284
I33_RS12430	0	0.1247	0
I33_RS12435	0.0251	0.3909	0.06429
I33_RS12445	0.0101	0.3051	0.03302
I33_RS12450	0.009	0.3679	0.02443
I33_RS12455	0.0346	0.3003	0.11508
I33_RS12465	0.0037	0.3675	0.01006
I33_RS12470	0.01825	0.276225	0.1187225
I33_RS12475	0.0239	0.3235	0.07391
I33_RS12485	0.0328	0.3345	0.09802
I33_RS12495	0.0573	0.2989	0.19031
I33_RS12500	0.0344	0.3404	0.10097
I33_RS12505	0.0139	0.3383	0.04105
I33_RS12510	0.054125	0.3099	0.17197
I33_RS12525	0.0218	0.3366	0.06475

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS12550	0.0133	0.3785	0.03517
I33_RS12555	0.0186	0.2624	0.07101
I33_RS12565	0.0155	0.3192	0.04866
I33_RS12570	0.0111	0.2752	0.04024
I33_RS12580	0.013	0.3006	0.04496
I33_RS12595	0.007	0.1204	0.0573
I33_RS12605	0.015	0.1305	0.11464
I33_RS12610	0.0159	0.189	0.08432
I33_RS12615	0.0128	0.1328	0.09667
I33_RS12620	0	0.15785	0
I33_RS12630	0.0051	0.2606	0.017795
I33_RS12635	0.0244	0.1851	0.13174
I33_RS12645	0.0336	0.2918	0.11523
I33_RS12650	0.0036	0.0851	0.04241
I33_RS12660	0.0034	0.0749	0.04494
I33_RS12675	0.0163	0.3837	0.04248
I33_RS12685	0.0289	0.2664	0.10838
I33_RS12690	0.0462	0.2619	0.17639
I33_RS12700	0.0139	0.3644	0.03803
I33_RS12710	0.027	0.319	0.08471
I33_RS12715	0.0173	0.0801	0.21584
I33_RS12725	0.0221	0.4365	0.05061
I33_RS12730	0.016	0.3249	0.04932
I33_RS12745	0.0193	0.33095	0.058705
I33_RS12750	0.0841333333333333	0.319	0.270916666666667
I33_RS12755	0.0242	0.2642	0.09167
I33_RS12760	0.0284	0.27695	0.11481
I33_RS12765	0.0383	0.5015	0.07644
I33_RS12770	0.0133	0.1144	0.11655
I33_RS12775	0.0302	0.4297	0.07034
I33_RS12785	0.0310666666666667	0.237033333333333	0.116601666666667
I33_RS12790	0.0663	0.24255	0.315855
I33_RS12800	0.0115	0.3095	0.03722
I33_RS12810	0.0134	0.2602	0.05152
I33_RS12815	0.05348	0.3855	0.147594
I33_RS12820	0.123	0.3136	0.39233
I33_RS12825	0.0865142857142857	0.395357142857143	0.222348571428571
I33_RS12830	0.0139	0.3639	0.03827
I33_RS12835	0.0128	0.3733	0.03419
I33_RS12840	0.0061	0.3089	0.0196
I33_RS12850	0.0654	29.74846	0.04979
I33_RS12855	0	0.2149	0
I33_RS12860	0.0124	0.3732	0.03316
I33_RS12865	0.0041	0.1613	0.02535
I33_RS12870	0.01995	0.32995	0.0614
I33_RS12890	0.0063	0.2468	0.02533
I33_RS12895	0.016975	0.2706	0.06479

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS12910	0.02195	0.2143	0.10864
I33_RS12915	0.0133	0.3539	0.03752
I33_RS12920	0.0733	0.0986	0.7437
I33_RS12925	0.0801	0.31735	0.251365
I33_RS12935	0.0157	0.2841	0.05525
I33_RS12940	0.0221	0.3759	0.05883
I33_RS12945	0.0178	0.254033333333333	0.0589966666666667
I33_RS12950	0.0083	0.2328	0.03583
I33_RS12960	0.0163	0.1365	0.11952
I33_RS12965	0.0032	0.2658	0.01219
I33_RS12970	0.0022	0.1506	0.01463
I33_RS12985	0.00845	0.2779	0.03095
I33_RS12990	0.0122	0.3363	0.03631
I33_RS12995	0.0048	0.1947	0.02466
I33_RS13000	0.0259666666666667	0.2036	0.135366666666667
I33_RS13005	0.0247	0.3234	0.07623
I33_RS13010	0.004	0.2959	0.01365
I33_RS13020	0.0159	0.1824	0.08746
I33_RS13025	0.045475	0.34175	0.1346
I33_RS13030	0.0058	0.1592	0.03672
I33_RS13035	0	0.0199	0
I33_RS13040	0.0131	0.35355	0.03593
I33_RS13045	0.0363	0.152	0.23911
I33_RS13050	0.00805	0.3337	0.02552
I33_RS13065	0.0073	0.23435	0.030855
I33_RS13075	0.02555	0.34565	0.075685
I33_RS13080	0.0085	0.4476	0.01902
I33_RS13095	0.02145	0.34925	0.064345
I33_RS13100	0.01	0.2975	0.03353
I33_RS13110	0.0053	0	NA
I33_RS13115	0.0109	0.254	0.04296
I33_RS13125	0.106475	0.4393	0.23631
I33_RS13130	0.0457	0.331	0.13807
I33_RS13135	0.0829	0.3154	0.26278
I33_RS13140	0.0203	0.3002	0.06778
I33_RS13150	0.02975	0.2394	0.125395
I33_RS13155	0.0072	0.1636	0.04416
I33_RS13160	0.0043	0.1478	0.02895
I33_RS13165	0.0087	0.2925	0.02961
I33_RS13170	0	0.1678	0
I33_RS13175	0.0083	0.2084	0.02292
I33_RS13180	0.0597	0.511	0.11676
I33_RS13185	0.0621	0.4237	0.14663
I33_RS13195	0.0701	0.31845	0.23334
I33_RS13200	0.0215	0.4026	0.05346
I33_RS13510	0.0692	0.7312	0.09466
I33_RS13515	0.0837	2.0099	0.07182

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS13685	0.0151	0.588	0.02573
I33_RS13690	0.04	0.7288	0.05487
I33_RS13700	0.0298	0.4031	0.07397
I33_RS13710	0.00135	0.37715	0.00319
I33_RS13715	0.05065	0.3216	0.15883
I33_RS13720	0.0035	0.3496	0.0099
I33_RS13725	0.025625	0.246275	0.13349
I33_RS13745	0.0322	0.3291	0.09797
I33_RS13760	0.0209	0.5138	0.04061
I33_RS13790	0.0108	0.4306	0.02518
I33_RS13795	0.0418	0.336633333333333	0.12504
I33_RS13800	0.07335	0.4526	0.18663
I33_RS13805	0.0202	0.3039	0.06648
I33_RS13810	0.0188	0.434	0.04339
I33_RS13815	0.0061	0.262	0.02339
I33_RS13825	0.0175	0.3234	0.05416
I33_RS13830	0.014	0.3202	0.04376
I33_RS13835	0.0199	0.2806	0.07086
I33_RS13840	0.02855	0.2875	0.09874
I33_RS13845	0.0158666666666667	0.245966666666667	0.0769033333333333
I33_RS13850	0.0099	0.4032	0.02463
I33_RS13855	0.0162	0.2615	0.06202
I33_RS13860	0	0.1943	0
I33_RS13865	0.0149	0.238125	0.06546
I33_RS13875	0.0091	0.2535	0.03597
I33_RS13885	0	0.0205	0
I33_RS13895	0.0158	0.2697	0.05871
I33_RS13905	0.0164	0.4066	0.04022
I33_RS13920	0.0067	0.1135	0.05865
I33_RS13925	0.0327	0.2164	0.15115
I33_RS13930	0.0077	0.2881	0.02661
I33_RS13945	0.0096	0.2409	0.03995
I33_RS13955	0.0194	0.2273	0.08532
I33_RS13965	0.0121333333333333	0.2978	0.0438133333333333
I33_RS13970	0.0192	0.4262	0.04499
I33_RS13980	0.0159	0.2859	0.05558
I33_RS13985	0.0256	0.3081	0.08318
I33_RS13990	0.0257666666666667	0.2987	0.0958233333333333
I33_RS13995	0.0019	0.2529	0.00754
I33_RS14000	0.0089	0.1106	0.08019
I33_RS14015	0.01735	0.30805	0.057345
I33_RS14020	0.05605	0.45655	0.101975
I33_RS14025	0.0295	0.3966	0.07444
I33_RS14030	0.0206	0.16245	0.23146
I33_RS14035	0.0332	0.1313	0.25316
I33_RS14040	0.02735	0.34895	0.07747
I33_RS14045	0.0076	0.1631	0.09284

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS14055	0.0147	0.3472	0.04225
I33_RS14060	0.00675	0.3533	0.02332
I33_RS14065	0.017	0.3072	0.059295
I33_RS14075	0.0216	0.2675	0.08076
I33_RS14085	0.0369	0.303	0.12167
I33_RS14100	0.0496333333333333	0.3127	0.159706666666667
I33_RS14105	0.0242	0.2402	0.10064
I33_RS14110	0.0209	0.1453	0.14409
I33_RS14115	0.0415	0.3213	0.12931
I33_RS14120	0.0575	0.4033	0.14261
I33_RS14125	0.06405	0.31025	0.21162
I33_RS14130	0.06115	0.2998	0.22526
I33_RS14135	0.0322	0.2867	0.11225
I33_RS14140	0.0207	0.2784	0.07426
I33_RS14145	0.0043	0.3512	0.01212
I33_RS14150	0.01005	0.1737	0.065145
I33_RS14155	0.00965	0.1059	0.05187
I33_RS14160	0.0104	0.18885	0.09045
I33_RS14165	0.0248	0.3828	0.06484
I33_RS14170	0.0069	0.3064	0.02252
I33_RS14175	0.0136	0.20525	0.06651
I33_RS14180	0.0016	0.1745	0.00911
I33_RS14185	0.0014	0.2756	0.0051
I33_RS14190	0.0239	0.1888	0.12856
I33_RS14195	0	0.048	0
I33_RS14200	0.0465	0.3471	0.13385
I33_RS14205	0.02695	0.28915	0.0955
I33_RS14215	0.0089	0.2631	0.03401
I33_RS14225	0.02425	0.1149	0.20163
I33_RS14230	0.0484	0.2565	0.19661
I33_RS14235	0.1631	0.154	1.05913
I33_RS14240	0.1105	0.284166666666667	0.3512
I33_RS14245	0.014	0.3164	0.04426
I33_RS14250	0.035525	0.31265	0.1090525
I33_RS14255	0	0.179	0
I33_RS14260	0.007	0.2559	0.02738
I33_RS14265	0.0327	0.3319	0.09847
I33_RS14270	0.0025	0.2844	0.00871
I33_RS14275	0.0054	0.3286	0.01639
I33_RS14285	0.0084	0.3672	0.02301
I33_RS14290	0.0011	0.198	0.00548
I33_RS14300	0.0061	0.1888	0.03208
I33_RS14305	0.0133	0.37	0.03586
I33_RS14310	0.02205	0.4085	0.05687
I33_RS14315	0.005	0.255	0.01945
I33_RS14320	0.0184	0.243	0.07564
I33_RS14325	0.0127	0.3449	0.03686

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS14335	0.0056	0.32625	0.022405
I33_RS14350	0.0429	0.4466	0.09617
I33_RS14355	0.00865	0.24365	0.02175
I33_RS14360	0.013	0.2706	0.0577333333333333
I33_RS14365	0.0215	0.3591	0.05997
I33_RS14370	0.0207	0.4617	0.04493
I33_RS14375	0.003	0.1471	0.02008
I33_RS14380	0.0184666666666667	0.202266666666667	0.0595066666666667
I33_RS14390	0.0015	0.2623	0.00586
I33_RS14395	0	0.1233	0
I33_RS14400	0	0.1386	0
I33_RS14405	0.0092	0.2681	0.03433
I33_RS14410	0.0113	0.3016	0.03751
I33_RS14420	0.014	0.2957	0.04752
I33_RS14425	0	0.353	0
I33_RS14435	0.0266	0.3315	0.08029
I33_RS14440	0.02275	0.326	0.06931
I33_RS14445	0.0146	0.244	0.05897
I33_RS14450	0.021	0.3087	0.06806
I33_RS14455	0.01055	0.12125	0.105245
I33_RS14470	0.0045	0.2126	0.02128
I33_RS14475	0.0253	0.2654	0.09539
I33_RS14480	0.0141	0.2043	0.069
I33_RS14485	0.01705	0.1322	0.14769
I33_RS14490	0.0126	0.3591	0.03497
I33_RS14525	0.0079	0.2406	0.03264
I33_RS14530	0.0406666666666667	0.237033333333333	0.170616666666667
I33_RS14535	0.0068	0.1832	0.03699
I33_RS14540	0.0195	0.3754	0.05189
I33_RS14545	0.0282	0.3386	0.08343
I33_RS14550	0.034	0.4548	0.07482
I33_RS14555	0.02485	0.3524	0.06127
I33_RS14560	0.0099	0.3704	0.02685
I33_RS14565	0.0018	0.3804	0.00477
I33_RS14570	0.0156	0.3898	0.0399
I33_RS14575	0.0087	0.3138	0.02782
I33_RS14580	0.009	0.31825	0.02315
I33_RS14585	0.0766	0.4673	0.153096666666667
I33_RS14590	0.0101	0.2947	0.03439
I33_RS14600	0.0315	0.3374	0.09346
I33_RS14605	0.0139	0.3	0.04618
I33_RS14610	0.0231666666666667	0.487333333333333	0.0532333333333333
I33_RS14620	0.0128	0.3196	0.04012
I33_RS14625	0.0125666666666667	0.1511	0.06024
I33_RS14630	0	0.0448	0
I33_RS14635	0.0768	0.0966	0.79443
I33_RS14640	0.01525	0.22695	0.06663

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS14645	0.0244	0.2685	0.09091
I33_RS14650	0.0278	0.29295	0.097875
I33_RS14655	0.0042	0.2926	0.01437
I33_RS14660	0.02575	0.262	0.097865
I33_RS14785	0.0361	0.3447	0.10479
I33_RS14790	0.0045	0.2883	0.01562
I33_RS14795	0.0134	0.2979	0.04514
I33_RS14810	0.013	0.2919	0.04452
I33_RS14820	0.02855	0.2604	0.14326
I33_RS14835	0.0075	0.1464	0.05099
I33_RS14840	0.0064	0.1991	0.03238
I33_RS14850	0.0088	0.1964	0.04492
I33_RS14855	0.0131	0.2509	0.06116
I33_RS14870	0.0127	0.3032	0.04197
I33_RS14875	0.0043	0.2033	0.02119
I33_RS14880	0.007	0.1928	0.03637
I33_RS14885	0.0047	0.1406	0.03374
I33_RS14895	0.0137	0.2491	0.06018
I33_RS14900	0.0213	0.3425	0.06213
I33_RS14905	0.0159	0.2742	0.05816
I33_RS14915	0.0065	0.231325	0.0314075
I33_RS14920	0.008	0.22255	0.04483
I33_RS14975	0.0083	0.2636	0.03156
I33_RS14990	0.0241	0.296	0.08138
I33_RS14995	0.0012	0.2817	0.0041
I33_RS15000	0.0111	0.2811	0.03959
I33_RS15005	0	0.2248	0
I33_RS15015	0.01835	0.3242	0.05852
I33_RS15020	0.0029	0.1415	0.02064
I33_RS15025	0.0246	0.29785	0.078465
I33_RS15030	0.0276	0.2807	0.09849
I33_RS15035	0.02335	0.2755	0.082965
I33_RS15040	0.0171	0.3745	0.04558
I33_RS15045	0.0454	0.315	0.14401
I33_RS15060	0.0174	0.3111	0.05581
I33_RS15065	0.0075	0.17875	0.02099
I33_RS15075	0.0417	0.3363	0.12402
I33_RS15080	0.1059	26.47185	0.01628
I33_RS15095	0.0173	0.240633333333333	0.0714133333333333
I33_RS15100	0.0894	0.2081	0.42959
I33_RS15105	0.0342	0.323	0.10586
I33_RS15110	0.0022	0.0648	0.03318
I33_RS15120	0.0089	0.3015	0.02962
I33_RS15130	0.0201	0.1623	0.12362
I33_RS15135	0.0267	0.3381	0.0898333333333333
I33_RS15150	0.0192	0.4158	0.04623
I33_RS15160	0.0123	0.2391	0.0516

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS15165	0.0034	0.2303	0.01547
I33_RS15175	0.0389	0.297	0.14651
I33_RS15185	0.0041	0.2584	0.01594
I33_RS15210	0.019	0.2069	0.09164
I33_RS15220	0.0087	0.22815	0.03777
I33_RS15235	0.0089	0.3382	0.02642
I33_RS15240	0.0139	0.1609	0.08619
I33_RS15250	0.015525	0.298975	0.048355
I33_RS15255	0.0505333333333333	0.358716666666667	0.130255
I33_RS15260	0.0434333333333333	0.262733333333333	0.161726666666667
I33_RS15275	0.0303	0.3945	0.07671
I33_RS15280	0.00803333333333333	0.305466666666667	0.0331233333333333
I33_RS15285	0.110966666666667	0.3682	0.392306666666667
I33_RS15290	0.0989	0.509	0.19436
I33_RS15295	0.0224	0.471833333333333	0.04867
I33_RS15300	0.0437666666666667	0.249266666666667	0.16237
I33_RS15305	0.046025	0.2958	0.3105275
I33_RS15310	0.04335	0.42065	0.10392
I33_RS15315	0.0107	0.1986	0.05393
I33_RS15320	0.041	0.387	0.10594
I33_RS15325	0.0101	0.3903	0.02586
I33_RS15330	0.0207	0.3941	0.05253
I33_RS15335	0.0214	0.3168	0.06755
I33_RS15340	0.0049	0.1774	0.02756
I33_RS15350	0.0691	0.371	0.18611
I33_RS15360	0.03695	0.33995	0.101655
I33_RS15365	0.0632	0.3851	0.16423
I33_RS15370	0.0308	0.3305	0.08748
I33_RS15380	0.0717	0.3887	0.18453
I33_RS15385	0.05145	0.3156	0.16918
I33_RS15390	0.0192	0.337633333333333	0.05658
I33_RS15400	0.03	0.4232	0.07095
I33_RS15405	0.0216	0.2671	0.08103
I33_RS15420	0.0222	0.1612	0.13786
I33_RS15425	0.0119	0.241	0.04951
I33_RS15435	0.0042	0.0384	0.10849
I33_RS15445	0.0337	0.3493	0.09645
I33_RS15450	0.0351333333333333	0.361533333333333	0.130713333333333
I33_RS15455	0.0555	0.2955	0.17898
I33_RS15460	0.0631	0.3237	0.20022
I33_RS15465	0.0329	0.36655	0.12927
I33_RS15470	0.0344	0.3181	0.10809
I33_RS15475	0.0223	0.3377	0.06611
I33_RS15480	0.0135	0.3874	0.03487
I33_RS15485	0.0167	0.4222	0.03944
I33_RS15495	0.0093	0.7099	0.0131
I33_RS15500	0.1367	1.15373333333333	0.126286666666667

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS15505	0.2462	2.5731	0.09568
I33_RS15510	0.0074	0.1231	0.06027
I33_RS15520	0.01415	0.3778	0.040875
I33_RS15525	0.0258666666666667	0.380733333333333	0.0683533333333333
I33_RS15530	0.0105	0.2748	0.03836
I33_RS15535	0.0216	0.3356	0.06437
I33_RS15540	0.01775	0.3945	0.071975
I33_RS15545	0.017	0.4076	0.04162
I33_RS15550	0.0021	0.1787	0.012
I33_RS15555	0.0047	0.1687	0.02815
I33_RS15580	0.0055	0.2388	0.02317
I33_RS15585	0.0166	0.275166666666667	0.0675166666666667
I33_RS15590	0.0063	0.2345	0.02679
I33_RS15595	0.0158	0.3407	0.04645
I33_RS15600	0.00645	0.2418	0.022715
I33_RS15605	0.0001	0.558	0.0001
I33_RS15610	0.0098	0.4004	0.02458
I33_RS15615	0.0542	0.4423	0.12263
I33_RS15620	0.0206	0.384	0.05372
I33_RS15630	0.02915	0.42525	0.068365
I33_RS15635	0.022	0.3805	0.05786
I33_RS15640	0.0122	0.3974	0.03072
I33_RS15645	0.0316	0.242	0.13072
I33_RS15650	0	0.2344	0
I33_RS15655	0.0618	0.2875	0.21508
I33_RS15660	0.0282666666666667	0.279433333333333	0.126276666666667
I33_RS15670	0.0155	0.2566	0.06052
I33_RS15675	0.0095	0.1623	0.05845
I33_RS15680	0.02715	0.54445	0.062675
I33_RS15685	0.0123	0.4011	0.03073
I33_RS15690	0.0471666666666667	0.347966666666667	0.15339
I33_RS15695	0.0472333333333333	0.386733333333333	0.135566666666667
I33_RS15700	0.1033	0.2546	0.40595
I33_RS15710	0.03965	0.36225	0.13585
I33_RS15715	0.0194	0.3873	0.05017
I33_RS15720	0.0228	0.2054	0.1111
I33_RS15730	0.0318	0.2628	0.12085
I33_RS15740	0.0631	0.3891	0.16217
I33_RS15755	0.02695	0.4131	0.06559
I33_RS15760	0.03415	0.3117	0.108495
I33_RS15765	0.0155	0.3424	0.049135
I33_RS15770	0.0328	0.3007	0.10892
I33_RS15825	0.0225	0.3833	0.05875
I33_RS15830	0.1001	0.3417	0.29289
I33_RS15835	0.0089	0.3107	0.02866
I33_RS15840	0.0413	0.28845	0.1432
I33_RS15845	0.045	0.2563	0.17557

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS15850	0.0105	0.2714	0.0386
I33_RS15855	0.0154	0.3342	0.04603
I33_RS15860	0.02735	0.2677	0.1047
I33_RS15870	0.0277	0.4379	0.06493
I33_RS15875	0	0.2378	0
I33_RS15880	0.0279	0.293	0.09527
I33_RS15885	0.0397	0.3251	0.12216
I33_RS15890	0.064	0.3917	0.1633
I33_RS15895	0.0318	0.3052	0.10412
I33_RS15900	0.0142	0.2919	0.04851
I33_RS15910	0.0168	0.3665	0.04584
I33_RS15915	0.0231	0.3768	0.06132
I33_RS15925	0.0554	0.275966666666667	0.199763333333333
I33_RS15930	0.0396333333333333	0.2761	0.147896666666667
I33_RS15935	0.0293	0.2632	0.11132
I33_RS15940	0.0518	0.279	0.1856
I33_RS15945	0.0224	0.4048	0.05545
I33_RS15955	0.0334	0.3773	0.08848
I33_RS15965	0.0113	0.3062	0.0369
I33_RS15970	0.0126	0.2265	0.05572
I33_RS15980	0.0435	0.32005	0.13643
I33_RS15990	0.0079	0.3088	0.02553
I33_RS15995	0.0347	0.28305	0.13049
I33_RS16000	0.03335	0.5056	0.06841
I33_RS16005	0.0354	0.3361	0.10547
I33_RS16010	0.0188	0.3366	0.05596
I33_RS16020	0.0392	0.162	0.2046
I33_RS16030	0.0452	0.2847	0.1587
I33_RS16035	0.0393	0.303033333333333	0.133263333333333
I33_RS16050	0.013	0.3021	0.04313
I33_RS16055	0	0.1841	0
I33_RS16065	0.0058	0.22885	0.02373
I33_RS16070	0.0402	0.2677	0.23969
I33_RS16075	0.0421	0.2733	0.163235
I33_RS16080	0.01775	0.27145	0.084625
I33_RS16085	0.0138	0.2617	0.05281
I33_RS16100	0.0203	0.22595	0.076555
I33_RS16105	0.0098	0.2545	0.038225
I33_RS16135	0.05735	0.2594	0.26908
I33_RS16150	0.0235	0.296	0.07929
I33_RS16165	0.0149	0.2799	0.05336
I33_RS16170	0.0459	0.3678	0.12487
I33_RS16175	0.19985	10.728025	0.019675
I33_RS16180	1.2971	21.3381	0.06457
I33_RS16190	0.9433	8.1929	0.11513
I33_RS16195	0	0.0237	0
I33_RS16210	0.018	0.2228	0.08094

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS16215	0.0057	0.2985	0.019
I33_RS16220	0.015	0.1432	0.10474
I33_RS16225	0.0553	0.2917	0.18733
I33_RS16230	0.1177	1.1763	0.10002
I33_RS16235	0.03415	0.2947	0.10758
I33_RS16240	0.0059	0.1528	0.03857
I33_RS16245	0.0157	0.3122	0.05024
I33_RS16250	0.0381	0.30145	0.126415
I33_RS16260	0.0301	0.2641	0.11406
I33_RS16265	0.6444	53.0155	0.01215
I33_RS16270	0.0083	0.2424	0.03419
I33_RS16285	0.0169	0.288	0.05856
I33_RS16300	0.0119	0.0887	0.102385
I33_RS16305	0.0241	0.3547	0.06795
I33_RS16310	0.0306	0.4074	0.07518
I33_RS16315	0.0191	0.3967	0.04805
I33_RS16320	0.0267	0.1478	0.18088
I33_RS16325	0.0349	0.2487	0.14673
I33_RS16330	0.0659	0.3548	0.18569
I33_RS16335	0.04825	0.3261	0.147495
I33_RS16345	0.0403	0.3182	0.1267
I33_RS16350	0.0226	0.31355	0.08407
I33_RS16355	0.0328	0.3555	0.09235
I33_RS16360	0.02715	0.5038	0.05793
I33_RS16365	0.041775	0.348175	0.120235
I33_RS16370	0.0513	0.3223	0.15907
I33_RS16375	0.0214	0.4211	0.05074
I33_RS16380	0.01955	0.34565	0.06137
I33_RS16385	0.0145	0.3991	0.03637
I33_RS16390	0.0377	0.3373	0.109085
I33_RS16395	0.0177	0.3346	0.05301
I33_RS16400	0.03645	0.19145	0.22146
I33_RS16405	0.02695	0.22785	0.15189
I33_RS16410	0.006	0.3377	0.017175
I33_RS16420	0.0212	0.3688	0.05747
I33_RS16425	0.0544666666666667	0.432666666666667	0.116033333333333
I33_RS16430	0.0237	0.2759	0.08584
I33_RS16440	0.0067	0.18305	0.040605
I33_RS16445	0.0240333333333333	0.192266666666667	0.120363333333333
I33_RS16450	0.0681	0.3372	0.20194
I33_RS16455	0.0331	0.3467	0.09556
I33_RS16460	0.0125	0.2844	0.04382
I33_RS16470	0.0121	0.3425	0.03524
I33_RS16475	0.0065	0.2142	0.03018
I33_RS16480	0.0252	0.3456	0.07294
I33_RS16485	0.0129	0.2352	0.058985
I33_RS16490	0.029	0.2323	0.113793333333333

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS16495	0.0363	0.2431	0.14924
I33_RS16500	0	0.2612	0
I33_RS16505	0.0141	0.2681	0.05274
I33_RS16510	0.0266	0.2292	0.10003
I33_RS16515	0.0209	0.3136	0.066345
I33_RS16520	0.0045	0.281	0.01609
I33_RS16525	0.0792	0.3583	0.22104
I33_RS16530	0.0287	0.3369	0.08504
I33_RS16535	0.0693	0.777	0.096085
I33_RS16550	0.0364	0.3695	0.09856
I33_RS16555	0.0287	0.3266	0.08784
I33_RS16560	0.047125	0.45475	0.10385
I33_RS16565	0.0975	0.554166666666667	0.193443333333333
I33_RS16570	0.038675	0.329125	0.125965
I33_RS16575	0.0377	0.4096	0.09206
I33_RS16580	0.0703	0.3153	0.22286
I33_RS16590	0.0808	0.2894	0.27929
I33_RS16600	0.0607	0.3595	0.16886
I33_RS16605	0.0383	0.4177	0.09179
I33_RS16610	0.0360333333333333	0.393166666666667	0.0914433333333333
I33_RS16615	0.037725	0.3743	0.10906
I33_RS16620	0.0561	0.3468	0.1617
I33_RS16625	0.008	0.4921	0.01616
I33_RS16630	0.027	0.3121	0.078365
I33_RS16635	0.0047	0.2219	0.02113
I33_RS16640	0.02235	0.24165	0.09053
I33_RS16645	0.0223	0.3275	0.068
I33_RS16650	0.0683	0.4529	0.146515
I33_RS16660	0.088	0.3957	0.22251
I33_RS16665	0.001	0.1501	0.00648
I33_RS16670	0.0031	0.195	0.01586
I33_RS16675	0.0075	0.15705	0.04777
I33_RS16680	0.0035	0.1248	0.0278
I33_RS16685	0.0138	0.2889	0.04782
I33_RS16690	0.0118	0.1788	0.06611
I33_RS16700	0.0068	0.2951	0.02313
I33_RS16705	0.0126	0.2256	0.05592
I33_RS16710	0.0273	0.1613	0.16948
I33_RS16715	0.0317	0.19245	0.163885
I33_RS16720	0.0186	0.11395	0.18399
I33_RS16725	0	0.2876	0
I33_RS16730	0.0119	0.3573	0.03337
I33_RS16750	0.02625	0.255	0.103025
I33_RS16765	0.01515	0.2549	0.06149
I33_RS16770	0.03915	0.368525	0.10745
I33_RS16775	0.016	0.2681	0.05985
I33_RS16780	0.0183	0.254	0.06528

Continued on next page

Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS16800	0.07875	0.15055	0.807945
I33_RS16805	0.01285	0.28415	0.03959
I33_RS16810	0.0106	0.2864	0.03695
I33_RS16820	0.017	0.1558	0.10939
I33_RS16830	0.003	0.2058	0.01457
I33_RS16835	0.0309	0.4287	0.067795
I33_RS16840	0.0261	0.4056	0.06423
I33_RS16845	0.0393	0.4695	0.08361
I33_RS16850	0.06035	0.4314	0.1496225
I33_RS16855	0.05375	0.2615	0.20603
I33_RS16865	0.023	0.3118	0.07368
I33_RS16870	0.0328	0.2669	0.12281
I33_RS16875	0.1114	0.326666666666667	0.37067
I33_RS16880	0.0145	0.29765	0.048005
I33_RS16885	0.019	0.4146	0.04593
I33_RS16890	0.0233	0.229	0.10162
I33_RS16895	0.0679	0.321133333333333	0.21179
I33_RS16900	0.0643166666666667	0.358516666666667	0.18
I33_RS16910	0.0264	0.3265	0.08085
I33_RS16920	0.0202	0.3372	0.05985
I33_RS16930	0.004	0.2407	0.01672
I33_RS16935	0.038625	0.43975	0.0944175
I33_RS16940	0.019825	0.389875	0.063375
I33_RS16945	0.0221	0.2212	0.09999
I33_RS16950	0.0212666666666667	0.2556	0.08162
I33_RS16955	0.0375	0.3394	0.11062
I33_RS16960	0.03285	0.38715	0.09395
I33_RS16965	0.0189	0.3549	0.05313
I33_RS16975	0.0241	0.2188	0.0925866666666667
I33_RS16980	0.0275	0.3879	0.07099
I33_RS16985	0.04065	0.33985	0.1206
I33_RS16990	0.0518	0.2941	0.17604
I33_RS16995	0.0347	0.376	0.09232
I33_RS17000	0.02985	0.25805	0.12907
I33_RS17005	0.0221	0.4091	0.054075
I33_RS17025	0.0106	0.3355	0.03148
I33_RS17030	0.0312	0.2397	0.13007
I33_RS17055	0.0378	0.33455	0.114985
I33_RS17060	0.0378	0.3288	0.111285
I33_RS17065	0.0275333333333333	0.267966666666667	0.10308
I33_RS17075	0.0482	0.2664	0.18092
I33_RS17085	0.0355	0.3122	0.11359
I33_RS17090	0.0212	0.2901	0.07318
I33_RS17095	0.0276	0.4705	0.05872
I33_RS17100	0.0556	0.4733	0.11739
I33_RS17105	0.01505	0.28835	0.05767
I33_RS17110	0.0526	0.3734	0.14078

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS17115	0.0086	0.4296	0.02007
I33_RS17120	0.0575	0.37055	0.14938
I33_RS17125	0.0728	0.5702	0.12767
I33_RS17135	0.0108	0.2222	0.04852
I33_RS17155	0.0018	0.14795	0.008705
I33_RS17160	0.00375	0.1663	0.02417
I33_RS17175	0.0271333333333333	0.319666666666667	0.08417
I33_RS17180	0.009	0.3509	0.02575
I33_RS17185	0.0256	0.2475	0.10346
I33_RS17190	0.0172	0.3631	0.04751
I33_RS17210	0.0149	0.3882	0.039435
I33_RS17215	0.01165	0.29265	0.042915
I33_RS17225	0.05795	0.3978	0.145765
I33_RS17230	0.0846	0.5154	0.163335
I33_RS17235	0.1458	1.88055	0.0705
I33_RS17240	0.00746666666666667	0.151766666666667	0.0451466666666667
I33_RS17245	0.0037	0.0903	0.04097
I33_RS17250	0.0059	0.1073	0.05464
I33_RS17255	0.0021	0.06665	0.021745
I33_RS17265	0.0113	0.4144	0.02724
I33_RS17270	0.0077	0.3782	0.02035
I33_RS17275	0.0057	0.3627	0.01568
I33_RS17285	0.0419	0.2644	0.16229
I33_RS17295	0.04505	0.33845	0.13337
I33_RS17300	0.0096	0.39815	0.02577
I33_RS17310	0.0193	0.243	0.07941
I33_RS17315	0.03424	0.34476	0.110194
I33_RS17320	0.05135	0.3086	0.1669
I33_RS17325	0.0509	0.3296	0.15455
I33_RS17340	0.1327	0.3269	0.40604
I33_RS17345	0.062	0.475433333333333	0.13701
I33_RS17355	0.0156	0.348	0.04489
I33_RS17360	0.02845	0.38985	0.068915
I33_RS17365	0.018	0.331	0.05424
I33_RS17370	0.0501	0.2507	0.1999
I33_RS17375	0.0168	0.3264	0.05152
I33_RS17385	0.0228	0.3473	0.06573
I33_RS17395	0.0246	0.33785	0.07539
I33_RS17400	0.034	0.2943	0.11547
I33_RS17405	0.0279	0.4908	0.05685
I33_RS17410	0	0.2534	0
I33_RS17415	0.0403	0.3599	0.11183
I33_RS17420	0.0402	0.4094	0.09824
I33_RS17425	0.0636	0.3589	0.17728
I33_RS17440	0.0553333333333333	0.307733333333333	0.201956666666667
I33_RS17450	0.0217	0.1618	0.13417
I33_RS17455	0.0505	0.3522	0.14334

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS17460	0.0159	0.36885	0.04105
I33_RS17465	0.0309	0.3337	0.094365
I33_RS17470	0.0136	0.316	0.043
I33_RS17475	0.0314	0.4211	0.07465
I33_RS17480	0.016	0.2566	0.06226
I33_RS17485	0.0196	0.284233333333333	0.0758233333333333
I33_RS17490	0.07125	0.4788	0.148865
I33_RS17495	0.0684	0.5285	0.12945
I33_RS17520	0.03544	0.35422	0.09725
I33_RS17525	0.0325	0.4759	0.06794
I33_RS17605	0.0186	0.6032	0.03084
I33_RS17610	0.01555	0.3487	0.04467
I33_RS17620	0.0247	0.2837	0.0871
I33_RS17630	0.0264	0.80265	0.042055
I33_RS17635	0.0385	0.3674	0.1049
I33_RS17640	0.0262	0.3001	0.0872
I33_RS17645	0.0394	0.5581	0.07063
I33_RS17650	0.0620666666666667	0.309066666666667	0.240793333333333
I33_RS17655	0.0153	0.259	0.05921
I33_RS17665	0.04755	0.2833	0.167905
I33_RS17670	0	0.1599	0
I33_RS17675	0.0061	0.2393	0.02546
I33_RS17685	0.0078	0.3811	0.0204
I33_RS17705	0.0061	0.3216	0.01886
I33_RS17715	0.0166	0.1759	0.09416
I33_RS17720	0.0171	0.3439	0.04965
I33_RS17725	0.0154	0.392	0.03933
I33_RS17735	0.0188	0.4476	0.04199
I33_RS17740	0.1197	1.7529	0.06827
I33_RS17745	0.3164	11.4988	0.02752
I33_RS17750	0.0446	0.5476	0.08146
I33_RS17760	0.0269	0.4303	0.06248
I33_RS17765	0	0.173	0
I33_RS17770	0.0407	0.368733333333333	0.118446666666667
I33_RS17775	0.0316	0.2975	0.11345
I33_RS17780	0.0212	0.2958	0.076735
I33_RS17785	0.0169	0.3309	0.05107
I33_RS17800	0.048	0.3796	0.12657
I33_RS17805	0.0256	0.3836	0.0666
I33_RS17810	0.0313	0.3622	0.08634
I33_RS17815	0.0318	0.3716	0.0855
I33_RS17820	0.0163	0.2287	0.07139
I33_RS17825	0.0047	0.3296	0.01415
I33_RS17835	0.0438	0.4181	0.10477
I33_RS17840	0.03155	0.3319	0.086355
I33_RS17845	0.0268	0.3573	0.07508
I33_RS17865	0.036	0.4024	0.08939

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS17905	0.02015	0.2543	0.09613
I33_RS17910	0.02605	0.2755	0.09494
I33_RS17925	0.0161	0.3422	0.04713
I33_RS17940	0.0075	0.3014	0.03337
I33_RS17955	0.0146	0.2412	0.0607
I33_RS17960	0.024	0.2004	0.12
I33_RS17965	0.0074	0.4309	0.01722
I33_RS17980	0.0115	0.21055	0.058085
I33_RS17985	0.026	0.20025	0.17012
I33_RS17995	0.0041	0.2802	0.01477
I33_RS18005	0.0305166666666667	0.29985	0.10749
I33_RS18010	0.0465	0.7269	0.0639
I33_RS18015	0.0754	0.78815	0.12396
I33_RS18020	0.0365	0.9422	0.03879
I33_RS18025	0.0213	0.3731	0.0589566666666667
I33_RS18030	0.02235	0.3717	0.060175
I33_RS18045	0.037	0.229866666666667	0.166533333333333
I33_RS18055	0.0495	0.2631	0.18796
I33_RS18060	0.0763	0.320225	0.234585
I33_RS18065	0.02	0.2563	0.07784
I33_RS18070	0.002	0.1416	0.01392
I33_RS18075	0.0022	0.2507	0.00877
I33_RS18080	0.0252	0.2815	0.08966
I33_RS18090	0.0027	0.3153	0.00869
I33_RS18095	0.01895	0.3358	0.062475
I33_RS18110	0.0589	35.8862	0.027765
I33_RS18120	0.12372	16.30198	0.022118
I33_RS18130	0.0925	1.605	0.05764
I33_RS18135	0.119	30.6684	0.00388
I33_RS18145	0.0539	1.9401	0.02778
I33_RS18150	0.043	3.2228	0.01333
I33_RS18155	0.2454	12.5512	0.01955
I33_RS18175	0.0988	6.5283	0.01514
I33_RS18180	0.0383	7.1577	0.00536
I33_RS18185	0.0305	3.01095	0.010215
I33_RS18225	0.10595	6.3534	0.02388
I33_RS18230	0.0651	9.8082	0.00664
I33_RS18255	0.318266666666667	61.2567666666667	0.00983333333333333
I33_RS18260	0.4349	56.9795	0.00763
I33_RS18265	0.0805	0.3682	0.21867
I33_RS18275	0.0395	0.4037	0.09796
I33_RS18285	0.0474	0.3632	0.1306
I33_RS18295	0.0797	0.8804	0.09048
I33_RS18300	0.0846	1.7002	0.04977
I33_RS18305	0.1043	0.9762	0.104625
I33_RS18320	0.0807666666666667	8.9418	0.04222
I33_RS18325	0.045	0.5219	0.08619

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS18335	0.0291	0.3358	0.08653
I33_RS18345	0.01475	0.30965	0.03907
I33_RS18355	0.0035	0.1505	0.02304
I33_RS18370	0.0327333333333333	0.3379	0.0983433333333333
I33_RS18380	0.0227	0.4703	0.04823
I33_RS18385	0.0107	0.2635	0.04066
I33_RS18390	0.0359	0.33225	0.1084
I33_RS18400	0.0146	0.2499	0.05851
I33_RS18405	0.0123666666666667	0.3607	0.0330666666666667
I33_RS18430	0.038	0.4516	0.08412
I33_RS18440	0.03425	0.4104	0.1024825
I33_RS18445	0.0547	0.3704	0.1477
I33_RS18455	0.0185666666666667	0.387666666666667	0.0476966666666667
I33_RS18485	0.0200333333333333	0.397133333333333	0.0487866666666667
I33_RS18490	0.0188	0.2851	0.06608
I33_RS18495	0.013	0.1136	0.11469
I33_RS18500	0.03685	0.33035	0.105035
I33_RS18505	0.059775	0.336525	0.195745
I33_RS18510	0.0154	0.1511	0.10205
I33_RS18520	0.016	0.1825	0.08768
I33_RS18525	0.0297	0.3779	0.07869
I33_RS18535	0.0144	0.3691	0.03892
I33_RS18545	0.034	0.2217	0.15325
I33_RS18550	0.0607	0.4072	0.14904
I33_RS18560	0.021	0.1532	0.13693
I33_RS18565	0.0443	0.393	0.1204
I33_RS18570	0.01195	0.2249	0.05981
I33_RS18575	0.0134	0.2589	0.05156
I33_RS18580	0.0208	0.37915	0.055335
I33_RS18585	0.0014	0.0947	0.01488
I33_RS18590	0	0.0713	0
I33_RS18595	0.0082	0.23995	0.03408
I33_RS18600	0.050175	0.311175	0.16925
I33_RS18605	0.03	0.284	0.10566
I33_RS18610	0.0161	0.362	0.04457
I33_RS18620	0.0233	0.3642	0.065
I33_RS18625	0.0468	0.3441	0.14883
I33_RS18635	0.0059	0.2971	0.01983
I33_RS18640	0.0296	0.33985	0.09636
I33_RS18645	0.0878333333333333	0.388533333333333	0.216616666666667
I33_RS18650	0.0628333333333333	0.431033333333333	0.139923333333333
I33_RS18660	0.0159	0.2261	0.07038
I33_RS18665	0.0113	0.3611	0.03123
I33_RS18670	0.0419666666666667	0.256633333333333	0.154773333333333
I33_RS18675	0.0473	0.3379	0.14
I33_RS18680	0.0125	0.3208	0.03885
I33_RS18685	0.0208	0.27245	0.082745

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS18690	0.0682	0.2272	0.30035
I33_RS18695	0.0356	0.4516	0.07889
I33_RS18700	0.0132	0.2835	0.04653
I33_RS18710	0.0374	0.408	0.09156
I33_RS18720	0.0123	0.26835	0.046805
I33_RS18730	0.0231	0.2365	0.09763
I33_RS18735	0.0386	0.2924	0.13188
I33_RS18740	0.0356	0.1504	0.225165
I33_RS18745	0.0265	0.212566666666667	0.15935
I33_RS18750	0.0051	0.1458	0.03488
I33_RS18755	0.005	0.1408	0.03537
I33_RS18765	0.0327	0.1582	0.20689
I33_RS18770	0.0012	0.02845	0.030765
I33_RS18775	0.0075	0.1255	0.05966
I33_RS18780	0.0089	0.4377	0.02027
I33_RS18785	0.0065	0.2358	0.02778
I33_RS18790	0.02105	0.31125	0.06887
I33_RS18795	0.03365	0.2114	0.160335
I33_RS18805	0.0228	0.3572	0.06393
I33_RS18810	0.0302	0.4205	0.07183
I33_RS18815	0.0305	0.238133333333333	0.15041
I33_RS18820	0.044	0.3118	0.14096
I33_RS18825	0.0013	0.2165	0.00611
I33_RS18830	0.0481	0.1981	0.24259
I33_RS18835	0.028	0.2293	0.12226
I33_RS18840	0.0045	0.1763	0.02549
I33_RS18845	0.0242	0.2108	0.11497
I33_RS18850	0	0.0209	0
I33_RS18855	0	0.236	0
I33_RS18860	0.0044	0.2545	0.01726
I33_RS18865	0.0022	0.2486	0.00884
I33_RS18870	0.0092	0.1553	0.0594
I33_RS18875	0.0047	0.0996	0.04675
I33_RS18880	0	0.3943	0
I33_RS18885	0.01565	0.23605	0.093985
I33_RS18890	0.0211	0.2136	0.09859
I33_RS18895	0.0184	0.3598	0.05114
I33_RS18910	0.0746	0.666166666666667	0.113206666666667
I33_RS18915	0.0209	0.3216	0.06617
I33_RS18940	0.0238	0.3451	0.06883
I33_RS18945	0.0288142857142857	0.346542857142857	0.0862057142857143
I33_RS18950	0.0173	0.2147	0.08036
I33_RS18955	0.06155	0.4013	0.153385
I33_RS18960	0.01595	0.34045	0.04605
I33_RS18965	0.0099	0.2797	0.03545
I33_RS18990	0.0167	0.2326	0.07194
I33_RS19000	0	0.1044	0

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS19005	0.0164	0.247	0.06621
I33_RS19015	0.0581	0.3361	0.17486
I33_RS19020	0.0333	0.2439	0.13635
I33_RS19025	0.0468	0.3044	0.15382
I33_RS19035	0.1485	0.40245	0.390015
I33_RS19045	0.0257	0.3022	0.08515
I33_RS19050	0.0083	0.2333	0.03547
I33_RS19055	0.0035	0.2867	0.01204
I33_RS19060	0.0197	0.4438	0.047695
I33_RS19065	0.01445	0.35895	0.040465
I33_RS19070	0.0155	0.1675	0.061605
I33_RS19075	0.0467	0.3503	0.13324
I33_RS19095	0.0076	0.2265	0.03353
I33_RS19105	0.0167333333333333	0.2615	0.06563
I33_RS19110	0.0308333333333333	0.303933333333333	0.108423333333333
I33_RS19115	0.0155	0.3092	0.052895
I33_RS19125	0.0086	0.1749	0.04901
I33_RS19130	0.0109	0.3246	0.03357
I33_RS19140	0.0255	0.31085	0.080285
I33_RS19150	0.0175	0.2613	0.0671
I33_RS19160	0.0069	0.3381	0.02039
I33_RS19170	0.0159	0.3097	0.05136
I33_RS19175	0.008	0.4332	0.01852
I33_RS19185	0.0307	0.3584	0.0856
I33_RS19195	0.0217	0.3181	0.06825
I33_RS19200	0.04	0.4243	0.09432
I33_RS19205	0.0375	0.2243	0.16712
I33_RS19220	0.0138	0.3949	0.03504
I33_RS19225	0.0111	0.39705	0.03354
I33_RS19230	0.0064	0.2959	0.02168
I33_RS19235	0.0144	0.359	0.03999
I33_RS19240	0.02985	0.2525	0.12394
I33_RS19245	0.0838666666666667	0.2838	0.349636666666667
I33_RS19250	0.0322	0.3392	0.09491
I33_RS19255	0.0348	0.2176	0.15999
I33_RS19260	0.0227	0.2205	0.10283
I33_RS19265	0.047	0.2881	0.16321
I33_RS19270	0.0205	0.1801	0.11387
I33_RS19275	0.00855	0.2221	0.038035
I33_RS19285	0.0288	0.3462	0.08314
I33_RS19290	0.0347	0.2648	0.15887
I33_RS19295	0.0415666666666667	0.3838	0.10325
I33_RS19300	0.0163666666666667	0.415333333333333	0.04476
I33_RS19315	0.0054	0.2155	0.02509
I33_RS19320	0.0418	0.4394	0.0952
I33_RS19330	0.0177	0.6305	0.02814
I33_RS19340	0.0484	0.5821	0.08316

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Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS19345	0	0.2564	0
I33_RS19355	0.0241	0.3112	0.07741
I33_RS19370	0.0255	0.4084	0.06245
I33_RS19375	0.0231	0.2838	0.08122
I33_RS19380	0.0501	0.8123	0.052445
I33_RS19385	0	0.189	0
I33_RS19390	0.00296666666666667	0.0938333333333333	0.03076
I33_RS19395	0.0035	0.2024	0.01741
I33_RS19400	0.0091	0.1638	0.05562
I33_RS19405	0.0643	0.2767	0.2322
I33_RS19410	0.02485	0.26255	0.095295
I33_RS19415	0.0248333333333333	0.276866666666667	0.09094
I33_RS19420	0.02555	0.2094	0.197545
I33_RS19435	0.0193	0.343	0.05628
I33_RS19445	0.0261	0.3246	0.08027
I33_RS19450	0.0375	0.185	0.20252
I33_RS19460	0.03465	0.4673	0.0802
I33_RS19475	0.0236666666666667	0.2439	0.0959666666666667
I33_RS19480	0.035925	0.340525	0.11176
I33_RS19485	0.0247	0.5649	0.04376
I33_RS19500	0.0485	0.22745	0.216855
I33_RS19515	0.0322	0.3408	0.094975
I33_RS19520	0.0244	0.2164	0.1127
I33_RS19530	0.0372	0.387566666666667	0.0869066666666667
I33_RS19540	0.0189	0.3271	0.05772
I33_RS19545	0.0581	0.4672	0.125906666666667
I33_RS19550	0.0355	0.3893	0.09107
I33_RS19555	0.0044	0.2102	0.02082
I33_RS19560	0.0153333333333333	0.1738	0.0796033333333333
I33_RS19570	0.0062	0.1858	0.03337
I33_RS19575	0.0089	0.16215	0.070795
I33_RS19580	0.0155	0.2332	0.065815
I33_RS19610	0.0155	0.3663	0.04221
I33_RS19615	0	0.1858	0
I33_RS19620	0.03595	0.2679	0.1361
I33_RS19635	0.0216	0.2546	0.08491
I33_RS19640	0.0383333333333333	0.447433333333333	0.08257
I33_RS19645	0.0826	0.2514	0.32871
I33_RS19650	0.06518	0.34084	0.201456
I33_RS19655	0.032	0.26465	0.135255
I33_RS19665	0.0071	0.2019	0.03505
I33_RS19670	0.0124	0.2562	0.04828
I33_RS19675	0.0541	0.3267	0.16567
I33_RS19680	0.0237	0.4126	0.05744
I33_RS19690	0.0264	0.3773	0.071535
I33_RS19695	0.0561	0.4247	0.13201
I33_RS19700	0.0085	0.2303	0.03702

Continued on next page

Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
I33_RS19710	0.0119	0.3392	0.03503
I33_RS19720	0.0937	0.281	0.33338
I33_RS19725	0.0835	0.4226	0.19767
I33_RS19730	0.03895	0.34215	0.096765
I33_RS19735	0.0842666666666667	0.3485	0.27505
I33_RS19740	0.0511	0.3426	0.14908
I33_RS19755	0.0038	0.4002	0.0094
I33_RS19760	0.0666	0.2079	0.32028
I33_RS19770	0.05645	0.3419	0.17064
I33_RS19775	0.0133	0.2884	0.04599
I33_RS19780	0.0058	0.59045	0.008565
I33_RS19785	0.0127	0.4195	0.03021
I33_RS19820	0.0258	0.3578	0.07201
I33_RS19835	0.0342	0.4293	0.08241
I33_RS19845	0.0161	0.2959	0.05438
I33_RS19850	0.0177	0.3053	0.05806
I33_RS19855	0.0254	0.2948	0.08602
I33_RS19860	0.0371	0.3554	0.10446
I33_RS19870	0.0944333333333333	0.406866666666667	0.228536666666667
I33_RS19880	0.0095	0.2834	0.03343
I33_RS19885	0.0169	0.4372	0.041905
I33_RS19890	0.0726	0.423	0.17169
I33_RS19945	0.0067	0.306	0.02191
U712_RS01560	0.027	0.253	0.10684
U712_RS01695	0.0148	0.2573	0.05758
U712_RS01705	0.0037	0.3353	0.01098
U712_RS01890	0.0397	0.4255	0.09325
U712_RS02675	0.0055	0.266	0.02079
U712_RS02695	0.0121	0.311	0.03899
U712_RS02990	0.1825	0.7743	0.23571
U712_RS05860	0.0868	0.2747	0.31588
U712_RS06190	0.0047	0.2411	0.0196
U712_RS06255	0.0036	0.1361	0.02613
U712_RS06265	0.0017	0.2728	0.0062
U712_RS07205	0.0163	0.1356	0.12042
U712_RS07390	0.0266	0.3026	0.08789
U712_RS07555	0	0.312	0
U712_RS07705	0.005	0.2934	0.01691
U712_RS07715	0.0472	0.4377	0.10778
U712_RS08360	0.0223	0.3501	0.06357
U712_RS08685	0.0263	0.2712	0.09704
U712_RS09120	0.0351	0.172	0.20391
U712_RS09155	0.0293	0.28	0.10472
U712_RS09160	0	0.0701	0
U712_RS09230	0.0061	0.2764	0.02198
U712_RS10350	0	0.2697	0
U712_RS11405	0.006	0	NA

Continued on next page

Table S2 – continued from previous page

Gene	*dN*	*dS*	ω
U712_RS11450	0.0409	0.5158	0.07926
U712_RS11530	0.051	0.3094	0.16465
U712_RS11535	0.0119	0.2545	0.0466
U712_RS11710	0.0111	0.2439	0.0457
U712_RS11970	0.038	0.234	0.16221
U712_RS12560	0.0332	0.3766	0.08817
U712_RS12615	0.0032	0.4089	0.00776
U712_RS12620	0.0092	0.3249	0.02835
U712_RS12690	0.0062	0.2671	0.02339
U712_RS12710	0.0195	0.1877	0.10409
U712_RS12790	0.0668	0.279	0.23928
U712_RS13800	0.0255	0.3612	0.07069
U712_RS13875	0.0229	0.372	0.06155
U712_RS14245	0.0433	0.3371	0.12837
U712_RS14765	0.033	0.3246	0.1016
U712_RS14770	0.0155	0.3807	0.04082
U712_RS14775	0.0238	0.30965	0.07691
U712_RS14795	0.0118	0.2831	0.04155
U712_RS14835	0.008	0.2006	0.03991
U712_RS15475	0.0208	0.4478	0.04647
U712_RS15505	0.0163	0.3361	0.0485
U712_RS15600	0.0138	0.3593	0.03833
U712_RS16660	0.0889	0.3914	0.22722
U712_RS17840	0.0764	0.39	0.19584
U712_RS18005	0.0192	0.3057	0.06288
U712_RS18285	0.0771	5.1135	0.01508
U712_RS18470	0.0442	0.4512	0.09792
U712_RS19180	0.0547	0.4709	0.11613
U712_RS19730	0.0183	0.5565	0.03287
U712_RS20125	0.0196	0.398	0.04935
U712_RS20135	0.0332	0.2915	0.11395
U712_RS20140	0.01985	0.2078	0.091735

Table S3: Per gene *dN*, *dS*, and ω values calculated for *Streptomyces*.

Streptomyces			
Gene	***dN***	***dS***	ω
gene_name	dN	dS	omega
FQ762_RS04400	0	0.0445	0
FQ762_RS04585	0	0.0411	0
FQ762_RS04700	0.0008	0.0323	0.02507
FQ762_RS04760	NA	NA	NA
FQ762_RS04770	NA	NA	NA
FQ762_RS04810	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS04815	NA	NA	NA
FQ762_RS04870	0.0014	0.031	0.04371
FQ762_RS05070	NA	NA	NA
FQ762_RS05075	NA	NA	NA
FQ762_RS05130	0.002	0.0181	0.11204
FQ762_RS05135	0	0	0
FQ762_RS05140	NA	NA	NA
FQ762_RS05145	0	0.0554	0
FQ762_RS05150	0	0.0558	0
FQ762_RS05155	NA	NA	NA
FQ762_RS05165	0	0.0239	0
FQ762_RS05240	0.0046	0.0683	0.06704
FQ762_RS05320	NA	NA	NA
FQ762_RS05370	NA	NA	NA
FQ762_RS05400	NA	NA	NA
FQ762_RS05435	NA	NA	NA
FQ762_RS05465	NA	NA	NA
FQ762_RS05525	0.0013	0.0418	0.03042
FQ762_RS05580	NA	NA	NA
FQ762_RS05585	0.0019	0.0512	0.03725
FQ762_RS05610	NA	NA	NA
FQ762_RS05620	0	0.0111	0
FQ762_RS05625	0.007	0.0252	0.27611
FQ762_RS05630	0.0015	0.0822	0.0182
FQ762_RS05665	0.0013	0.0199	0.06711
FQ762_RS05710	NA	NA	NA
FQ762_RS05755	0.0024	0	NA
FQ762_RS05760	NA	NA	NA
FQ762_RS05775	0.0026	0.0136	0.19007
FQ762_RS05805	NA	NA	NA
FQ762_RS05850	0.0189	0.0189	1.00227
FQ762_RS05855	0.0013	0.0124	0.10874
FQ762_RS05890	0	0.0228	0
FQ762_RS05920	0.0033	0.0075	0.44234
FQ762_RS05940	0.0014	0.0083	0.16845
FQ762_RS06015	NA	NA	NA
FQ762_RS06050	0.0015	0.0245	0.06019
FQ762_RS06065	0	0	0
FQ762_RS06145	0	0	0
FQ762_RS06170	NA	NA	NA
FQ762_RS06335	NA	NA	NA
FQ762_RS06350	0	0.0042	0
FQ762_RS06365	0.0029	0.0158	0.18233
FQ762_RS06385	NA	NA	NA
FQ762_RS06480	NA	NA	NA
FQ762_RS06535	NA	NA	NA
FQ762_RS06545	0	0.0128	0

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS06555	NA	NA	NA
FQ762_RS06560	NA	NA	NA
FQ762_RS06625	0	0	0
FQ762_RS06650	NA	NA	NA
FQ762_RS06655	NA	NA	NA
FQ762_RS06865	NA	NA	NA
FQ762_RS06870	NA	NA	NA
FQ762_RS06900	0.0048	0	NA
FQ762_RS06915	NA	NA	NA
FQ762_RS06930	0	0.0266	0
FQ762_RS06935	0	0.0393	0
FQ762_RS06990	NA	NA	NA
FQ762_RS07000	NA	NA	NA
FQ762_RS07030	0	0.0205	0
FQ762_RS07070	NA	NA	NA
FQ762_RS07135	NA	NA	NA
FQ762_RS07145	NA	NA	NA
FQ762_RS07150	0	0	0
FQ762_RS07200	NA	NA	NA
FQ762_RS07300	0.003	0.0105	0.28622
FQ762_RS07390	NA	NA	NA
FQ762_RS07505	NA	NA	NA
FQ762_RS07510	NA	NA	NA
FQ762_RS07515	NA	NA	NA
FQ762_RS07530	NA	NA	NA
FQ762_RS07535	NA	NA	NA
FQ762_RS07555	NA	NA	NA
FQ762_RS07595	NA	NA	NA
FQ762_RS07645	NA	NA	NA
FQ762_RS07650	NA	NA	NA
FQ762_RS07655	NA	NA	NA
FQ762_RS07660	NA	NA	NA
FQ762_RS07665	NA	NA	NA
FQ762_RS07685	NA	NA	NA
FQ762_RS07690	NA	NA	NA
FQ762_RS07695	NA	NA	NA
FQ762_RS07720	0.0005	0.0374	0.01364
FQ762_RS07745	NA	NA	NA
FQ762_RS07750	0	0.0089	0
FQ762_RS07780	NA	NA	NA
FQ762_RS07805	0	0.0288	0
FQ762_RS07830	NA	NA	NA
FQ762_RS07835	NA	NA	NA
FQ762_RS07875	NA	NA	NA
FQ762_RS07885	NA	NA	NA
FQ762_RS07905	NA	NA	NA
FQ762_RS07910	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS07995	0	0	0
FQ762_RS08030	0.0022	0.0227	0.09556
FQ762_RS08040	NA	NA	NA
FQ762_RS08055	NA	NA	NA
FQ762_RS08130	0	0.0333	0
FQ762_RS08170	0.0034	0.0228	0.14995
FQ762_RS08215	NA	NA	NA
FQ762_RS08225	NA	NA	NA
FQ762_RS08315	NA	NA	NA
FQ762_RS08345	NA	NA	NA
FQ762_RS08355	NA	NA	NA
FQ762_RS08360	NA	NA	NA
FQ762_RS08430	0	0.0084	0
FQ762_RS08475	NA	NA	NA
FQ762_RS08485	0	0	0
FQ762_RS08500	0	0	0
FQ762_RS08505	NA	NA	NA
FQ762_RS08525	0.0058	0.1433	0.0403
FQ762_RS08530	NA	NA	NA
FQ762_RS08535	0	0	0
FQ762_RS08630	0	0.0275	0
FQ762_RS08680	NA	NA	NA
FQ762_RS08695	NA	NA	NA
FQ762_RS08705	NA	NA	NA
FQ762_RS08725	NA	NA	NA
FQ762_RS08745	NA	NA	NA
FQ762_RS08775	0.0043	0.0157	0.27479
FQ762_RS08785	0	0.0216	0
FQ762_RS08805	0.005	0.0151	0.32811
FQ762_RS08810	NA	NA	NA
FQ762_RS08865	0.0014	0	NA
FQ762_RS08870	0.002	0.0051	0.38989
FQ762_RS08880	0	0	0
FQ762_RS08950	NA	NA	NA
FQ762_RS08955	NA	NA	NA
FQ762_RS08980	0.0017	0.0126	0.13125
FQ762_RS09040	NA	NA	NA
FQ762_RS09075	NA	NA	NA
FQ762_RS09085	0	0.0171	0
FQ762_RS09160	NA	NA	NA
FQ762_RS09170	NA	NA	NA
FQ762_RS09185	NA	NA	NA
FQ762_RS09195	0.0035	0.0093	0.36986
FQ762_RS09200	0	0	0
FQ762_RS09210	NA	NA	NA
FQ762_RS09215	0.0064	0.0128	0.49931
FQ762_RS09225	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS09230	NA	NA	NA
FQ762_RS09240	NA	NA	NA
FQ762_RS09265	0.0008	0.0516	0.01511
FQ762_RS09280	0	0.063	0
FQ762_RS09315	0.0011	0	NA
FQ762_RS09400	NA	NA	NA
FQ762_RS09405	NA	NA	NA
FQ762_RS09410	0	0	0
FQ762_RS09535	NA	NA	NA
FQ762_RS09565	0	0	0
FQ762_RS09585	NA	NA	NA
FQ762_RS09615	NA	NA	NA
FQ762_RS09620	NA	NA	NA
FQ762_RS09630	NA	NA	NA
FQ762_RS09635	NA	NA	NA
FQ762_RS09650	NA	NA	NA
FQ762_RS09700	0	0	0
FQ762_RS09720	NA	NA	NA
FQ762_RS09810	NA	NA	NA
FQ762_RS09815	NA	NA	NA
FQ762_RS09820	NA	NA	NA
FQ762_RS09825	0	0	0
FQ762_RS09830	0	0	0
FQ762_RS09835	0	0.0056	0
FQ762_RS09880	0	0.0419	0
FQ762_RS09885	0	0.0273	0
FQ762_RS09890	0	0.0263	0
FQ762_RS09975	0.0011	0.0065	0.16452
FQ762_RS10075	NA	NA	NA
FQ762_RS10080	0	0	0
FQ762_RS10140	0.0022	0.0228	0.09766
FQ762_RS10210	NA	NA	NA
FQ762_RS10310	NA	NA	NA
FQ762_RS10340	0	0.112	0
FQ762_RS10380	0	0.095	0
FQ762_RS10425	NA	NA	NA
FQ762_RS10430	NA	NA	NA
FQ762_RS10485	NA	NA	NA
FQ762_RS10490	NA	NA	NA
FQ762_RS10525	NA	NA	NA
FQ762_RS10565	NA	NA	NA
FQ762_RS10570	0	0.0046	0
FQ762_RS10585	NA	NA	NA
FQ762_RS10590	NA	NA	NA
FQ762_RS10640	NA	NA	NA
FQ762_RS10645	NA	NA	NA
FQ762_RS10650	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS10655	NA	NA	NA
FQ762_RS10675	NA	NA	NA
FQ762_RS10680	NA	NA	NA
FQ762_RS10700	0	0.0126	0
FQ762_RS10735	NA	NA	NA
FQ762_RS10740	NA	NA	NA
FQ762_RS10745	NA	NA	NA
FQ762_RS10770	0	0.0333	0
FQ762_RS10805	0.0008	0.0061	0.125
FQ762_RS10850	0	0.0241	0
FQ762_RS10855	NA	NA	NA
FQ762_RS10860	NA	NA	NA
FQ762_RS10865	NA	NA	NA
FQ762_RS10870	NA	NA	NA
FQ762_RS10900	NA	NA	NA
FQ762_RS10910	NA	NA	NA
FQ762_RS10920	NA	NA	NA
FQ762_RS10925	0.0017	0.0062	0.26786
FQ762_RS10935	0	0	0
FQ762_RS11035	NA	NA	NA
FQ762_RS11055	NA	NA	NA
FQ762_RS11060	NA	NA	NA
FQ762_RS11065	NA	NA	NA
FQ762_RS11085	0.0012	0	NA
FQ762_RS11185	NA	NA	NA
FQ762_RS11190	0.0013	0.0373	0.03404
FQ762_RS11195	0.0035	0.008	0.43837
FQ762_RS11240	NA	NA	NA
FQ762_RS11285	0	0	0
FQ762_RS11315	0.0018	0.0153	0.11725
FQ762_RS11325	0.0007	0	NA
FQ762_RS11365	NA	NA	NA
FQ762_RS11450	0	0.1059	0
FQ762_RS11525	0	0.1019	0
FQ762_RS11575	0	0.0564	0
FQ762_RS11580	0	0.0462	0
FQ762_RS11605	0.0023	0.0297	0.07711
FQ762_RS11610	0.0011	0.0119	0.09329
FQ762_RS11615	0.0013	0	NA
FQ762_RS11620	0.0009	0	NA
FQ762_RS11715	NA	NA	NA
FQ762_RS11765	NA	NA	NA
FQ762_RS11770	0	0	0
FQ762_RS11805	NA	NA	NA
FQ762_RS11820	0	0.0196	0
FQ762_RS11825	0.0024	0.0115	0.21118
FQ762_RS11830	0	0.0118	0

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS11855	0	0.0238	0
FQ762_RS11870	0.0111	0.0664	0.16653
FQ762_RS11885	0.0041	0.0789	0.05173
FQ762_RS11915	0.0018	0.2062	0.00875
FQ762_RS11925	0.0031	0.0492	0.06338
FQ762_RS12015	0	0	0
FQ762_RS12045	0	0	0
FQ762_RS12105	NA	NA	NA
FQ762_RS12160	NA	NA	NA
FQ762_RS12230	NA	NA	NA
FQ762_RS12310	0	0.0046	0
FQ762_RS12315	0.0011	0.0156	0.06718
FQ762_RS12375	NA	NA	NA
FQ762_RS12435	NA	NA	NA
FQ762_RS12445	NA	NA	NA
FQ762_RS12455	0.0091	0.0138	0.65455
FQ762_RS12495	0	0	0
FQ762_RS12565	NA	NA	NA
FQ762_RS12605	0	0	0
FQ762_RS12635	0.0023	0.0095	0.23988
FQ762_RS12660	0	0.0381	0
FQ762_RS12730	0.0009	0.0221	0.04
FQ762_RS12785	NA	NA	NA
FQ762_RS12850	NA	NA	NA
FQ762_RS12855	NA	NA	NA
FQ762_RS12860	NA	NA	NA
FQ762_RS12870	0.0016	0.0316	0.04937
FQ762_RS12875	0	0.0369	0
FQ762_RS12880	0.0023	0	NA
FQ762_RS12985	NA	NA	NA
FQ762_RS13010	NA	NA	NA
FQ762_RS13020	NA	NA	NA
FQ762_RS13050	NA	NA	NA
FQ762_RS13080	NA	NA	NA
FQ762_RS13095	NA	NA	NA
FQ762_RS13145	NA	NA	NA
FQ762_RS13260	0.0005	0.0283	0.0174
FQ762_RS13270	0.0026	0.0174	0.14983
FQ762_RS13285	NA	NA	NA
FQ762_RS13325	NA	NA	NA
FQ762_RS13340	0.0008	0.004	0.19138
FQ762_RS13410	0	0.0377	0
FQ762_RS13425	NA	NA	NA
FQ762_RS13430	NA	NA	NA
FQ762_RS13445	NA	NA	NA
FQ762_RS13450	0.002	0.0191	0.10562
FQ762_RS13455	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS13460	NA	NA	NA
FQ762_RS13510	NA	NA	NA
FQ762_RS13520	0.0022	0.0147	0.14678
FQ762_RS13545	0.0009	0.0527	0.01761
FQ762_RS13570	NA	NA	NA
FQ762_RS13620	0.001	0.0156	0.06156
FQ762_RS13795	0	0	0
FQ762_RS13885	0.0043	0.0115	0.37156
FQ762_RS13960	NA	NA	NA
FQ762_RS13980	NA	NA	NA
FQ762_RS14000	0	0.1457	0
FQ762_RS14005	0.0005	0.0293	0.01628
FQ762_RS14035	NA	NA	NA
FQ762_RS14060	NA	NA	NA
FQ762_RS14085	0	0.0307	0
FQ762_RS14105	NA	NA	NA
FQ762_RS14115	0	0.0253	0
FQ762_RS14155	NA	NA	NA
FQ762_RS14260	0.0015	0.0678	0.02208
FQ762_RS14445	0	0.0044	0
FQ762_RS14470	NA	NA	NA
FQ762_RS14475	NA	NA	NA
FQ762_RS14520	0.0014	0.0169	0.08523
FQ762_RS14550	0.0012	0.0099	0.11633
FQ762_RS14565	NA	NA	NA
FQ762_RS14615	0	0.056	0
FQ762_RS14630	NA	NA	NA
FQ762_RS14680	0.0033	0.0263	0.12729
FQ762_RS14810	NA	NA	NA
FQ762_RS14840	NA	NA	NA
FQ762_RS14890	NA	NA	NA
FQ762_RS14945	NA	NA	NA
FQ762_RS14960	NA	NA	NA
FQ762_RS15010	NA	NA	NA
FQ762_RS15080	0.0011	0.0542	0.02034
FQ762_RS15110	NA	NA	NA
FQ762_RS15125	NA	NA	NA
FQ762_RS15135	0	0.0101	0
FQ762_RS15150	NA	NA	NA
FQ762_RS15180	NA	NA	NA
FQ762_RS15195	NA	NA	NA
FQ762_RS15200	NA	NA	NA
FQ762_RS15210	NA	NA	NA
FQ762_RS15240	NA	NA	NA
FQ762_RS15255	NA	NA	NA
FQ762_RS15275	NA	NA	NA
FQ762_RS15315	0.0034	0.026	0.13144

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS15320	0.0014	0.0297	0.04777
FQ762_RS15370	0	0.0174	0
FQ762_RS15375	0.0013	0.1701	0.00757
FQ762_RS15380	0.0005	0	NA
FQ762_RS15385	0.0013	0	NA
FQ762_RS15455	NA	NA	NA
FQ762_RS15560	NA	NA	NA
FQ762_RS15575	NA	NA	NA
FQ762_RS15595	NA	NA	NA
FQ762_RS15635	0	0	0
FQ762_RS15685	NA	NA	NA
FQ762_RS15690	0	0.0238	0
FQ762_RS15740	NA	NA	NA
FQ762_RS15750	0	0	0
FQ762_RS15775	NA	NA	NA
FQ762_RS15780	NA	NA	NA
FQ762_RS15790	NA	NA	NA
FQ762_RS15820	0	0.0294	0
FQ762_RS15890	0	0.0084	0
FQ762_RS15915	NA	NA	NA
FQ762_RS15950	NA	NA	NA
FQ762_RS15955	NA	NA	NA
FQ762_RS15960	NA	NA	NA
FQ762_RS15970	0.0033	0.0664	0.05033
FQ762_RS16135	0	0	0
FQ762_RS16245	NA	NA	NA
FQ762_RS16325	NA	NA	NA
FQ762_RS16370	NA	NA	NA
FQ762_RS16390	0	0.0244	0
FQ762_RS16430	0.001	0	NA
FQ762_RS16450	NA	NA	NA
FQ762_RS16495	NA	NA	NA
FQ762_RS16510	NA	NA	NA
FQ762_RS16830	0	0	0
FQ762_RS16915	0.0083	0.041	0.20147
FQ762_RS16920	0	0.0077	0
FQ762_RS16925	NA	NA	NA
FQ762_RS17030	NA	NA	NA
FQ762_RS17090	NA	NA	NA
FQ762_RS17095	NA	NA	NA
FQ762_RS17110	NA	NA	NA
FQ762_RS17195	NA	NA	NA
FQ762_RS17200	NA	NA	NA
FQ762_RS17215	NA	NA	NA
FQ762_RS17220	NA	NA	NA
FQ762_RS17300	NA	NA	NA
FQ762_RS17315	0.0027	0.0956	0.02789

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS17340	0	0.0141	0
FQ762_RS17360	0.0016	0.0602	0.02697
FQ762_RS17445	0.0022	0.0112	0.20042
FQ762_RS17460	NA	NA	NA
FQ762_RS17470	NA	NA	NA
FQ762_RS17480	NA	NA	NA
FQ762_RS17485	0	0	0
FQ762_RS17540	0	0	0
FQ762_RS17550	NA	NA	NA
FQ762_RS17615	NA	NA	NA
FQ762_RS17620	NA	NA	NA
FQ762_RS17625	NA	NA	NA
FQ762_RS17630	NA	NA	NA
FQ762_RS17650	NA	NA	NA
FQ762_RS18110	0.0195	0.3715	0.100995
FQ762_RS18115	0.00575	0.3498	0.017295
FQ762_RS18165	0.032	0.1919	0.16704
FQ762_RS18250	NA	NA	NA
FQ762_RS18275	NA	NA	NA
FQ762_RS18280	NA	NA	NA
FQ762_RS18285	NA	NA	NA
FQ762_RS18290	NA	NA	NA
FQ762_RS18305	NA	NA	NA
FQ762_RS18310	NA	NA	NA
FQ762_RS18325	NA	NA	NA
FQ762_RS18335	0	0	0
FQ762_RS18345	0	0	0
FQ762_RS18350	NA	NA	NA
FQ762_RS18355	0.00025	0.0021	0.061025
FQ762_RS18420	NA	NA	NA
FQ762_RS18430	NA	NA	NA
FQ762_RS18470	0	0.0972	0
FQ762_RS18510	NA	NA	NA
FQ762_RS18520	0.0035	0.0517	0.06798
FQ762_RS18525	0.004	0.0485	0.08205
FQ762_RS18530	0.0074	0.016	0.46352
FQ762_RS18535	0.0034	0.043	0.07947
FQ762_RS18540	0.0059	0.0521	0.11298
FQ762_RS18555	NA	NA	NA
FQ762_RS18580	NA	NA	NA
FQ762_RS18585	0	0	0
FQ762_RS18610	NA	NA	NA
FQ762_RS18630	NA	NA	NA
FQ762_RS18655	NA	NA	NA
FQ762_RS18700	NA	NA	NA
FQ762_RS18710	0.0025	0.0194	0.12849
FQ762_RS18755	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS18815	NA	NA	NA
FQ762_RS18895	NA	NA	NA
FQ762_RS18930	0	0.0116	0
FQ762_RS18945	0.0011	0.0064	0.17817
FQ762_RS18975	0	0.0089	0
FQ762_RS19000	NA	NA	NA
FQ762_RS19065	NA	NA	NA
FQ762_RS19075	0.0025	0	NA
FQ762_RS19155	NA	NA	NA
FQ762_RS19160	NA	NA	NA
FQ762_RS19195	NA	NA	NA
FQ762_RS19205	0	0	0
FQ762_RS19300	NA	NA	NA
FQ762_RS19345	NA	NA	NA
FQ762_RS19385	NA	NA	NA
FQ762_RS19410	0	0	0
FQ762_RS19485	NA	NA	NA
FQ762_RS19500	NA	NA	NA
FQ762_RS19530	0	0.0401	0
FQ762_RS19535	0	0.0385	0
FQ762_RS19540	0	0	0
FQ762_RS19550	NA	NA	NA
FQ762_RS19555	NA	NA	NA
FQ762_RS19560	0	0.0378	0
FQ762_RS19565	NA	NA	NA
FQ762_RS19575	NA	NA	NA
FQ762_RS19580	0	0.1063	0
FQ762_RS19595	NA	NA	NA
FQ762_RS19600	0.0036	0	NA
FQ762_RS19615	NA	NA	NA
FQ762_RS19620	0.0013	0	NA
FQ762_RS19625	NA	NA	NA
FQ762_RS19630	NA	NA	NA
FQ762_RS19650	0.0077	0.0055	1.41515
FQ762_RS19665	NA	NA	NA
FQ762_RS19710	0	0.018	0
FQ762_RS19810	0	0	0
FQ762_RS19815	0.0007	0.0085	0.0835
FQ762_RS19820	0.0146	0.0348	0.41989
FQ762_RS19850	NA	NA	NA
FQ762_RS19855	NA	NA	NA
FQ762_RS19920	0.0015	0.0186	0.08043
FQ762_RS19925	0.0043	0.0261	0.16618
FQ762_RS19990	NA	NA	NA
FQ762_RS20015	NA	NA	NA
FQ762_RS20020	0	0	0
FQ762_RS20105	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS20110	NA	NA	NA
FQ762_RS20185	NA	NA	NA
FQ762_RS20190	NA	NA	NA
FQ762_RS20195	0.0018	0.0244	0.07582
FQ762_RS20200	0	0.0945	0
FQ762_RS20205	NA	NA	NA
FQ762_RS20210	NA	NA	NA
FQ762_RS20215	NA	NA	NA
FQ762_RS20220	NA	NA	NA
FQ762_RS20225	NA	NA	NA
FQ762_RS20230	NA	NA	NA
FQ762_RS20245	0	0.0127	0
FQ762_RS20250	0	0.02	0
FQ762_RS20260	0.0007	0.0314	0.02268
FQ762_RS20310	0	0.1774	0
FQ762_RS20315	0.0016	0.0092	0.17873
FQ762_RS20405	0	0	0
FQ762_RS20410	0	0.0085	0
FQ762_RS20435	NA	NA	NA
FQ762_RS20495	NA	NA	NA
FQ762_RS20505	0.0007	0.0281	0.02587
FQ762_RS20510	NA	NA	NA
FQ762_RS20665	0.0018	0	NA
FQ762_RS20670	NA	NA	NA
FQ762_RS20830	NA	NA	NA
FQ762_RS20850	NA	NA	NA
FQ762_RS20865	NA	NA	NA
FQ762_RS20925	NA	NA	NA
FQ762_RS20995	0	0.0725	0
FQ762_RS21065	0	0.0879	0
FQ762_RS21080	0	0	0
FQ762_RS21095	0	0	0
FQ762_RS21110	NA	NA	NA
FQ762_RS21215	NA	NA	NA
FQ762_RS21260	NA	NA	NA
FQ762_RS21265	NA	NA	NA
FQ762_RS21270	0	0	0
FQ762_RS21315	NA	NA	NA
FQ762_RS21345	NA	NA	NA
FQ762_RS21360	NA	NA	NA
FQ762_RS21395	0	0.0283	0
FQ762_RS21415	0	0	0
FQ762_RS21420	0.0011	0.0103	0.1092
FQ762_RS21455	NA	NA	NA
FQ762_RS21470	0	0.0046	0
FQ762_RS21535	0	0.0297	0
FQ762_RS21595	0	0.0149	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS21700	0.0033	0.0308	0.10808
FQ762_RS21715	0.0017	0.0521	0.03191
FQ762_RS21755	NA	NA	NA
FQ762_RS21840	NA	NA	NA
FQ762_RS21845	NA	NA	NA
FQ762_RS21860	NA	NA	NA
FQ762_RS21865	NA	NA	NA
FQ762_RS21905	0	0	0
FQ762_RS21915	0	0	0
FQ762_RS21920	0.0022	0	NA
FQ762_RS21925	0.0016	0	NA
FQ762_RS21930	0.0011	0.0338	0.03375
FQ762_RS21940	NA	NA	NA
FQ762_RS21985	NA	NA	NA
FQ762_RS22015	NA	NA	NA
FQ762_RS22025	0.0004	0.0118	0.03535
FQ762_RS22115	0	0	0
FQ762_RS22145	0	0.1053	0
FQ762_RS22150	NA	NA	NA
FQ762_RS22155	NA	NA	NA
FQ762_RS22160	0.0007	0.0281	0.02318
FQ762_RS22165	0.00065	0	NA
FQ762_RS22185	0.0008	0.0617	0.01367
FQ762_RS22190	0.0048	0	NA
FQ762_RS22280	NA	NA	NA
FQ762_RS22360	NA	NA	NA
FQ762_RS22365	0.0036	0.0064	0.56784
FQ762_RS22370	0.0018	0.034	0.05427
FQ762_RS22565	0	0.0083	0
FQ762_RS22570	0.001	0.0176	0.05537
FQ762_RS22590	NA	NA	NA
FQ762_RS22595	0.0008	0.0232	0.03315
FQ762_RS22605	0.0025	0.0235	0.10798
FQ762_RS22660	0.0007	0.0382	0.01776
FQ762_RS22665	0	0.0057	0
FQ762_RS22680	0.002	0.0124	0.16255
FQ762_RS22760	0.0067	0.0136	0.49617
FQ762_RS22765	0.0031	0.0038	0.7954
FQ762_RS22770	NA	NA	NA
FQ762_RS22780	0	0.0002	0
FQ762_RS22815	0	0	0
FQ762_RS22865	0	0.0203	0
FQ762_RS22955	0	0.0045	0
FQ762_RS23025	NA	NA	NA
FQ762_RS23030	NA	NA	NA
FQ762_RS23085	0	0	0
FQ762_RS23135	0	0.0099	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS23140	0.0008	0.0611	0.01371
FQ762_RS23170	NA	NA	NA
FQ762_RS23190	0.0055	0.0292	0.266145
FQ762_RS23215	0	0	0
FQ762_RS23300	0	0.0194	0
FQ762_RS23350	NA	NA	NA
FQ762_RS23405	0.0091	0.0071	1.28609
FQ762_RS23420	0	0.0138	0
FQ762_RS23445	0	0.0136	0
FQ762_RS23490	NA	NA	NA
FQ762_RS23630	0	0.0063	0
FQ762_RS23665	0	0.0553	0
FQ762_RS23670	0	0.0476	0
FQ762_RS23675	NA	NA	NA
FQ762_RS23725	0.0026	0.0066	0.39611
FQ762_RS23735	0.0017	0.0198	0.08426
FQ762_RS23740	NA	NA	NA
FQ762_RS23745	NA	NA	NA
FQ762_RS23750	0	0.0217	0
FQ762_RS23755	NA	NA	NA
FQ762_RS23760	NA	NA	NA
FQ762_RS23765	NA	NA	NA
FQ762_RS23835	0.0007	0.1133	0.00604
FQ762_RS23865	NA	NA	NA
FQ762_RS24070	0	0.0296	0
FQ762_RS24075	0	0.0353	0
FQ762_RS24080	0	0	0
FQ762_RS24085	0	0	0
FQ762_RS24090	0	0	0
FQ762_RS24125	0.0065	0	NA
FQ762_RS24135	0	0.004	0
FQ762_RS24165	0.0009	0.0201	0.04384
FQ762_RS24180	NA	NA	NA
FQ762_RS24195	NA	NA	NA
FQ762_RS24210	NA	NA	NA
FQ762_RS24230	NA	NA	NA
FQ762_RS24235	0	0	0
FQ762_RS24255	0.0092	0.1578	0.05842
FQ762_RS24270	NA	NA	NA
FQ762_RS24275	0.0078	0.166	0.04703
FQ762_RS24330	0	0.0101	0
FQ762_RS24375	0	0	0
FQ762_RS24450	0.00565	0.04135	0.068255
FQ762_RS24455	0.0025	0	NA
FQ762_RS24470	0	0.0173	0
FQ762_RS24510	0	0.0223	0
FQ762_RS24520	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS24540	NA	NA	NA
FQ762_RS24560	0	0.0508	0
FQ762_RS24590	0	0	0
FQ762_RS24615	0	0	0
FQ762_RS24640	0	0	0
FQ762_RS24660	NA	NA	NA
FQ762_RS24670	NA	NA	NA
FQ762_RS24690	0	0.0322	0
FQ762_RS24730	0.0016	0.0643	0.02529
FQ762_RS24740	0	0.0292	0
FQ762_RS24795	0	0.013	0
FQ762_RS24870	0.0096	0.0095	1.01129
FQ762_RS24920	NA	NA	NA
FQ762_RS24945	NA	NA	NA
FQ762_RS24990	0	0	0
FQ762_RS25105	NA	NA	NA
FQ762_RS25200	0	0.0693	0
FQ762_RS25205	NA	NA	NA
FQ762_RS25220	0.0012	0.0421	0.02832
FQ762_RS25265	0.0048	0.0738	0.06461
FQ762_RS25405	NA	NA	NA
FQ762_RS25435	NA	NA	NA
FQ762_RS25440	NA	NA	NA
FQ762_RS25480	NA	NA	NA
FQ762_RS25565	0.0034	0.0306	0.11132
FQ762_RS25635	NA	NA	NA
FQ762_RS25640	0.0051	0.0124	0.41271
FQ762_RS25645	NA	NA	NA
FQ762_RS25650	NA	NA	NA
FQ762_RS25655	NA	NA	NA
FQ762_RS25660	0.0009	0	NA
FQ762_RS25665	0.0012	0.0073	0.16052
FQ762_RS25680	NA	NA	NA
FQ762_RS25685	0	0	0
FQ762_RS25690	0	0.0272	0
FQ762_RS25775	0.0026	0.0112	0.23651
FQ762_RS25840	NA	NA	NA
FQ762_RS25845	0.0077	0.0233	0.32997
FQ762_RS25905	0.0023	0.1004	0.02277
FQ762_RS25935	NA	NA	NA
FQ762_RS25955	0	0.0148	0
FQ762_RS26005	0	0	0
FQ762_RS26010	0	0.0036	0
FQ762_RS26020	NA	NA	NA
FQ762_RS26105	0	0.038	0
FQ762_RS26110	NA	NA	NA
FQ762_RS26185	0.0017	0.0193	0.0862

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS26200	0.0059	0.026	0.22531
FQ762_RS26215	NA	NA	NA
FQ762_RS26320	0.0013	0.0095	0.13578
FQ762_RS26325	0	0	0
FQ762_RS26330	NA	NA	NA
FQ762_RS26340	0	0.0206	0
FQ762_RS26355	0.0037	0.0169	0.21764
FQ762_RS26435	0	0.0196	0
FQ762_RS26450	0	0.0246	0
FQ762_RS26525	0.0019	0	NA
FQ762_RS26550	0	0.034	0
FQ762_RS26585	0	0	0
FQ762_RS26635	NA	NA	NA
FQ762_RS26665	0.0019	0.018	0.10468
FQ762_RS26680	0	0.0067	0
FQ762_RS26720	NA	NA	NA
FQ762_RS26725	NA	NA	NA
FQ762_RS26740	0.001	0	NA
FQ762_RS26760	0.0022	0.0367	0.05877
FQ762_RS26825	0.0042	0	NA
FQ762_RS26895	0	0	0
FQ762_RS26945	NA	NA	NA
FQ762_RS26965	0.0015	0.0266	0.05471
FQ762_RS27005	0.0011	0.0057	0.19738
FQ762_RS27010	0.0017	0.0182	0.09587
FQ762_RS27140	0	0.0122	0
FQ762_RS27225	0.0021	0.0122	0.17177
FQ762_RS27230	NA	NA	NA
FQ762_RS27275	0.0349	0.0493	0.70851
FQ762_RS27350	NA	NA	NA
FQ762_RS27360	0	0	0
FQ762_RS27375	0	0.0563	0
FQ762_RS27380	NA	NA	NA
FQ762_RS27405	NA	NA	NA
FQ762_RS27425	NA	NA	NA
FQ762_RS27515	0.0013	0.0614	0.0218
FQ762_RS27710	0	0	0
FQ762_RS27775	0	0	0
FQ762_RS27820	NA	NA	NA
FQ762_RS27825	NA	NA	NA
FQ762_RS27845	0	0	0
FQ762_RS27890	NA	NA	NA
FQ762_RS27930	0	0	0
FQ762_RS27960	0.0032	0.0429	0.0742
FQ762_RS27990	0	0	0
FQ762_RS27995	0.0006	0.041	0.01544
FQ762_RS28000	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS28005	0.0034	0.0423	0.08052
FQ762_RS28025	0.0075	0.0194	0.38735
FQ762_RS28035	0.006	0	NA
FQ762_RS28145	NA	NA	NA
FQ762_RS28150	0.0017	0.0315	0.05359
FQ762_RS28155	NA	NA	NA
FQ762_RS28175	NA	NA	NA
FQ762_RS28205	0.0017	0.0242	0.06968
FQ762_RS28255	0	0.0536	0
FQ762_RS28275	NA	NA	NA
FQ762_RS28310	0	0	0
FQ762_RS28330	0.00435	0.00635	NA
FQ762_RS28335	0	0.0955	0
FQ762_RS28355	0	0.0643	0
FQ762_RS28360	0.0009	0.0251	0.03671
FQ762_RS28370	0	0	0
FQ762_RS28380	NA	NA	NA
FQ762_RS28390	0	0	0
FQ762_RS28395	0.0012	0.0162	0.07218
FQ762_RS28405	0.0005	0.0282	0.01766
FQ762_RS28425	0	0	0
FQ762_RS28445	0	0	0
FQ762_RS28510	NA	NA	NA
FQ762_RS28570	0	0.074	0
FQ762_RS28710	0.0037	0	NA
FQ762_RS28740	NA	NA	NA
FQ762_RS28755	0.0012	0	NA
FQ762_RS28890	0.0016	0.0859	0.01829
FQ762_RS28920	NA	NA	NA
FQ762_RS28965	0	0	0
FQ762_RS28975	0	0	0
FQ762_RS29085	0	0.0473	0
FQ762_RS29230	NA	NA	NA
FQ762_RS29285	0.0017	0.0133	0.12705
FQ762_RS29345	0.0015	0.0333	0.04429
FQ762_RS29350	NA	NA	NA
FQ762_RS29365	0.0052	0.0929	0.05548
FQ762_RS29395	NA	NA	NA
FQ762_RS29460	0	0.0471	0
FQ762_RS29465	0	0	0
FQ762_RS29495	0	0.0542	0
FQ762_RS29505	0	0.0258	0
FQ762_RS29560	NA	NA	NA
FQ762_RS29575	NA	NA	NA
FQ762_RS29650	NA	NA	NA
FQ762_RS29695	0.0014	0.1483	0.00966
FQ762_RS29730	0.0018	0.0367	0.05003

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS29760	0	0.0377	0
FQ762_RS29815	NA	NA	NA
FQ762_RS29925	NA	NA	NA
FQ762_RS29930	NA	NA	NA
FQ762_RS29940	0	0.019	0
FQ762_RS29945	NA	NA	NA
FQ762_RS30005	NA	NA	NA
FQ762_RS30025	0.0011	0.0456	0.0241
FQ762_RS30035	0	0.0347	0
FQ762_RS30075	0	0.0349	0
FQ762_RS30155	0.0014	0.01725	0.039985
FQ762_RS30210	0	0	0
FQ762_RS30225	0	0.00725	0
FQ762_RS30230	0.0016	0.0382	0.04275
FQ762_RS30250	0	0	0
FQ762_RS30315	0.0077	0.0141	0.5438
FQ762_RS30375	0	0	0
FQ762_RS30380	0	0.0592	0
FQ762_RS30685	NA	NA	NA
FQ762_RS30795	0	0.0368	0
FQ762_RS30810	0.0005	0.0307	0.01509
FQ762_RS30835	NA	NA	NA
FQ762_RS30920	0	0.0166	0
FQ762_RS30935	NA	NA	NA
FQ762_RS31060	NA	NA	NA
FQ762_RS31100	0	0.0093	0
FQ762_RS31120	0	0.0043	0
FQ762_RS31140	0.0012	0.0264	0.04412
FQ762_RS31145	0	0.0318	0
FQ762_RS31170	0	0.0231	0
FQ762_RS31190	NA	NA	NA
FQ762_RS31230	0.0019	0.0378	0.04984
FQ762_RS31260	0	0.0524	0
FQ762_RS31270	NA	NA	NA
FQ762_RS31275	NA	NA	NA
FQ762_RS31315	NA	NA	NA
FQ762_RS31320	NA	NA	NA
FQ762_RS31325	NA	NA	NA
FQ762_RS31330	NA	NA	NA
FQ762_RS31335	NA	NA	NA
FQ762_RS31350	0.0008	0.0084	0.09406
FQ762_RS31355	0	0	0
FQ762_RS31360	0.0009	0.0868	0.01082
FQ762_RS31370	0.0017	0.018	0.09248
FQ762_RS31400	NA	NA	NA
FQ762_RS31425	NA	NA	NA
FQ762_RS31435	0.0038	0.0214	0.17568

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS31520	NA	NA	NA
FQ762_RS31535	NA	NA	NA
FQ762_RS31605	NA	NA	NA
FQ762_RS31705	NA	NA	NA
FQ762_RS31715	NA	NA	NA
FQ762_RS31725	NA	NA	NA
FQ762_RS31785	0	0.0068	0
FQ762_RS31835	0.0006	0.0789	0.00771
FQ762_RS31945	NA	NA	NA
FQ762_RS31985	0.0012	0.0273	0.04269
FQ762_RS32025	0.001	0.0083	0.12342
FQ762_RS32055	0.0003	0.0145	0.0238
FQ762_RS32060	0.0015	0.0135	0.11196
FQ762_RS32160	0.0003	0.0198	0.01569
FQ762_RS32165	0.0002	0.0253	0.00638
FQ762_RS32170	0	0.1264	0
FQ762_RS32175	NA	NA	NA
FQ762_RS32205	0.0098	0.2564	0.03838
FQ762_RS32220	NA	NA	NA
FQ762_RS32235	0.0077	0.0566	0.13583
FQ762_RS32245	NA	NA	NA
FQ762_RS32265	NA	NA	NA
FQ762_RS32290	0	0.015	0
FQ762_RS32300	0	0.0255	0
FQ762_RS32320	0.004	0.0197	0.20364
FQ762_RS32355	0	0.0564	0
FQ762_RS32360	0	0.0111	0
FQ762_RS32365	0	0.0895	0
FQ762_RS32370	0	0.0364	0
FQ762_RS32375	0.0132	0.0161	0.81504
FQ762_RS32405	NA	NA	NA
FQ762_RS32565	NA	NA	NA
FQ762_RS32575	0.0148	0.0348	0.4242
FQ762_RS32610	0.0084	0.0667	0.12594
FQ762_RS32720	0.0397	0.6872	0.05779
FQ762_RS32740	NA	NA	NA
FQ762_RS32765	0	0	0
FQ762_RS32785	NA	NA	NA
FQ762_RS33120	NA	NA	NA
FQ762_RS33125	0	0	0
FQ762_RS33165	NA	NA	NA
FQ762_RS33290	0.001	0.0243	0.04261
FQ762_RS33345	0.0118	0.1712	0.06897
FQ762_RS33350	0.0206	0.0939	0.21935
FQ762_RS33355	0	0	0
FQ762_RS33415	NA	NA	NA
FQ762_RS33420	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS33470	NA	NA	NA
FQ762_RS33475	NA	NA	NA
FQ762_RS33500	0.0026	0.0466	0.05677
FQ762_RS33525	0.0036	0.0613	0.05827
FQ762_RS33530	0	0.0819	0
FQ762_RS33575	0	0	0
FQ762_RS33580	0	0.0155	0
FQ762_RS33585	0	0.0408	0
FQ762_RS33630	NA	NA	NA
FQ762_RS33645	NA	NA	NA
FQ762_RS33725	0.001	0.0338	0.03007
FQ762_RS33730	0.0063	0.0123	0.50885
FQ762_RS33735	0	0	0
FQ762_RS33740	NA	NA	NA
FQ762_RS33750	NA	NA	NA
FQ762_RS33785	0	0.0573	0
FQ762_RS33795	NA	NA	NA
FQ762_RS33800	0.0066	0.0652	0.10081
FQ762_RS33810	NA	NA	NA
FQ762_RS33835	NA	NA	NA
FQ762_RS33845	NA	NA	NA
FQ762_RS33885	NA	NA	NA
FQ762_RS33895	0	0	0
FQ762_RS33900	0.0011	0	NA
FQ762_RS33965	0.0027	0.0248	0.10748
FQ762_RS33970	0.0009	0.0446	0.02009
FQ762_RS34010	0.0048	0.1018	0.04681
FQ762_RS34015	0.0096	0.0995	0.09616
FQ762_RS34045	NA	NA	NA
FQ762_RS34055	NA	NA	NA
FQ762_RS34075	0	0.0601	0
FQ762_RS34085	NA	NA	NA
FQ762_RS34090	0	0	0
FQ762_RS34115	NA	NA	NA
FQ762_RS34180	NA	NA	NA
FQ762_RS34185	0	0.038	0
FQ762_RS34300	0.006	0.1752	0.03403
FQ762_RS34310	0.00115	0.0192	0.068365
FQ762_RS34360	0.0051	0.03	0.16962
FQ762_RS34375	NA	NA	NA
FQ762_RS34395	NA	NA	NA
FQ762_RS34400	NA	NA	NA
FQ762_RS34425	NA	NA	NA
FQ762_RS34440	NA	NA	NA
FQ762_RS34465	0	0	0
FQ762_RS34475	NA	NA	NA
FQ762_RS34485	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS34510	NA	NA	NA
FQ762_RS34610	NA	NA	NA
FQ762_RS34620	NA	NA	NA
FQ762_RS34660	NA	NA	NA
FQ762_RS34765	0.0008	0.0103	0.07715
FQ762_RS34885	0	0.0558	0
FQ762_RS34890	0	0.0603	0
FQ762_RS34915	0	0.0844	0
FQ762_RS34920	0.0011	0.0227	0.04697
FQ762_RS34940	0.0028	0.0338	0.08344
FQ762_RS34950	0.0021	0	NA
FQ762_RS34970	0	0	0
FQ762_RS34985	NA	NA	NA
FQ762_RS34990	NA	NA	NA
FQ762_RS35070	0.0056	0.0247	0.22756
FQ762_RS35075	0	0	0
FQ762_RS35905	0.0004	0.08045	0.01767
FQ762_RS36030	0.0011	0	NA
FQ762_RS36040	0	0.0177	0
FQ762_RS36075	NA	NA	NA
FQ762_RS36125	0	0.0278	0
FQ762_RS36140	NA	NA	NA
FQ762_RS36160	NA	NA	NA
FQ762_RS36180	0.0026	0.0241	0.10662
FQ762_RS36235	NA	NA	NA
FQ762_RS36240	0.0061	0.0114	0.5335
FQ762_RS36315	NA	NA	NA
FQ762_RS36320	0	0.1018	0
FQ762_RS36325	0.0009	0	NA
FQ762_RS36330	0	0	0
FQ762_RS36335	0.001	0.0054	0.18402
FQ762_RS36430	0	0.0068	0
FQ762_RS36435	NA	NA	NA
FQ762_RS36440	NA	NA	NA
FQ762_RS36490	0	0.0408	0
FQ762_RS36585	NA	NA	NA
FQ762_RS36690	NA	NA	NA
FQ762_RS36725	NA	NA	NA
FQ762_RS36780	NA	NA	NA
FQ762_RS36805	NA	NA	NA
FQ762_RS36880	0.0004	0.0174	0.02418
FQ762_RS36885	0	0.0231	0
FQ762_RS36965	0.0053	0.0124	0.42836
FQ762_RS37075	0.0075	0.0127	0.58784
FQ762_RS37080	0.0026	0.0319	0.08213
FQ762_RS37105	NA	NA	NA
FQ762_RS37110	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS37115	0.0028	0.0271	0.10196
FQ762_RS37125	0.0022	0.02	0.11024
FQ762_RS37225	0	0.0238	0
FQ762_RS37230	NA	NA	NA
FQ762_RS37235	NA	NA	NA
FQ762_RS37255	NA	NA	NA
FQ762_RS37260	0.0022	0.0112	0.19709
FQ762_RS37265	0.0063	0.0493	0.12805
FQ762_RS37395	NA	NA	NA
FQ762_RS37400	0.0008	0.0046	0.16992
FQ762_RS37405	0.0066	0.0155	0.42436
FQ762_RS37460	NA	NA	NA
FQ762_RS37475	0.0012	0.0105	0.11077
FQ762_RS37480	NA	NA	NA
FQ762_RS37670	NA	NA	NA
FQ762_RS37675	0	0.0326	0
FQ762_RS37685	NA	NA	NA
FQ762_RS37700	0.0026	0.0607	0.04298
FQ762_RS37710	NA	NA	NA
FQ762_RS37730	NA	NA	NA
FQ762_RS37740	NA	NA	NA
FQ762_RS37780	NA	NA	NA
FQ762_RS37795	NA	NA	NA
FQ762_RS37825	NA	NA	NA
FQ762_RS37855	NA	NA	NA
FQ762_RS37860	NA	NA	NA
FQ762_RS37885	NA	NA	NA
FQ762_RS38060	NA	NA	NA
FQ762_RS38065	NA	NA	NA
FQ762_RS38125	0	0.0366	0
FQ762_RS38170	NA	NA	NA
FQ762_RS38195	NA	NA	NA
FQ762_RS38210	NA	NA	NA
FQ762_RS38220	NA	NA	NA
FQ762_RS38235	NA	NA	NA
FQ762_RS38255	0.0143	0.2277	0.06286
FQ762_RS38275	NA	NA	NA
FQ762_RS38295	NA	NA	NA
FQ762_RS38300	NA	NA	NA
FQ762_RS38305	NA	NA	NA
FQ762_RS38310	0	0.0281	0
FQ762_RS38315	0.0026	0.0336	0.077
FQ762_RS38320	NA	NA	NA
FQ762_RS38325	0.0056	0.0367	0.15238
FQ762_RS38330	0	0.0196	0
FQ762_RS38335	NA	NA	NA
FQ762_RS38355	0	0.0503	0

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS38360	0	0.035	0
FQ762_RS38365	NA	NA	NA
FQ762_RS38405	0	0.0433	0
FQ762_RS38415	0.0067	0.0155	0.43157
FQ762_RS38435	0	0	0
FQ762_RS38440	0.0019	0	NA
FQ762_RS38450	NA	NA	NA
FQ762_RS38455	NA	NA	NA
FQ762_RS38460	0.0033	0.0178	0.18486
FQ762_RS38480	0	0	0
FQ762_RS38485	NA	NA	NA
FQ762_RS38490	0	0	0
FQ762_RS38495	NA	NA	NA
FQ762_RS38505	0	0	0
FQ762_RS38510	0	0	0
FQ762_RS38515	0	0	0
FQ762_RS38565	0	0.0242	0
FQ762_RS38575	NA	NA	NA
FQ762_RS38605	NA	NA	NA
FQ762_RS38610	0.0058	0.0386	0.15094
FQ762_RS38625	NA	NA	NA
FQ762_RS38635	NA	NA	NA
FQ762_RS38655	0.0026	0.0359	0.07144
FQ762_RS38695	NA	NA	NA
FQ762_RS38705	0.0029	0.0444	0.06604
FQ762_RS38710	NA	NA	NA
FQ762_RS38725	0.0026	0.0372	0.06864
FQ762_RS38730	0	0.0155	0
FQ762_RS38735	NA	NA	NA
FQ762_RS38740	NA	NA	NA
FQ762_RS38745	NA	NA	NA
FQ762_RS38750	NA	NA	NA
FQ762_RS38755	NA	NA	NA
FQ762_RS38760	NA	NA	NA
FQ762_RS38765	NA	NA	NA
FQ762_RS38770	0	0.024	0
FQ762_RS38775	0.0063	0	NA
FQ762_RS38780	0	0.0108	0
FQ762_RS38790	NA	NA	NA
FQ762_RS38795	NA	NA	NA
FQ762_RS38800	NA	NA	NA
FQ762_RS38805	NA	NA	NA
FQ762_RS38810	NA	NA	NA
FQ762_RS38815	0.0004	0.0436	0.00975
FQ762_RS38820	0	0.0923	0
FQ762_RS38825	0.0005	0.0308	0.01471
FQ762_RS38835	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS38840	0.0026	0.0662	0.03984
FQ762_RS38850	NA	NA	NA
FQ762_RS38860	NA	NA	NA
FQ762_RS38865	0	0.0215	0
FQ762_RS38870	0.0012	0.014	0.042005
FQ762_RS38875	0.0038	0.1169	0.03216
FQ762_RS38880	0.001	0.0625	0.01577
FQ762_RS38885	NA	NA	NA
FQ762_RS38890	0	0	0
FQ762_RS38895	NA	NA	NA
FQ762_RS38900	NA	NA	NA
FQ762_RS38905	NA	NA	NA
FQ762_RS38910	NA	NA	NA
FQ762_RS38915	0	0.004	0
FQ762_RS38920	0	0.0071	0
FQ762_RS38925	0	0.0912	0
FQ762_RS38930	0.0011	0.044	0.02427
FQ762_RS38935	0.0014	0.0556	0.02602
FQ762_RS38940	0.0036	0.0617	0.05817
FQ762_RS38945	NA	NA	NA
FQ762_RS38950	NA	NA	NA
FQ762_RS38960	NA	NA	NA
FQ762_RS38975	NA	NA	NA
FQ762_RS38980	0	0.0229	0
FQ762_RS38985	0	0.0002	0
FQ762_RS38990	0	0	0
FQ762_RS38995	0.0007	0.028	0.02621
FQ762_RS39000	NA	NA	NA
FQ762_RS39005	NA	NA	NA
FQ762_RS39010	NA	NA	NA
FQ762_RS39015	NA	NA	NA
FQ762_RS39020	0	0.0317	0
FQ762_RS39025	0.0011	0.0106	0.10811
FQ762_RS39030	0.0012	0.026	0.0454
FQ762_RS39035	0.0013	0.0155	0.08256
FQ762_RS39040	0	0	0
FQ762_RS39050	0.0043	0	NA
FQ762_RS39055	0	0.0174	0
FQ762_RS39060	0.0119	0.0675	0.17677
FQ762_RS39065	0.0008	0.0227	0.03402
FQ762_RS39070	NA	NA	NA
FQ762_RS39080	NA	NA	NA
FQ762_RS39085	NA	NA	NA
FQ762_RS39090	0.003	0.0402	0.07358
FQ762_RS39095	NA	NA	NA
FQ762_RS39100	0	0.0273	0
FQ762_RS39105	0.0027	0.0267	0.10303

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS39110	NA	NA	NA
FQ762_RS39115	NA	NA	NA
FQ762_RS39125	NA	NA	NA
FQ762_RS39130	NA	NA	NA
FQ762_RS39135	0	0.0056	0
FQ762_RS39140	0.0027	0.0145	0.18871
FQ762_RS39145	NA	NA	NA
FQ762_RS39150	NA	NA	NA
FQ762_RS39155	NA	NA	NA
FQ762_RS39160	NA	NA	NA
FQ762_RS39165	0	0	0
FQ762_RS39170	0	0	0
FQ762_RS39175	0	0.0201	0
FQ762_RS39180	NA	NA	NA
FQ762_RS39185	NA	NA	NA
FQ762_RS39190	NA	NA	NA
FQ762_RS39200	0.0012	0.0296	0.04097
FQ762_RS39205	NA	NA	NA
FQ762_RS39210	NA	NA	NA
FQ762_RS39215	0	0.0215	0
FQ762_RS39220	NA	NA	NA
FQ762_RS39225	0.0014	0.0244	0.05617
FQ762_RS39230	NA	NA	NA
FQ762_RS39235	0.0053	0.0448	0.11869
FQ762_RS39240	NA	NA	NA
FQ762_RS39245	0	0	0
FQ762_RS39250	NA	NA	NA
FQ762_RS39255	0	0.027	0
FQ762_RS39260	0	0.0147	0
FQ762_RS39265	NA	NA	NA
FQ762_RS39275	NA	NA	NA
FQ762_RS39280	0.00135	0.03465	0.03604
FQ762_RS39290	0	0	0
FQ762_RS39295	0	0.0306	0
FQ762_RS39300	0	0	0
FQ762_RS39305	0	0	0
FQ762_RS39310	0	0.0298	0
FQ762_RS39315	NA	NA	NA
FQ762_RS39325	NA	NA	NA
FQ762_RS39330	0.0011	0.0058	0.18481
FQ762_RS39335	NA	NA	NA
FQ762_RS39340	0.0021	0	NA
FQ762_RS39345	0.0019	0.0494	0.03891
FQ762_RS39350	0	0.0194	0
FQ762_RS39355	0	0.0294	0
FQ762_RS39365	0	0.0394	0
FQ762_RS39370	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS39375	0.0025	0.022	0.11279
FQ762_RS39380	NA	NA	NA
FQ762_RS39390	NA	NA	NA
FQ762_RS39395	NA	NA	NA
FQ762_RS39400	0.0028	0.0524	0.05319
FQ762_RS39405	NA	NA	NA
FQ762_RS39410	0.0052	0.0191	0.27063
FQ762_RS39415	0.0065	0.0204	0.3185
FQ762_RS39425	NA	NA	NA
FQ762_RS39430	0.0035	0.008	0.43459
FQ762_RS39440	0.002	0.1225	0.01639
FQ762_RS39445	NA	NA	NA
FQ762_RS39450	NA	NA	NA
FQ762_RS39460	NA	NA	NA
FQ762_RS39465	0	0.0176	0
FQ762_RS39470	NA	NA	NA
FQ762_RS39475	0	0	0
FQ762_RS39480	0	0.0511	0
FQ762_RS39485	0.0051	0	NA
FQ762_RS39490	0.0007	0.0098	0.06648
FQ762_RS39500	NA	NA	NA
FQ762_RS39505	0	0	0
FQ762_RS39510	0.0035	0.1127	0.03117
FQ762_RS39515	0.0011	0.0078	0.14141
FQ762_RS39525	NA	NA	NA
FQ762_RS39535	0	0	0
FQ762_RS39540	0	0.0375	0
FQ762_RS39570	0.0062	0.0061	1.0039
FQ762_RS39575	0	0	0
FQ762_RS39580	0	0	0
FQ762_RS39585	0.0028	0	NA
FQ762_RS39595	0.0007	0.013	0.055
FQ762_RS39600	0.0024	0	NA
FQ762_RS39605	0.0013	0	NA
FQ762_RS39610	0.0009	0.0105	0.08247
FQ762_RS39615	NA	NA	NA
FQ762_RS39630	0.0061	0.0189	0.32373
FQ762_RS39640	0.001	0.0365	0.02825
FQ762_RS39645	0.0014	0.0358	0.03785
FQ762_RS39650	0	0.0341	0
FQ762_RS39655	0.0012	0.0447	0.02731
FQ762_RS39660	0.00465	0.0493	NA
FQ762_RS39665	0.0008	0.0048	0.17496
FQ762_RS39675	NA	NA	NA
FQ762_RS39680	0.004	0	NA
FQ762_RS39685	NA	NA	NA
FQ762_RS39690	0	0	0

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS39695	0.0044	0.0069	0.63149
FQ762_RS39700	NA	NA	NA
FQ762_RS39705	0	0	0
FQ762_RS39710	0.0013	0	NA
FQ762_RS39715	0.0013	0	NA
FQ762_RS39720	0	0	0
FQ762_RS39725	0	0.0275	0
FQ762_RS39730	0.0016	0.0231	0.06998
FQ762_RS39735	0.0028	0.0316	0.08821
FQ762_RS39740	NA	NA	NA
FQ762_RS39750	NA	NA	NA
FQ762_RS39755	0.0054	0.0188	0.2867
FQ762_RS39760	0.0031	0.064	0.04815
FQ762_RS39765	0.0038	0.0105	0.3564
FQ762_RS39770	0.0055	0.0304	0.18264
FQ762_RS39780	0.0025	0.0131	0.19137
FQ762_RS39785	0.0044	0.0088	0.50203
FQ762_RS39790	0	0	0
FQ762_RS39795	NA	NA	NA
FQ762_RS39800	NA	NA	NA
FQ762_RS39805	NA	NA	NA
FQ762_RS39810	0.0011	0.0175	0.06466
FQ762_RS39815	0.0063	0.0275	0.23052
FQ762_RS39820	0.002	0.0639	0.03069
FQ762_RS39825	NA	NA	NA
FQ762_RS39855	NA	NA	NA
FQ762_RS39865	0	0.0062	0
FQ762_RS39870	0.0073	0.0368	0.19721
FQ762_RS39875	0.0022	0.0263	0.08189
FQ762_RS39885	0.0068	0.0234	0.29023
FQ762_RS39895	0.018	0.0125	NA
FQ762_RS39905	NA	NA	NA
FQ762_RS39920	NA	NA	NA
FQ762_RS39925	NA	NA	NA
FQ762_RS39935	NA	NA	NA
FQ762_RS39940	0.0118	0.008	1.47127
FQ762_RS39945	NA	NA	NA
FQ762_RS39960	0.0011	0.0178	0.05985
FQ762_RS39965	0	0.0071	0
FQ762_RS39970	0.0022	0.0055	0.40718
FQ762_RS39975	0	0	0
FQ762_RS39980	0	0.0122	0
FQ762_RS39985	NA	NA	NA
FQ762_RS39990	NA	NA	NA
FQ762_RS39995	0	0	0
FQ762_RS40015	0	0.019	0
FQ762_RS40035	0.0072	0.0459	0.15691

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
FQ762_RS40050	0.0028	0.0287	0.0964
FQ762_RS40055	0.0066	0.0966	0.06878
FQ762_RS40060	NA	NA	NA
FQ762_RS40065	0.0088	0.0222	0.39684
FQ762_RS40070	0.0016	0.0207	0.07652
FQ762_RS40075	0.0155	0	NA
FQ762_RS40080	NA	NA	NA
FQ762_RS40085	NA	NA	NA
FQ762_RS40095	0.006	0.0186	0.32242
FQ762_RS40100	0.0064	0.0977	0.06512
FQ762_RS40105	0.0075	0	NA
FQ762_RS40110	NA	NA	NA
FQ762_RS40115	0.0034	0.0489	0.0695
FQ762_RS40120	NA	NA	NA
FQ762_RS40125	0.004	0.0276	0.14571
FQ762_RS40145	0	0.0082	0
FQ762_RS40150	0.004	0.057	0.07088
FQ762_RS40155	NA	NA	NA
FQ762_RS40165	NA	NA	NA
FQ762_RS40175	NA	NA	NA
FQ762_RS40185	NA	NA	NA
FQ762_RS40190	NA	NA	NA
FQ762_RS40195	NA	NA	NA
FQ762_RS40205	0	0.0837	0
FQ762_RS40265	NA	NA	NA
FQ762_RS40280	NA	NA	NA
FQ762_RS40285	0.0121	0.0445	0.27089
FQ762_RS40300	0.0047	0.0443	0.10526
FQ762_RS40320	0.0018	0.0418	0.04369
FQ762_RS40325	0	0.0344	0
FQ762_RS40330	NA	NA	NA
FQ762_RS40335	0	0.0462	0
FQ762_RS40340	NA	NA	NA
FQ762_RS40350	0.0029	0.0474	0.062
FQ762_RS40360	NA	NA	NA
FQ762_RS40365	NA	NA	NA
FQ762_RS40370	NA	NA	NA
FQ762_RS40385	NA	NA	NA
FQ762_RS40680	NA	NA	NA
FQ762_RS40690	0	0	0
FQ762_RS40770	NA	NA	NA
HCU77_RS25300	0	0	0
HCU77_RS31855	NA	NA	NA
HCU77_RS38335	0	0	0
HCU77_RS38345	0	0	0
HCU77_RS38720	0	0.0985	0
HCU77_RS38840	0.0079	0.022	0.35829

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SCO7676	0	0.0579	0
SCO7755	0	0	0
SCO7770	0.0276	0.0458	0.60251
SCO7776	0.0217	0	NA
SCO7804	0	0	0
SLI_RS22460	NA	NA	NA
SLI_RS24470	NA	NA	NA
SLI_RS25010	0.0419	0.2334	0.17937
SLI_RS25075	0	0	0
SLI_RS26340	0	0.025	0
SLI_RS27290	0	0.0892	0
SLI_RS27385	0	0.0258	0
SLI_RS27510	0	0	0
SLI_RS28805	NA	NA	NA
SLI_RS29155	NA	NA	NA
SLI_RS29895	NA	NA	NA
SLI_RS37740	NA	NA	NA
SLI_RS37795	NA	NA	NA
SLI_RS37870	0.0106	0	NA
SLI_RS38265	0.004	0	NA
SLI_RS38390	NA	NA	NA
SSPG_RS04305	NA	NA	NA
SSPG_RS04320	0.0017	0.0421	0.04112
SSPG_RS04330	NA	NA	NA
SSPG_RS04335	NA	NA	NA
SSPG_RS04340	NA	NA	NA
SSPG_RS04350	0	0.0111	0
SSPG_RS04360	NA	NA	NA
SSPG_RS04375	0	0.0139	0
SSPG_RS04380	NA	NA	NA
SSPG_RS04385	NA	NA	NA
SSPG_RS04390	NA	NA	NA
SSPG_RS04410	0.0028	0.0063	0.44786
SSPG_RS04415	0.0029	0.0118	0.24761
SSPG_RS04425	NA	NA	NA
SSPG_RS04435	NA	NA	NA
SSPG_RS04440	NA	NA	NA
SSPG_RS04445	0	0.0138	0
SSPG_RS04450	NA	NA	NA
SSPG_RS04455	0.0009	0.0128	0.06914
SSPG_RS04460	0.0008	0.1063	0.00786
SSPG_RS04470	0.0027	0.0158	0.17032
SSPG_RS04480	NA	NA	NA
SSPG_RS04485	NA	NA	NA
SSPG_RS04500	NA	NA	NA
SSPG_RS04505	NA	NA	NA
SSPG_RS04510	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS04515	NA	NA	NA
SSPG_RS04520	0	0.0144	0
SSPG_RS04525	NA	NA	NA
SSPG_RS04530	0	0.0423	0
SSPG_RS04540	NA	NA	NA
SSPG_RS04545	NA	NA	NA
SSPG_RS04550	NA	NA	NA
SSPG_RS04560	0	0.0224	0
SSPG_RS04565	NA	NA	NA
SSPG_RS04570	0.0036	0	NA
SSPG_RS04575	NA	NA	NA
SSPG_RS04580	0	0	0
SSPG_RS04585	NA	NA	NA
SSPG_RS04595	0.0023	0	NA
SSPG_RS04600	NA	NA	NA
SSPG_RS04605	0.0006	0.0333333333333333	0.0113866666666667
SSPG_RS04610	NA	NA	NA
SSPG_RS04615	NA	NA	NA
SSPG_RS04625	0	0.0276	0
SSPG_RS04635	NA	NA	NA
SSPG_RS04645	NA	NA	NA
SSPG_RS04655	NA	NA	NA
SSPG_RS04670	0.0024	0	NA
SSPG_RS04675	NA	NA	NA
SSPG_RS04680	NA	NA	NA
SSPG_RS04685	NA	NA	NA
SSPG_RS04690	NA	NA	NA
SSPG_RS04725	NA	NA	NA
SSPG_RS04730	NA	NA	NA
SSPG_RS04735	NA	NA	NA
SSPG_RS04740	NA	NA	NA
SSPG_RS04745	NA	NA	NA
SSPG_RS04750	NA	NA	NA
SSPG_RS04755	0.0012	0.0126	0.09937
SSPG_RS04765	0	0.1756	0
SSPG_RS04775	NA	NA	NA
SSPG_RS04780	NA	NA	NA
SSPG_RS04945	0.0043	0.0517	0.08287
SSPG_RS04955	NA	NA	NA
SSPG_RS04975	NA	NA	NA
SSPG_RS05015	NA	NA	NA
SSPG_RS05020	0.002	0.0216	0.09074
SSPG_RS05025	0.002425	0.026	NA
SSPG_RS05030	NA	NA	NA
SSPG_RS05035	NA	NA	NA
SSPG_RS05045	0.002	0.0252	0.07931
SSPG_RS05055	0.0014	0.0194	0.07115

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS05065	NA	NA	NA
SSPG_RS05075	0.001	0.008	0.12534
SSPG_RS05085	NA	NA	NA
SSPG_RS05090	NA	NA	NA
SSPG_RS05095	0	0	0
SSPG_RS05100	0	0	0
SSPG_RS05105	0	0	0
SSPG_RS05110	NA	NA	NA
SSPG_RS05115	0.0009	0.0129	0.06704
SSPG_RS05120	0.0023	0.0563	0.04125
SSPG_RS05125	0.0008	0.0517	0.02446
SSPG_RS05145	NA	NA	NA
SSPG_RS05150	NA	NA	NA
SSPG_RS05155	NA	NA	NA
SSPG_RS05165	NA	NA	NA
SSPG_RS05170	0	0.0161	0
SSPG_RS05175	0.002	0.0075	0.26156
SSPG_RS05180	0.0062	0.0943	0.06605
SSPG_RS05185	NA	NA	NA
SSPG_RS05195	NA	NA	NA
SSPG_RS05200	NA	NA	NA
SSPG_RS05205	NA	NA	NA
SSPG_RS05220	NA	NA	NA
SSPG_RS05230	0	0.0207	0
SSPG_RS05235	NA	NA	NA
SSPG_RS05240	NA	NA	NA
SSPG_RS05245	NA	NA	NA
SSPG_RS05250	0	0.0088	0
SSPG_RS05255	NA	NA	NA
SSPG_RS05265	NA	NA	NA
SSPG_RS05275	0.0018	0	NA
SSPG_RS05280	NA	NA	NA
SSPG_RS05285	0	0.057	0
SSPG_RS05295	0	0.0285	0
SSPG_RS05300	0.0013	0.0473	0.02788
SSPG_RS05305	NA	NA	NA
SSPG_RS05320	0	0.0164	0
SSPG_RS05325	0.0035	0.0866	0.04027
SSPG_RS05330	0	0.0213	0
SSPG_RS05335	NA	NA	NA
SSPG_RS05340	NA	NA	NA
SSPG_RS05350	0	0.0054	0
SSPG_RS05355	0.0013	0.0247	0.05382
SSPG_RS05365	0.0032	0	NA
SSPG_RS05370	0.0018	0	NA
SSPG_RS05375	0.0012	0	NA
SSPG_RS05400	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS05405	NA	NA	NA
SSPG_RS05415	0.0048	0.025	0.19339
SSPG_RS05425	NA	NA	NA
SSPG_RS05430	NA	NA	NA
SSPG_RS05435	NA	NA	NA
SSPG_RS05440	NA	NA	NA
SSPG_RS05445	NA	NA	NA
SSPG_RS05455	0.00235	0.02825	0.16943
SSPG_RS05460	0.0015	0.0222	0.06677
SSPG_RS05465	NA	NA	NA
SSPG_RS05470	NA	NA	NA
SSPG_RS05480	NA	NA	NA
SSPG_RS05500	0.00155	0.0314	0.07219
SSPG_RS05505	NA	NA	NA
SSPG_RS05515	0.0013	0.0446	0.03002
SSPG_RS05520	0.0014	0.0621	0.02174
SSPG_RS05525	NA	NA	NA
SSPG_RS05530	NA	NA	NA
SSPG_RS05535	NA	NA	NA
SSPG_RS05545	NA	NA	NA
SSPG_RS05550	NA	NA	NA
SSPG_RS05555	NA	NA	NA
SSPG_RS05575	0.0023	0.0111	0.20943
SSPG_RS05580	0.0039	0.0223	0.17362
SSPG_RS05585	NA	NA	NA
SSPG_RS05595	0.0008	0.023	0.03436
SSPG_RS05600	0	0	0
SSPG_RS05610	0.0014	0.0572	0.02509
SSPG_RS05615	NA	NA	NA
SSPG_RS05620	NA	NA	NA
SSPG_RS05625	NA	NA	NA
SSPG_RS05630	NA	NA	NA
SSPG_RS05660	0	0.009	0
SSPG_RS05665	0.0068	0.0131	0.51668
SSPG_RS05675	0.0066	0.0169	0.38968
SSPG_RS05685	0.001	0	NA
SSPG_RS05690	0.0012	0.0133	0.0867
SSPG_RS05695	0.002	0.0067	0.30354
SSPG_RS05700	0.001	0.0625	0.01605
SSPG_RS05705	0	0.0138	0
SSPG_RS05715	NA	NA	NA
SSPG_RS05720	NA	NA	NA
SSPG_RS05725	0.0016	0.0099	0.15865
SSPG_RS05730	NA	NA	NA
SSPG_RS05740	NA	NA	NA
SSPG_RS05745	NA	NA	NA
SSPG_RS05750	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS05755	0.0026	0.0058	0.4452
SSPG_RS05760	0	0.0121	0
SSPG_RS05765	0.0016	0.0092	0.1721
SSPG_RS05775	0.001	0.0188	0.127395
SSPG_RS05780	0.0044	0.0328	0.13455
SSPG_RS05790	NA	NA	NA
SSPG_RS05795	0	0	0
SSPG_RS05800	NA	NA	NA
SSPG_RS05805	0	0.0351	0
SSPG_RS05810	0	0.016	0
SSPG_RS05820	0	0	0
SSPG_RS05830	0	0	0
SSPG_RS05835	NA	NA	NA
SSPG_RS05845	NA	NA	NA
SSPG_RS05855	NA	NA	NA
SSPG_RS05860	NA	NA	NA
SSPG_RS05870	0	0	0
SSPG_RS05875	NA	NA	NA
SSPG_RS05880	0	0.009	0
SSPG_RS05915	0	0.078	0
SSPG_RS05920	NA	NA	NA
SSPG_RS05925	NA	NA	NA
SSPG_RS05930	NA	NA	NA
SSPG_RS05935	NA	NA	NA
SSPG_RS05940	NA	NA	NA
SSPG_RS05945	0	0.00743333333333333	0
SSPG_RS05950	0	0	0
SSPG_RS05955	NA	NA	NA
SSPG_RS05965	0.0027	0	NA
SSPG_RS05970	0.0008	0.0241	0.03499
SSPG_RS05980	0.0084	0.0092	0.91312
SSPG_RS05985	NA	NA	NA
SSPG_RS05990	0.0016	0.0452	0.03526
SSPG_RS05995	0	0.0169	0
SSPG_RS06000	0.00035	0.0411	0.012425
SSPG_RS06005	0.0051	0	NA
SSPG_RS06010	NA	NA	NA
SSPG_RS06015	NA	NA	NA
SSPG_RS06025	0.0019	0.0117	0.16244
SSPG_RS06030	0	0.0311	0
SSPG_RS06040	NA	NA	NA
SSPG_RS06045	NA	NA	NA
SSPG_RS06055	NA	NA	NA
SSPG_RS06060	NA	NA	NA
SSPG_RS06070	NA	NA	NA
SSPG_RS06075	NA	NA	NA
SSPG_RS06080	0.0057	0.0329	0.17323

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS06085	0	0.0117	0
SSPG_RS06090	0	0	0
SSPG_RS06095	0	0.0105	0
SSPG_RS06100	0	0.0059	0
SSPG_RS06110	NA	NA	NA
SSPG_RS06120	NA	NA	NA
SSPG_RS06125	NA	NA	NA
SSPG_RS06130	NA	NA	NA
SSPG_RS06135	NA	NA	NA
SSPG_RS06140	NA	NA	NA
SSPG_RS06145	NA	NA	NA
SSPG_RS06150	0.0008	0.0078	0.10283
SSPG_RS06160	0.0014	0	NA
SSPG_RS06170	0	0	0
SSPG_RS06175	0.0013	0.0121	0.10849
SSPG_RS06185	0.0028	0.0077	0.35743
SSPG_RS06190	NA	NA	NA
SSPG_RS06200	0.00035	0.0206	0.012175
SSPG_RS06220	NA	NA	NA
SSPG_RS06225	NA	NA	NA
SSPG_RS06230	NA	NA	NA
SSPG_RS06240	NA	NA	NA
SSPG_RS06245	NA	NA	NA
SSPG_RS06250	NA	NA	NA
SSPG_RS06260	0.0011	0.0198	0.0558
SSPG_RS06275	0	0.0138	0
SSPG_RS06280	NA	NA	NA
SSPG_RS06285	0	0.0145	0
SSPG_RS06290	0.0036	0.0035	1.03565
SSPG_RS06295	NA	NA	NA
SSPG_RS06300	NA	NA	NA
SSPG_RS06305	0.0011	0.0094	0.11267
SSPG_RS06320	NA	NA	NA
SSPG_RS06325	NA	NA	NA
SSPG_RS06330	0.0007	0.0226	0.03279
SSPG_RS06335	NA	NA	NA
SSPG_RS06340	NA	NA	NA
SSPG_RS06350	0	0.0038	0
SSPG_RS06355	NA	NA	NA
SSPG_RS06360	NA	NA	NA
SSPG_RS06365	NA	NA	NA
SSPG_RS06370	0.006	0.0184	0.3233
SSPG_RS06405	NA	NA	NA
SSPG_RS06410	NA	NA	NA
SSPG_RS06425	NA	NA	NA
SSPG_RS06435	NA	NA	NA
SSPG_RS06450	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS06455	NA	NA	NA
SSPG_RS06460	NA	NA	NA
SSPG_RS06480	0	0.0387	0
SSPG_RS06485	0.0013	0	NA
SSPG_RS06500	NA	NA	NA
SSPG_RS06510	0	0	0
SSPG_RS06530	0	0.0203	0
SSPG_RS06535	NA	NA	NA
SSPG_RS06545	0	0	0
SSPG_RS06550	NA	NA	NA
SSPG_RS06555	NA	NA	NA
SSPG_RS06560	NA	NA	NA
SSPG_RS06565	NA	NA	NA
SSPG_RS06570	NA	NA	NA
SSPG_RS06580	NA	NA	NA
SSPG_RS06590	NA	NA	NA
SSPG_RS06620	0	0.0121	0
SSPG_RS06640	NA	NA	NA
SSPG_RS06645	NA	NA	NA
SSPG_RS06660	0.004	0.0104	0.38559
SSPG_RS06665	NA	NA	NA
SSPG_RS06670	NA	NA	NA
SSPG_RS06680	NA	NA	NA
SSPG_RS06685	NA	NA	NA
SSPG_RS06695	NA	NA	NA
SSPG_RS06705	NA	NA	NA
SSPG_RS06710	NA	NA	NA
SSPG_RS06720	NA	NA	NA
SSPG_RS06725	NA	NA	NA
SSPG_RS06730	0.00225	0	NA
SSPG_RS06735	NA	NA	NA
SSPG_RS06740	NA	NA	NA
SSPG_RS06750	NA	NA	NA
SSPG_RS06755	0.0027	0.0336	0.08123
SSPG_RS06765	0.0012	0.0445	0.02746
SSPG_RS06770	NA	NA	NA
SSPG_RS06775	NA	NA	NA
SSPG_RS06780	NA	NA	NA
SSPG_RS06785	NA	NA	NA
SSPG_RS06790	NA	NA	NA
SSPG_RS06795	NA	NA	NA
SSPG_RS06805	0.0005	0.0161	0.03188
SSPG_RS06810	0.0058	0.0252	0.2319
SSPG_RS06820	NA	NA	NA
SSPG_RS06825	0	0	0
SSPG_RS06830	NA	NA	NA
SSPG_RS06840	0	0.0417	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS06845	NA	NA	NA
SSPG_RS06850	0	0	0
SSPG_RS06855	0	0.0059	0
SSPG_RS06860	NA	NA	NA
SSPG_RS06870	NA	NA	NA
SSPG_RS06875	NA	NA	NA
SSPG_RS06880	NA	NA	NA
SSPG_RS06890	NA	NA	NA
SSPG_RS06895	NA	NA	NA
SSPG_RS06900	NA	NA	NA
SSPG_RS06910	NA	NA	NA
SSPG_RS06920	NA	NA	NA
SSPG_RS06925	NA	NA	NA
SSPG_RS06930	NA	NA	NA
SSPG_RS06935	NA	NA	NA
SSPG_RS06940	NA	NA	NA
SSPG_RS06945	NA	NA	NA
SSPG_RS06955	0	0	0
SSPG_RS06960	NA	NA	NA
SSPG_RS06965	NA	NA	NA
SSPG_RS06970	0.0021	0.0303	0.06799
SSPG_RS06990	NA	NA	NA
SSPG_RS06995	NA	NA	NA
SSPG_RS07015	NA	NA	NA
SSPG_RS07030	NA	NA	NA
SSPG_RS07035	NA	NA	NA
SSPG_RS07040	NA	NA	NA
SSPG_RS07060	NA	NA	NA
SSPG_RS07065	NA	NA	NA
SSPG_RS07070	NA	NA	NA
SSPG_RS07075	NA	NA	NA
SSPG_RS07085	NA	NA	NA
SSPG_RS07090	NA	NA	NA
SSPG_RS07095	NA	NA	NA
SSPG_RS07100	NA	NA	NA
SSPG_RS07125	NA	NA	NA
SSPG_RS07140	NA	NA	NA
SSPG_RS07145	NA	NA	NA
SSPG_RS07165	NA	NA	NA
SSPG_RS07170	NA	NA	NA
SSPG_RS07175	NA	NA	NA
SSPG_RS07180	NA	NA	NA
SSPG_RS07190	0.0013	0.0327	0.04067
SSPG_RS07195	NA	NA	NA
SSPG_RS07200	NA	NA	NA
SSPG_RS07215	NA	NA	NA
SSPG_RS07225	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS07240	NA	NA	NA
SSPG_RS07245	NA	NA	NA
SSPG_RS07250	NA	NA	NA
SSPG_RS07255	0	0	0
SSPG_RS07260	NA	NA	NA
SSPG_RS07270	0	0.0292	0
SSPG_RS07275	NA	NA	NA
SSPG_RS07285	NA	NA	NA
SSPG_RS07305	NA	NA	NA
SSPG_RS07330	NA	NA	NA
SSPG_RS07340	NA	NA	NA
SSPG_RS07345	NA	NA	NA
SSPG_RS07350	0	0.0405	0
SSPG_RS07355	NA	NA	NA
SSPG_RS07365	0	0	0
SSPG_RS07375	NA	NA	NA
SSPG_RS07385	NA	NA	NA
SSPG_RS07390	NA	NA	NA
SSPG_RS07395	NA	NA	NA
SSPG_RS07400	0	0.0259	0
SSPG_RS07405	0.0015	0.0331	0.0464
SSPG_RS07410	0.0035	0.0111	0.31422
SSPG_RS07420	0.00155	0.013	0.058865
SSPG_RS07425	NA	NA	NA
SSPG_RS07430	NA	NA	NA
SSPG_RS07435	NA	NA	NA
SSPG_RS07440	NA	NA	NA
SSPG_RS07450	NA	NA	NA
SSPG_RS07460	NA	NA	NA
SSPG_RS07480	0.0027	0	NA
SSPG_RS07485	NA	NA	NA
SSPG_RS07505	0	0	0
SSPG_RS07510	NA	NA	NA
SSPG_RS07515	NA	NA	NA
SSPG_RS07530	NA	NA	NA
SSPG_RS07535	NA	NA	NA
SSPG_RS07540	NA	NA	NA
SSPG_RS07545	NA	NA	NA
SSPG_RS07550	NA	NA	NA
SSPG_RS07565	0.0035	0.0158	0.22006
SSPG_RS07570	NA	NA	NA
SSPG_RS07575	NA	NA	NA
SSPG_RS07595	NA	NA	NA
SSPG_RS07600	NA	NA	NA
SSPG_RS07610	NA	NA	NA
SSPG_RS07615	0	0	0
SSPG_RS07630	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS07635	NA	NA	NA
SSPG_RS07645	NA	NA	NA
SSPG_RS07650	NA	NA	NA
SSPG_RS07660	0.0013	0.0197	0.06368
SSPG_RS07670	NA	NA	NA
SSPG_RS07675	NA	NA	NA
SSPG_RS07680	NA	NA	NA
SSPG_RS07690	NA	NA	NA
SSPG_RS07695	NA	NA	NA
SSPG_RS07700	NA	NA	NA
SSPG_RS07705	NA	NA	NA
SSPG_RS07710	NA	NA	NA
SSPG_RS07720	NA	NA	NA
SSPG_RS07725	NA	NA	NA
SSPG_RS07730	0	0.0473	0
SSPG_RS07735	NA	NA	NA
SSPG_RS07760	NA	NA	NA
SSPG_RS07765	0	0	0
SSPG_RS07770	NA	NA	NA
SSPG_RS07775	NA	NA	NA
SSPG_RS07780	NA	NA	NA
SSPG_RS07790	0	0	0
SSPG_RS07795	0	0.0292	0
SSPG_RS07800	NA	NA	NA
SSPG_RS07810	NA	NA	NA
SSPG_RS07820	NA	NA	NA
SSPG_RS07830	0	0.0229	0
SSPG_RS07845	0	0	0
SSPG_RS07855	0	0.0244	0
SSPG_RS07860	0.0046	0	NA
SSPG_RS07865	NA	NA	NA
SSPG_RS07870	NA	NA	NA
SSPG_RS07875	NA	NA	NA
SSPG_RS07880	0.0011	0.0187	0.06086
SSPG_RS07885	NA	NA	NA
SSPG_RS07895	0	0	0
SSPG_RS07900	0.0021	0.0183	0.1145
SSPG_RS07910	0.0012	0.0192	0.06494
SSPG_RS07915	NA	NA	NA
SSPG_RS07925	NA	NA	NA
SSPG_RS07940	0	0.0219	0
SSPG_RS07945	0.0029	0	NA
SSPG_RS07950	0.0011	0.0235	0.04479
SSPG_RS07955	NA	NA	NA
SSPG_RS07960	NA	NA	NA
SSPG_RS07965	0	0	0
SSPG_RS07970	0.0014	0.0895	0.0114833333333333

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS07975	NA	NA	NA
SSPG_RS07980	NA	NA	NA
SSPG_RS07990	NA	NA	NA
SSPG_RS08000	NA	NA	NA
SSPG_RS08005	NA	NA	NA
SSPG_RS08015	NA	NA	NA
SSPG_RS08020	0.002	0.0275	0.07224
SSPG_RS08030	NA	NA	NA
SSPG_RS08040	NA	NA	NA
SSPG_RS08045	NA	NA	NA
SSPG_RS08055	NA	NA	NA
SSPG_RS08060	NA	NA	NA
SSPG_RS08065	0.000366666666666667	0.0206	NA
SSPG_RS08070	0.0012	0	NA
SSPG_RS08085	0	0.034	0
SSPG_RS08090	NA	NA	NA
SSPG_RS08095	NA	NA	NA
SSPG_RS08105	0.0015	0.0146	0.09981
SSPG_RS08110	NA	NA	NA
SSPG_RS08115	0	0.0262	0
SSPG_RS08120	NA	NA	NA
SSPG_RS08125	NA	NA	NA
SSPG_RS08130	NA	NA	NA
SSPG_RS08135	NA	NA	NA
SSPG_RS08160	NA	NA	NA
SSPG_RS08170	0.003	0.014	0.21424
SSPG_RS08175	NA	NA	NA
SSPG_RS08185	NA	NA	NA
SSPG_RS08190	0	0	0
SSPG_RS08200	NA	NA	NA
SSPG_RS08205	NA	NA	NA
SSPG_RS08210	0	0	0
SSPG_RS08215	0.0011	0.0104	0.1044
SSPG_RS08220	NA	NA	NA
SSPG_RS08235	0	0	0
SSPG_RS08240	NA	NA	NA
SSPG_RS08250	NA	NA	NA
SSPG_RS08255	NA	NA	NA
SSPG_RS08260	0	0	0
SSPG_RS08270	NA	NA	NA
SSPG_RS08275	NA	NA	NA
SSPG_RS08280	NA	NA	NA
SSPG_RS08290	NA	NA	NA
SSPG_RS08305	NA	NA	NA
SSPG_RS08320	NA	NA	NA
SSPG_RS08340	NA	NA	NA
SSPG_RS08370	0	0.0261	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS08395	NA	NA	NA
SSPG_RS08405	NA	NA	NA
SSPG_RS08415	NA	NA	NA
SSPG_RS08420	NA	NA	NA
SSPG_RS08425	NA	NA	NA
SSPG_RS08430	NA	NA	NA
SSPG_RS08435	NA	NA	NA
SSPG_RS08440	NA	NA	NA
SSPG_RS08450	0.0026	0.0255	0.10127
SSPG_RS08495	NA	NA	NA
SSPG_RS08500	0	0.0315666666666667	0
SSPG_RS08515	NA	NA	NA
SSPG_RS08520	0.0015	0.0347	0.04201
SSPG_RS08525	NA	NA	NA
SSPG_RS08535	NA	NA	NA
SSPG_RS08545	0	0	0
SSPG_RS08565	0.0019	0.0345	0.05559
SSPG_RS08570	0	0.0084	0
SSPG_RS08590	0	0.0738	0
SSPG_RS08595	NA	NA	NA
SSPG_RS08600	NA	NA	NA
SSPG_RS08605	0.004	0	NA
SSPG_RS08615	0	0.0179	0
SSPG_RS08635	0.0008	0.0544	0.01563
SSPG_RS08640	NA	NA	NA
SSPG_RS08645	NA	NA	NA
SSPG_RS08650	NA	NA	NA
SSPG_RS08655	NA	NA	NA
SSPG_RS08660	0.0014	0.0357	0.03821
SSPG_RS08665	0.0041	0	NA
SSPG_RS08675	0	0.00285	0
SSPG_RS08680	0.0014	0.024	0.0599
SSPG_RS08685	0.0019	0.0614	0.03052
SSPG_RS08690	NA	NA	NA
SSPG_RS08695	NA	NA	NA
SSPG_RS08700	NA	NA	NA
SSPG_RS08705	NA	NA	NA
SSPG_RS08715	0	0	0
SSPG_RS08720	NA	NA	NA
SSPG_RS08735	0	0.0221	0
SSPG_RS08745	0.0022	0.0424	0.05287
SSPG_RS08765	0.0012	0.0205	0.06043
SSPG_RS08775	0	0.0259	0
SSPG_RS08785	0	0.0372	0
SSPG_RS08790	0.00395	0.04535	0.19098
SSPG_RS08795	NA	NA	NA
SSPG_RS08810	0.0014	0	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS08825	NA	NA	NA
SSPG_RS08830	NA	NA	NA
SSPG_RS08835	0	0.01	0
SSPG_RS08840	0	0.0552	0
SSPG_RS08845	0	0.0243	0
SSPG_RS08850	0	0.0002	0
SSPG_RS08855	NA	NA	NA
SSPG_RS08860	NA	NA	NA
SSPG_RS08880	NA	NA	NA
SSPG_RS08885	0	0.0076	0
SSPG_RS08890	0	0.0377	0
SSPG_RS08895	0	0.0265	0
SSPG_RS08900	NA	NA	NA
SSPG_RS08905	NA	NA	NA
SSPG_RS08915	NA	NA	NA
SSPG_RS08925	NA	NA	NA
SSPG_RS08930	NA	NA	NA
SSPG_RS08935	NA	NA	NA
SSPG_RS08940	NA	NA	NA
SSPG_RS08950	NA	NA	NA
SSPG_RS08965	NA	NA	NA
SSPG_RS08970	NA	NA	NA
SSPG_RS08975	NA	NA	NA
SSPG_RS08980	NA	NA	NA
SSPG_RS08985	0	0.01095	0
SSPG_RS08990	0.00075	0.00545	0.06661
SSPG_RS08995	0	0.0935	0
SSPG_RS09020	NA	NA	NA
SSPG_RS09030	NA	NA	NA
SSPG_RS09035	0	0	0
SSPG_RS09040	NA	NA	NA
SSPG_RS09050	NA	NA	NA
SSPG_RS09055	NA	NA	NA
SSPG_RS09060	NA	NA	NA
SSPG_RS09065	NA	NA	NA
SSPG_RS09070	NA	NA	NA
SSPG_RS09075	NA	NA	NA
SSPG_RS09090	0.0012	0.0252	0.04649
SSPG_RS09095	NA	NA	NA
SSPG_RS09105	NA	NA	NA
SSPG_RS09115	0	0.0075	0
SSPG_RS09125	0	0	0
SSPG_RS09150	NA	NA	NA
SSPG_RS09155	NA	NA	NA
SSPG_RS09165	NA	NA	NA
SSPG_RS09175	NA	NA	NA
SSPG_RS09190	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS09195	NA	NA	NA
SSPG_RS09200	NA	NA	NA
SSPG_RS09205	NA	NA	NA
SSPG_RS09220	NA	NA	NA
SSPG_RS09225	0	0.0073	0
SSPG_RS09230	NA	NA	NA
SSPG_RS09235	0.0014	0.0571	0.02453
SSPG_RS09245	NA	NA	NA
SSPG_RS09255	0	0	0
SSPG_RS09260	NA	NA	NA
SSPG_RS09265	NA	NA	NA
SSPG_RS09270	NA	NA	NA
SSPG_RS09285	NA	NA	NA
SSPG_RS09295	NA	NA	NA
SSPG_RS09300	NA	NA	NA
SSPG_RS09305	NA	NA	NA
SSPG_RS09310	0	0	0
SSPG_RS09320	NA	NA	NA
SSPG_RS09330	0.0015	0.0149	0.09951
SSPG_RS09340	NA	NA	NA
SSPG_RS09345	0	0.008	0
SSPG_RS09350	NA	NA	NA
SSPG_RS09355	NA	NA	NA
SSPG_RS09360	NA	NA	NA
SSPG_RS09365	0.0032	0	NA
SSPG_RS09375	NA	NA	NA
SSPG_RS09380	NA	NA	NA
SSPG_RS09385	NA	NA	NA
SSPG_RS09390	NA	NA	NA
SSPG_RS09395	NA	NA	NA
SSPG_RS09400	NA	NA	NA
SSPG_RS09410	0	0	0
SSPG_RS09435	NA	NA	NA
SSPG_RS09440	NA	NA	NA
SSPG_RS09450	0.001	0.005	0.19506
SSPG_RS09455	0	0	0
SSPG_RS09460	0.0021	0.0105	0.19648
SSPG_RS09465	0.00115	0.00945	NA
SSPG_RS09470	0.0006	0.0041	0.15534
SSPG_RS09475	0	0.0077	0
SSPG_RS09480	0.00155	0.1489	0.00793
SSPG_RS09485	NA	NA	NA
SSPG_RS09490	NA	NA	NA
SSPG_RS09500	0.0006	0.0386	0.01556
SSPG_RS09510	NA	NA	NA
SSPG_RS09525	NA	NA	NA
SSPG_RS09530	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS09540	NA	NA	NA
SSPG_RS09550	NA	NA	NA
SSPG_RS09560	NA	NA	NA
SSPG_RS09565	0.0018	0.0204	0.08761
SSPG_RS09570	0.0019	0.0289	0.0662
SSPG_RS09580	0.005	0.038	0.1314
SSPG_RS09600	NA	NA	NA
SSPG_RS09605	NA	NA	NA
SSPG_RS09610	NA	NA	NA
SSPG_RS09615	NA	NA	NA
SSPG_RS09620	NA	NA	NA
SSPG_RS09625	NA	NA	NA
SSPG_RS09640	NA	NA	NA
SSPG_RS09645	0.0019	0	NA
SSPG_RS09650	NA	NA	NA
SSPG_RS09655	NA	NA	NA
SSPG_RS09660	NA	NA	NA
SSPG_RS09665	NA	NA	NA
SSPG_RS09670	NA	NA	NA
SSPG_RS09690	0.0014	0.0118	0.12214
SSPG_RS09700	0.0055	0.0197	0.27935
SSPG_RS09705	0.0016	0.0189	0.08466
SSPG_RS09710	0	0.0003	0
SSPG_RS09715	NA	NA	NA
SSPG_RS09720	NA	NA	NA
SSPG_RS09730	NA	NA	NA
SSPG_RS09745	0	0	0
SSPG_RS09755	0.0784	0.2524	0.31049
SSPG_RS09760	0.0039	0.0394	0.09872
SSPG_RS09765	0	0.1224	0
SSPG_RS09775	0.0007	0	NA
SSPG_RS09785	NA	NA	NA
SSPG_RS09795	NA	NA	NA
SSPG_RS09800	NA	NA	NA
SSPG_RS09810	NA	NA	NA
SSPG_RS09825	NA	NA	NA
SSPG_RS09835	NA	NA	NA
SSPG_RS09860	NA	NA	NA
SSPG_RS09865	0	0.02415	0
SSPG_RS09900	0.0038	0.0195	0.19664
SSPG_RS09910	NA	NA	NA
SSPG_RS09915	NA	NA	NA
SSPG_RS09920	0.00045	0.02715	0.00853
SSPG_RS09930	0.0005	0	NA
SSPG_RS09935	NA	NA	NA
SSPG_RS09940	NA	NA	NA
SSPG_RS09945	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS09980	0.0014	0.0109	0.13194
SSPG_RS09995	NA	NA	NA
SSPG_RS10020	0.0019	0.0066	0.28341
SSPG_RS10035	NA	NA	NA
SSPG_RS10045	NA	NA	NA
SSPG_RS10055	0	0	0
SSPG_RS10060	0.0017	0.0142	0.11664
SSPG_RS10065	0	0.0086	0
SSPG_RS10070	0.0016	0.0238	0.06804
SSPG_RS10080	NA	NA	NA
SSPG_RS10090	NA	NA	NA
SSPG_RS10095	NA	NA	NA
SSPG_RS10100	NA	NA	NA
SSPG_RS10105	NA	NA	NA
SSPG_RS10110	NA	NA	NA
SSPG_RS10115	NA	NA	NA
SSPG_RS10120	NA	NA	NA
SSPG_RS10125	0	0.0434	0
SSPG_RS10135	0.0019	0.0363	0.0521
SSPG_RS10145	NA	NA	NA
SSPG_RS10160	NA	NA	NA
SSPG_RS10165	0	0.0142	0
SSPG_RS10175	NA	NA	NA
SSPG_RS10180	NA	NA	NA
SSPG_RS10185	0.0022	0.012	0.18564
SSPG_RS10200	NA	NA	NA
SSPG_RS10210	0	0.0241	0
SSPG_RS10230	0	0	0
SSPG_RS10240	0	0.0412	0
SSPG_RS10250	0	0.0493	0
SSPG_RS10255	NA	NA	NA
SSPG_RS10260	NA	NA	NA
SSPG_RS10300	0	0.0361	0
SSPG_RS10305	0	0.033	0
SSPG_RS10310	NA	NA	NA
SSPG_RS10315	0	0.0262	0
SSPG_RS10320	0.0181	0.0639	0.28325
SSPG_RS10325	0.000666666666666667	0.0412666666666667	0.0245366666666667
SSPG_RS10330	NA	NA	NA
SSPG_RS10335	0	0	0
SSPG_RS10340	0.0055	0.04585	0.180795
SSPG_RS10345	NA	NA	NA
SSPG_RS10350	0.0011	0.0249	0.04285
SSPG_RS10355	0.0024	0.0539	0.04437
SSPG_RS10365	0.0019	0.0158	0.12277
SSPG_RS10375	0.0018	0	NA
SSPG_RS10395	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS10410	0.0012	0	NA
SSPG_RS10420	0.002	0.0376	0.05307
SSPG_RS10425	0	0.0151	0
SSPG_RS10435	0.003	0.0121	0.24804
SSPG_RS10460	NA	NA	NA
SSPG_RS10465	NA	NA	NA
SSPG_RS10470	NA	NA	NA
SSPG_RS10475	NA	NA	NA
SSPG_RS10480	0	0.0236	0
SSPG_RS10485	0.0015	0	NA
SSPG_RS10495	NA	NA	NA
SSPG_RS10500	0	0	0
SSPG_RS10505	NA	NA	NA
SSPG_RS10515	NA	NA	NA
SSPG_RS10520	0.0019	0.0215	0.08836
SSPG_RS10530	NA	NA	NA
SSPG_RS10535	NA	NA	NA
SSPG_RS10550	0.0037	0.0169	NA
SSPG_RS10555	0.0098	0.035	0.28076
SSPG_RS10560	0	0	0
SSPG_RS10565	NA	NA	NA
SSPG_RS10570	NA	NA	NA
SSPG_RS10585	0	0.0764	0
SSPG_RS10590	0	0	0
SSPG_RS10620	0	0.0185	0
SSPG_RS10625	NA	NA	NA
SSPG_RS10630	NA	NA	NA
SSPG_RS10640	0.0009	0.0278	0.03154
SSPG_RS10645	NA	NA	NA
SSPG_RS10680	NA	NA	NA
SSPG_RS10700	NA	NA	NA
SSPG_RS10725	0.0009	0.0123	0.07021
SSPG_RS10730	NA	NA	NA
SSPG_RS10735	NA	NA	NA
SSPG_RS10745	NA	NA	NA
SSPG_RS10755	NA	NA	NA
SSPG_RS10760	NA	NA	NA
SSPG_RS10765	NA	NA	NA
SSPG_RS10780	NA	NA	NA
SSPG_RS10785	NA	NA	NA
SSPG_RS10800	NA	NA	NA
SSPG_RS10805	0.002	0.0111	0.17697
SSPG_RS10810	0	0.0597	0
SSPG_RS10830	0	0.0195	0
SSPG_RS10835	NA	NA	NA
SSPG_RS10840	0.0013	0.0202	0.06476
SSPG_RS10845	0.0016	0.0396	0.04079

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS10850	0.003	0.0088	0.34069
SSPG_RS10855	0.0019	0.0328	0.05716
SSPG_RS10870	0	0.0309	0
SSPG_RS10885	NA	NA	NA
SSPG_RS10890	NA	NA	NA
SSPG_RS10910	NA	NA	NA
SSPG_RS10925	0.003	0.0327	0.09195
SSPG_RS10930	0	0.052	0
SSPG_RS10935	0.0437	0.1317	0.33155
SSPG_RS10945	NA	NA	NA
SSPG_RS10955	NA	NA	NA
SSPG_RS10960	NA	NA	NA
SSPG_RS10965	0.0061	0.00955	NA
SSPG_RS10970	NA	NA	NA
SSPG_RS10975	0.0009	0.0071	0.12888
SSPG_RS10980	0.0043	0.0253	0.16912
SSPG_RS10985	0	0	0
SSPG_RS10990	NA	NA	NA
SSPG_RS10995	0	0.0155	0
SSPG_RS11000	NA	NA	NA
SSPG_RS11005	0	0	0
SSPG_RS11010	NA	NA	NA
SSPG_RS11025	0.0034	0	NA
SSPG_RS11030	0.0089	0.0073	1.20836
SSPG_RS11035	NA	NA	NA
SSPG_RS11040	NA	NA	NA
SSPG_RS11045	0	0	0
SSPG_RS11050	0.008	0.0098	0.81301
SSPG_RS11055	NA	NA	NA
SSPG_RS11060	0.0038	0.0311	0.12312
SSPG_RS11070	0.0016	0.0121	0.13341
SSPG_RS11075	NA	NA	NA
SSPG_RS11080	NA	NA	NA
SSPG_RS11085	0	0.0202	0
SSPG_RS11090	NA	NA	NA
SSPG_RS11095	NA	NA	NA
SSPG_RS11100	NA	NA	NA
SSPG_RS11110	0	0	0
SSPG_RS11115	NA	NA	NA
SSPG_RS11135	NA	NA	NA
SSPG_RS11140	NA	NA	NA
SSPG_RS11145	NA	NA	NA
SSPG_RS11155	0	0	0
SSPG_RS11160	NA	NA	NA
SSPG_RS11165	0.0016	0.0162	0.10007
SSPG_RS11170	0.0009	0.0293	0.03114
SSPG_RS11175	0	0.0126	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS11185	NA	NA	NA
SSPG_RS11205	NA	NA	NA
SSPG_RS11210	0.00235	0.09965	0.043765
SSPG_RS11220	0.0003	0	NA
SSPG_RS11225	0.00175	0.01475	0.059035
SSPG_RS11230	0.0009	0.0443	0.01953
SSPG_RS11235	NA	NA	NA
SSPG_RS11240	NA	NA	NA
SSPG_RS11245	NA	NA	NA
SSPG_RS11255	0	0.022	0
SSPG_RS11260	0.0012	0.0251	0.04745
SSPG_RS11265	0	0.0254	0
SSPG_RS11295	NA	NA	NA
SSPG_RS11300	NA	NA	NA
SSPG_RS11305	NA	NA	NA
SSPG_RS11310	NA	NA	NA
SSPG_RS11315	NA	NA	NA
SSPG_RS11320	NA	NA	NA
SSPG_RS11325	NA	NA	NA
SSPG_RS11330	NA	NA	NA
SSPG_RS11335	NA	NA	NA
SSPG_RS11340	NA	NA	NA
SSPG_RS11345	0.011	0.0696	0.15834
SSPG_RS11350	0.0079	0.0364	0.21819
SSPG_RS11355	0.001	0.0081	0.12873
SSPG_RS11360	0.0011	0.0437	0.02525
SSPG_RS11365	NA	NA	NA
SSPG_RS11385	0.0014	0.0329	0.04161
SSPG_RS11395	NA	NA	NA
SSPG_RS11410	0.0023	0.0219	0.10704
SSPG_RS11425	NA	NA	NA
SSPG_RS11435	NA	NA	NA
SSPG_RS11445	0.001	0.0017	NA
SSPG_RS11450	NA	NA	NA
SSPG_RS11455	NA	NA	NA
SSPG_RS11465	0.0112	0.0418	0.26839
SSPG_RS11470	0.0008	0.026	0.0291
SSPG_RS11495	NA	NA	NA
SSPG_RS11505	0.0053	0.041	0.12946
SSPG_RS11510	0	0.0344	0
SSPG_RS11520	0	0.0155	0
SSPG_RS11555	0	0	0
SSPG_RS11565	0	0	0
SSPG_RS11570	0.002	0.0137	0.14696
SSPG_RS11580	NA	NA	NA
SSPG_RS11585	NA	NA	NA
SSPG_RS11590	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS11595	0.003	0	NA
SSPG_RS11600	NA	NA	NA
SSPG_RS11610	0	0.0242	0
SSPG_RS11615	0	0.0384	0
SSPG_RS11630	0	0.0202	0
SSPG_RS11635	NA	NA	NA
SSPG_RS11645	0.0018	0.0288	0.06128
SSPG_RS11650	NA	NA	NA
SSPG_RS11655	NA	NA	NA
SSPG_RS11660	NA	NA	NA
SSPG_RS11665	NA	NA	NA
SSPG_RS11690	0.0021	0.0113	0.18287
SSPG_RS11700	0	0.0057	0
SSPG_RS11705	NA	NA	NA
SSPG_RS11710	NA	NA	NA
SSPG_RS11715	NA	NA	NA
SSPG_RS11720	0.0024	0.0329	0.07344
SSPG_RS11725	0.0032	0.0129	0.25114
SSPG_RS11730	0.0026	0.0582	0.04387
SSPG_RS11735	NA	NA	NA
SSPG_RS11760	0.0012	0.0138	0.08934
SSPG_RS11770	0.00135	0	NA
SSPG_RS11775	0	0.0382	0
SSPG_RS11780	NA	NA	NA
SSPG_RS11790	NA	NA	NA
SSPG_RS11800	NA	NA	NA
SSPG_RS11810	0.0026	0.0099	0.2598
SSPG_RS11820	0	0	0
SSPG_RS11835	0	0.0298	0
SSPG_RS11845	NA	NA	NA
SSPG_RS11860	NA	NA	NA
SSPG_RS11865	0.0008	0.0585	0.01417
SSPG_RS11875	0.0041	0.0114	0.36149
SSPG_RS11880	NA	NA	NA
SSPG_RS11885	0.0014	0.0975	0.01438
SSPG_RS11890	0.0014	0	NA
SSPG_RS11895	0.0027	0.0281	0.09498
SSPG_RS11910	NA	NA	NA
SSPG_RS11915	NA	NA	NA
SSPG_RS11920	NA	NA	NA
SSPG_RS11925	NA	NA	NA
SSPG_RS11930	NA	NA	NA
SSPG_RS11935	NA	NA	NA
SSPG_RS11940	NA	NA	NA
SSPG_RS11945	NA	NA	NA
SSPG_RS11955	0.000633333333333333	0.004	NA
SSPG_RS11960	0	0.0068	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS11965	0.00153333333333333	0.0123666666666667	0.08166
SSPG_RS11980	0	0	0
SSPG_RS11985	0	0.012	0
SSPG_RS11990	0	0.0358	0
SSPG_RS11995	NA	NA	NA
SSPG_RS12005	NA	NA	NA
SSPG_RS12010	NA	NA	NA
SSPG_RS12015	0.0014	0.0135	0.10342
SSPG_RS12025	0.0105	0	NA
SSPG_RS12030	NA	NA	NA
SSPG_RS12040	NA	NA	NA
SSPG_RS12045	NA	NA	NA
SSPG_RS12070	NA	NA	NA
SSPG_RS12075	NA	NA	NA
SSPG_RS12080	NA	NA	NA
SSPG_RS12085	NA	NA	NA
SSPG_RS12100	0.0008	0.00465	0.084945
SSPG_RS12110	NA	NA	NA
SSPG_RS12130	NA	NA	NA
SSPG_RS12140	NA	NA	NA
SSPG_RS12145	0	0	0
SSPG_RS12150	NA	NA	NA
SSPG_RS12155	NA	NA	NA
SSPG_RS12175	NA	NA	NA
SSPG_RS12185	NA	NA	NA
SSPG_RS12195	NA	NA	NA
SSPG_RS12210	0	0.0385	0
SSPG_RS12215	0	0.0173	0
SSPG_RS12220	NA	NA	NA
SSPG_RS12225	NA	NA	NA
SSPG_RS12230	NA	NA	NA
SSPG_RS12240	NA	NA	NA
SSPG_RS12245	NA	NA	NA
SSPG_RS12250	0.002	0.0611	0.03199
SSPG_RS12260	NA	NA	NA
SSPG_RS12265	NA	NA	NA
SSPG_RS12280	NA	NA	NA
SSPG_RS12320	0.0009	0.0193	0.04791
SSPG_RS12345	NA	NA	NA
SSPG_RS12355	NA	NA	NA
SSPG_RS12370	NA	NA	NA
SSPG_RS12375	NA	NA	NA
SSPG_RS12380	NA	NA	NA
SSPG_RS12395	NA	NA	NA
SSPG_RS12400	NA	NA	NA
SSPG_RS12410	NA	NA	NA
SSPG_RS12415	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS12425	NA	NA	NA
SSPG_RS12435	NA	NA	NA
SSPG_RS12440	NA	NA	NA
SSPG_RS12445	NA	NA	NA
SSPG_RS12450	NA	NA	NA
SSPG_RS12455	NA	NA	NA
SSPG_RS12460	NA	NA	NA
SSPG_RS12480	NA	NA	NA
SSPG_RS12485	NA	NA	NA
SSPG_RS12525	0.0019	0.0119	0.161
SSPG_RS12535	NA	NA	NA
SSPG_RS12540	NA	NA	NA
SSPG_RS12545	0	0.0119	0
SSPG_RS12550	NA	NA	NA
SSPG_RS12555	0	0.0357	0
SSPG_RS12570	0	0	0
SSPG_RS12580	0.0004	0.0379	0.01168
SSPG_RS12600	0.0017	0.0428	0.04032
SSPG_RS12610	0	0	0
SSPG_RS12615	NA	NA	NA
SSPG_RS12620	0.0011	0.0311	0.0341
SSPG_RS12630	NA	NA	NA
SSPG_RS12640	0.0009	0.0154	0.05575
SSPG_RS12645	NA	NA	NA
SSPG_RS12650	NA	NA	NA
SSPG_RS12660	0.0046	0	NA
SSPG_RS12665	NA	NA	NA
SSPG_RS12670	NA	NA	NA
SSPG_RS12680	NA	NA	NA
SSPG_RS12685	NA	NA	NA
SSPG_RS12690	0.0022	0.0337	0.06552
SSPG_RS12700	NA	NA	NA
SSPG_RS12710	0.0009	0.0323	0.02807
SSPG_RS12720	0.0016	0.0281	0.05754
SSPG_RS12730	0	0.0354	0
SSPG_RS12735	0.0011	0.02085	0.071875
SSPG_RS12740	0.0061	0.034	0.18087
SSPG_RS12745	0.0017	0.0004	4.46385
SSPG_RS12755	0.0021	0.0255	0.08154
SSPG_RS12760	0.0009	0.0306	0.02813
SSPG_RS12765	0.0021	0.0361	0.0587
SSPG_RS12780	0	0.0039	0
SSPG_RS12790	NA	NA	NA
SSPG_RS12820	0.0011	0.0458	0.02464
SSPG_RS12825	NA	NA	NA
SSPG_RS12830	NA	NA	NA
SSPG_RS12855	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS12865	NA	NA	NA
SSPG_RS12900	NA	NA	NA
SSPG_RS12910	0	0.0248	0
SSPG_RS12915	0	0.0255	0
SSPG_RS12925	0.0054	0.0135	0.39767
SSPG_RS12930	0.003	0.0396	0.07699
SSPG_RS12935	0.0009	0.0416	0.025775
SSPG_RS12940	0	0.0085	0
SSPG_RS12950	0	0.0183	0
SSPG_RS12955	NA	NA	NA
SSPG_RS12960	0	0	0
SSPG_RS12965	NA	NA	NA
SSPG_RS12970	NA	NA	NA
SSPG_RS12975	NA	NA	NA
SSPG_RS12980	NA	NA	NA
SSPG_RS12985	NA	NA	NA
SSPG_RS12990	0.0036	0	NA
SSPG_RS13015	0	0.0078	0
SSPG_RS13040	NA	NA	NA
SSPG_RS13045	NA	NA	NA
SSPG_RS13055	NA	NA	NA
SSPG_RS13065	NA	NA	NA
SSPG_RS13095	NA	NA	NA
SSPG_RS13100	0	0.0128	0
SSPG_RS13110	NA	NA	NA
SSPG_RS13115	0.00285	0.01525	0.093725
SSPG_RS13130	NA	NA	NA
SSPG_RS13135	NA	NA	NA
SSPG_RS13140	0.0024	0.016	0.14886
SSPG_RS13145	NA	NA	NA
SSPG_RS13160	NA	NA	NA
SSPG_RS13180	0	0.0051	0
SSPG_RS13185	0.0008	0.0105	0.07164
SSPG_RS13195	0.0011	0.0299	0.03825
SSPG_RS13200	0.0034	0	NA
SSPG_RS13205	NA	NA	NA
SSPG_RS13210	NA	NA	NA
SSPG_RS13215	NA	NA	NA
SSPG_RS13220	NA	NA	NA
SSPG_RS13225	NA	NA	NA
SSPG_RS13230	0.0012	0.015	0.07688
SSPG_RS13255	0.0049	0.0328	0.14917
SSPG_RS13270	NA	NA	NA
SSPG_RS13285	NA	NA	NA
SSPG_RS13305	NA	NA	NA
SSPG_RS13310	0	0.04515	0
SSPG_RS13325	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS13330	NA	NA	NA
SSPG_RS13335	NA	NA	NA
SSPG_RS13340	NA	NA	NA
SSPG_RS13350	NA	NA	NA
SSPG_RS13360	NA	NA	NA
SSPG_RS13365	NA	NA	NA
SSPG_RS13370	NA	NA	NA
SSPG_RS13375	NA	NA	NA
SSPG_RS13385	0.0007	0.0256	0.02562
SSPG_RS13390	0.0011	0.0332	0.03459
SSPG_RS13395	0.0024	0.0268	0.0904
SSPG_RS13405	0	0.06555	0
SSPG_RS13415	0.0027	0.0096	0.2875
SSPG_RS13425	0.0009	0.0878	0.00975
SSPG_RS13430	0.0053	0.11945	0.022225
SSPG_RS13435	0.0042	0.0516	0.08043
SSPG_RS13440	NA	NA	NA
SSPG_RS13455	0	0	0
SSPG_RS13460	0	0.2355	0
SSPG_RS13465	NA	NA	NA
SSPG_RS13480	0	0	0
SSPG_RS13485	NA	NA	NA
SSPG_RS13490	0.0009	0.0145	0.05912
SSPG_RS13495	0.0011	0.0116	0.09476
SSPG_RS13500	0.0006	0.01535	0.03817
SSPG_RS13505	NA	NA	NA
SSPG_RS13510	NA	NA	NA
SSPG_RS13515	NA	NA	NA
SSPG_RS13520	NA	NA	NA
SSPG_RS13530	0.0008	0.0398	0.02023
SSPG_RS13535	NA	NA	NA
SSPG_RS13565	0.0008	0.0073	0.1135
SSPG_RS13570	NA	NA	NA
SSPG_RS13575	0	0	0
SSPG_RS13580	0	0	0
SSPG_RS13585	NA	NA	NA
SSPG_RS13595	0	0	0
SSPG_RS13600	0.001	0.018	0.05827
SSPG_RS13605	NA	NA	NA
SSPG_RS13615	NA	NA	NA
SSPG_RS13620	NA	NA	NA
SSPG_RS13645	0	0.0101	0
SSPG_RS13650	0.0017	0.0098	0.17238
SSPG_RS13655	0	0.0234	0
SSPG_RS13660	NA	NA	NA
SSPG_RS13665	0	0.0117	0
SSPG_RS13670	0	0	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS13685	NA	NA	NA
SSPG_RS13690	NA	NA	NA
SSPG_RS13710	0.0045	0.1951	0.02307
SSPG_RS13715	NA	NA	NA
SSPG_RS13730	NA	NA	NA
SSPG_RS13735	0.0108	0.1907	0.05685
SSPG_RS13740	NA	NA	NA
SSPG_RS13745	NA	NA	NA
SSPG_RS13750	0	0	0
SSPG_RS13760	0.0024	0.0807	0.03
SSPG_RS13765	NA	NA	NA
SSPG_RS13770	NA	NA	NA
SSPG_RS13775	NA	NA	NA
SSPG_RS13790	NA	NA	NA
SSPG_RS13855	0	0.004	0
SSPG_RS13860	NA	NA	NA
SSPG_RS13865	NA	NA	NA
SSPG_RS13870	0.0026	0	NA
SSPG_RS13880	0.003	0.0076	0.39818
SSPG_RS13885	0.0024	0.0198	0.12281
SSPG_RS13905	0	0.0069	0
SSPG_RS13910	0	0.0242	0
SSPG_RS13915	0	0.01755	0
SSPG_RS13920	NA	NA	NA
SSPG_RS13925	NA	NA	NA
SSPG_RS13930	NA	NA	NA
SSPG_RS13945	0.0008	0.0182	0.04626
SSPG_RS13950	NA	NA	NA
SSPG_RS13955	NA	NA	NA
SSPG_RS13960	NA	NA	NA
SSPG_RS13970	0	0.1456	0
SSPG_RS13975	NA	NA	NA
SSPG_RS13980	NA	NA	NA
SSPG_RS13985	NA	NA	NA
SSPG_RS13995	0	0.0098	0
SSPG_RS14000	NA	NA	NA
SSPG_RS14005	NA	NA	NA
SSPG_RS14020	NA	NA	NA
SSPG_RS14030	NA	NA	NA
SSPG_RS14035	0.0008	0	NA
SSPG_RS14045	0	0	0
SSPG_RS14050	NA	NA	NA
SSPG_RS14080	0	0	0
SSPG_RS14100	0.0008	0.0138	0.06093
SSPG_RS14105	NA	NA	NA
SSPG_RS14115	NA	NA	NA
SSPG_RS14120	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS14125	0	0.0637	0
SSPG_RS14130	0	0.0239	0
SSPG_RS14140	0.00055	0	NA
SSPG_RS14145	NA	NA	NA
SSPG_RS14150	NA	NA	NA
SSPG_RS14160	NA	NA	NA
SSPG_RS14165	NA	NA	NA
SSPG_RS14185	NA	NA	NA
SSPG_RS14195	NA	NA	NA
SSPG_RS14200	NA	NA	NA
SSPG_RS14210	NA	NA	NA
SSPG_RS14215	NA	NA	NA
SSPG_RS14220	NA	NA	NA
SSPG_RS14225	NA	NA	NA
SSPG_RS14230	NA	NA	NA
SSPG_RS14245	NA	NA	NA
SSPG_RS14250	NA	NA	NA
SSPG_RS14265	NA	NA	NA
SSPG_RS14270	NA	NA	NA
SSPG_RS14280	NA	NA	NA
SSPG_RS14290	NA	NA	NA
SSPG_RS14325	0.001	0.0174	0.05901
SSPG_RS14330	NA	NA	NA
SSPG_RS14335	NA	NA	NA
SSPG_RS14340	0	0	0
SSPG_RS14375	0.0023	0.0214	0.10692
SSPG_RS14385	0	0.0487	0
SSPG_RS14390	0	0	0
SSPG_RS14400	0	0.0363	0
SSPG_RS14405	0	0.039	0
SSPG_RS14430	0.003	0.051	0.05831
SSPG_RS14435	0.0162	0.0606	0.26741
SSPG_RS14455	NA	NA	NA
SSPG_RS14460	NA	NA	NA
SSPG_RS14465	NA	NA	NA
SSPG_RS14500	NA	NA	NA
SSPG_RS14510	NA	NA	NA
SSPG_RS14525	NA	NA	NA
SSPG_RS14535	0.0019	0.0375	0.04973
SSPG_RS14550	NA	NA	NA
SSPG_RS14555	NA	NA	NA
SSPG_RS14570	NA	NA	NA
SSPG_RS14575	NA	NA	NA
SSPG_RS14580	NA	NA	NA
SSPG_RS14595	0.0016	0.0627	0.02497
SSPG_RS14605	0.001	0	NA
SSPG_RS14610	0	0.0068	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS14625	0.0018	0.0677	0.02592
SSPG_RS14665	NA	NA	NA
SSPG_RS14670	NA	NA	NA
SSPG_RS14675	NA	NA	NA
SSPG_RS14685	NA	NA	NA
SSPG_RS14690	NA	NA	NA
SSPG_RS14705	NA	NA	NA
SSPG_RS14710	NA	NA	NA
SSPG_RS14725	NA	NA	NA
SSPG_RS14775	0.0045	0	NA
SSPG_RS14785	0	0.0226	0
SSPG_RS14795	0.0008	0.0479	0.01738
SSPG_RS14810	0.0012	0.0077	0.15491
SSPG_RS14825	NA	NA	NA
SSPG_RS14840	NA	NA	NA
SSPG_RS14860	0	0.0421	0
SSPG_RS14875	0.000966666666666667	0.0299666666666667	0.0275533333333333
SSPG_RS14885	0.0015	0.0244	0.06147
SSPG_RS14895	0	0.0263	0
SSPG_RS14900	0	0	0
SSPG_RS14920	NA	NA	NA
SSPG_RS14945	NA	NA	NA
SSPG_RS14960	NA	NA	NA
SSPG_RS14965	0.0035	0	NA
SSPG_RS14970	NA	NA	NA
SSPG_RS14980	NA	NA	NA
SSPG_RS14985	NA	NA	NA
SSPG_RS14990	0	0.0904	0
SSPG_RS14995	NA	NA	NA
SSPG_RS15010	NA	NA	NA
SSPG_RS15015	NA	NA	NA
SSPG_RS15020	0	0.0307	0
SSPG_RS15030	NA	NA	NA
SSPG_RS15045	NA	NA	NA
SSPG_RS15055	NA	NA	NA
SSPG_RS15060	0	0.0147	0
SSPG_RS15065	NA	NA	NA
SSPG_RS15070	0	0	0
SSPG_RS15075	NA	NA	NA
SSPG_RS15080	NA	NA	NA
SSPG_RS15100	0	0.0261	0
SSPG_RS15115	NA	NA	NA
SSPG_RS15130	NA	NA	NA
SSPG_RS15135	NA	NA	NA
SSPG_RS15140	NA	NA	NA
SSPG_RS15145	NA	NA	NA
SSPG_RS15150	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS15155	NA	NA	NA
SSPG_RS15160	NA	NA	NA
SSPG_RS15165	NA	NA	NA
SSPG_RS15175	NA	NA	NA
SSPG_RS15210	NA	NA	NA
SSPG_RS15215	0.0036	0	NA
SSPG_RS15225	NA	NA	NA
SSPG_RS15240	NA	NA	NA
SSPG_RS15250	NA	NA	NA
SSPG_RS15255	NA	NA	NA
SSPG_RS15295	NA	NA	NA
SSPG_RS15300	0.001	0	NA
SSPG_RS15305	NA	NA	NA
SSPG_RS15310	0	0.0119	0
SSPG_RS15315	0	0	0
SSPG_RS15320	0	0.0105	0
SSPG_RS15325	0	0	0
SSPG_RS15340	NA	NA	NA
SSPG_RS15345	0	0.0514	0
SSPG_RS15350	0	0.02	0
SSPG_RS15355	0	0.0139	0
SSPG_RS15360	NA	NA	NA
SSPG_RS15365	NA	NA	NA
SSPG_RS15370	NA	NA	NA
SSPG_RS15375	NA	NA	NA
SSPG_RS15380	NA	NA	NA
SSPG_RS15385	NA	NA	NA
SSPG_RS15390	0	0.058	0
SSPG_RS15395	NA	NA	NA
SSPG_RS15400	NA	NA	NA
SSPG_RS15405	NA	NA	NA
SSPG_RS15415	NA	NA	NA
SSPG_RS15425	NA	NA	NA
SSPG_RS15430	NA	NA	NA
SSPG_RS15435	NA	NA	NA
SSPG_RS15440	NA	NA	NA
SSPG_RS15450	0	0	0
SSPG_RS15455	0	0.0003	0
SSPG_RS15465	0.0007	0.0264	0.02728
SSPG_RS15475	0.0021	0.0252	0.08493
SSPG_RS15480	0	0	0
SSPG_RS15485	0	0.0069	0
SSPG_RS15490	0.0019	0.0254	0.07311
SSPG_RS15495	NA	NA	NA
SSPG_RS15500	NA	NA	NA
SSPG_RS15505	NA	NA	NA
SSPG_RS15510	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS15515	NA	NA	NA
SSPG_RS15520	0.004	0.0441	0.09057
SSPG_RS15530	0.0005	0.017	0.03029
SSPG_RS15540	NA	NA	NA
SSPG_RS15545	0	0.0243	0
SSPG_RS15555	0.0024	0.0183	0.12942
SSPG_RS15565	NA	NA	NA
SSPG_RS15585	NA	NA	NA
SSPG_RS15590	NA	NA	NA
SSPG_RS15600	NA	NA	NA
SSPG_RS15620	0.0058	0.0234	0.24553
SSPG_RS15625	NA	NA	NA
SSPG_RS15630	NA	NA	NA
SSPG_RS15640	0	0.0271	0
SSPG_RS15660	0	0.0626	0
SSPG_RS15670	0.0024	0.039	0.06283
SSPG_RS15675	NA	NA	NA
SSPG_RS15700	0	0.0394	0
SSPG_RS15720	NA	NA	NA
SSPG_RS15725	NA	NA	NA
SSPG_RS15735	NA	NA	NA
SSPG_RS15745	NA	NA	NA
SSPG_RS15750	NA	NA	NA
SSPG_RS15770	0	0.0652	0
SSPG_RS16235	NA	NA	NA
SSPG_RS16240	NA	NA	NA
SSPG_RS16305	0	0	0
SSPG_RS16315	0.0027	0	NA
SSPG_RS16320	NA	NA	NA
SSPG_RS16325	NA	NA	NA
SSPG_RS16330	0	0.02	0
SSPG_RS16335	0	0	0
SSPG_RS16340	NA	NA	NA
SSPG_RS16345	0.0022	0.0112	0.1974
SSPG_RS16385	NA	NA	NA
SSPG_RS16390	0	0	0
SSPG_RS16395	0.0025	0.01475	NA
SSPG_RS16400	0	0	0
SSPG_RS16420	NA	NA	NA
SSPG_RS16425	NA	NA	NA
SSPG_RS16430	NA	NA	NA
SSPG_RS16435	NA	NA	NA
SSPG_RS16440	0.006	0	NA
SSPG_RS16445	0	0.0083	0
SSPG_RS16450	NA	NA	NA
SSPG_RS16460	0.00405	0.04165	0.382645
SSPG_RS16470	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS16480	0.0024	0.0275	0.0886
SSPG_RS16485	0.0051	0.0236	0.21502
SSPG_RS16490	NA	NA	NA
SSPG_RS16495	NA	NA	NA
SSPG_RS16510	0	0.0791	0
SSPG_RS16515	NA	NA	NA
SSPG_RS16520	0.0026	0	NA
SSPG_RS16525	NA	NA	NA
SSPG_RS16530	0	0.0493	0
SSPG_RS16535	NA	NA	NA
SSPG_RS16550	NA	NA	NA
SSPG_RS16555	NA	NA	NA
SSPG_RS16560	NA	NA	NA
SSPG_RS16565	NA	NA	NA
SSPG_RS16570	0.0014	0.0118	0.22843
SSPG_RS16590	NA	NA	NA
SSPG_RS16605	NA	NA	NA
SSPG_RS16610	NA	NA	NA
SSPG_RS16615	NA	NA	NA
SSPG_RS16620	NA	NA	NA
SSPG_RS16645	0	0	0
SSPG_RS16650	NA	NA	NA
SSPG_RS16655	0.0021	0	NA
SSPG_RS16660	NA	NA	NA
SSPG_RS16665	NA	NA	NA
SSPG_RS16670	NA	NA	NA
SSPG_RS16675	NA	NA	NA
SSPG_RS16685	NA	NA	NA
SSPG_RS16700	0.0016	0.0312	0.05001
SSPG_RS16710	NA	NA	NA
SSPG_RS16730	NA	NA	NA
SSPG_RS16735	0	0	0
SSPG_RS16755	0.0008	0.016	0.05174
SSPG_RS16760	0	0.005	0
SSPG_RS16770	NA	NA	NA
SSPG_RS16775	0	0.0071	0
SSPG_RS16780	NA	NA	NA
SSPG_RS16785	0.0105	0.08895	0.09333
SSPG_RS16795	NA	NA	NA
SSPG_RS16810	NA	NA	NA
SSPG_RS16820	NA	NA	NA
SSPG_RS16825	0.0004	0.0339	0.01304
SSPG_RS16840	0	0.0181	0
SSPG_RS16850	0.0016	0.0291	0.05387
SSPG_RS16870	NA	NA	NA
SSPG_RS16885	0.0048	0	NA
SSPG_RS16890	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS16895	NA	NA	NA
SSPG_RS16910	NA	NA	NA
SSPG_RS16915	NA	NA	NA
SSPG_RS16925	NA	NA	NA
SSPG_RS16940	NA	NA	NA
SSPG_RS16950	0.001	0	NA
SSPG_RS16965	NA	NA	NA
SSPG_RS16975	0.0011	0.0168	0.06425
SSPG_RS16990	0.0018	0.0048	0.37509
SSPG_RS17000	NA	NA	NA
SSPG_RS17005	NA	NA	NA
SSPG_RS17010	0.0012	0.021	0.05845
SSPG_RS17025	0	0.0504	0
SSPG_RS17030	0	0.00565	0
SSPG_RS17035	NA	NA	NA
SSPG_RS17060	NA	NA	NA
SSPG_RS17070	NA	NA	NA
SSPG_RS17075	NA	NA	NA
SSPG_RS17080	0	0	0
SSPG_RS17085	0	0.0406	0
SSPG_RS17095	NA	NA	NA
SSPG_RS17100	NA	NA	NA
SSPG_RS17105	NA	NA	NA
SSPG_RS17110	0.0007	0.0187	0.021735
SSPG_RS17130	NA	NA	NA
SSPG_RS17135	0	0	0
SSPG_RS17145	NA	NA	NA
SSPG_RS17150	NA	NA	NA
SSPG_RS17160	0.0014	0	NA
SSPG_RS17165	0.0042	0.0247	0.17049
SSPG_RS17170	0.006	0.0102	0.58779
SSPG_RS17620	0.0224	0.2384	0.09408
SSPG_RS17625	NA	NA	NA
SSPG_RS17630	0.0158	0.2222	0.07097
SSPG_RS17635	0.0219	0.2105	0.105385
SSPG_RS17650	0.0108	0.21145	0.050555
SSPG_RS17655	0.0284	0.188	0.15086
SSPG_RS17670	0.024	0.0628	0.38179
SSPG_RS17680	0.01	0.0921	0.10895
SSPG_RS17690	0.0405	0.237333333333333	0.16621
SSPG_RS17700	0.02	0.2694	0.07426
SSPG_RS17705	0.0473666666666667	0.277133333333333	0.18508
SSPG_RS17710	0.0521	0.211	0.24705
SSPG_RS17755	NA	NA	NA
SSPG_RS17765	NA	NA	NA
SSPG_RS17770	NA	NA	NA
SSPG_RS17775	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS17785	NA	NA	NA
SSPG_RS17795	NA	NA	NA
SSPG_RS17815	NA	NA	NA
SSPG_RS17825	NA	NA	NA
SSPG_RS17835	NA	NA	NA
SSPG_RS17850	0	0.0319	0
SSPG_RS17855	0.0004	0.01425	0.02389
SSPG_RS17860	0.0024	0.0082	0.29228
SSPG_RS17870	NA	NA	NA
SSPG_RS17875	NA	NA	NA
SSPG_RS17885	NA	NA	NA
SSPG_RS17890	NA	NA	NA
SSPG_RS17900	NA	NA	NA
SSPG_RS17905	0.0011	0	NA
SSPG_RS17910	0.0016	0.0245	0.06487
SSPG_RS17915	NA	NA	NA
SSPG_RS17930	0.0014	0.0355	0.04005
SSPG_RS17945	NA	NA	NA
SSPG_RS17950	NA	NA	NA
SSPG_RS17955	NA	NA	NA
SSPG_RS17965	NA	NA	NA
SSPG_RS18000	NA	NA	NA
SSPG_RS18005	NA	NA	NA
SSPG_RS18015	0	0.05035	0
SSPG_RS18020	NA	NA	NA
SSPG_RS18030	NA	NA	NA
SSPG_RS18040	0	0.0286	0
SSPG_RS18050	NA	NA	NA
SSPG_RS18055	NA	NA	NA
SSPG_RS18090	0.0013	0.052	0.02546
SSPG_RS18095	NA	NA	NA
SSPG_RS18100	NA	NA	NA
SSPG_RS18115	NA	NA	NA
SSPG_RS18120	NA	NA	NA
SSPG_RS18125	0	0	0
SSPG_RS18140	0.0008	0.0659	0.0119
SSPG_RS18150	0	0.0214	0
SSPG_RS18155	0	0	0
SSPG_RS18160	NA	NA	NA
SSPG_RS18165	NA	NA	NA
SSPG_RS18170	NA	NA	NA
SSPG_RS18175	0.0026	0	NA
SSPG_RS18180	NA	NA	NA
SSPG_RS18190	0.001	0.01835	0.116815
SSPG_RS18200	NA	NA	NA
SSPG_RS18205	0.0058	0	NA
SSPG_RS18210	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS18215	NA	NA	NA
SSPG_RS18220	NA	NA	NA
SSPG_RS18230	NA	NA	NA
SSPG_RS18245	NA	NA	NA
SSPG_RS18260	NA	NA	NA
SSPG_RS18270	NA	NA	NA
SSPG_RS18275	NA	NA	NA
SSPG_RS18280	NA	NA	NA
SSPG_RS18285	NA	NA	NA
SSPG_RS18300	NA	NA	NA
SSPG_RS18305	NA	NA	NA
SSPG_RS18310	NA	NA	NA
SSPG_RS18320	NA	NA	NA
SSPG_RS18325	NA	NA	NA
SSPG_RS18330	0.0009	0.0528	0.01716
SSPG_RS18335	NA	NA	NA
SSPG_RS18355	NA	NA	NA
SSPG_RS18370	NA	NA	NA
SSPG_RS18380	0.0048	0.0322	0.14897
SSPG_RS18400	NA	NA	NA
SSPG_RS18405	NA	NA	NA
SSPG_RS18430	0.0017	0.017	0.10035
SSPG_RS18440	0	0.0507	0
SSPG_RS18455	NA	NA	NA
SSPG_RS18465	0.0007	0.0076	0.09061
SSPG_RS18475	NA	NA	NA
SSPG_RS18480	NA	NA	NA
SSPG_RS18485	0	0	0
SSPG_RS18490	0.0017	0.0105333333333333	0.106343333333333
SSPG_RS18495	0	0.0148	0
SSPG_RS18505	0.0009	0.0282	0.03205
SSPG_RS18510	0.0046	0.0001	NA
SSPG_RS18515	NA	NA	NA
SSPG_RS18525	0	0	0
SSPG_RS18530	NA	NA	NA
SSPG_RS18535	0.0018	0.0106	0.17361
SSPG_RS18540	0.0007	0.0266	0.017305
SSPG_RS18545	0	0.0385	0
SSPG_RS18550	0.002	0.0199	0.09885
SSPG_RS18555	NA	NA	NA
SSPG_RS18560	NA	NA	NA
SSPG_RS18575	0.0044	0.03955	0.13651
SSPG_RS18600	NA	NA	NA
SSPG_RS18605	NA	NA	NA
SSPG_RS18610	NA	NA	NA
SSPG_RS18615	NA	NA	NA
SSPG_RS18620	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS18635	0	0	0
SSPG_RS18640	0.0007	0.0184	0.0367
SSPG_RS18645	NA	NA	NA
SSPG_RS18650	NA	NA	NA
SSPG_RS18655	NA	NA	NA
SSPG_RS18665	NA	NA	NA
SSPG_RS18705	NA	NA	NA
SSPG_RS18710	NA	NA	NA
SSPG_RS18720	0.004	0	NA
SSPG_RS18725	0.0015	0.092	0.01625
SSPG_RS18765	NA	NA	NA
SSPG_RS18770	NA	NA	NA
SSPG_RS18775	NA	NA	NA
SSPG_RS18780	NA	NA	NA
SSPG_RS18785	NA	NA	NA
SSPG_RS18795	NA	NA	NA
SSPG_RS18800	NA	NA	NA
SSPG_RS18810	0.0018	0.0449	0.19622
SSPG_RS18815	NA	NA	NA
SSPG_RS18820	NA	NA	NA
SSPG_RS18830	0.0012	0.1345	0.009
SSPG_RS18835	NA	NA	NA
SSPG_RS18840	0	0	0
SSPG_RS18850	0	0	0
SSPG_RS18855	0.0009	0.0131	0.06697
SSPG_RS18860	0.0013	0	NA
SSPG_RS18895	NA	NA	NA
SSPG_RS18900	0	0	0
SSPG_RS18905	0.003	0.0311	0.09618
SSPG_RS18910	0.0034	0.023	0.14898
SSPG_RS18920	NA	NA	NA
SSPG_RS18975	0	0.0397	0
SSPG_RS18980	0	0	0
SSPG_RS18990	NA	NA	NA
SSPG_RS19010	0	0.0828	0
SSPG_RS19015	0	0.0252	0
SSPG_RS19020	0.0058	0.0199	0.28923
SSPG_RS19045	NA	NA	NA
SSPG_RS19055	0.00085	0.0273	0.015345
SSPG_RS19060	NA	NA	NA
SSPG_RS19065	0.0007	0.0206	0.03329
SSPG_RS19070	NA	NA	NA
SSPG_RS19080	NA	NA	NA
SSPG_RS19090	0	0.0739	0
SSPG_RS19095	NA	NA	NA
SSPG_RS19115	NA	NA	NA
SSPG_RS19120	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS19125	NA	NA	NA
SSPG_RS19130	NA	NA	NA
SSPG_RS19135	NA	NA	NA
SSPG_RS19145	0.0006	0.1817	0.0034
SSPG_RS19150	NA	NA	NA
SSPG_RS19160	NA	NA	NA
SSPG_RS19165	NA	NA	NA
SSPG_RS19170	NA	NA	NA
SSPG_RS19180	0.0013	0	NA
SSPG_RS19200	0.0388	1.081	0.10453
SSPG_RS19205	0.0022	0.0691	NA
SSPG_RS19215	0.0016	0.0479	0.03446
SSPG_RS19220	NA	NA	NA
SSPG_RS19225	NA	NA	NA
SSPG_RS19240	NA	NA	NA
SSPG_RS19245	NA	NA	NA
SSPG_RS19250	NA	NA	NA
SSPG_RS19265	0	0	0
SSPG_RS19285	NA	NA	NA
SSPG_RS19295	0	0	0
SSPG_RS19305	NA	NA	NA
SSPG_RS19330	NA	NA	NA
SSPG_RS19335	0	0	0
SSPG_RS19340	NA	NA	NA
SSPG_RS19365	NA	NA	NA
SSPG_RS19370	NA	NA	NA
SSPG_RS19390	0.00385	0	NA
SSPG_RS19395	0.0009	0.0307	0.02801
SSPG_RS19400	0.0046	0.035	0.13157
SSPG_RS19405	0	0.0301	0
SSPG_RS19415	0	0.02615	0
SSPG_RS19420	0	0	0
SSPG_RS19430	NA	NA	NA
SSPG_RS19435	NA	NA	NA
SSPG_RS19440	NA	NA	NA
SSPG_RS19455	NA	NA	NA
SSPG_RS19460	NA	NA	NA
SSPG_RS19470	0	0.0305	0
SSPG_RS19480	NA	NA	NA
SSPG_RS19490	NA	NA	NA
SSPG_RS19505	0	0.0201	0
SSPG_RS19510	0.0008	0.0294	0.02652
SSPG_RS19515	NA	NA	NA
SSPG_RS19525	NA	NA	NA
SSPG_RS19530	0	0	0
SSPG_RS19535	0	0.0142	0
SSPG_RS19540	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS19545	0	0.0492	0
SSPG_RS19555	0	0.0076	0
SSPG_RS19590	0.005	0.01465	NA
SSPG_RS19610	NA	NA	NA
SSPG_RS19705	NA	NA	NA
SSPG_RS19710	NA	NA	NA
SSPG_RS19715	NA	NA	NA
SSPG_RS19720	NA	NA	NA
SSPG_RS19725	0.001	0.0499	0.0204
SSPG_RS19735	0	0.0347	0
SSPG_RS19745	0.0023	0.0428	0.05347
SSPG_RS19750	0.002	0.0303	0.06538
SSPG_RS19765	0.0014	0.0313	0.04429
SSPG_RS19770	0.0021	0.0497	0.0424
SSPG_RS19780	NA	NA	NA
SSPG_RS19785	NA	NA	NA
SSPG_RS19790	NA	NA	NA
SSPG_RS19800	NA	NA	NA
SSPG_RS19805	NA	NA	NA
SSPG_RS19810	0	0	0
SSPG_RS19830	0	0	0
SSPG_RS19835	NA	NA	NA
SSPG_RS19840	NA	NA	NA
SSPG_RS19850	NA	NA	NA
SSPG_RS19865	NA	NA	NA
SSPG_RS19875	NA	NA	NA
SSPG_RS19880	NA	NA	NA
SSPG_RS19885	NA	NA	NA
SSPG_RS19895	NA	NA	NA
SSPG_RS19910	NA	NA	NA
SSPG_RS19920	0	0.0149	0
SSPG_RS19925	NA	NA	NA
SSPG_RS19940	NA	NA	NA
SSPG_RS19955	0	0.0316	0
SSPG_RS20005	NA	NA	NA
SSPG_RS20015	NA	NA	NA
SSPG_RS20020	0.0012	0.0467	0.01264
SSPG_RS20025	0.0013	0.0103	0.12415
SSPG_RS20040	NA	NA	NA
SSPG_RS20045	NA	NA	NA
SSPG_RS20060	0	0	0
SSPG_RS20065	NA	NA	NA
SSPG_RS20070	0	0.0536	0
SSPG_RS20075	NA	NA	NA
SSPG_RS20085	0.0025	0.0223	0.11122
SSPG_RS20090	NA	NA	NA
SSPG_RS20095	0.00075	0	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS20100	0.0008	0.0101	0.08236
SSPG_RS20110	0.0009	0.0064	0.13226
SSPG_RS20125	0.0043	0.0068	0.63843
SSPG_RS20135	NA	NA	NA
SSPG_RS20140	NA	NA	NA
SSPG_RS20150	0.00235	0.01345	0.216205
SSPG_RS20155	NA	NA	NA
SSPG_RS20165	NA	NA	NA
SSPG_RS20175	NA	NA	NA
SSPG_RS20180	NA	NA	NA
SSPG_RS20190	NA	NA	NA
SSPG_RS20195	NA	NA	NA
SSPG_RS20200	NA	NA	NA
SSPG_RS20205	NA	NA	NA
SSPG_RS20210	0	0.0336	0
SSPG_RS20220	NA	NA	NA
SSPG_RS20225	NA	NA	NA
SSPG_RS20245	0	0	0
SSPG_RS20250	0	0	0
SSPG_RS20260	0.0092	0.0612	0.15068
SSPG_RS20265	0.0054	0.0361	0.14995
SSPG_RS20270	NA	NA	NA
SSPG_RS20275	0.0011	0.0361	NA
SSPG_RS20325	0.00495	0.03955	0.14234
SSPG_RS20330	0.02705	0.04275	0.575525
SSPG_RS20340	0	0.0514	0
SSPG_RS20345	0	0	0
SSPG_RS20350	NA	NA	NA
SSPG_RS20355	NA	NA	NA
SSPG_RS20360	NA	NA	NA
SSPG_RS20365	NA	NA	NA
SSPG_RS20375	NA	NA	NA
SSPG_RS20380	0	0.0447	0
SSPG_RS20400	NA	NA	NA
SSPG_RS20405	0.0025	0.0652	0.03877
SSPG_RS20415	0	0	0
SSPG_RS20425	0	0	0
SSPG_RS20430	0	0	0
SSPG_RS20445	NA	NA	NA
SSPG_RS20450	0	0.036	0
SSPG_RS20455	0	0	0
SSPG_RS20485	NA	NA	NA
SSPG_RS20490	0.001	0.03305	0.02552
SSPG_RS20495	0	0.0177	0
SSPG_RS20500	NA	NA	NA
SSPG_RS20505	0.00106666666666667	0.0183333333333333	NA
SSPG_RS20510	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS20520	NA	NA	NA
SSPG_RS20525	0.001	0.0202	0.04829
SSPG_RS20530	0	0.0086	0
SSPG_RS20540	0.0011	0.0096	0.11362
SSPG_RS20550	0.0011	0.0348	0.03278
SSPG_RS20570	NA	NA	NA
SSPG_RS20575	NA	NA	NA
SSPG_RS20580	0.0005	0.0257	0.02087
SSPG_RS20600	NA	NA	NA
SSPG_RS20620	0	0.0128	0
SSPG_RS20670	NA	NA	NA
SSPG_RS20675	0.0022	0	NA
SSPG_RS20700	NA	NA	NA
SSPG_RS20705	NA	NA	NA
SSPG_RS20715	NA	NA	NA
SSPG_RS20720	NA	NA	NA
SSPG_RS20725	NA	NA	NA
SSPG_RS20740	NA	NA	NA
SSPG_RS20755	NA	NA	NA
SSPG_RS20765	NA	NA	NA
SSPG_RS20770	NA	NA	NA
SSPG_RS20775	NA	NA	NA
SSPG_RS20780	NA	NA	NA
SSPG_RS20785	NA	NA	NA
SSPG_RS20820	0	0.0316	0
SSPG_RS20825	0.0007	0.0369	0.02024
SSPG_RS20830	NA	NA	NA
SSPG_RS20835	0.0006	0.0351	0.01655
SSPG_RS20855	NA	NA	NA
SSPG_RS20865	NA	NA	NA
SSPG_RS20870	NA	NA	NA
SSPG_RS20880	0	0.02605	0
SSPG_RS20885	0.00215	0.0458	0.21089
SSPG_RS20895	NA	NA	NA
SSPG_RS20900	0.0015	0.0463	0.03201
SSPG_RS20905	0.0028	0.021	0.13458
SSPG_RS20915	0.0014	0.0156	0.08959
SSPG_RS20930	0.0028	0.0378	0.07469
SSPG_RS20935	NA	NA	NA
SSPG_RS20940	NA	NA	NA
SSPG_RS20945	0	0.03382	0
SSPG_RS20950	NA	NA	NA
SSPG_RS20955	0	0.0289	0
SSPG_RS20960	NA	NA	NA
SSPG_RS20965	NA	NA	NA
SSPG_RS20975	0.0012	0.0179	0.06875
SSPG_RS20980	0.0019	0.0118	0.15936

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS20995	NA	NA	NA
SSPG_RS21005	0	0.0352	0
SSPG_RS21010	0	0.021	0
SSPG_RS21015	0	0.016	0
SSPG_RS21020	NA	NA	NA
SSPG_RS21025	NA	NA	NA
SSPG_RS21030	NA	NA	NA
SSPG_RS21045	0	0.0463	0
SSPG_RS21050	NA	NA	NA
SSPG_RS21055	NA	NA	NA
SSPG_RS21060	0	0.0114	0
SSPG_RS21085	NA	NA	NA
SSPG_RS21090	NA	NA	NA
SSPG_RS21100	0.0063	0.0607	0.10351
SSPG_RS21105	NA	NA	NA
SSPG_RS21115	NA	NA	NA
SSPG_RS21120	NA	NA	NA
SSPG_RS21125	0	0.0236	0
SSPG_RS21135	NA	NA	NA
SSPG_RS21170	NA	NA	NA
SSPG_RS21180	NA	NA	NA
SSPG_RS21195	NA	NA	NA
SSPG_RS21200	NA	NA	NA
SSPG_RS21205	NA	NA	NA
SSPG_RS21210	NA	NA	NA
SSPG_RS21215	NA	NA	NA
SSPG_RS21225	NA	NA	NA
SSPG_RS21230	NA	NA	NA
SSPG_RS21245	NA	NA	NA
SSPG_RS21255	NA	NA	NA
SSPG_RS21275	0.0017	0.0081	0.20762
SSPG_RS21305	NA	NA	NA
SSPG_RS21325	NA	NA	NA
SSPG_RS21330	NA	NA	NA
SSPG_RS21340	NA	NA	NA
SSPG_RS21345	NA	NA	NA
SSPG_RS21350	0	0	0
SSPG_RS21355	NA	NA	NA
SSPG_RS21360	NA	NA	NA
SSPG_RS21365	0	0	0
SSPG_RS21375	NA	NA	NA
SSPG_RS21385	NA	NA	NA
SSPG_RS21400	NA	NA	NA
SSPG_RS21420	0.0012	0.0519	0.02395
SSPG_RS21435	NA	NA	NA
SSPG_RS21445	0.0017	0.0444	0.03893
SSPG_RS21455	0	0.1429	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS21475	0	0.0187	0
SSPG_RS21480	0	0.0276	0
SSPG_RS21485	0.0036	0.033	0.1094
SSPG_RS21490	NA	NA	NA
SSPG_RS21495	0.0031	0.018	0.17154
SSPG_RS21500	NA	NA	NA
SSPG_RS21505	NA	NA	NA
SSPG_RS21515	NA	NA	NA
SSPG_RS21520	0	0	0
SSPG_RS21525	NA	NA	NA
SSPG_RS21530	0	0.03235	0
SSPG_RS21535	0.0018	0.0322	0.0559
SSPG_RS21540	NA	NA	NA
SSPG_RS21545	0	0	0
SSPG_RS21550	NA	NA	NA
SSPG_RS21560	NA	NA	NA
SSPG_RS21565	NA	NA	NA
SSPG_RS21575	0.0038	0.044725	0.0496125
SSPG_RS21580	NA	NA	NA
SSPG_RS21585	NA	NA	NA
SSPG_RS21590	0.0032	0.0144	0.21947
SSPG_RS21595	0.0033	0.0059	0.55467
SSPG_RS21605	0.00165	0.02595	0.045165
SSPG_RS21640	NA	NA	NA
SSPG_RS21645	NA	NA	NA
SSPG_RS21650	NA	NA	NA
SSPG_RS21655	0	0.0188	0
SSPG_RS21675	0.0029	0.0461	0.06338
SSPG_RS21690	0.0012	0.0617	0.01909
SSPG_RS21695	0.0009	0.0246	0.03861
SSPG_RS21710	0	0.0229	0
SSPG_RS21715	0.0019	0.0383	NA
SSPG_RS21720	NA	NA	NA
SSPG_RS21725	0.001	0.0493	0.01934
SSPG_RS21730	0.0014	0	NA
SSPG_RS21735	0.0009	0.0075	0.11823
SSPG_RS21740	NA	NA	NA
SSPG_RS21745	NA	NA	NA
SSPG_RS21755	0.0013	0.0285	0.0441
SSPG_RS21760	NA	NA	NA
SSPG_RS21765	NA	NA	NA
SSPG_RS21780	0.0103	0.0338	0.30414
SSPG_RS21800	0	0.032	0
SSPG_RS21805	NA	NA	NA
SSPG_RS21810	0	0.0086	0
SSPG_RS21815	NA	NA	NA
SSPG_RS21820	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS21830	0	0	0
SSPG_RS21835	0	0.0132	0
SSPG_RS21840	NA	NA	NA
SSPG_RS21850	0.00315	0.01505	NA
SSPG_RS21860	NA	NA	NA
SSPG_RS21870	NA	NA	NA
SSPG_RS21875	NA	NA	NA
SSPG_RS21880	0.0015	0.0518	0.02856
SSPG_RS21890	NA	NA	NA
SSPG_RS21900	NA	NA	NA
SSPG_RS21905	NA	NA	NA
SSPG_RS21920	0.0012	0.0063	0.19757
SSPG_RS21930	0	0	0
SSPG_RS21935	NA	NA	NA
SSPG_RS21945	0.0024	0.0168	0.14318
SSPG_RS21950	0	0	0
SSPG_RS21955	NA	NA	NA
SSPG_RS21960	NA	NA	NA
SSPG_RS21975	NA	NA	NA
SSPG_RS21985	0.0017	0.0059	0.28924
SSPG_RS21990	0.0013	0.0187	0.06824
SSPG_RS21995	NA	NA	NA
SSPG_RS22000	NA	NA	NA
SSPG_RS22005	0	0.061	0
SSPG_RS22020	0.00195	0.0394	NA
SSPG_RS22030	NA	NA	NA
SSPG_RS22035	NA	NA	NA
SSPG_RS22045	0.0105	0.1147	0.09163
SSPG_RS22060	NA	NA	NA
SSPG_RS22065	NA	NA	NA
SSPG_RS22070	NA	NA	NA
SSPG_RS22075	0.0066	0.0302	0.21929
SSPG_RS22080	NA	NA	NA
SSPG_RS22090	0.0022	0.0084	0.26455
SSPG_RS22105	0	0.0132	0
SSPG_RS22110	0	0	0
SSPG_RS22120	0.0013	0.036	0.03661
SSPG_RS22130	0	0.0606	0
SSPG_RS22135	NA	NA	NA
SSPG_RS22150	NA	NA	NA
SSPG_RS22165	NA	NA	NA
SSPG_RS22170	0	0.00575	0
SSPG_RS22180	NA	NA	NA
SSPG_RS22185	0	0.0185	0
SSPG_RS22195	0.0027	0	NA
SSPG_RS22200	0	0.0382666666666667	0
SSPG_RS22205	0	0.0197	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS22210	0.0022	0	NA
SSPG_RS22215	0	0.03	0
SSPG_RS22220	0	0.0465	0
SSPG_RS22225	NA	NA	NA
SSPG_RS22230	NA	NA	NA
SSPG_RS22245	0.0017	0.0563	0.02965
SSPG_RS22255	NA	NA	NA
SSPG_RS22260	0	0	0
SSPG_RS22270	NA	NA	NA
SSPG_RS22290	0	0	0
SSPG_RS22305	NA	NA	NA
SSPG_RS22310	NA	NA	NA
SSPG_RS22320	NA	NA	NA
SSPG_RS22325	NA	NA	NA
SSPG_RS22330	NA	NA	NA
SSPG_RS22335	NA	NA	NA
SSPG_RS22340	NA	NA	NA
SSPG_RS22350	0.0128	0.0302	0.42209
SSPG_RS22360	0.0009	0.0166	0.05173
SSPG_RS22365	0	0.0191	0
SSPG_RS22370	0	0.02645	0
SSPG_RS22375	0	0.06445	0
SSPG_RS22405	NA	NA	NA
SSPG_RS22415	NA	NA	NA
SSPG_RS22420	NA	NA	NA
SSPG_RS22425	0.0116	0.1619	0.0718
SSPG_RS22430	0.0018	0.0279	0.06492
SSPG_RS22435	0	0.00945	0
SSPG_RS22440	0	0.0117	0
SSPG_RS22465	0.00293333333333333	0.307966666666667	1.81341666666667
SSPG_RS22470	NA	NA	NA
SSPG_RS22475	0	0.0094	0
SSPG_RS22480	0	0.014	0
SSPG_RS22490	NA	NA	NA
SSPG_RS22495	NA	NA	NA
SSPG_RS22500	NA	NA	NA
SSPG_RS22505	0	0.0065	0
SSPG_RS22510	0.00115	0.03275	0.065485
SSPG_RS22515	0	0	0
SSPG_RS22525	0.0013	0.0215	0.06153
SSPG_RS22535	0	0.0632	0
SSPG_RS22540	0.0013	0.0244	0.02644
SSPG_RS22545	0	0	0
SSPG_RS22550	0	0.0151	0
SSPG_RS22570	0	0.0326	0
SSPG_RS22585	NA	NA	NA
SSPG_RS22590	0	0.0317	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS22600	NA	NA	NA
SSPG_RS22605	0	0.0274	0
SSPG_RS22610	0	0.0779	0
SSPG_RS22615	0	0.0247	0
SSPG_RS22625	NA	NA	NA
SSPG_RS22630	0	0.0089	0
SSPG_RS22650	NA	NA	NA
SSPG_RS22655	NA	NA	NA
SSPG_RS22660	NA	NA	NA
SSPG_RS22665	NA	NA	NA
SSPG_RS22670	NA	NA	NA
SSPG_RS22675	0	0.03665	0
SSPG_RS22685	0.0012	0.0554	0.02082
SSPG_RS22690	0.000933333333333333	0.0604	0.00791
SSPG_RS22695	0.0017	0.0498	0.03435
SSPG_RS22705	0.0014	0.012	0.1168
SSPG_RS22720	NA	NA	NA
SSPG_RS22725	0.0043	0.0645	0.06737
SSPG_RS22805	0.0056	0.0936	0.0595
SSPG_RS22815	0.05685	0.2144	0.286775
SSPG_RS22820	NA	NA	NA
SSPG_RS22825	0.00176666666666667	0.0091	NA
SSPG_RS22830	NA	NA	NA
SSPG_RS22835	0.0042	0.02575	0.16598
SSPG_RS22840	0.0011	0.0277	0.03859
SSPG_RS22845	NA	NA	NA
SSPG_RS22850	NA	NA	NA
SSPG_RS22855	0	0	0
SSPG_RS22860	0	0	0
SSPG_RS22880	0.0003	0.0144	0.02197
SSPG_RS22925	0	0	0
SSPG_RS22930	NA	NA	NA
SSPG_RS22945	NA	NA	NA
SSPG_RS22950	0	0.0274	0
SSPG_RS22955	0.002	0.0077	0.25882
SSPG_RS22960	NA	NA	NA
SSPG_RS22970	NA	NA	NA
SSPG_RS22975	NA	NA	NA
SSPG_RS22980	NA	NA	NA
SSPG_RS22990	NA	NA	NA
SSPG_RS22995	0.00225	0.00975	0.114235
SSPG_RS23005	0	0.0247	0
SSPG_RS23010	0	0.0455	0
SSPG_RS23020	0.0033	0.0526	0.031545
SSPG_RS23025	NA	NA	NA
SSPG_RS23040	0	0.0174	0
SSPG_RS23070	0.0009	0	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS23075	0	0	0
SSPG_RS23080	0	0.0083	0
SSPG_RS23085	0	0	0
SSPG_RS23090	0	0	0
SSPG_RS23095	0	0	0
SSPG_RS23100	0	0	0
SSPG_RS23105	0	0	0
SSPG_RS23110	0	0.00233333333333333	0
SSPG_RS23115	0	0	0
SSPG_RS23120	0	0.0077	0
SSPG_RS23135	0	0	0
SSPG_RS23145	0	0	0
SSPG_RS23150	0	0.0067	0
SSPG_RS23160	NA	NA	NA
SSPG_RS23170	0	0	0
SSPG_RS23175	0	0.0359	0
SSPG_RS23190	NA	NA	NA
SSPG_RS23200	0.0042	0	NA
SSPG_RS23205	0	0.0382	0
SSPG_RS23220	NA	NA	NA
SSPG_RS23225	0	0	0
SSPG_RS23230	NA	NA	NA
SSPG_RS23260	NA	NA	NA
SSPG_RS23270	0	0.0337	0
SSPG_RS23275	0.0138	0	NA
SSPG_RS23280	0.001	0.034	0.0303
SSPG_RS23285	0.0034	0.0226	0.14899
SSPG_RS23290	0.0018	0.0251	0.07047
SSPG_RS23295	NA	NA	NA
SSPG_RS23300	0.005	0.0336	0.14986
SSPG_RS23310	0.0028	0.0653	0.04341
SSPG_RS23320	0	0	0
SSPG_RS23325	NA	NA	NA
SSPG_RS23335	NA	NA	NA
SSPG_RS23345	0	0.0532	0
SSPG_RS23350	0	0.0341	0
SSPG_RS23380	NA	NA	NA
SSPG_RS23390	0	0.029	0
SSPG_RS23450	0.0012	0.0072	0.17137
SSPG_RS23460	0.0006	0.0632	0.01013
SSPG_RS23470	0.0042	0.0974	0.04322
SSPG_RS23485	NA	NA	NA
SSPG_RS23500	0	0.0245	0
SSPG_RS23505	NA	NA	NA
SSPG_RS23510	0	0	0
SSPG_RS23515	0.00045	0	NA
SSPG_RS23520	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS23530	0.0015	0.1435	0.01018
SSPG_RS23535	NA	NA	NA
SSPG_RS23540	0	0	0
SSPG_RS23550	NA	NA	NA
SSPG_RS23555	NA	NA	NA
SSPG_RS23570	0.0009	0.0345	0.02482
SSPG_RS23585	NA	NA	NA
SSPG_RS23590	NA	NA	NA
SSPG_RS23595	0	0	0
SSPG_RS23625	0.0039	0.01875	0.21639
SSPG_RS23645	0	0	0
SSPG_RS23650	NA	NA	NA
SSPG_RS23665	NA	NA	NA
SSPG_RS23670	0	0	0
SSPG_RS23675	0.0014	0.0067	0.21377
SSPG_RS23685	NA	NA	NA
SSPG_RS23700	NA	NA	NA
SSPG_RS23710	NA	NA	NA
SSPG_RS23715	NA	NA	NA
SSPG_RS23720	NA	NA	NA
SSPG_RS23725	0.0013	0.0224	0.05977
SSPG_RS23730	0	0	0
SSPG_RS23735	0.0094	0.0065	1.4508
SSPG_RS23740	0	0.1082	0
SSPG_RS23750	0.0008	0.0266	0.02826
SSPG_RS23765	0.0019	0.0101	0.19248
SSPG_RS23770	0.0022	0.0838	0.02674
SSPG_RS23780	0.0011	0.0546	0.02054
SSPG_RS23785	NA	NA	NA
SSPG_RS23795	0	0	0
SSPG_RS23800	NA	NA	NA
SSPG_RS23805	0	0.0006	0
SSPG_RS23810	NA	NA	NA
SSPG_RS23815	NA	NA	NA
SSPG_RS23820	0	0.0096	0
SSPG_RS23825	0	0.0296	0
SSPG_RS23830	NA	NA	NA
SSPG_RS23835	0.0013	0.01025	0.0644
SSPG_RS23845	NA	NA	NA
SSPG_RS23850	NA	NA	NA
SSPG_RS23855	NA	NA	NA
SSPG_RS23860	NA	NA	NA
SSPG_RS23865	NA	NA	NA
SSPG_RS23870	NA	NA	NA
SSPG_RS23880	0.0017	0.08135	0.039965
SSPG_RS23900	NA	NA	NA
SSPG_RS23910	0.0029	0.0165	0.17621

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS23915	NA	NA	NA
SSPG_RS23925	NA	NA	NA
SSPG_RS23950	0	0	0
SSPG_RS23955	NA	NA	NA
SSPG_RS23960	NA	NA	NA
SSPG_RS23970	0.0017	0.041	0.04159
SSPG_RS23975	0.00085	0.0527	0.02013
SSPG_RS23980	0	0.0601	0
SSPG_RS23985	0.0009	0.0464	0.01891
SSPG_RS24010	0	0	0
SSPG_RS24025	0	0.07395	0
SSPG_RS24030	0.00045	0.01085	0.01985
SSPG_RS24035	0.0026	0.0299	0.08638
SSPG_RS24040	NA	NA	NA
SSPG_RS24045	0	0.0044	0
SSPG_RS24050	NA	NA	NA
SSPG_RS24055	NA	NA	NA
SSPG_RS24060	NA	NA	NA
SSPG_RS24070	0.0012	0.023	0.05357
SSPG_RS24075	NA	NA	NA
SSPG_RS24080	NA	NA	NA
SSPG_RS24085	0.0029	0.02005	NA
SSPG_RS24090	NA	NA	NA
SSPG_RS24095	NA	NA	NA
SSPG_RS24100	NA	NA	NA
SSPG_RS24105	0.00255	0.01345	NA
SSPG_RS24110	0.0045	0.0337	0.13439
SSPG_RS24125	NA	NA	NA
SSPG_RS24130	NA	NA	NA
SSPG_RS24135	0	0.0515	0
SSPG_RS24140	NA	NA	NA
SSPG_RS24160	0.0008	0.0238	0.03383
SSPG_RS24165	NA	NA	NA
SSPG_RS24170	0.0049	0.0256	0.19117
SSPG_RS24175	NA	NA	NA
SSPG_RS24190	0.0063	0.1215	0.05196
SSPG_RS24200	0.0042	0.1656	0.02556
SSPG_RS24215	0.0028	0.0787	0.03528
SSPG_RS24220	0.001	0.0557	0.01732
SSPG_RS24230	0	0.0159	0
SSPG_RS24240	0.00045	0.0281	0.01326
SSPG_RS24245	0.0022	0.1116	0.01964
SSPG_RS24250	NA	NA	NA
SSPG_RS24255	0.0012	0.0565	0.02165
SSPG_RS24260	NA	NA	NA
SSPG_RS24265	0	0	0
SSPG_RS24270	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS24280	NA	NA	NA
SSPG_RS24285	0	0.0073	0
SSPG_RS24290	0	0.0035	0
SSPG_RS24305	0	0	0
SSPG_RS24315	NA	NA	NA
SSPG_RS24320	NA	NA	NA
SSPG_RS24330	NA	NA	NA
SSPG_RS24335	0	0.0279	0
SSPG_RS24365	0	0	0
SSPG_RS24370	NA	NA	NA
SSPG_RS24390	0.0022	0.0442	0.05075
SSPG_RS24395	0	0.0364	0
SSPG_RS24400	0.0013	0.0442	0.03016
SSPG_RS24405	0	0.0219	0
SSPG_RS24410	0.001	0.0096	0.10902
SSPG_RS24415	NA	NA	NA
SSPG_RS24420	NA	NA	NA
SSPG_RS24425	NA	NA	NA
SSPG_RS24430	0	0.0536	0
SSPG_RS24435	NA	NA	NA
SSPG_RS24440	NA	NA	NA
SSPG_RS24445	NA	NA	NA
SSPG_RS24455	NA	NA	NA
SSPG_RS24470	NA	NA	NA
SSPG_RS24475	NA	NA	NA
SSPG_RS24485	0.0021	0.0352	0.05955
SSPG_RS24490	0	0.0173	0
SSPG_RS24495	0	0.0226	0
SSPG_RS24505	0.000566666666666667	0.00333333333333333	0.0552566666666667
SSPG_RS24515	NA	NA	NA
SSPG_RS24520	NA	NA	NA
SSPG_RS24540	NA	NA	NA
SSPG_RS24545	0.0025	0.0174	0.14107
SSPG_RS24550	0.000725	0.0456	0.0109175
SSPG_RS24555	0	0.0062	0
SSPG_RS24565	0.0036	0.024	0.14864
SSPG_RS24575	0.0021	0.0246	0.08604
SSPG_RS24585	0.0023	0.0281	0.08068
SSPG_RS24590	NA	NA	NA
SSPG_RS24595	0.0097	0	NA
SSPG_RS24600	0.0021	0	NA
SSPG_RS24605	0	0	0
SSPG_RS24610	0	0	0
SSPG_RS24625	0.00075	0.00695	0.05523
SSPG_RS24630	NA	NA	NA
SSPG_RS24640	0	0.013	0
SSPG_RS24655	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS24670	NA	NA	NA
SSPG_RS24675	NA	NA	NA
SSPG_RS24680	NA	NA	NA
SSPG_RS24685	NA	NA	NA
SSPG_RS24690	0	0.0043	0
SSPG_RS24705	NA	NA	NA
SSPG_RS24710	NA	NA	NA
SSPG_RS24715	NA	NA	NA
SSPG_RS24725	NA	NA	NA
SSPG_RS24730	0.0032	0.0184	0.17307
SSPG_RS24735	NA	NA	NA
SSPG_RS24745	0	0.0128	0
SSPG_RS24765	NA	NA	NA
SSPG_RS24770	NA	NA	NA
SSPG_RS24775	0	0.0523	0
SSPG_RS24780	NA	NA	NA
SSPG_RS24785	NA	NA	NA
SSPG_RS24790	NA	NA	NA
SSPG_RS24795	NA	NA	NA
SSPG_RS24800	NA	NA	NA
SSPG_RS24805	NA	NA	NA
SSPG_RS24810	0	0.0242	0
SSPG_RS24915	NA	NA	NA
SSPG_RS24925	0.0014	0.0126	0.1076
SSPG_RS24935	0	0	0
SSPG_RS24940	0.002525	0.019525	NA
SSPG_RS24945	0.0008	0.031	0.02697
SSPG_RS24950	0.0059	0.0317	0.18495
SSPG_RS24955	NA	NA	NA
SSPG_RS24970	NA	NA	NA
SSPG_RS24975	NA	NA	NA
SSPG_RS24980	0.0034	0.0638	0.05379
SSPG_RS24985	0	0.0706	0
SSPG_RS24995	0	0.0177	0
SSPG_RS25000	0	0	0
SSPG_RS25015	0	0	0
SSPG_RS25020	0	0.007	0
SSPG_RS25035	0	0.035	0
SSPG_RS25040	0	0.0485	0
SSPG_RS25045	0.0006	0.1235	0.00374
SSPG_RS25050	0.002	0.0133	0.15352
SSPG_RS25060	NA	NA	NA
SSPG_RS25070	NA	NA	NA
SSPG_RS25080	0.00285	0.05795	0.07863
SSPG_RS25095	0	0	0
SSPG_RS25105	0	0	0
SSPG_RS25110	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS25115	NA	NA	NA
SSPG_RS25120	NA	NA	NA
SSPG_RS25125	0	0	0
SSPG_RS25130	NA	NA	NA
SSPG_RS25135	NA	NA	NA
SSPG_RS25140	0.001	0	NA
SSPG_RS25145	0.0017	0.03485	NA
SSPG_RS25150	NA	NA	NA
SSPG_RS25155	NA	NA	NA
SSPG_RS25160	NA	NA	NA
SSPG_RS25165	0	0	0
SSPG_RS25170	0.0025	0.0264	0.09654
SSPG_RS25185	0.0041	0.0649	0.06363
SSPG_RS25195	0	0.0626	0
SSPG_RS25200	0	0	0
SSPG_RS25215	NA	NA	NA
SSPG_RS25220	NA	NA	NA
SSPG_RS25225	0	0.0347	0
SSPG_RS25230	NA	NA	NA
SSPG_RS25240	NA	NA	NA
SSPG_RS25245	0	0	0
SSPG_RS25260	NA	NA	NA
SSPG_RS25280	NA	NA	NA
SSPG_RS25285	0.0007	0.0039	0.18232
SSPG_RS25290	0.0007	0	NA
SSPG_RS25310	0	0.0098	0
SSPG_RS25315	0	0	0
SSPG_RS25320	NA	NA	NA
SSPG_RS25325	NA	NA	NA
SSPG_RS25335	NA	NA	NA
SSPG_RS25345	0.003	0	NA
SSPG_RS25355	0.0023	0.0308	0.07477
SSPG_RS25365	0.0006	0.0144	0.0398
SSPG_RS25390	0	0	0
SSPG_RS25395	NA	NA	NA
SSPG_RS25400	0.0005	0	NA
SSPG_RS25410	0	0	0
SSPG_RS25415	NA	NA	NA
SSPG_RS25420	0	0	0
SSPG_RS25435	NA	NA	NA
SSPG_RS25440	NA	NA	NA
SSPG_RS25445	0	0.00365	0
SSPG_RS25475	NA	NA	NA
SSPG_RS25495	0	0	0
SSPG_RS25505	NA	NA	NA
SSPG_RS25510	NA	NA	NA
SSPG_RS25515	0.0021	0.0166	0.12447

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS25520	NA	NA	NA
SSPG_RS25530	0	0.0002	0
SSPG_RS25535	0	0.0091	0
SSPG_RS25540	0.0009	0.0211	0.04035
SSPG_RS25545	0.0003	0.0396333333333333	0.01576
SSPG_RS25560	NA	NA	NA
SSPG_RS25565	NA	NA	NA
SSPG_RS25585	NA	NA	NA
SSPG_RS25590	NA	NA	NA
SSPG_RS25595	NA	NA	NA
SSPG_RS25600	0	0.0303	0
SSPG_RS25610	0	0.08315	0
SSPG_RS25625	NA	NA	NA
SSPG_RS25630	NA	NA	NA
SSPG_RS25635	NA	NA	NA
SSPG_RS25640	NA	NA	NA
SSPG_RS25645	NA	NA	NA
SSPG_RS25650	NA	NA	NA
SSPG_RS25655	0	0.0335	0
SSPG_RS25660	NA	NA	NA
SSPG_RS25670	0.0045	0.0795	0.03147
SSPG_RS25680	0	0.0498	0
SSPG_RS25685	NA	NA	NA
SSPG_RS25690	NA	NA	NA
SSPG_RS25695	0.0027	0.0232	0.11564
SSPG_RS25700	NA	NA	NA
SSPG_RS25705	NA	NA	NA
SSPG_RS25710	NA	NA	NA
SSPG_RS25715	0	0.0277	0
SSPG_RS25730	0	0.0295	0
SSPG_RS25740	NA	NA	NA
SSPG_RS25745	NA	NA	NA
SSPG_RS25750	0	0	0
SSPG_RS25760	0.0022	0.0313	0.0697
SSPG_RS25785	0.001	0.054	0.01823
SSPG_RS25790	0	0	0
SSPG_RS25795	0.0022	0.0108	0.2086
SSPG_RS25810	0.0004	0.0289	0.01325
SSPG_RS25815	0.0028	0	NA
SSPG_RS25820	0	0.0085	0
SSPG_RS25850	0.0007	0.0217	0.0306
SSPG_RS25890	NA	NA	NA
SSPG_RS25895	NA	NA	NA
SSPG_RS25900	NA	NA	NA
SSPG_RS25905	0.0009	0.0254	0.03622
SSPG_RS25910	NA	NA	NA
SSPG_RS25930	0.0018	0.0214	0.08609

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS25940	0	0.012	0
SSPG_RS25945	0	0.0112	0
SSPG_RS25955	NA	NA	NA
SSPG_RS25960	NA	NA	NA
SSPG_RS25970	NA	NA	NA
SSPG_RS25985	NA	NA	NA
SSPG_RS26015	NA	NA	NA
SSPG_RS26020	0.0014	0.0189	0.07649
SSPG_RS26025	NA	NA	NA
SSPG_RS26035	NA	NA	NA
SSPG_RS26040	NA	NA	NA
SSPG_RS26045	NA	NA	NA
SSPG_RS26050	NA	NA	NA
SSPG_RS26055	NA	NA	NA
SSPG_RS26065	NA	NA	NA
SSPG_RS26070	NA	NA	NA
SSPG_RS26090	0.0006	0.0222	0.02818
SSPG_RS26095	NA	NA	NA
SSPG_RS26190	0.0126	0.033	0.38007
SSPG_RS26195	0.0043	0.0499	0.08596
SSPG_RS26200	0.0016	0.0155	0.10365
SSPG_RS26210	0.0009	0.0407	0.02174
SSPG_RS26215	0	0.0237	0
SSPG_RS26220	0.0012	0.0267	0.04656
SSPG_RS26225	0	0.0577	0
SSPG_RS26235	0	0.0825	0
SSPG_RS26245	0	0	0
SSPG_RS26250	0	0.0093	0
SSPG_RS26255	0	0.033	0
SSPG_RS26260	0	0.0376	0
SSPG_RS26265	0	0.0092	0
SSPG_RS26270	0	0	0
SSPG_RS26275	0	0.0059	0
SSPG_RS26280	0	0.0145	0
SSPG_RS26285	0	0.0068	0
SSPG_RS26295	0	0.0103	0
SSPG_RS26305	0	0	0
SSPG_RS26310	0	0.0175	0
SSPG_RS26315	NA	NA	NA
SSPG_RS26325	NA	NA	NA
SSPG_RS26330	NA	NA	NA
SSPG_RS26335	0.002	0.0124	0.16485
SSPG_RS26345	NA	NA	NA
SSPG_RS26350	0	0.0206	0
SSPG_RS26355	0.0025	0.1352	0.01877
SSPG_RS26375	0.0027	0.0364	0.07319
SSPG_RS26380	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS26385	NA	NA	NA
SSPG_RS26390	NA	NA	NA
SSPG_RS26400	NA	NA	NA
SSPG_RS26415	NA	NA	NA
SSPG_RS26440	NA	NA	NA
SSPG_RS26445	0	0	0
SSPG_RS26465	0	0.0248	0
SSPG_RS26470	NA	NA	NA
SSPG_RS26475	NA	NA	NA
SSPG_RS26485	NA	NA	NA
SSPG_RS26505	0	0.0239	0
SSPG_RS26520	NA	NA	NA
SSPG_RS26525	0	0.0681	0
SSPG_RS26535	0.0114	0.0336	0.33815
SSPG_RS26540	0.0071	0.0996	0.07155
SSPG_RS26545	NA	NA	NA
SSPG_RS26560	NA	NA	NA
SSPG_RS26570	NA	NA	NA
SSPG_RS26575	0	0.0323	0
SSPG_RS26585	NA	NA	NA
SSPG_RS26590	NA	NA	NA
SSPG_RS26595	NA	NA	NA
SSPG_RS26600	NA	NA	NA
SSPG_RS26610	NA	NA	NA
SSPG_RS26625	NA	NA	NA
SSPG_RS26635	NA	NA	NA
SSPG_RS26645	0	0.0781	0
SSPG_RS26650	0	0.0102	0
SSPG_RS26670	NA	NA	NA
SSPG_RS26675	NA	NA	NA
SSPG_RS26680	NA	NA	NA
SSPG_RS26690	NA	NA	NA
SSPG_RS26705	NA	NA	NA
SSPG_RS26715	NA	NA	NA
SSPG_RS26725	NA	NA	NA
SSPG_RS26730	NA	NA	NA
SSPG_RS26740	NA	NA	NA
SSPG_RS26750	0	0	0
SSPG_RS26760	0	0.0256	0
SSPG_RS26765	0.0009	0.0214	0.04098
SSPG_RS26795	0.0035	0.0572	0.06077
SSPG_RS26800	0.0009	0.0248	0.0364
SSPG_RS26805	0.0029	0.0136	0.21487
SSPG_RS26815	0	0	0
SSPG_RS26825	0.0013	0.0219	0.05958
SSPG_RS26835	NA	NA	NA
SSPG_RS26845	0.0015	0.0457	0.03252

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS26850	NA	NA	NA
SSPG_RS26860	NA	NA	NA
SSPG_RS26865	NA	NA	NA
SSPG_RS26875	0.00085	0.0367	0.016575
SSPG_RS26880	0.0016	0	NA
SSPG_RS26885	0	0	0
SSPG_RS26895	0	0.02135	0
SSPG_RS26910	NA	NA	NA
SSPG_RS26925	NA	NA	NA
SSPG_RS26940	0	0	0
SSPG_RS26960	0.0005	0.0351	0.01411
SSPG_RS26985	0.00106666666666667	0.03	0.0510666666666667
SSPG_RS26995	0.00275	0	NA
SSPG_RS27000	0.0005	0.0471	0.01025
SSPG_RS27010	0.0021	0.0248	0.156895
SSPG_RS27030	NA	NA	NA
SSPG_RS27035	NA	NA	NA
SSPG_RS27040	0.0012	0.0187	0.06508
SSPG_RS27070	0	0.0239	0
SSPG_RS27075	0	0.0098	0
SSPG_RS27080	0	0.0485	0
SSPG_RS27095	0	0	0
SSPG_RS27105	0	0	0
SSPG_RS27115	0	0	0
SSPG_RS27130	0.0021	0.0469	0.04383
SSPG_RS27135	0.001	0	NA
SSPG_RS27140	NA	NA	NA
SSPG_RS27145	0.0017	0.0102	0.17049
SSPG_RS27150	0.0006	0.0551	0.01143
SSPG_RS27155	0	0.0412	0
SSPG_RS27170	0.0021	0.0295	0.06994
SSPG_RS27180	0	0.024	0
SSPG_RS27190	0	0.0265	0
SSPG_RS27195	NA	NA	NA
SSPG_RS27205	0.0005	0.0202	0.02284
SSPG_RS27215	0	0	0
SSPG_RS27220	0	0	0
SSPG_RS27225	NA	NA	NA
SSPG_RS27230	NA	NA	NA
SSPG_RS27235	NA	NA	NA
SSPG_RS27240	NA	NA	NA
SSPG_RS27265	0	0.0344	0
SSPG_RS27270	0	0	0
SSPG_RS27280	0	0.1131	0
SSPG_RS27285	NA	NA	NA
SSPG_RS27295	NA	NA	NA
SSPG_RS27305	0	0.0308	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS27310	0.0006	0.0082	0.02488
SSPG_RS27315	NA	NA	NA
SSPG_RS27320	0	0	0
SSPG_RS27330	NA	NA	NA
SSPG_RS27335	NA	NA	NA
SSPG_RS27350	0	0	0
SSPG_RS27360	0.00133333333333333	0.0183333333333333	0.0497033333333333
SSPG_RS27365	0	0	0
SSPG_RS27370	0	0.0404	0
SSPG_RS27375	NA	NA	NA
SSPG_RS27380	0	0	0
SSPG_RS27390	0	0.0209	0
SSPG_RS27405	0	0.0138	0
SSPG_RS27415	NA	NA	NA
SSPG_RS27425	0.0009	0.0219	0.04114
SSPG_RS27430	NA	NA	NA
SSPG_RS27435	0	0.1312	0
SSPG_RS27455	0	0.0404	0
SSPG_RS27465	0.0017	0.0418	0.03984
SSPG_RS27470	NA	NA	NA
SSPG_RS27485	0.0009	0.0396666666666667	0.03396
SSPG_RS27490	0	0.0289	0
SSPG_RS27500	0.0017	0	NA
SSPG_RS27505	0.00165	0.03175	0.08949
SSPG_RS27510	0.0007	0.0207	0.03527
SSPG_RS27520	0	0	0
SSPG_RS27600	0	0.02895	0
SSPG_RS27615	NA	NA	NA
SSPG_RS27620	0	0.0292	0
SSPG_RS27630	0	0	0
SSPG_RS27635	0	0.0107	0
SSPG_RS27640	0	0	0
SSPG_RS27645	0	0.0044	0
SSPG_RS27655	NA	NA	NA
SSPG_RS27695	0	0.0375	0
SSPG_RS27700	0.0021	0.0252	0.08531
SSPG_RS27710	0	0.0408	0
SSPG_RS27715	0.0044	0.0291	0.15267
SSPG_RS27725	NA	NA	NA
SSPG_RS27735	NA	NA	NA
SSPG_RS27740	NA	NA	NA
SSPG_RS27745	0.0007	0	NA
SSPG_RS27755	0.0027	0.0998	0.02697
SSPG_RS27760	0.0021	0.0597	0.03587
SSPG_RS27765	NA	NA	NA
SSPG_RS27770	NA	NA	NA
SSPG_RS27780	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS27790	0.0014	0.0538	0.02534
SSPG_RS27800	0	0.0365	0
SSPG_RS27805	0.0005	0.00366666666666667	NA
SSPG_RS27810	0.0026	0	NA
SSPG_RS27815	0	0.0208	0
SSPG_RS27840	0.0022	0.0271	0.0801
SSPG_RS27845	0.0036	0.0188	0.19049
SSPG_RS27865	NA	NA	NA
SSPG_RS27870	NA	NA	NA
SSPG_RS27885	0	0.0351	0
SSPG_RS27895	0.0015	0	NA
SSPG_RS27915	0.0006	0.0756	0.00829
SSPG_RS27930	0.0011	0.0548	0.01961
SSPG_RS27935	0.0013	0.0191	0.06598
SSPG_RS27945	0.0016	0.0086	0.19077
SSPG_RS27955	0.0027	0.0165	0.16325
SSPG_RS27960	0	0	0
SSPG_RS27965	NA	NA	NA
SSPG_RS27975	0.0005	0.027	0.0201
SSPG_RS27990	0	0.0002	0
SSPG_RS27995	0.0009	0.0112	0.08131
SSPG_RS28000	0	0.1299	0
SSPG_RS28010	0	0.0053	0
SSPG_RS28020	NA	NA	NA
SSPG_RS28035	0.0011	0.0204	0.05379
SSPG_RS28040	0.0004	0.0052	0.07798
SSPG_RS28045	0	0.03275	0
SSPG_RS28050	0.0012	0.0554	0.02112
SSPG_RS28070	0	0.0312	0
SSPG_RS28075	NA	NA	NA
SSPG_RS28085	NA	NA	NA
SSPG_RS28120	NA	NA	NA
SSPG_RS28125	NA	NA	NA
SSPG_RS28140	0.0753	21.7852	0.00346
SSPG_RS28195	NA	NA	NA
SSPG_RS28200	NA	NA	NA
SSPG_RS28205	NA	NA	NA
SSPG_RS28215	0.2174	5.9071	0.03681
SSPG_RS28220	0	0	0
SSPG_RS28230	0	0.0127	0
SSPG_RS28245	0	0.125	0
SSPG_RS28250	0.0015	0.0262	0.05686
SSPG_RS28260	0	0.0974	0
SSPG_RS28265	NA	NA	NA
SSPG_RS28280	0.0014	0	NA
SSPG_RS28285	0	0.0303	0
SSPG_RS28320	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS28340	0.0006	0.0618	0.00986
SSPG_RS28355	0.0017	0.0121	0.14082
SSPG_RS28380	0	0	0
SSPG_RS28385	0	0.0143	0
SSPG_RS28390	0.00125	0.02135	0.16583
SSPG_RS28395	0	0	0
SSPG_RS28400	0	0	0
SSPG_RS28405	0	0	0
SSPG_RS28410	NA	NA	NA
SSPG_RS28430	0.0013	0.0288	0.0461
SSPG_RS28435	0	0.024	0
SSPG_RS28440	0	0	0
SSPG_RS28445	NA	NA	NA
SSPG_RS28450	0.00145	0	NA
SSPG_RS28460	0.001	0.0092	0.10804
SSPG_RS28465	NA	NA	NA
SSPG_RS28470	NA	NA	NA
SSPG_RS28480	NA	NA	NA
SSPG_RS28485	NA	NA	NA
SSPG_RS28490	NA	NA	NA
SSPG_RS28495	NA	NA	NA
SSPG_RS28500	NA	NA	NA
SSPG_RS28505	0	0	0
SSPG_RS28510	0.0008	0.0361	0.02232
SSPG_RS28515	NA	NA	NA
SSPG_RS28520	0.0027	0	NA
SSPG_RS28530	0	0	0
SSPG_RS28545	0.0014	0.0934	0.01483
SSPG_RS28550	0.0049	0.0359	0.13542
SSPG_RS28560	NA	NA	NA
SSPG_RS28565	0.00185	0.0079	NA
SSPG_RS28570	0.0026	0.0275	0.093
SSPG_RS28575	0	0	0
SSPG_RS28580	0.0008	0.00235	NA
SSPG_RS28585	NA	NA	NA
SSPG_RS28620	0	0.0335	0
SSPG_RS28630	NA	NA	NA
SSPG_RS28655	0.0004	0.0278	0.01327
SSPG_RS28675	NA	NA	NA
SSPG_RS28680	0	0.0168	0
SSPG_RS28685	0	0.00455	0
SSPG_RS28695	NA	NA	NA
SSPG_RS28705	0.0018	0.0144	0.12514
SSPG_RS28715	NA	NA	NA
SSPG_RS28725	0.0005	0.025	0.02157
SSPG_RS28730	0.00095	0.0163	0.108745
SSPG_RS28740	0	0	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS28750	0.0159	0.03605	0.608705
SSPG_RS28755	0.0022	0.01865	0.151145
SSPG_RS28760	0	0.0275	0
SSPG_RS28770	0	0.0079	0
SSPG_RS28780	0	0.0174	0
SSPG_RS28795	0.0022	0.0301	0.07255
SSPG_RS28800	0.001	0.0125	0.08128
SSPG_RS28805	0.00195	0.0496	0.040915
SSPG_RS28810	NA	NA	NA
SSPG_RS28815	NA	NA	NA
SSPG_RS28820	NA	NA	NA
SSPG_RS28830	NA	NA	NA
SSPG_RS28835	NA	NA	NA
SSPG_RS28845	0.0006	0.01705	NA
SSPG_RS28855	NA	NA	NA
SSPG_RS28875	0.0033	0	NA
SSPG_RS28890	0.0009	0.02995	0.015085
SSPG_RS28900	NA	NA	NA
SSPG_RS28905	0	0.0439	0
SSPG_RS28910	0	0.0066	0
SSPG_RS28920	0.001	0.0203	0.04959
SSPG_RS28925	0.0012	0.0199	0.06079
SSPG_RS28935	0	0.0123	0
SSPG_RS28940	0.0013	0.0248	0.05334
SSPG_RS28945	NA	NA	NA
SSPG_RS28950	NA	NA	NA
SSPG_RS28960	NA	NA	NA
SSPG_RS28965	NA	NA	NA
SSPG_RS28970	0.0028	0.03415	0.062955
SSPG_RS28980	0.00095	0.00245	NA
SSPG_RS28985	0.0016	0	NA
SSPG_RS28990	NA	NA	NA
SSPG_RS29000	0	0.0178	0
SSPG_RS29010	0	0.0328	0
SSPG_RS29020	0	0.0441	0
SSPG_RS29025	0	0	0
SSPG_RS29030	0	0.0402	0
SSPG_RS29035	NA	NA	NA
SSPG_RS29040	NA	NA	NA
SSPG_RS29045	0	0.0186	0
SSPG_RS29185	0.0019	0.0105	0.17689
SSPG_RS29190	0.0016	0	NA
SSPG_RS29200	0	0.0147	0
SSPG_RS29215	0	0.003	0
SSPG_RS29225	0.0017	0.0414	0.04139
SSPG_RS29235	NA	NA	NA
SSPG_RS29240	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS29255	0.0043	0.0082	0.52591
SSPG_RS29260	0	0	0
SSPG_RS29270	NA	NA	NA
SSPG_RS29280	0.0021	0.0095	0.22263
SSPG_RS29290	0.015	0.2131	0.07032
SSPG_RS29295	NA	NA	NA
SSPG_RS29305	0	0	0
SSPG_RS29315	NA	NA	NA
SSPG_RS29325	NA	NA	NA
SSPG_RS29330	NA	NA	NA
SSPG_RS29335	NA	NA	NA
SSPG_RS29345	NA	NA	NA
SSPG_RS29355	NA	NA	NA
SSPG_RS29365	NA	NA	NA
SSPG_RS29385	NA	NA	NA
SSPG_RS29390	0.0008	0.034	0.02421
SSPG_RS29395	NA	NA	NA
SSPG_RS29400	0	0	0
SSPG_RS29405	0	0.0146	0
SSPG_RS29410	NA	NA	NA
SSPG_RS29420	0	0.0138	0
SSPG_RS29425	0.001	0.023	0.04322
SSPG_RS29430	0.0018	0.0222	0.07967
SSPG_RS29435	0	0	0
SSPG_RS29440	0	0.011	0
SSPG_RS29445	0	0.0058	0
SSPG_RS29450	0.0047	0.0503	0.09423
SSPG_RS29455	0	0	0
SSPG_RS29460	0.0019	0	NA
SSPG_RS29470	0	0	0
SSPG_RS29480	NA	NA	NA
SSPG_RS29495	0.0016	0.0193	0.08083
SSPG_RS29505	0.003	0.0078	0.38952
SSPG_RS29520	NA	NA	NA
SSPG_RS29530	0.0007	0.0606	0.01132
SSPG_RS29545	NA	NA	NA
SSPG_RS29550	NA	NA	NA
SSPG_RS29555	NA	NA	NA
SSPG_RS29560	0	0.0461	0
SSPG_RS29575	0	0.02676	0
SSPG_RS29580	0	0	0
SSPG_RS29585	0.0014	0.0316	0.04552
SSPG_RS29595	0.0013	0.0228	0.05658
SSPG_RS29600	NA	NA	NA
SSPG_RS29615	0.001	0.0433	0.02383
SSPG_RS29620	0	0	0
SSPG_RS29625	0	0	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS29635	0.0005	0.0381	0.01186
SSPG_RS29645	NA	NA	NA
SSPG_RS29650	NA	NA	NA
SSPG_RS29655	NA	NA	NA
SSPG_RS29660	0	0.114	0
SSPG_RS29665	0	0.0079	0
SSPG_RS29675	0	0	0
SSPG_RS29680	NA	NA	NA
SSPG_RS29685	0.0033	0.0131	0.25067
SSPG_RS29695	0.0051	0	NA
SSPG_RS29700	0.0043	0	NA
SSPG_RS29705	0.0093	0.0235	0.39654
SSPG_RS29710	0.0549	0.061	0.89881
SSPG_RS29715	0	0	0
SSPG_RS29730	NA	NA	NA
SSPG_RS29740	0	0.0437	0
SSPG_RS29750	0	0	0
SSPG_RS29755	NA	NA	NA
SSPG_RS29760	NA	NA	NA
SSPG_RS29775	0	0	0
SSPG_RS29780	0.001	0.0117	0.08906
SSPG_RS29785	0.0013	0	NA
SSPG_RS29790	0	0	0
SSPG_RS29795	0	0.0002	0
SSPG_RS29810	0	0	0
SSPG_RS29820	NA	NA	NA
SSPG_RS29830	0	0.0244	0
SSPG_RS29835	NA	NA	NA
SSPG_RS29860	NA	NA	NA
SSPG_RS29870	0	0.0206	0
SSPG_RS29875	0.0003	0.0198	0.00887
SSPG_RS29895	0.0023	0.0211	0.11133
SSPG_RS29910	NA	NA	NA
SSPG_RS29915	NA	NA	NA
SSPG_RS29930	NA	NA	NA
SSPG_RS29940	0	0.0601	0
SSPG_RS29955	0.001	0.0415	0.02384
SSPG_RS29960	0.0009	0.015	0.05798
SSPG_RS30010	0	0	0
SSPG_RS30025	NA	NA	NA
SSPG_RS30035	NA	NA	NA
SSPG_RS30050	NA	NA	NA
SSPG_RS30060	NA	NA	NA
SSPG_RS30070	NA	NA	NA
SSPG_RS30085	0.0066	0.0173	0.37951
SSPG_RS30090	0	0.0476	0
SSPG_RS30110	0	0	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS30140	0	0.0907	0
SSPG_RS30145	NA	NA	NA
SSPG_RS30150	NA	NA	NA
SSPG_RS30190	0.0017	0.0231	0.0726
SSPG_RS30195	0.0027	0.0498	0.05375
SSPG_RS30205	0.0026	0.0169	0.15203
SSPG_RS30215	0.0019	0.0592	0.03277
SSPG_RS30235	NA	NA	NA
SSPG_RS30240	0.00215	0.02425	0.048945
SSPG_RS30250	NA	NA	NA
SSPG_RS30255	NA	NA	NA
SSPG_RS30265	0	0.0178	0
SSPG_RS30270	0.0032	0.0105	0.30282
SSPG_RS30275	NA	NA	NA
SSPG_RS30280	0.0012	0.0282	0.04292
SSPG_RS30285	0.0029	0.0083	0.34604
SSPG_RS30295	0.0026	0.0328	0.07789
SSPG_RS30305	0.0029	0.014	0.20546
SSPG_RS30315	NA	NA	NA
SSPG_RS30320	0.0043	0	NA
SSPG_RS30330	NA	NA	NA
SSPG_RS30340	NA	NA	NA
SSPG_RS30345	NA	NA	NA
SSPG_RS30350	NA	NA	NA
SSPG_RS30360	NA	NA	NA
SSPG_RS30365	NA	NA	NA
SSPG_RS30370	NA	NA	NA
SSPG_RS30385	NA	NA	NA
SSPG_RS30395	0.0007	0.0292	0.0249
SSPG_RS30400	0.0007	0.0178	0.03983
SSPG_RS30415	NA	NA	NA
SSPG_RS30420	NA	NA	NA
SSPG_RS30425	NA	NA	NA
SSPG_RS30430	NA	NA	NA
SSPG_RS30445	0	0.0045	0
SSPG_RS30455	0.0014	0.0102	0.13656
SSPG_RS30460	0.0045	0.0753	0.06038
SSPG_RS30480	NA	NA	NA
SSPG_RS30485	0	0.0042	0
SSPG_RS30500	0	0.0161	0
SSPG_RS30510	NA	NA	NA
SSPG_RS30515	NA	NA	NA
SSPG_RS30520	NA	NA	NA
SSPG_RS30525	NA	NA	NA
SSPG_RS30530	0	0.0239	0
SSPG_RS30535	0	0.0172	0
SSPG_RS30540	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS30545	NA	NA	NA
SSPG_RS30550	0	0	0
SSPG_RS30555	NA	NA	NA
SSPG_RS30560	0.00045	0.0495	0.009195
SSPG_RS30570	0.0011	0.0219	0.04814
SSPG_RS30585	NA	NA	NA
SSPG_RS30590	NA	NA	NA
SSPG_RS30615	0.0031	0.0428	0.07186
SSPG_RS30635	NA	NA	NA
SSPG_RS30645	NA	NA	NA
SSPG_RS30650	0	0.0595	0
SSPG_RS30655	0	0	0
SSPG_RS30660	0	0.0057	0
SSPG_RS30665	NA	NA	NA
SSPG_RS30670	NA	NA	NA
SSPG_RS30680	0.00225	0	NA
SSPG_RS30685	0	0.115	0
SSPG_RS30695	0.0026	0.0514	0.05144
SSPG_RS30705	0.0008	0.0197	0.03905
SSPG_RS30715	0.0025	0.0231	0.10848
SSPG_RS30720	NA	NA	NA
SSPG_RS30725	NA	NA	NA
SSPG_RS30750	0.0022	0.0347	0.06381
SSPG_RS30760	0.0018	0.0097	0.18814
SSPG_RS30780	0	0	0
SSPG_RS30785	0.0012	0.0161	0.07376
SSPG_RS30790	0.0013	0.0231	0.05419
SSPG_RS30820	0.002	0.0136	0.1463
SSPG_RS30830	0.0013	0.0395	0.03316
SSPG_RS30835	NA	NA	NA
SSPG_RS30860	0.0018	0.0271	0.06803
SSPG_RS30865	NA	NA	NA
SSPG_RS30870	NA	NA	NA
SSPG_RS30875	NA	NA	NA
SSPG_RS30880	0	0.0507	0
SSPG_RS30890	0	0.041	0
SSPG_RS30905	0	0	0
SSPG_RS30910	NA	NA	NA
SSPG_RS30955	NA	NA	NA
SSPG_RS30960	NA	NA	NA
SSPG_RS30970	NA	NA	NA
SSPG_RS30980	0.003	0.0335	0.0886
SSPG_RS30990	NA	NA	NA
SSPG_RS30995	NA	NA	NA
SSPG_RS31005	0.0046	0.046	0.09953
SSPG_RS31015	0	0.0584	0
SSPG_RS31025	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS31030	0.01485	0.08445	0.149475
SSPG_RS31035	NA	NA	NA
SSPG_RS31050	0	0.0241	0
SSPG_RS31055	NA	NA	NA
SSPG_RS31065	NA	NA	NA
SSPG_RS31075	NA	NA	NA
SSPG_RS31090	0.0029	0.0488	0.05953
SSPG_RS31095	NA	NA	NA
SSPG_RS31100	NA	NA	NA
SSPG_RS31105	0.0019	0.005	0.38315
SSPG_RS31110	0.0032	0.0733	0.04392
SSPG_RS31120	NA	NA	NA
SSPG_RS31125	0.0033	0.0309	0.10569
SSPG_RS31150	0.0005	0.0287	0.01773
SSPG_RS31170	0.0019	0.0048	0.40201
SSPG_RS31175	0	0.0139	0
SSPG_RS31180	NA	NA	NA
SSPG_RS31190	0.0014	0.018	0.07555
SSPG_RS31200	NA	NA	NA
SSPG_RS31450	0.0015	0.00505	NA
SSPG_RS31455	0.002	0.0451	0.04431
SSPG_RS31460	0.0043	0.014	NA
SSPG_RS31465	0.0011	0.0334	0.10792
SSPG_RS31475	NA	NA	NA
SSPG_RS31480	0.0012	0.0121	0.10201
SSPG_RS31485	NA	NA	NA
SSPG_RS31490	NA	NA	NA
SSPG_RS31495	NA	NA	NA
SSPG_RS31500	NA	NA	NA
SSPG_RS31520	NA	NA	NA
SSPG_RS31525	NA	NA	NA
SSPG_RS31535	NA	NA	NA
SSPG_RS31540	NA	NA	NA
SSPG_RS31555	0	0.0249	0
SSPG_RS31560	0	0.0417	0
SSPG_RS31565	NA	NA	NA
SSPG_RS31585	NA	NA	NA
SSPG_RS31630	0.0393	0.1668	0.23562
SSPG_RS31645	NA	NA	NA
SSPG_RS31655	0.0272333333333333	0.4109	0.0660566666666667
SSPG_RS31660	NA	NA	NA
SSPG_RS31670	NA	NA	NA
SSPG_RS31675	NA	NA	NA
SSPG_RS31680	NA	NA	NA
SSPG_RS31685	NA	NA	NA
SSPG_RS31720	0.0014	0.0174	0.08091
SSPG_RS31725	0	0.0202	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS31750	0.00535	0.09075	0.06551
SSPG_RS31760	0.0019	0.0142	0.13573
SSPG_RS31770	NA	NA	NA
SSPG_RS31785	NA	NA	NA
SSPG_RS31790	0	0.0618	0
SSPG_RS32050	0.0006	0.0678	0.0086
SSPG_RS32065	NA	NA	NA
SSPG_RS32075	0	0.0431	0
SSPG_RS32080	0.0008	0	NA
SSPG_RS32085	0	0.03885	0
SSPG_RS32090	0	0.0305	0
SSPG_RS32095	0.0016	0.0101	0.15321
SSPG_RS32100	0.0009	0.0414	0.02154
SSPG_RS32115	NA	NA	NA
SSPG_RS32120	NA	NA	NA
SSPG_RS32130	0	0.0109	0
SSPG_RS32135	NA	NA	NA
SSPG_RS32145	0	0.0503	0
SSPG_RS32150	0.0105	0.0819	0.12837
SSPG_RS32160	0.0017	0.0405	0.04288
SSPG_RS32170	NA	NA	NA
SSPG_RS32180	NA	NA	NA
SSPG_RS32200	0.0027	0.0086	0.30997
SSPG_RS32215	0.0017	0.0367	0.04729
SSPG_RS32245	0.0026	0	NA
SSPG_RS32250	0.0012	0.00455	0.1333
SSPG_RS32255	0.0029	0.0161	0.18133
SSPG_RS32265	0.0009	0.0219	0.04252
SSPG_RS32275	NA	NA	NA
SSPG_RS32280	0.0017	0.0047	0.3559
SSPG_RS32290	0.0012	0	NA
SSPG_RS32295	0.0007	0.0209	0.03259
SSPG_RS32305	0	0	0
SSPG_RS32310	0.0014	0	NA
SSPG_RS32315	NA	NA	NA
SSPG_RS32325	0.0049	0.0189	0.25753
SSPG_RS32330	0.0008	0.0324	0.02395
SSPG_RS32335	0.0052	0.1191	0.04343
SSPG_RS32345	0.002	0.0537	0.03739
SSPG_RS32350	0.0076	0.0891	0.08563
SSPG_RS32355	0.0089	0.1308	0.06841
SSPG_RS32370	NA	NA	NA
SSPG_RS32375	NA	NA	NA
SSPG_RS32380	0.0016	0.0263	0.06224
SSPG_RS32395	NA	NA	NA
SSPG_RS32410	0.0034	0.0231	0.14919
SSPG_RS32415	0	0.0261	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS32420	0.0045	0	NA
SSPG_RS32425	0.0014	0.008	0.17042
SSPG_RS32430	NA	NA	NA
SSPG_RS32435	NA	NA	NA
SSPG_RS32440	0.0031	0.0198	0.1557
SSPG_RS32460	NA	NA	NA
SSPG_RS32465	NA	NA	NA
SSPG_RS32475	NA	NA	NA
SSPG_RS32490	NA	NA	NA
SSPG_RS32495	NA	NA	NA
SSPG_RS32505	NA	NA	NA
SSPG_RS32510	0.002	0.0458	0.04409
SSPG_RS32515	NA	NA	NA
SSPG_RS32535	NA	NA	NA
SSPG_RS32540	0	0.0945	0
SSPG_RS32550	0.0004	0.0239	0.0186
SSPG_RS32570	0.0031	0.0664	0.04631
SSPG_RS32575	0.00105	0.0385	0.030225
SSPG_RS32580	0	0.0287	0
SSPG_RS32605	NA	NA	NA
SSPG_RS32610	0.004	0.0195	0.20337
SSPG_RS32615	NA	NA	NA
SSPG_RS32620	NA	NA	NA
SSPG_RS32625	0	0.0583	0
SSPG_RS32630	0.0018	0.0307	0.060545
SSPG_RS32635	0.0038	0.0298	0.12673
SSPG_RS32645	0.00256666666666667	0.0212333333333333	0.139563333333333
SSPG_RS32650	0.0021	0	NA
SSPG_RS32655	0	0.0121	0
SSPG_RS32660	NA	NA	NA
SSPG_RS32665	NA	NA	NA
SSPG_RS32670	0.0021	0.0139	0.14761
SSPG_RS32685	NA	NA	NA
SSPG_RS32690	NA	NA	NA
SSPG_RS32695	0.0023	0.0266	0.08479
SSPG_RS32705	0.0024	0.0164	0.14726
SSPG_RS32710	0.0007	0.021	0.01648
SSPG_RS32730	NA	NA	NA
SSPG_RS32735	0	0.0477	0
SSPG_RS32740	0.0015	0.0379	0.04058
SSPG_RS32785	NA	NA	NA
SSPG_RS32805	NA	NA	NA
SSPG_RS32810	NA	NA	NA
SSPG_RS32815	NA	NA	NA
SSPG_RS32820	0	0	0
SSPG_RS32830	0.0011	0.0844	0.01301
SSPG_RS32880	0	0.0341	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS32885	0	0	0
SSPG_RS32895	NA	NA	NA
SSPG_RS32915	NA	NA	NA
SSPG_RS32920	NA	NA	NA
SSPG_RS32925	NA	NA	NA
SSPG_RS32955	NA	NA	NA
SSPG_RS32970	0	0.0364	0
SSPG_RS32980	0	0.0532	0
SSPG_RS32985	0	0.0231	0
SSPG_RS32990	0	0.0361	0
SSPG_RS33000	0	0.0425	0
SSPG_RS33005	0	0.038	0
SSPG_RS33055	0.0008	0.0123	0.06738
SSPG_RS33060	NA	NA	NA
SSPG_RS33070	NA	NA	NA
SSPG_RS33080	NA	NA	NA
SSPG_RS33090	NA	NA	NA
SSPG_RS33095	0.0039	0.0197	0.19566
SSPG_RS33110	NA	NA	NA
SSPG_RS33120	0.0016	0.0036	0.44712
SSPG_RS33125	0.0048	0	NA
SSPG_RS33130	NA	NA	NA
SSPG_RS33165	0.0041	0.0106	0.38946
SSPG_RS33175	0.0018	0.0107	0.1678
SSPG_RS33215	0.0011	0.0357	0.03012
SSPG_RS33220	0	0.0072	0
SSPG_RS33230	0	0.0117	0
SSPG_RS33245	0.0057	0.0555	0.10296
SSPG_RS33250	0.0043	0.0269	0.16182
SSPG_RS33255	0.0044	0.0269	0.16461
SSPG_RS33260	NA	NA	NA
SSPG_RS33265	0.00205	0.01975	0.05242
SSPG_RS33270	0	0	0
SSPG_RS33275	NA	NA	NA
SSPG_RS33280	NA	NA	NA
SSPG_RS33295	0.0036	0.0361	0.09913
SSPG_RS33305	0.0071	0.01	0.70443
SSPG_RS33315	0	0.006	0
SSPG_RS33465	0	0	0
SSPG_RS33470	0.00415	0.1294	0.04623
SSPG_RS33480	0.0018	0.0606	0.02908
SSPG_RS33485	NA	NA	NA
SSPG_RS33495	0.0239	0.0174666666666667	NA
SSPG_RS33500	0.002	0.0155	0.12864
SSPG_RS33525	NA	NA	NA
SSPG_RS33530	NA	NA	NA
SSPG_RS33545	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS33555	NA	NA	NA
SSPG_RS33560	NA	NA	NA
SSPG_RS33585	0.0014	0	NA
SSPG_RS33590	NA	NA	NA
SSPG_RS33595	NA	NA	NA
SSPG_RS33605	NA	NA	NA
SSPG_RS33620	NA	NA	NA
SSPG_RS33645	NA	NA	NA
SSPG_RS33650	NA	NA	NA
SSPG_RS33660	NA	NA	NA
SSPG_RS33665	NA	NA	NA
SSPG_RS33680	0.00065	0.0125	0.025355
SSPG_RS33690	0.0029	0.0134	0.21765
SSPG_RS33700	0.0024	0.0076	0.31928
SSPG_RS33705	0.0029	0.0202	0.14137
SSPG_RS33710	0.0026	0.0083	0.31507
SSPG_RS33770	NA	NA	NA
SSPG_RS33785	0.0016	0.0164	0.09857
SSPG_RS33795	NA	NA	NA
SSPG_RS33825	NA	NA	NA
SSPG_RS33840	NA	NA	NA
SSPG_RS33850	NA	NA	NA
SSPG_RS33855	NA	NA	NA
SSPG_RS33860	NA	NA	NA
SSPG_RS33870	0.0009	0.0677	0.01303
SSPG_RS33885	0	0.0539	0
SSPG_RS33900	NA	NA	NA
SSPG_RS33915	NA	NA	NA
SSPG_RS33920	0	0.1181	0
SSPG_RS33925	0.0012	0.049	0.0235
SSPG_RS33935	0	0	0
SSPG_RS33940	NA	NA	NA
SSPG_RS33945	NA	NA	NA
SSPG_RS33960	NA	NA	NA
SSPG_RS33970	NA	NA	NA
SSPG_RS33975	0	0	0
SSPG_RS33980	NA	NA	NA
SSPG_RS33985	0.0024	0	NA
SSPG_RS33990	NA	NA	NA
SSPG_RS33995	NA	NA	NA
SSPG_RS34000	0.0009	0.0203	0.04532
SSPG_RS34005	0.0018	0.0887	0.0208
SSPG_RS34010	0.0058	0.1167	0.04961
SSPG_RS34015	NA	NA	NA
SSPG_RS34025	0.0142	0.0608	0.23371
SSPG_RS34035	NA	NA	NA
SSPG_RS34040	0.0009	0.02025	0.03317

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS34050	0	0.0369	0
SSPG_RS34060	NA	NA	NA
SSPG_RS34070	0	0.0279	0
SSPG_RS34080	NA	NA	NA
SSPG_RS34085	NA	NA	NA
SSPG_RS34095	0.0033	0.0942	0.03118
SSPG_RS34100	NA	NA	NA
SSPG_RS34105	0	0.0233	0
SSPG_RS34110	NA	NA	NA
SSPG_RS34120	0.0019	0.0385	0.04901
SSPG_RS34130	0.0014	0.0445	0.03165
SSPG_RS34135	0	0	0
SSPG_RS34140	0.0015	0.0941	0.01643
SSPG_RS34145	0.0013	0.0156	0.08017
SSPG_RS34155	0.0013	0.0091	0.13885
SSPG_RS34165	0.0012	0.0169	0.06929
SSPG_RS34175	0.0017	0	NA
SSPG_RS34195	0	0.0204	0
SSPG_RS34205	0	0	0
SSPG_RS34215	0.0041	0.0666	0.06107
SSPG_RS34220	0.0067	0.1109	0.06073
SSPG_RS34230	0.0008	0.0239	0.03223
SSPG_RS34235	NA	NA	NA
SSPG_RS34240	NA	NA	NA
SSPG_RS34250	0	0.0252	0
SSPG_RS34260	NA	NA	NA
SSPG_RS34270	NA	NA	NA
SSPG_RS34275	NA	NA	NA
SSPG_RS34280	NA	NA	NA
SSPG_RS34285	0.00245	0.04795	0.07228
SSPG_RS34290	0.001	0.0206	0.04699
SSPG_RS34295	0.0088	0.0781	0.11323
SSPG_RS34305	0.00155	0.0575	0.02576
SSPG_RS34310	NA	NA	NA
SSPG_RS34320	NA	NA	NA
SSPG_RS34335	0	0	0
SSPG_RS34340	0.0034	0.0177	0.19333
SSPG_RS34345	0	0.0246	0
SSPG_RS34350	0	0.0178	0
SSPG_RS34355	0.0042	0.0352	0.11778
SSPG_RS34360	0	0	0
SSPG_RS34365	0	0	0
SSPG_RS34370	0	0	0
SSPG_RS34375	0.0031	0.0719	0.04353
SSPG_RS34380	0.0008	0.0331	0.02556
SSPG_RS35160	0.0007	0.0637	0.01166
SSPG_RS35165	0	0.0583	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS35180	0	0.0103	0
SSPG_RS35185	0.0015	0.1279	NA
SSPG_RS35190	NA	NA	NA
SSPG_RS35195	NA	NA	NA
SSPG_RS35200	NA	NA	NA
SSPG_RS35205	NA	NA	NA
SSPG_RS35210	NA	NA	NA
SSPG_RS35215	NA	NA	NA
SSPG_RS35220	NA	NA	NA
SSPG_RS35225	0	0	0
SSPG_RS35240	0	0	0
SSPG_RS35250	0.0016	0	NA
SSPG_RS35255	NA	NA	NA
SSPG_RS35260	NA	NA	NA
SSPG_RS35265	NA	NA	NA
SSPG_RS35270	NA	NA	NA
SSPG_RS35280	NA	NA	NA
SSPG_RS35290	NA	NA	NA
SSPG_RS35300	0.003	0.0334	0.08994
SSPG_RS35305	0.00315	0.0829	0.040435
SSPG_RS35320	NA	NA	NA
SSPG_RS35325	NA	NA	NA
SSPG_RS35330	0.0011	0.037	0.02914
SSPG_RS35345	NA	NA	NA
SSPG_RS35350	NA	NA	NA
SSPG_RS35370	0.00585	0.02905	0.12805
SSPG_RS35375	NA	NA	NA
SSPG_RS35380	NA	NA	NA
SSPG_RS35390	NA	NA	NA
SSPG_RS35405	NA	NA	NA
SSPG_RS35410	0.0015	0.0251	0.05851
SSPG_RS35415	0.0016	0.0532	0.02916
SSPG_RS35425	NA	NA	NA
SSPG_RS35435	0	0.0002	0
SSPG_RS35440	NA	NA	NA
SSPG_RS35460	NA	NA	NA
SSPG_RS35470	NA	NA	NA
SSPG_RS35475	NA	NA	NA
SSPG_RS35485	NA	NA	NA
SSPG_RS35490	NA	NA	NA
SSPG_RS35500	NA	NA	NA
SSPG_RS35550	NA	NA	NA
SSPG_RS35570	0.00405	0.01435	0.46785
SSPG_RS35580	NA	NA	NA
SSPG_RS35585	NA	NA	NA
SSPG_RS35590	0	0	0
SSPG_RS35595	0	0.045	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS35600	0	0.0334	0
SSPG_RS35610	NA	NA	NA
SSPG_RS35625	NA	NA	NA
SSPG_RS35630	NA	NA	NA
SSPG_RS35640	NA	NA	NA
SSPG_RS35650	NA	NA	NA
SSPG_RS35655	0	0.0069	0
SSPG_RS35670	NA	NA	NA
SSPG_RS35680	NA	NA	NA
SSPG_RS35685	0.0019	0.0493	0.03924
SSPG_RS35705	NA	NA	NA
SSPG_RS35710	NA	NA	NA
SSPG_RS35715	NA	NA	NA
SSPG_RS35720	0.0044	0.0077	0.56482
SSPG_RS35735	0.0012	0	NA
SSPG_RS35740	0.0033	0	NA
SSPG_RS35745	0.0032	0.0444	0.07159
SSPG_RS35755	NA	NA	NA
SSPG_RS35760	NA	NA	NA
SSPG_RS35765	0	0.0315	0
SSPG_RS35770	NA	NA	NA
SSPG_RS35775	NA	NA	NA
SSPG_RS35785	0	0	0
SSPG_RS35790	0.00125	0.0313	0.042375
SSPG_RS35795	NA	NA	NA
SSPG_RS35805	NA	NA	NA
SSPG_RS35815	NA	NA	NA
SSPG_RS35820	0	0	0
SSPG_RS35825	NA	NA	NA
SSPG_RS35830	NA	NA	NA
SSPG_RS35835	NA	NA	NA
SSPG_RS35840	NA	NA	NA
SSPG_RS35855	0.0043	0.0266	0.16252
SSPG_RS35875	0	0.009	0
SSPG_RS35885	NA	NA	NA
SSPG_RS35895	NA	NA	NA
SSPG_RS35900	0	0	0
SSPG_RS35905	NA	NA	NA
SSPG_RS35910	NA	NA	NA
SSPG_RS35915	0.0017	0	NA
SSPG_RS35920	NA	NA	NA
SSPG_RS35925	0	0	0
SSPG_RS35935	NA	NA	NA
SSPG_RS35940	NA	NA	NA
SSPG_RS35950	0.0092	0.0396	0.23196
SSPG_RS35955	NA	NA	NA
SSPG_RS35965	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS35970	NA	NA	NA
SSPG_RS35975	NA	NA	NA
SSPG_RS35980	NA	NA	NA
SSPG_RS35985	NA	NA	NA
SSPG_RS35990	0.0064	0.0576	0.11102
SSPG_RS36000	0.0036	0.0427	0.08437
SSPG_RS36010	0	0.0457	0
SSPG_RS36015	0	0	0
SSPG_RS36030	NA	NA	NA
SSPG_RS36040	NA	NA	NA
SSPG_RS36050	NA	NA	NA
SSPG_RS36055	0	0	0
SSPG_RS36060	NA	NA	NA
SSPG_RS36075	NA	NA	NA
SSPG_RS36085	0	0.0118	0
SSPG_RS36090	0.0034	0.0243	0.14115
SSPG_RS36095	0.0022	0.0091	0.23834
SSPG_RS36105	NA	NA	NA
SSPG_RS36110	0.0018	0.0185	0.0948
SSPG_RS36120	NA	NA	NA
SSPG_RS36125	0	0.0133	0
SSPG_RS36130	0.0024	0.0151	0.15936
SSPG_RS36135	NA	NA	NA
SSPG_RS36140	0.003	0.0732	0.04067
SSPG_RS36150	0.00475	0.01915	NA
SSPG_RS36155	0	0.02215	0
SSPG_RS36160	NA	NA	NA
SSPG_RS36165	0.00605	0.03405	0.40175
SSPG_RS36180	0.0022	0.0074	0.29543
SSPG_RS36185	NA	NA	NA
SSPG_RS36210	NA	NA	NA
SSPG_RS36215	NA	NA	NA
SSPG_RS36220	NA	NA	NA
SSPG_RS36225	NA	NA	NA
SSPG_RS36230	0.0012	0.02425	0.031145
SSPG_RS36240	NA	NA	NA
SSPG_RS36250	NA	NA	NA
SSPG_RS36285	NA	NA	NA
SSPG_RS36290	NA	NA	NA
SSPG_RS36295	0.0033	0.0062	0.53135
SSPG_RS36310	0.0047	0.0223	0.2111
SSPG_RS36315	0.004	0.0242	0.16562
SSPG_RS36320	0.0044	0.0423	0.10441
SSPG_RS36325	NA	NA	NA
SSPG_RS36350	NA	NA	NA
SSPG_RS36360	0.00295	0.02185	0.144655
SSPG_RS36365	NA	NA	NA

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS36370	NA	NA	NA
SSPG_RS36380	NA	NA	NA
SSPG_RS36395	0	0.007	0
SSPG_RS36400	0.0053	0.0192	0.27588
SSPG_RS36405	0.0015	0.02945	0.03629
SSPG_RS36415	NA	NA	NA
SSPG_RS36425	0.0046	0.0591	0.07812
SSPG_RS36430	NA	NA	NA
SSPG_RS36455	NA	NA	NA
SSPG_RS36460	NA	NA	NA
SSPG_RS36470	NA	NA	NA
SSPG_RS36475	NA	NA	NA
SSPG_RS36480	NA	NA	NA
SSPG_RS36485	0	0.0394	0
SSPG_RS36490	NA	NA	NA
SSPG_RS36495	NA	NA	NA
SSPG_RS36500	0	0.0083	0
SSPG_RS36505	0.00075	0.03095	0.028275
SSPG_RS36515	0.0028	0.0306	0.09033
SSPG_RS36525	0	0.0079	0
SSPG_RS36530	0	0.0605	0
SSPG_RS36535	NA	NA	NA
SSPG_RS36560	0.0028	0.0339	0.08217
SSPG_RS36585	0	0.0066	0
SSPG_RS36590	0.0038	0.0452	0.08455
SSPG_RS36595	0.0022	0.0331	0.06539
SSPG_RS36600	NA	NA	NA
SSPG_RS36610	0.0007	0	NA
SSPG_RS36615	NA	NA	NA
SSPG_RS36625	NA	NA	NA
SSPG_RS36630	NA	NA	NA
SSPG_RS36635	NA	NA	NA
SSPG_RS36640	NA	NA	NA
SSPG_RS36650	NA	NA	NA
SSPG_RS36660	0.0025	0	NA
SSPG_RS36665	0.005	0.036	0.13915
SSPG_RS36670	NA	NA	NA
SSPG_RS36675	NA	NA	NA
SSPG_RS36680	0.001	0.0435	0.023675
SSPG_RS36685	NA	NA	NA
SSPG_RS36690	0.0012	0.0327	0.0358
SSPG_RS36695	0	0.019	0
SSPG_RS36700	NA	NA	NA
SSPG_RS36705	NA	NA	NA
SSPG_RS36710	NA	NA	NA
SSPG_RS36715	NA	NA	NA
SSPG_RS36725	0	0.0137	0

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS36730	0	0	0
SSPG_RS36735	0.0023	0.0208	0.11001
SSPG_RS36745	NA	NA	NA
SSPG_RS36750	NA	NA	NA
SSPG_RS36755	NA	NA	NA
SSPG_RS36770	NA	NA	NA
SSPG_RS36775	NA	NA	NA
SSPG_RS36780	NA	NA	NA
SSPG_RS36795	NA	NA	NA
SSPG_RS36800	NA	NA	NA
SSPG_RS36815	0.0121	0.0345	0.35055
SSPG_RS36820	NA	NA	NA
SSPG_RS36825	NA	NA	NA
SSPG_RS36830	0.0056	0.0278	0.20007
SSPG_RS36840	NA	NA	NA
SSPG_RS36850	NA	NA	NA
SSPG_RS36855	0.0342	0.0278	1.22985
SSPG_RS36860	0.0159	0.0329	0.48161
SSPG_RS36865	0.0009	0.0234	0.0365
SSPG_RS36870	NA	NA	NA
SSPG_RS36880	0	0	0
SSPG_RS36885	0	0.03135	0
SSPG_RS36895	0.0028	0.0079	0.35992
SSPG_RS36900	0	0.0235	0
SSPG_RS36905	NA	NA	NA
SSPG_RS36925	NA	NA	NA
SSPG_RS36945	NA	NA	NA
SSPG_RS36950	NA	NA	NA
SSPG_RS36955	NA	NA	NA
SSPG_RS36980	NA	NA	NA
SSPG_RS36990	0	0	0
SSPG_RS36995	NA	NA	NA
SSPG_RS37005	NA	NA	NA
SSPG_RS37015	NA	NA	NA
SSPG_RS37020	NA	NA	NA
SSPG_RS37035	0	0	0
SSPG_RS37040	0	0	0
SSPG_RS37045	NA	NA	NA
SSPG_RS37050	0.0082	0	NA
SSPG_RS37055	0	0.0637	0
SSPG_RS37060	NA	NA	NA
SSPG_RS37065	NA	NA	NA
SSPG_RS37070	NA	NA	NA
SSPG_RS37080	NA	NA	NA
SSPG_RS37090	0.0017	0.0168	0.10239
SSPG_RS37100	0	0	0
SSPG_RS37115	NA	NA	NA

Continued on next page

Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS37120	NA	NA	NA
SSPG_RS37125	0.0023	0	NA
SSPG_RS37135	NA	NA	NA
SSPG_RS37140	0.0007	0	NA
SSPG_RS37145	NA	NA	NA
SSPG_RS37150	NA	NA	NA
SSPG_RS37155	0	0.0145	0
SSPG_RS37160	0.0059	0.0134	0.43954
SSPG_RS37185	0.001	0	NA
SSPG_RS37190	NA	NA	NA
SSPG_RS37195	NA	NA	NA
SSPG_RS37200	NA	NA	NA
SSPG_RS37215	0.003	0.0387	0.07667
SSPG_RS37225	NA	NA	NA
SSPG_RS37230	0.0036	0.0639	0.05714
SSPG_RS37235	NA	NA	NA
SSPG_RS37240	0	0.0379	0
SSPG_RS37255	0.0045	0.0527	0.08506
SSPG_RS37265	NA	NA	NA
SSPG_RS37270	0.0047	0.052	0.08951
SSPG_RS37275	0.0007	0.023	0.0306
SSPG_RS37285	NA	NA	NA
SSPG_RS37300	NA	NA	NA
SSPG_RS37330	NA	NA	NA
SSPG_RS37340	NA	NA	NA
SSPG_RS37350	0	0	0
SSPG_RS37355	NA	NA	NA
SSPG_RS37360	NA	NA	NA
SSPG_RS37370	NA	NA	NA
SSPG_RS37380	NA	NA	NA
SSPG_RS37395	NA	NA	NA
SSPG_RS37400	0.0045	0.0958	0.0467
SSPG_RS37405	0.0071	0.3911	0.01803
SSPG_RS37420	NA	NA	NA
SSPG_RS37430	NA	NA	NA
SSPG_RS37435	NA	NA	NA
SSPG_RS37465	NA	NA	NA
SSPG_RS37470	NA	NA	NA
SSPG_RS37475	0.00135	0.0813	0.019865
SSPG_RS37480	NA	NA	NA
SSPG_RS37485	0	0	0
SSPG_RS37500	NA	NA	NA
SSPG_RS37505	0	0.0491	0
SSPG_RS37515	NA	NA	NA
SSPG_RS37535	0	0	0
SSPG_RS37540	0	0.0443	0
SSPG_RS37560	0	0	0

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Table S3 – continued from previous page

Gene	*dN*	*dS*	ω
SSPG_RS37565	NA	NA	NA
SSPG_RS37580	NA	NA	NA
SSPG_RS37595	0	0.1088	0
SSPG_RS37600	0.0021	0.0239	0.08786
SSPG_RS37605	NA	NA	NA
SSPG_RS37610	NA	NA	NA
SSPG_RS37615	NA	NA	NA
SSPG_RS37620	0.0023	0	NA
SSPG_RS37630	0.00075	0.01755	NA
SSPG_RS37635	0.002	0.0759	0.02692
SSPG_RS37650	NA	NA	NA
SSPG_RS37665	0.0042	0.0399	0.10572
SSPG_RS37700	NA	NA	NA
SSPG_RS37720	0.001	0.0914	0.0111
SSPG_RS37725	0.0027	0	NA
SSPG_RS37740	0.0036	0.0334	0.10869
SSPG_RS37760	0.0019	0	NA
SSPG_RS37775	NA	NA	NA
SSPG_RS37785	0.00236666666666667	0.0313333333333333	0.229063333333333
SSPG_RS37855	NA	NA	NA
SSPG_RS37875	NA	NA	NA
SSPG_RS37910	0.0013	0.0328	0.03855
SSPG_RS37925	0.0027	0.0062	0.43367
SSPG_RS38010	0	0.1435	0
SSPG_RS38065	NA	NA	NA
SSPG_RS38090	0.003	0.0292	0.10188

Table S4: Per gene *dN*, *dS*, and ω values calculated for *S. meliloti* Chromosome.

***Sinorhizobium meliloti* Chromosome**			
Gene	***dN***	***dS***	ω
gene_name	dN	dS	omega
SinmeB_0525	0.0089	0.0195	0.45669
SinmeB_0526	0.0012	0.0182	0.06352
SinmeB_0528	0.0013	0.0253	0.05144
SinmeB_0531	0.00126666666666667	0.0468	0.107806666666667
SinmeB_0532	0	0.0466	0
SinmeB_0533	0	0.034	0
SinmeB_0534	0	0.01275	0
SinmeB_0536	0.0011	0.0156	0.0687
SinmeB_0537	0	0.0152	0
SinmeB_0538	0.0025	0.0106	0.24016
SinmeB_0539	0	0.0193	0
SinmeB_0541	0	0.0112	0

Continued on next page

Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0542	0.0022	0	NA
SinmeB_0545	0.0008	0.0178	0.0312925
SinmeB_0546	0.001975	0.042575	0.086775
SinmeB_0547	0.0022	0.027	0.07997
SinmeB_0549	0	0.0577	0
SinmeB_0552	0.0023	0.0465	0.04985
SinmeB_0556	0.003	0.01305	0.194385
SinmeB_0557	0	0	0
SinmeB_0558	0.0017	0.0074	0.23332
SinmeB_0560	0.0005	0.0039	0.12994
SinmeB_0561	0	0	0
SinmeB_0562	0	0	0
SinmeB_0563	0.0035	0.0312	0.218723333333333
SinmeB_0566	0.00223333333333333	0.0203333333333333	NA
SinmeB_0567	0	0.0328	0
SinmeB_0569	0.0021	0.0269	0.07884
SinmeB_0571	0.0088	0	NA
SinmeB_0573	0.0019	0.01845	0.40798
SinmeB_0574	0.0013	0.0906	0.01394
SinmeB_0578	0.0031	0.0152	0.20471
SinmeB_0580	0.0017	0.0365	0.04785
SinmeB_0581	0	0.0115	0
SinmeB_0584	0.0022	0.0644	0.03408
SinmeB_0585	0.0008	0.0111	0.07319
SinmeB_0591	0	0	0
SinmeB_0592	0	0.0093	0
SinmeB_0593	0.0012	0	NA
SinmeB_0594	0.005	0.0357	0.14079
SinmeB_0595	0.0031	0.0581	0.05369
SinmeB_0596	0.0074	0.04755	0.137285
SinmeB_0605	0	0.0476	0
SinmeB_0606	0.0022	0.0138	0.16254
SinmeB_0608	0.00095	0.0121	0.114415
SinmeB_0610	0.0036	0.0238	0.15084
SinmeB_0611	0	0	0
SinmeB_0612	0.0043	0.0708	0.06106
SinmeB_0614	0.0009	0.0349	0.0247
SinmeB_0615	0.00523333333333333	0.0390333333333333	NA
SinmeB_0641	0.0181	0.0754	0.23955
SinmeB_0642	0.001	0.0847	0.01122
SinmeB_0644	0.00295	0.0409	0.04311
SinmeB_0645	0.00042	0.0397	0.002208
SinmeB_0646	0.00435	0.0172	0.126825
SinmeB_0647	0.00215	0.026375	0.025165
SinmeB_0648	0.0058	0.08	0.07217
SinmeB_0654	0	0.0136	0
SinmeB_0655	0.0008	0.0268	0.03028

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0656	0.0038	0.0118	0.32064
SinmeB_0657	0	0	0
SinmeB_0658	0.0037	0.0168	0.22272
SinmeB_0661	0.00235	0.02465	NA
SinmeB_0663	0.0033	0.0549	0.06049
SinmeB_0664	0.00205	0.0287	0.07917
SinmeB_0666	0.0037	0.0576	0.06373
SinmeB_0668	0.00115	0.12205	0.00675
SinmeB_0669	0.0098	0.0935	0.10485
SinmeB_0676	0.00175	0.01625	0.13391
SinmeB_0677	0.0049	0.05175	0.088855
SinmeB_0680	0.00656666666666667	0.0602333333333333	0.107603333333333
SinmeB_0681	0.0065	0.077	0.08403
SinmeB_0686	0.0095	0.1339	0.0709
SinmeB_0687	0.00873333333333333	0.131233333333333	0.08777
SinmeB_0689	0.0054	0.695	0.00777
SinmeB_0691	0.0145	1.3569	0.01068
SinmeB_0692	0.0115	0.6061	0.014735
SinmeB_0693	0.005	0.9291	0.00534
SinmeB_0696	0.0091	0.28895	0.031365
SinmeB_0698	0.021	0.1536	0.13683
SinmeB_0700	0.008	0.1199	0.06669
SinmeB_0701	0.0257	0.0872	0.29459
SinmeB_0702	0.00475	0.0954	0.04591
SinmeB_0704	0.00775	0.18775	0.04133
SinmeB_0705	0.0107	0.125	0.08583
SinmeB_0706	0.0029	0.0735	0.0401
SinmeB_0707	0.0018	0.04305	0.03429
SinmeB_0709	0.00235	0.1225	0.016005
SinmeB_0710	0.0017	0.1385	0.01262
SinmeB_0711	0.0031	0.08405	0.037375
SinmeB_0712	0.00466666666666667	0.0627666666666667	0.0816333333333333
SinmeB_0713	0.0042	0.1109	0.03748
SinmeB_0715	0.0048	0.037	0.12862
SinmeB_0716	0	0.0298	0
SinmeB_0717	0.0012	0.032	0.03696
SinmeB_0718	0.0011	0.022	0.05051
SinmeB_0719	0.003	0.03	0.10041
SinmeB_0722	0.0042	0.05155	0.11341
SinmeB_0725	0.0007	0.0485	0.0136
SinmeB_0727	0	0.0064	0
SinmeB_0731	0.0028	0.005	0.56996
SinmeB_0733	0	0.0396	0
SinmeB_0739	0.002	0.0536	0.03649
SinmeB_0740	0.0043	0.0895	0.04858
SinmeB_0741	0	0.0196	0
SinmeB_0742	0	0.0479	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0743	0.0037	0.037	0.10126
SinmeB_0744	0.0011	0.0222	0.064655
SinmeB_0746	0.0054	0.0373	0.14517
SinmeB_0748	0.0029	0.028	0.10276
SinmeB_0750	0.0019	0.0302	0.06271
SinmeB_0751	0.003	0.0415	0.07301
SinmeB_0753	0.0054	0.0909	0.05889
SinmeB_0755	0.0027	0.0026	1.06181
SinmeB_0756	0	0	0
SinmeB_0758	0.0021	0.008	0.25656
SinmeB_0759	0.0014	0	NA
SinmeB_0760	0.0008	0.0049	0.16263
SinmeB_0763	0.0012	0.0042	0.27958
SinmeB_0764	0.0038	0	NA
SinmeB_0765	0	0	0
SinmeB_0766	0	0	0
SinmeB_0768	0	0	0
SinmeB_0769	0	0.0056	0
SinmeB_0774	0.0035	0	NA
SinmeB_0775	0	0.0078	0
SinmeB_0776	0.0033	0	NA
SinmeB_0777	0	0.0015	0
SinmeB_0778	0	0	0
SinmeB_0779	0.0033	0.00395	NA
SinmeB_0780	0	0.0048	0
SinmeB_0781	0.0025	0	NA
SinmeB_0783	0	0	0
SinmeB_0784	0	0	0
SinmeB_0785	0.0035	0	NA
SinmeB_0787	0	0	0
SinmeB_0788	0	0	0
SinmeB_0789	0	0	0
SinmeB_0792	0	0	0
SinmeB_0794	0.0026	0	NA
SinmeB_0797	0.00103333333333333	0	NA
SinmeB_0800	0.0016	0.0081	0.2025
SinmeB_0802	0	0	0
SinmeB_0803	0	0	0
SinmeB_0804	0	0	0
SinmeB_0806	0.000566666666666667	0.0103666666666667	NA
SinmeB_0807	0.002	0	NA
SinmeB_0809	0.001	0.004	0.2514
SinmeB_0810	0	0	0
SinmeB_0811	0	0	0
SinmeB_0812	0	0	0
SinmeB_0813	0.00145	0	NA
SinmeB_0814	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0815	0	0	0
SinmeB_0816	0	0	0
SinmeB_0817	0	0	0
SinmeB_0818	0.0011	0	NA
SinmeB_0820	0	0.008	0
SinmeB_0822	0.0015	0.034	0.04327
SinmeB_0824	0	0.0261	0
SinmeB_0825	0	0.00295	0
SinmeB_0828	0.0004	0.0055	0.07692
SinmeB_0830	0	0.0078	0
SinmeB_0831	0	0	0
SinmeB_0832	0	0	0
SinmeB_0833	0.0008	0.0025	0.30952
SinmeB_0834	0.00125	0	NA
SinmeB_0835	0	0	0
SinmeB_0836	0	0.0126	0
SinmeB_0837	0.0021	0.0027	0.76099
SinmeB_0839	0.0009	0	NA
SinmeB_0841	0	0	0
SinmeB_0842	0	0	0
SinmeB_0843	0.001	0	NA
SinmeB_0844	0.00065	0	NA
SinmeB_0846	0	0	0
SinmeB_0848	0.0007	0.0027	0.26423
SinmeB_0850	0	0	0
SinmeB_0857	0	0	0
SinmeB_0858	0.0021	0	NA
SinmeB_0859	0	0	0
SinmeB_0860	0	0	0
SinmeB_0862	0.0008	0.0069	0.059445
SinmeB_0863	0	0	0
SinmeB_0865	0	0.0042	0
SinmeB_0867	0.0014	0	NA
SinmeB_0869	0	0	0
SinmeB_0871	0	0	0
SinmeB_0873	0	0.0071	0
SinmeB_0875	0	0	0
SinmeB_0877	0	0	0
SinmeB_0879	0.00175	0	NA
SinmeB_0880	0	0	0
SinmeB_0881	0.0022	0	NA
SinmeB_0883	0	0.0026	0
SinmeB_0884	0	0	0
SinmeB_0886	0.000466666666666667	0.00553333333333333	0.02714
SinmeB_0888	0.0013	0	NA
SinmeB_0889	0.001	0.00313333333333333	0.13615
SinmeB_0891	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0894	0	0	0
SinmeB_0896	0	0.0091	0
SinmeB_0897	0	0	0
SinmeB_0898	0.0019	0.0038	0.48906
SinmeB_0899	0	0	0
SinmeB_0900	0.0022	0	NA
SinmeB_0904	0.00045	0.0023	NA
SinmeB_0905	0	0	0
SinmeB_0906	0.0011	0	NA
SinmeB_0907	0.0023	0	NA
SinmeB_0908	0	0	0
SinmeB_0910	0	0	0
SinmeB_0913	0.0007	0	NA
SinmeB_0914	0	0.0067	0
SinmeB_0915	0.0012	0	NA
SinmeB_0916	0	0.00523333333333333	0
SinmeB_0918	0	0	0
SinmeB_0921	0	0	0
SinmeB_0923	0.0009	0	NA
SinmeB_0924	0	0.0079	0
SinmeB_0925	0	0	0
SinmeB_0926	0	0	0
SinmeB_0927	0.00045	0	NA
SinmeB_0928	0.0026	0	NA
SinmeB_0929	0.002	0	NA
SinmeB_0930	0	0	0
SinmeB_0931	0	0	0
SinmeB_0932	0	0	0
SinmeB_0933	0	0.0042	0
SinmeB_0935	0.0011	0	NA
SinmeB_0938	0	0	0
SinmeB_0940	0.0013	0	NA
SinmeB_0941	0	0	0
SinmeB_0942	0	0	0
SinmeB_0943	0	0.0083	0
SinmeB_0944	0	0	0
SinmeB_0945	0	0	0
SinmeB_0946	0.0024	0.0102	0.23395
SinmeB_0948	0	0	0
SinmeB_0949	0.0027	0	NA
SinmeB_0955	0	0.0024	0
SinmeB_0957	0.00095	0.0032	0.145585
SinmeB_0958	0.00185	0.00395	0.2321
SinmeB_0962	0.0008	0.0045	NA
SinmeB_0968	0.0014	0.002	0.68987
SinmeB_0972	0	0.015	0
SinmeB_0974	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_0975	0.0005	0	NA
SinmeB_0976	0.000266666666666667	0.00293333333333333	0.0671866666666667
SinmeB_0979	0	0	0
SinmeB_0981	0.0007	0.0071	0.10434
SinmeB_0983	0	0.0048	0
SinmeB_0985	0	0	0
SinmeB_0987	0.0024	0	NA
SinmeB_0989	0	0	0
SinmeB_0992	0.0013	0	NA
SinmeB_0995	0.0018	0	NA
SinmeB_0997	0.0013	0	NA
SinmeB_0999	0.0021	0.0079	0.26315
SinmeB_1001	0	0	0
SinmeB_1005	0.0016	0.0044	0.37082
SinmeB_1008	0	0	0
SinmeB_1009	0	0	0
SinmeB_1011	0	0	0
SinmeB_1012	0	0	0
SinmeB_1013	0	0	0
SinmeB_1015	0	0	0
SinmeB_1016	0.0012	0	NA
SinmeB_1017	0.0014	0.0061	0.23219
SinmeB_1019	0.0038	0	NA
SinmeB_1020	0	0.0204	0
SinmeB_1022	0.0014	0	NA
SinmeB_1024	0	0	0
SinmeB_1025	0	0.006	0
SinmeB_1026	0.0007	0.003	0.22139
SinmeB_1027	0.00275	0	NA
SinmeB_1029	0	0	0
SinmeB_1031	0.0006	0.01	0.05933
SinmeB_1034	0.0015	0	NA
SinmeB_1035	0	0	0
SinmeB_1037	0	0.0055	0
SinmeB_1040	0	0	0
SinmeB_1041	0.0009	0.0027	0.32217
SinmeB_1042	0	0	0
SinmeB_1045	0	0	0
SinmeB_1046	0	0	0
SinmeB_1049	0.0074	0	NA
SinmeB_1053	0	0	0
SinmeB_1054	0.0049	0	NA
SinmeB_1055	0.0012	0.00335	0.178385
SinmeB_1056	0	0	0
SinmeB_1058	0.003	0	NA
SinmeB_1059	0	0	0
SinmeB_1060	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1063	0	0.00455	0
SinmeB_1065	0	0.0047	0
SinmeB_1066	0	0	0
SinmeB_1068	0	0	0
SinmeB_1069	0	0.0057	0
SinmeB_1070	0	0	0
SinmeB_1072	0.0013	0.0016	0.8246
SinmeB_1074	0	0.0021	0
SinmeB_1079	0	0.005	0
SinmeB_1082	0.0015	0	NA
SinmeB_1083	0	0.0036	0
SinmeB_1086	0	0	0
SinmeB_1088	0	0	0
SinmeB_1089	0.0017	0	NA
SinmeB_1090	0.00423333333333333	0.00253333333333333	NA
SinmeB_1091	0	0	0
SinmeB_1092	0.0014	0	NA
SinmeB_1095	0	0	0
SinmeB_1096	0.00175	0	NA
SinmeB_1097	0	0	0
SinmeB_1099	0	0	0
SinmeB_1103	0.0013	0	NA
SinmeB_1106	0	0	0
SinmeB_1107	0.0007	0	NA
SinmeB_1109	0	0.0028	0
SinmeB_1117	0	0	0
SinmeB_1118	0	0.0024	0
SinmeB_1119	0	0.01	0
SinmeB_1121	0	0	0
SinmeB_1122	0.0015	0	NA
SinmeB_1123	0	0	0
SinmeB_1124	0	0.0073	0
SinmeB_1125	0.0018	0	NA
SinmeB_1126	0.00245	0	NA
SinmeB_1127	0.0034	0	NA
SinmeB_1130	0	0.0054	0
SinmeB_1132	0	0.0023	0
SinmeB_1133	0	0.00225	0
SinmeB_1134	0	0.0094	0
SinmeB_1135	0	0.0211	0
SinmeB_1136	0.0028	0	NA
SinmeB_1137	0.0021	0.008	0.26532
SinmeB_1138	0.0018	0.0109	0.16653
SinmeB_1142	0.001	0.0028	0.34616
SinmeB_1143	0	0.0026	0
SinmeB_1146	0.0012	0	NA
SinmeB_1148	0.00145	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1149	0.00055	0	NA
SinmeB_1151	0	0.0058	0
SinmeB_1152	0	0.00346666666666667	0
SinmeB_1154	0.00085	0	NA
SinmeB_1155	0	0	0
SinmeB_1156	0.00116666666666667	0.00413333333333333	NA
SinmeB_1157	0.0007	0.0024	0.14005
SinmeB_1159	0	0.0059	0
SinmeB_1160	0	0	0
SinmeB_1162	0.002	0	NA
SinmeB_1164	0.0016	0	NA
SinmeB_1166	0.0007	0	NA
SinmeB_1167	0	0	0
SinmeB_1168	0	0.0051	0
SinmeB_1169	0	0	0
SinmeB_1170	0	0	0
SinmeB_1171	0	0	0
SinmeB_1173	0	0	0
SinmeB_1175	0	0	0
SinmeB_1178	0.0025	0.0029	0.85885
SinmeB_1179	0.0004	0	NA
SinmeB_1180	0	0	0
SinmeB_1181	0	0.03055	0
SinmeB_1182	0.0012	0.0271	0.0438
SinmeB_1184	0.0068	0.0363	0.18738
SinmeB_1188	0.0042	0.0106	0.394
SinmeB_1189	0	0.0483	0
SinmeB_1190	0.0015	0.0165	0.08807
SinmeB_1191	0.00245	0.0275	0.0783
SinmeB_1192	0.0039	0.0124	0.31343
SinmeB_1193	0	0.0364	0
SinmeB_1196	0	0.0043	0
SinmeB_1197	0	0.0262	0
SinmeB_1198	0.0018	0.0339	0.128345
SinmeB_1199	0.0013	0.0414	0.03234
SinmeB_1200	0.0048	0.0149	0.32316
SinmeB_1202	0.002	0.0292	0.0689
SinmeB_1204	0.0102	0.0265	0.38545
SinmeB_1205	0.0015	0.0143	0.10849
SinmeB_1207	0.00185	0	NA
SinmeB_1208	0	0	0
SinmeB_1209	0.0073	0.036	0.20349
SinmeB_1210	0	0.01425	0
SinmeB_1211	0.0018	0.0299	0.06162
SinmeB_1212	0	0.0117	0
SinmeB_1213	0.00105	0.03365	0.02251
SinmeB_1214	0.00463333333333333	0.0131333333333333	0.371436666666667

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1215	0.0024	0.0124	0.168886666666667
SinmeB_1216	0.0019	0.01045	0.18729
SinmeB_1217	0	0	0
SinmeB_1218	0.0012	0.0154	0.07564
SinmeB_1220	0	0.0255	0
SinmeB_1221	0	0.0339	0
SinmeB_1222	0	0.0072	0
SinmeB_1223	0.00216666666666667	0.0335	0.06725
SinmeB_1224	0.0031	0.0219	0.14152
SinmeB_1225	0.00353333333333333	0.0405	0.121556666666667
SinmeB_1227	0.0068	0.0124	0.55142
SinmeB_1228	0.00493333333333333	0.0637333333333333	0.08426
SinmeB_1230	0.0005	0.0677	0.00795
SinmeB_1232	0.0043	0.0476	0.0907
SinmeB_1233	0.0028	0.0436	0.06376
SinmeB_1234	0	0.0104	0
SinmeB_1235	0.0035	0.0134	0.26377
SinmeB_1237	0.0025	0.0308	0.08063
SinmeB_1238	0.0009	0.0206	0.0455
SinmeB_1239	0.0009	0.0052	0.17682
SinmeB_1240	0	0	0
SinmeB_1242	0.00205	0	NA
SinmeB_1244	0.00208	0.0061	NA
SinmeB_1248	0	0.02945	0
SinmeB_1249	0	0.0138	0
SinmeB_1251	0	0.0335	0
SinmeB_1252	0.0135	0.016	0.84654
SinmeB_1255	0	0	0
SinmeB_1256	0.0061	0	NA
SinmeB_1257	0.0011	0.0102	0.10672
SinmeB_1259	0.0016	0.0404	0.03917
SinmeB_1260	0.0047	0.048	0.09872
SinmeB_1262	0	0.0282	0
SinmeB_1264	0.0098	0.0533	0.18462
SinmeB_1266	0.0101	0.0601	0.16742
SinmeB_1268	0.002	0.0219	0.09121
SinmeB_1269	0	0.0203	0
SinmeB_1270	0.0012	0.009	0.12951
SinmeB_1271	0.0027	0.0727	0.03733
SinmeB_1273	0.0013	0.0266	0.0497
SinmeB_1274	0	0	0
SinmeB_1275	0.003	0.07825	0.038635
SinmeB_1277	0.00315	0.04805	0.042935
SinmeB_1278	0.001	0.0501	0.02001
SinmeB_1279	0.0038	0.0741	0.05145
SinmeB_1283	0.0031	0.0204	0.15176
SinmeB_1284	0.0016	0.0356	0.04631

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1286	0	0.0351	0
SinmeB_1290	0	0	0
SinmeB_1291	0.003	0.0339	0.08932
SinmeB_1292	0.0013	0.0156666666666667	0.111333333333333
SinmeB_1295	0.0104	0.0483	0.21605
SinmeB_1301	0	0.0176	0
SinmeB_1303	0	0	0
SinmeB_1304	0.0043	0.0227	0.18935
SinmeB_1307	0	0.0043	0
SinmeB_1308	0.00383333333333333	0.0160666666666667	NA
SinmeB_1309	0.0063	0.0128	0.49406
SinmeB_1310	0.0006	0.04845	0.010675
SinmeB_1312	0	0.0113	0
SinmeB_1313	0	0	0
SinmeB_1315	0.0012	0.0252	0.04781
SinmeB_1316	0	0.0154	0
SinmeB_1319	0.0017	0.0461	0.03721
SinmeB_1322	0.0018	0.0053	0.33749
SinmeB_1324	0	0.0672	0
SinmeB_1326	0.0096	0.0239	0.39951
SinmeB_1327	0.0046	0.0695	0.0663
SinmeB_1328	0	0.0283	0
SinmeB_1330	0.00095	0.02205	0.13313
SinmeB_1333	0.0018	0.0319	0.05498
SinmeB_1335	0.01885	0.0855	0.24364
SinmeB_1338	0.000633333333333333	0.0149333333333333	0.151146666666667
SinmeB_1342	0	0	0
SinmeB_1345	0.0022	0.0078	0.28306
SinmeB_1348	0.0021	0	NA
SinmeB_1349	0	0	0
SinmeB_1353	0.0011	0.002	0.54621
SinmeB_1357	0	0.033	0
SinmeB_1361	0.0058	0.0185	0.31349
SinmeB_1362	0.0044	0.0441	0.10016
SinmeB_1363	0.002	0.0074	0.26958
SinmeB_1364	0	0.0145	0
SinmeB_1366	0.0008	0.0094	0.08231
SinmeB_1369	0.002875	0.014875	NA
SinmeB_1371	0.00205	0.03205	0.031945
SinmeB_1372	0	0.0099	0
SinmeB_1373	0.0025	0.0227	0.11041
SinmeB_1374	0	0.0261	0
SinmeB_1375	0	0.0096	0
SinmeB_1377	0	0.0382	0
SinmeB_1379	0	0.0172	0
SinmeB_1380	0	0.0083	0
SinmeB_1382	0.00225	0.02885	0.05557

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1384	0.0201	0.0159	1.26166
SinmeB_1385	0.0045	0.0076	0.58936
SinmeB_1387	0	0.0274	0
SinmeB_1389	0.001	0.0186	0.05633
SinmeB_1391	0.0005	0.0246	0.02057
SinmeB_1394	0	0.0335	0
SinmeB_1397	0.00725	0.0290666666666667	NA
SinmeB_1399	0.002	0.0411	0.028655
SinmeB_1401	0.0014	0.0608	0.02305
SinmeB_1402	0	0.0281333333333333	0
SinmeB_1403	0.0009	0.0137	0.0449
SinmeB_1404	0	0.0275	0
SinmeB_1405	0	0.0405	0
SinmeB_1409	0	0.0302	0
SinmeB_1412	0.0041	0	NA
SinmeB_1413	0.0036	0.02545	0.31576
SinmeB_1414	0.0006	0.0188	0.03221
SinmeB_1416	0	0.0022	0
SinmeB_1417	0	0.0095	0
SinmeB_1418	0	0.039	0
SinmeB_1419	0.00265	0	NA
SinmeB_1420	0	0.0193	0
SinmeB_1421	0	0.0056	0
SinmeB_1422	0	0.0127	0
SinmeB_1425	0	0	0
SinmeB_1427	0	0.0163	0
SinmeB_1429	0	0	0
SinmeB_1430	0	0	0
SinmeB_1431	0	0.0212	0
SinmeB_1433	0	0.03285	0
SinmeB_1434	0	0.0207	0
SinmeB_1435	0	0.043	0
SinmeB_1436	0	0.0121	0
SinmeB_1438	0.0027	0.04595	0.07263
SinmeB_1439	0.0046	0.0459	0.1
SinmeB_1441	0.0029	0.0807	0.03626
SinmeB_1442	0.0047	0.0945	0.05272
SinmeB_1443	0	0.06065	0
SinmeB_1444	0.0047	0.0631	0.07386
SinmeB_1445	0.0021	0.0069	0.29545
SinmeB_1446	0.0015	0.0617	0.013165
SinmeB_1447	0	0.0124	0
SinmeB_1448	0	0.0121	0
SinmeB_1450	0	0.0276	0
SinmeB_1453	0.0016	0.0321	0.0489
SinmeB_1454	0	0.0101	0
SinmeB_1455	0.0152	0.01715	0.875015

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1456	0.0018	0.0356	0.05127
SinmeB_1457	0.00405	0.016	0.12679
SinmeB_1460	0	0.0513	0
SinmeB_1464	0	0	0
SinmeB_1466	0.0064	0.0356	0.17845
SinmeB_1468	0.002	0.0089	0.22908
SinmeB_1469	0	0.0411	0
SinmeB_1470	0	0.0296	0
SinmeB_1471	0	0.0079	0
SinmeB_1472	0.002	0.0498	0.04022
SinmeB_1473	0.0084	0.1098	0.07614
SinmeB_1474	0.00463333333333333	0.0495666666666667	0.0976533333333333
SinmeB_1475	0.0038	0.0334	0.11268
SinmeB_1477	0.0038	0.0807	0.04675
SinmeB_1478	0	0.00495	0
SinmeB_1479	0.008	0.0257	0.3105
SinmeB_1481	0.0034	0.0197	0.17402
SinmeB_1483	0.0006	0.0306	0.01963
SinmeB_1484	0.0096	0.0177	0.54037
SinmeB_1485	0.003	0.0164	0.18259
SinmeB_1486	0.0169	0.0943	0.17925
SinmeB_1488	0.0033	0.0723	0.04617
SinmeB_1489	0	0	0
SinmeB_1490	0	0.0131333333333333	0
SinmeB_1493	0	0.0214	0
SinmeB_1494	0.0018	0.0337	0.05374
SinmeB_1496	0.0029	0.0202	0.14288
SinmeB_1497	0.0089	0.03675	0.22733
SinmeB_1499	0.0016	0.0783	0.02106
SinmeB_1500	0	0.0657	0
SinmeB_1501	0.0012	0.0298	0.04145
SinmeB_1502	0.0024	0.0066	0.36608
SinmeB_1503	0.0029	0.0055	NA
SinmeB_1504	0.0043	0.015	0.288
SinmeB_1505	0.0097	0.0479	0.20153
SinmeB_1507	0.0033	0.0896	0.03726
SinmeB_1508	0	0.0541	0
SinmeB_1511	0	0.0476	0
SinmeB_1513	0	0.0355	0
SinmeB_1515	0	0.0234	0
SinmeB_1516	0	0	0
SinmeB_1517	0.0018	0.0111	0.16309
SinmeB_1522	0	0.0682	0
SinmeB_1523	0.0086	0.0442	0.19494
SinmeB_1526	0.0042	0.021	0.1377
SinmeB_1528	0.00125	0.0445	0.03907
SinmeB_1532	0.0011	0.0771	0.01425

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1533	0.0022	0.0255	0.082365
SinmeB_1535	0.0022	0.0218	0.09979
SinmeB_1536	0.0174	0.0458	0.37961
SinmeB_1537	0	0.069	0
SinmeB_1538	0.0008	0.00245	NA
SinmeB_1539	0.00195	0.0234	0.042125
SinmeB_1540	0	0	0
SinmeB_1541	0.0005	0.0284	0.0171
SinmeB_1542	0	0	0
SinmeB_1543	0	0.0125	0
SinmeB_1545	0.0059	0.0309	0.18566
SinmeB_1546	0	0.0561	0
SinmeB_1547	0	0.04085	0
SinmeB_1548	0.00276666666666667	0.0214333333333333	0.0859833333333333
SinmeB_1549	0.0012	0.0196	0.05961
SinmeB_1550	0.0016	0.0424	0.03879
SinmeB_1552	0.00156666666666667	0.0233666666666667	0.0793366666666667
SinmeB_1553	0.0035	0.0329	0.10545
SinmeB_1557	0.0057	0.0255	0.22185
SinmeB_1560	0.0028	0.0284	0.09762
SinmeB_1561	0.0029	0.0402	0.07276
SinmeB_1563	0.0021	0.0123	0.16817
SinmeB_1566	0.0037	0.0322666666666667	0.200273333333333
SinmeB_1567	0.0016	0.0184	0.08889
SinmeB_1568	0.0018	0.0251	0.0708
SinmeB_1569	0	0	0
SinmeB_1570	0.0011	0.0145	0.07455
SinmeB_1571	0.0015	0.014	0.10419
SinmeB_1572	0.0038	0.0125	0.30137
SinmeB_1575	0.0025	0.0306	0.08286
SinmeB_1577	0.0017	0	NA
SinmeB_1579	0.0012	0.0378	0.03285
SinmeB_1580	0.0064	0.0212	0.29927
SinmeB_1581	0.00105	0.01465	0.152975
SinmeB_1582	0.001	0.0353	0.02801
SinmeB_1583	0.0035	0.0458	0.07565
SinmeB_1584	0.0042	0.1306	0.03191
SinmeB_1585	0.0103	0.0536	0.19132
SinmeB_1586	0.0009	0.0245	0.0355
SinmeB_1587	0.00145	0.06805	0.014695
SinmeB_1588	0.0005	0.0222	0.02427
SinmeB_1590	0.0043	0.01175	0.37598
SinmeB_1591	0.0057	0.01	0.57531
SinmeB_1592	0.0018	0.0248	0.07237
SinmeB_1595	0.0008	0.0296	0.02773
SinmeB_1597	0.0017	0.0064	0.2653
SinmeB_1599	0.0034	0.0172	0.19602

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1601	0	0	0
SinmeB_1604	0.0081	0.0152	0.53235
SinmeB_1607	0	0.0375	0
SinmeB_1609	0.0096	0.0255	0.37569
SinmeB_1611	0	0.0354	0
SinmeB_1614	0.00215	0.03985	0.061905
SinmeB_1617	0.0026	0.0212	0.12083
SinmeB_1618	0.0013	0.0097	0.1357
SinmeB_1619	0.0138	0.0314	0.43926
SinmeB_1620	0.0034	0.0528	0.06366
SinmeB_1621	0.0044	0.0364	0.12047
SinmeB_1623	0	0.0142	0
SinmeB_1626	0.0031	0.0349	0.09613
SinmeB_1628	0.0039	0.0749	0.05169
SinmeB_1630	0.0038	0.014	0.27309
SinmeB_1631	0.00245	0.0323	0.050235
SinmeB_1633	0.0172	0.0328	0.52297
SinmeB_1637	0.0011	0.0434	0.02437
SinmeB_1641	0.0053	0.0637	0.08289
SinmeB_1646	0.0032	0.0243	0.13043
SinmeB_1648	0.0019	0.0119	0.15969
SinmeB_1649	0	0	0
SinmeB_1650	0	0.008	0
SinmeB_1651	0	0.0144	0
SinmeB_1652	0.00295	0.0338	0.097835
SinmeB_1654	0.0016	0.0199	0.07812
SinmeB_1656	0.0022	0.0159	0.14165
SinmeB_1657	0.0075	0.0299	0.25017
SinmeB_1658	0.0014	0.0244	0.0576
SinmeB_1659	0.0066	0	NA
SinmeB_1660	0.0089	0.0395	0.22479
SinmeB_1661	0	0.0168	0
SinmeB_1662	0.0057	0.0385	0.14843
SinmeB_1666	0	0	0
SinmeB_1668	0.0016	0	NA
SinmeB_1672	0.00105	0.00195	NA
SinmeB_1673	0.0025	0	NA
SinmeB_1674	0	0	0
SinmeB_1676	0	0	0
SinmeB_1677	0	0	0
SinmeB_1678	0	0	0
SinmeB_1683	0	0.0265	0
SinmeB_1684	0.0095	0	NA
SinmeB_1686	0	0	0
SinmeB_1687	0	0	0
SinmeB_1689	0	0	0
SinmeB_1690	0	0.0044	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1691	0	0.0067	0
SinmeB_1692	0	0	0
SinmeB_1693	0	0.00286666666666667	0
SinmeB_1695	0.0029	0	NA
SinmeB_1696	0.0006	0.0025	0.26094
SinmeB_1698	0	0	0
SinmeB_1699	0.001	0	NA
SinmeB_1702	0	0	0
SinmeB_1705	0	0	0
SinmeB_1707	0	0	0
SinmeB_1711	0	0.0162	0
SinmeB_1712	0	0	0
SinmeB_1713	0	0	0
SinmeB_1715	0	0	0
SinmeB_1716	0	0.00133333333333333	0
SinmeB_1717	0	0	0
SinmeB_1718	0	0	0
SinmeB_1722	0	0	0
SinmeB_1724	0.0016	0	NA
SinmeB_1727	0.0012	0	NA
SinmeB_1730	0	0	0
SinmeB_1733	0	0	0
SinmeB_1734	0	0.0026	0
SinmeB_1735	0	0	0
SinmeB_1737	0.00035	0.00275	0.145285
SinmeB_1738	0	0	0
SinmeB_1741	0.0013	0	NA
SinmeB_1742	0.0016	0.0054	0.30072
SinmeB_1743	0	0.0104	0
SinmeB_1744	0.0023	0	NA
SinmeB_1745	0	0	0
SinmeB_1746	0	0	0
SinmeB_1748	0	0	0
SinmeB_1749	0	0	0
SinmeB_1750	0	0.0048	0
SinmeB_1751	0.0016	0	NA
SinmeB_1752	0.0041	0	NA
SinmeB_1755	0	0.0039	0
SinmeB_1756	0.0029	0	NA
SinmeB_1757	0	0	0
SinmeB_1760	0	0	0
SinmeB_1761	0	0	0
SinmeB_1762	0.0034	0	NA
SinmeB_1763	0.0007	0	NA
SinmeB_1764	0	0	0
SinmeB_1765	0	0	0
SinmeB_1767	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1770	0.000725	0	NA
SinmeB_1771	0.0007	0.0058	0.11548
SinmeB_1774	0	0.0014	0
SinmeB_1776	0	0	0
SinmeB_1778	0	0	0
SinmeB_1783	0	0	0
SinmeB_1784	0	0	0
SinmeB_1786	0	0.0051	0
SinmeB_1788	0	0	0
SinmeB_1789	0.0021	0	NA
SinmeB_1790	0	0	0
SinmeB_1793	0	0	0
SinmeB_1794	0.0011	0	NA
SinmeB_1797	0	0.0244	0
SinmeB_1798	0	0	0
SinmeB_1799	0	0	0
SinmeB_1800	0	0	0
SinmeB_1803	0	0	0
SinmeB_1806	0.001	0.0037	0.2597
SinmeB_1808	0	0	0
SinmeB_1810	0	0	0
SinmeB_1811	0	0	0
SinmeB_1812	0	0	0
SinmeB_1814	0.00075	0	NA
SinmeB_1816	0	0	0
SinmeB_1817	0	0	0
SinmeB_1818	0	0	0
SinmeB_1821	0	0	0
SinmeB_1822	0	0	0
SinmeB_1824	0	0	0
SinmeB_1829	0.0008	0	NA
SinmeB_1831	0	0	0
SinmeB_1832	0.0013	0.00725	NA
SinmeB_1833	0.0021	0	NA
SinmeB_1836	0	0	0
SinmeB_1837	0	0	0
SinmeB_1838	0	0	0
SinmeB_1839	0	0	0
SinmeB_1842	0	0.0149	0
SinmeB_1843	0	0	0
SinmeB_1845	0	0	0
SinmeB_1846	0	0	0
SinmeB_1848	0	0	0
SinmeB_1849	0.0014	0.0039	0.34868
SinmeB_1850	0	0	0
SinmeB_1851	0	0	0
SinmeB_1852	0.000566666666666667	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1853	0	0	0
SinmeB_1854	0	0	0
SinmeB_1855	0.00075	0.00245	0.154265
SinmeB_1859	0.0016	0	NA
SinmeB_1860	0.0014	0.00215	NA
SinmeB_1861	0	0	0
SinmeB_1862	0	0	0
SinmeB_1863	0.0038	0.0147	0.25793
SinmeB_1864	0.0019	0.003	0.62989
SinmeB_1865	0	0	0
SinmeB_1866	0.0006	0	NA
SinmeB_1867	0	0	0
SinmeB_1868	0	0	0
SinmeB_1869	0.001	0	NA
SinmeB_1870	0.0015	0	NA
SinmeB_1872	0.0014	0	NA
SinmeB_1874	0.00045	0.00145	0.151665
SinmeB_1875	0	0	0
SinmeB_1880	0.001	0	NA
SinmeB_1881	0	0	0
SinmeB_1882	0.0024	0.0072	0.33534
SinmeB_1885	0.0008	0	NA
SinmeB_1887	0.0008	0	NA
SinmeB_1890	0.0005	0	NA
SinmeB_1892	0	0	0
SinmeB_1893	0.0014	0.0053	0.25893
SinmeB_1898	0.0007	0.0059	0.16718
SinmeB_1900	0	0	0
SinmeB_1901	0	0	0
SinmeB_1902	0.0012	0	NA
SinmeB_1903	0	0	0
SinmeB_1904	0	0.0079	0
SinmeB_1905	0.0017	0	NA
SinmeB_1907	0	0	0
SinmeB_1908	0	0	0
SinmeB_1913	0.0006	0.0017	0.36325
SinmeB_1917	0	0.0017	0
SinmeB_1918	0	0.0059	0
SinmeB_1919	0	0.0028	0
SinmeB_1920	0	0	0
SinmeB_1922	0	0.0081	0
SinmeB_1923	0	0	0
SinmeB_1925	0.0012	0	NA
SinmeB_1926	0	0	0
SinmeB_1927	0	0	0
SinmeB_1928	0.005	0	NA
SinmeB_1929	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_1931	0	0.0031	0
SinmeB_1933	0	0.0069	0
SinmeB_1934	0	0	0
SinmeB_1935	0.0014	0	NA
SinmeB_1936	0	0	0
SinmeB_1938	0	0	0
SinmeB_1940	0	0	0
SinmeB_1942	0.0012	0.00185	0.31756
SinmeB_1943	0	0	0
SinmeB_1945	0.0016	0	NA
SinmeB_1948	0.0013	0.004	0.33284
SinmeB_1958	0.0032	0	NA
SinmeB_1959	0.00075	0	NA
SinmeB_1962	0	0.00413333333333333	0
SinmeB_1963	0.0007	0.005	0.13449
SinmeB_1964	0.0009	0.0047	0.18337
SinmeB_1966	0	0.0032	0
SinmeB_1968	0	0	0
SinmeB_1969	0	0	0
SinmeB_1970	0	0	0
SinmeB_1974	0	0	0
SinmeB_1977	0	0	0
SinmeB_1980	0	0	0
SinmeB_1981	0	0.00565	0
SinmeB_1983	0	0.0084	0
SinmeB_1984	0	0.0077	0
SinmeB_1985	0.0012	0.00435	NA
SinmeB_1987	0.0008	0	NA
SinmeB_1988	0	0	0
SinmeB_1989	0.000733333333333333	0.003	0.0810466666666667
SinmeB_1990	0	0	0
SinmeB_1991	0	0.0124	0
SinmeB_1992	0	0	0
SinmeB_1993	0.0011	0	NA
SinmeB_1994	0	0	0
SinmeB_1997	0	0	0
SinmeB_1999	0	0	0
SinmeB_2000	0	0.0108	0
SinmeB_2001	0.002	0.00435	0.23022
SinmeB_2002	0	0	0
SinmeB_2003	0	0	0
SinmeB_2004	0	0.012	0
SinmeB_2005	0	0	0
SinmeB_2006	0	0.00356666666666667	0
SinmeB_2008	0	0	0
SinmeB_2009	0	0	0
SinmeB_2010	0.0033	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2011	0	0	0
SinmeB_2012	0	0.0087	0
SinmeB_2014	0.0007	0	NA
SinmeB_2017	0	0	0
SinmeB_2018	0	0.0039	0
SinmeB_2021	0	0.0021	0
SinmeB_2023	0	0.0069	0
SinmeB_2024	0	0.0068	0
SinmeB_2025	0	0	0
SinmeB_2026	0.0012	0.0049	0.2433
SinmeB_2027	0	0	0
SinmeB_2028	0	0	0
SinmeB_2029	0.0027	0.0037	0.72962
SinmeB_2030	0.0015	0	NA
SinmeB_2031	0.0031	0	NA
SinmeB_2032	0.0014	0.0053	0.25692
SinmeB_2033	0	0	0
SinmeB_2034	0	0.0044	0
SinmeB_2035	0	0.004	0
SinmeB_2036	0.00135	0	NA
SinmeB_2037	0	0.00375	0
SinmeB_2038	0.0011	0	NA
SinmeB_2039	0	0	0
SinmeB_2043	0	0	0
SinmeB_2044	0	0	0
SinmeB_2046	0	0.0108	0
SinmeB_2047	0	0	0
SinmeB_2048	0	0	0
SinmeB_2050	0.0014	0	NA
SinmeB_2053	0.0012	0	NA
SinmeB_2054	0.0024	0	NA
SinmeB_2055	0	0	0
SinmeB_2056	0.0006	0	NA
SinmeB_2058	0	0	0
SinmeB_2059	0.0017	0	NA
SinmeB_2060	0	0	0
SinmeB_2062	0	0	0
SinmeB_2063	0	0	0
SinmeB_2064	0.0015	0	NA
SinmeB_2066	0	0	0
SinmeB_2067	0.0009	0.003	NA
SinmeB_2068	0.0043	0	NA
SinmeB_2069	0.0008	0.0038	0.20423
SinmeB_2071	0.0017	0	NA
SinmeB_2072	0	0	0
SinmeB_2073	0	0	0
SinmeB_2074	0.0009	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2075	0	0	0
SinmeB_2076	0	0	0
SinmeB_2077	0	0	0
SinmeB_2078	0	0.0058	0
SinmeB_2079	0.0014	0	NA
SinmeB_2080	0	0	0
SinmeB_2081	0.00305	0	NA
SinmeB_2082	0	0.0042	0
SinmeB_2083	0.0006	0.0031	0.09931
SinmeB_2084	0	0.0087	0
SinmeB_2085	0.0008	0	NA
SinmeB_2087	0	0.0039	0
SinmeB_2088	0.003	0	NA
SinmeB_2089	0	0	0
SinmeB_2091	0	0	0
SinmeB_2092	0	0	0
SinmeB_2094	0.0033	0	NA
SinmeB_2095	0	0	0
SinmeB_2097	0	0	0
SinmeB_2098	0.00183333333333333	0	NA
SinmeB_2099	0.00185	0	NA
SinmeB_2102	0.00225	0	NA
SinmeB_2104	0	0	0
SinmeB_2105	0.00185	0	NA
SinmeB_2106	0	0	0
SinmeB_2107	0	0.0047	0
SinmeB_2108	0	0	0
SinmeB_2112	0.0019	0.0044	0.42312
SinmeB_2115	0.0022	0	NA
SinmeB_2118	0	0	0
SinmeB_2120	0	0	0
SinmeB_2121	0	0	0
SinmeB_2123	0	0	0
SinmeB_2124	0	0	0
SinmeB_2128	0	0	0
SinmeB_2130	0.0015	0	NA
SinmeB_2131	0	0.0026	0
SinmeB_2135	0	0	0
SinmeB_2142	0.0004	0	NA
SinmeB_2143	0.0027	0	NA
SinmeB_2144	0.0007	0.0024	0.27389
SinmeB_2145	0.00065	0	NA
SinmeB_2146	0.0022	0.0045	NA
SinmeB_2148	0.001	0	NA
SinmeB_2149	0	0	0
SinmeB_2150	0	0	0
SinmeB_2151	0.0028	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2152	0	0.0099	0
SinmeB_2154	0	0	0
SinmeB_2155	0	0	0
SinmeB_2156	0.001	0	NA
SinmeB_2158	0.0006	0	NA
SinmeB_2160	0	0.0093	0
SinmeB_2163	0	0.0056	0
SinmeB_2164	0.003	0	NA
SinmeB_2165	0	0	0
SinmeB_2166	0.0009	0	NA
SinmeB_2168	0	0	0
SinmeB_2170	0	0	0
SinmeB_2171	0.00135	0	NA
SinmeB_2172	0	0	0
SinmeB_2173	0	0.005	0
SinmeB_2176	0	0	0
SinmeB_2177	0	0	0
SinmeB_2178	0	0	0
SinmeB_2179	0.0006	0	NA
SinmeB_2180	0.0012	0	NA
SinmeB_2181	0	0	0
SinmeB_2182	0	0.0033	0
SinmeB_2190	0.0007	0	NA
SinmeB_2192	0	0	0
SinmeB_2193	0.0012	0	NA
SinmeB_2194	0	0	0
SinmeB_2195	0	0.0019	0
SinmeB_2196	0	0	0
SinmeB_2197	0	0.0061	0
SinmeB_2198	0	0	0
SinmeB_2200	0	0	0
SinmeB_2202	0	0	0
SinmeB_2205	0.0012	0.0052	0.23566
SinmeB_2207	0	0	0
SinmeB_2208	0.0015	0	NA
SinmeB_2212	0	0	0
SinmeB_2213	0	0	0
SinmeB_2214	0	0.00915	0
SinmeB_2215	0	0	0
SinmeB_2216	0.0017	0	NA
SinmeB_2219	0.0007	0.0012	0.57706
SinmeB_2221	0	0.0076	0
SinmeB_2222	0	0	0
SinmeB_2226	0	0	0
SinmeB_2227	0	0	0
SinmeB_2228	0	0	0
SinmeB_2230	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2231	0	0	0
SinmeB_2232	0	0	0
SinmeB_2233	0.0012	0	NA
SinmeB_2235	0	0	0
SinmeB_2236	0	0	0
SinmeB_2237	0.0013	0.0038	0.34079
SinmeB_2238	0	0	0
SinmeB_2239	0	0	0
SinmeB_2243	0	0	0
SinmeB_2246	0	0	0
SinmeB_2247	0	0	0
SinmeB_2248	0	0	0
SinmeB_2251	0	0	0
SinmeB_2253	0	0	0
SinmeB_2255	0.0012	0	NA
SinmeB_2257	0	0.0024	0
SinmeB_2259	0	0	0
SinmeB_2260	0	0	0
SinmeB_2265	0.0012	0	NA
SinmeB_2267	0.00165	0.00565	0.29892
SinmeB_2269	0	0.006	0
SinmeB_2270	0.0025	0	NA
SinmeB_2271	0	0	0
SinmeB_2272	0	0	0
SinmeB_2273	0	0	0
SinmeB_2274	0	0	0
SinmeB_2275	0	0	0
SinmeB_2276	0.0018	0	NA
SinmeB_2278	0	0	0
SinmeB_2280	0	0	0
SinmeB_2282	0.0012	0.0035	0.33219
SinmeB_2283	0	0	0
SinmeB_2285	0	0	0
SinmeB_2286	0	0	0
SinmeB_2287	0	0	0
SinmeB_2288	0.0007	0.002	0.168915
SinmeB_2289	0.0005	0	NA
SinmeB_2291	0	0	0
SinmeB_2293	0.001	0	NA
SinmeB_2295	0	0	0
SinmeB_2298	0.0013	0	NA
SinmeB_2302	0	0	0
SinmeB_2305	0.0035	0	NA
SinmeB_2306	0	0	0
SinmeB_2308	0	0.0032	0
SinmeB_2310	0	0.0152	0
SinmeB_2311	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2312	0	0	0
SinmeB_2313	0.001	0	NA
SinmeB_2314	0	0	0
SinmeB_2316	0	0	0
SinmeB_2317	0	0	0
SinmeB_2318	0	0	0
SinmeB_2319	0.0008	0	NA
SinmeB_2321	0	0	0
SinmeB_2322	0	0.0067	0
SinmeB_2323	0	0	0
SinmeB_2324	0	0	0
SinmeB_2325	0	0	0
SinmeB_2326	0	0	0
SinmeB_2328	0	0	0
SinmeB_2331	0.0036	0.0302	0.11851
SinmeB_2332	0	0.076	0
SinmeB_2333	0	0.0056	0
SinmeB_2335	0	0.00375	0
SinmeB_2336	0	0	0
SinmeB_2339	0.0008	0	NA
SinmeB_2340	0	0.00265	0
SinmeB_2342	0	0	0
SinmeB_2343	0	0	0
SinmeB_2346	0	0	0
SinmeB_2347	0	0.0038	0
SinmeB_2349	0	0	0
SinmeB_2350	0.0023	0.0029	NA
SinmeB_2353	0.00075	0	NA
SinmeB_2354	0	0	0
SinmeB_2355	0.0026	0	NA
SinmeB_2357	0	0	0
SinmeB_2358	0	0	0
SinmeB_2359	0.001	0.0056	0.18302
SinmeB_2361	0	0	0
SinmeB_2364	0.0008	0.0038	0.20085
SinmeB_2365	0	0.0065	0
SinmeB_2366	0	0.0065	0
SinmeB_2367	0.0015	0	NA
SinmeB_2368	0.0016	0	NA
SinmeB_2369	0.0008	0	NA
SinmeB_2371	0	0.0034	0
SinmeB_2372	0.0024	0.0022	NA
SinmeB_2373	0	0	0
SinmeB_2374	0	0.005	0
SinmeB_2375	0	0	0
SinmeB_2377	0.0013	0	NA
SinmeB_2378	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2383	0	0	0
SinmeB_2385	0	0	0
SinmeB_2386	0	0	0
SinmeB_2387	0	0	0
SinmeB_2390	0.001	0	NA
SinmeB_2392	0.0005	0	NA
SinmeB_2393	0	0	0
SinmeB_2395	0	0	0
SinmeB_2396	0	0	0
SinmeB_2397	0	0	0
SinmeB_2398	0.0017	0	NA
SinmeB_2399	0.00135	0.005	0.13355
SinmeB_2400	0	0	0
SinmeB_2401	0	0	0
SinmeB_2402	0	0.0049	0
SinmeB_2406	0.0073	0.00063333333333333	NA
SinmeB_2408	0.0014	0	NA
SinmeB_2409	0	0	0
SinmeB_2410	0	0	0
SinmeB_2411	0.004	0	NA
SinmeB_2412	0	0	0
SinmeB_2413	0	0	0
SinmeB_2414	0.0027	0.0075	0.35299
SinmeB_2415	0	0.007	0
SinmeB_2417	0.0009	0.0112	0.0813
SinmeB_2418	0.0266	0.1368	0.19459
SinmeB_2419	0	0.1114	0
SinmeB_2420	0.0096	0.043	0.2234
SinmeB_2421	0	0	0
SinmeB_2422	0	0	0
SinmeB_2423	0	0	0
SinmeB_2425	0	0.0024	0
SinmeB_2427	0.00115	0	NA
SinmeB_2429	0	0	0
SinmeB_2432	0	0	0
SinmeB_2433	0	0	0
SinmeB_2434	0.001	0	NA
SinmeB_2435	0.00225	0.00265	NA
SinmeB_2436	0	0.00475	0
SinmeB_2437	0	0	0
SinmeB_2438	0.0013	0.002	NA
SinmeB_2440	0	0	0
SinmeB_2441	0	0	0
SinmeB_2443	0.00085	0	NA
SinmeB_2444	0	0	0
SinmeB_2446	0	0.0054	0
SinmeB_2448	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2450	0	0.005	0
SinmeB_2455	0	0	0
SinmeB_2456	0	0	0
SinmeB_2457	0.00195	0	NA
SinmeB_2458	0	0.00176666666666667	0
SinmeB_2459	0	0.01375	0
SinmeB_2460	0.00105	0	NA
SinmeB_2461	0.0013	0	NA
SinmeB_2462	0	0	0
SinmeB_2468	0	0.0023	0
SinmeB_2469	0	0	0
SinmeB_2470	0	0	0
SinmeB_2472	0	0	0
SinmeB_2473	0	0	0
SinmeB_2474	0	0	0
SinmeB_2475	0	0	0
SinmeB_2476	0.0017	0	NA
SinmeB_2477	0.0017	0.0059	0.14247
SinmeB_2478	0.0008	0	NA
SinmeB_2481	0.0021	0	NA
SinmeB_2484	0.0014	0	NA
SinmeB_2486	0.0006	0.0025	0.23296
SinmeB_2489	0.0006	0.0019	0.3266
SinmeB_2491	0.0015	0	NA
SinmeB_2492	0	0.0035	0
SinmeB_2494	0	0	0
SinmeB_2495	0	0	0
SinmeB_2497	0	0.0065	0
SinmeB_2498	0	0	0
SinmeB_2501	0	0.0036	0
SinmeB_2503	0.001	0	NA
SinmeB_2504	0.0022	0	NA
SinmeB_2507	0	0	0
SinmeB_2508	0.0019	0	NA
SinmeB_2509	0.0027	0	NA
SinmeB_2514	0.0007	0.0039	0.18287
SinmeB_2515	0.0008	0.0054	0.14921
SinmeB_2521	0	0.0033	0
SinmeB_2523	0	0.003	0
SinmeB_2526	0.00048	0	NA
SinmeB_2527	0.00155	0	NA
SinmeB_2528	0.00136	0	NA
SinmeB_2529	0	0	0
SinmeB_2530	0	0.0053	0
SinmeB_2531	0	0	0
SinmeB_2532	0.0017	0	NA
SinmeB_2533	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2534	0	0	0
SinmeB_2535	0	0	0
SinmeB_2536	0	0.0052	0
SinmeB_2543	0	0	0
SinmeB_2544	0.0008	0	NA
SinmeB_2545	0	0	0
SinmeB_2547	0	0.0086	0
SinmeB_2551	0	0	0
SinmeB_2553	0	0.0043	0
SinmeB_2554	0	0	0
SinmeB_2556	0	0	0
SinmeB_2557	0	0	0
SinmeB_2558	0	0.00265	0
SinmeB_2559	0.001	0	NA
SinmeB_2561	0	0	0
SinmeB_2562	0	0	0
SinmeB_2564	0.0012	0.0056	0.22366
SinmeB_2565	0	0	0
SinmeB_2566	0	0.0019	0
SinmeB_2568	0	0	0
SinmeB_2569	0.0021	0	NA
SinmeB_2570	0	0	0
SinmeB_2571	0	0	0
SinmeB_2573	0	0	0
SinmeB_2574	0	0.0023	0
SinmeB_2576	0.0013	0	NA
SinmeB_2577	0.0012	0	NA
SinmeB_2578	0	0	0
SinmeB_2579	0	0	0
SinmeB_2580	0.00085	0	NA
SinmeB_2581	0	0	0
SinmeB_2583	0	0	0
SinmeB_2584	0	0	0
SinmeB_2585	0	0	0
SinmeB_2586	0.000675	0	NA
SinmeB_2588	0	0	0
SinmeB_2594	0.00085	0.00275	0.157125
SinmeB_2595	0	0	0
SinmeB_2596	0	0	0
SinmeB_2597	0.0011	0	NA
SinmeB_2598	0	0.0062	0
SinmeB_2599	0	0.0056	0
SinmeB_2600	0.0013	0	NA
SinmeB_2602	0	0	0
SinmeB_2604	0	0	0
SinmeB_2606	0	0.0039	0
SinmeB_2607	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2608	0	0	0
SinmeB_2609	0	0	0
SinmeB_2610	0	0	0
SinmeB_2611	0	0	0
SinmeB_2612	0.0011	0	NA
SinmeB_2616	0.0014	0.0052	0.26547
SinmeB_2618	0	0	0
SinmeB_2620	0.0012	0.00226666666666667	NA
SinmeB_2623	0	0.0047	0
SinmeB_2626	0	0	0
SinmeB_2627	0.0022	0	NA
SinmeB_2628	0.00055	0	NA
SinmeB_2630	0.0013	0	NA
SinmeB_2631	0.0007	0	NA
SinmeB_2632	0	0	0
SinmeB_2633	0	0.0046	0
SinmeB_2634	0.0052	0	NA
SinmeB_2635	0.0009	0.0035	0.24893
SinmeB_2637	0.0008	0	NA
SinmeB_2638	0.0029	0	NA
SinmeB_2640	0	0	0
SinmeB_2641	0.0015	0.0044	0.3388
SinmeB_2642	0.001125	0.001175	NA
SinmeB_2643	0.0013	0	NA
SinmeB_2644	0	0	0
SinmeB_2646	0.0011	0.0054	0.20934
SinmeB_2647	0	0	0
SinmeB_2648	0.0018	0.00845	NA
SinmeB_2649	0	0	0
SinmeB_2650	0	0	0
SinmeB_2651	0.00075	0	NA
SinmeB_2655	0	0.0072	0
SinmeB_2657	0.003	0.0064	NA
SinmeB_2660	0	0	0
SinmeB_2661	0	0.0057	0
SinmeB_2662	0	0	0
SinmeB_2665	0.0007	0	NA
SinmeB_2667	0.0018	0.0098	0.18442
SinmeB_2668	0	0	0
SinmeB_2669	0.00246666666666667	0	NA
SinmeB_2671	0	0	0
SinmeB_2672	0	0.0027	0
SinmeB_2673	0	0.0027	0
SinmeB_2674	0	0	0
SinmeB_2675	0.0026	0	NA
SinmeB_2676	0	0	0
SinmeB_2677	0	0.00256666666666667	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_2678	0	0.0079	0
SinmeB_2680	0	0	0
SinmeB_2682	0.00045	0.0014	NA
SinmeB_2684	0.0027	0	NA
SinmeB_2686	0	0	0
SinmeB_2687	0	0	0
SinmeB_2688	0	0	0
SinmeB_2689	0	0	0
SinmeB_2691	0.0009	0	NA
SinmeB_2693	0	0	0
SinmeB_2696	0.004	0	NA
SinmeB_3062	0.0014	0.0049	0.28166
SinmeB_3063	0.001	0	NA
SinmeB_3064	0	0	0
SinmeB_3065	0.0009	0	NA
SinmeB_3066	0	0	0
SinmeB_3068	0	0	0
SinmeB_3072	0	0.0031	0
SinmeB_3074	0	0	0
SinmeB_3075	0	0	0
SinmeB_3078	0.0042	0	NA
SinmeB_3079	0	0	0
SinmeB_3080	0	0.0044	0
SinmeB_3082	0	0	0
SinmeB_3083	0.0005	0	NA
SinmeB_3085	0.0026	0	NA
SinmeB_3086	0	0	0
SinmeB_3089	0.0011	0.0018	0.62472
SinmeB_3090	0	0	0
SinmeB_3091	0	0	0
SinmeB_3092	0	0	0
SinmeB_3093	0	0.00295	0
SinmeB_3095	0.0007	0.0063	0.11016
SinmeB_3096	0	0	0
SinmeB_3097	0.0015	0.00125	NA
SinmeB_3100	0.0016	0	NA
SinmeB_3101	0	0	0
SinmeB_3102	0.0029	0	NA
SinmeB_3103	0.0008	0	NA
SinmeB_3104	0.0017	0	NA
SinmeB_3105	0.0012	0	NA
SinmeB_3106	0.0022	0	NA
SinmeB_3107	0	0	0
SinmeB_3108	0.00075	0	NA
SinmeB_3110	0	0	0
SinmeB_3112	0	0	0
SinmeB_3115	0.0009	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_3116	0	0	0
SinmeB_3117	0	0	0
SinmeB_3119	0.0007	0	NA
SinmeB_3120	0	0	0
SinmeB_3121	0	0.003	0
SinmeB_3122	0.0011	0.0068	0.15871
SinmeB_3123	0	0	0
SinmeB_3124	0	0.0034	0
SinmeB_3125	0	0	0
SinmeB_3126	0	0	0
SinmeB_3127	0	0	0
SinmeB_3128	0.0011	0	NA
SinmeB_3130	0	0	0
SinmeB_3133	0	0	0
SinmeB_3134	0	0	0
SinmeB_3135	0	0	0
SinmeB_3136	0	0	0
SinmeB_3137	0.0013	0	NA
SinmeB_3139	0.0009	0	NA
SinmeB_3140	0	0	0
SinmeB_3141	0.0004	0.0039	0.10489
SinmeB_3143	0	0.0035	0
SinmeB_3144	0.00165	0	NA
SinmeB_3145	0.00193333333333333	0	NA
SinmeB_3147	0.0011	0.0062	0.18161
SinmeB_3149	0	0	0
SinmeB_3150	0	0.0034	0
SinmeB_3151	0	0	0
SinmeB_3153	0.0038	0	NA
SinmeB_3154	0	0	0
SinmeB_3155	0	0	0
SinmeB_3157	0	0	0
SinmeB_3158	0	0	0
SinmeB_3159	0	0	0
SinmeB_3160	0	0	0
SinmeB_3162	0.002	0	NA
SinmeB_3163	0	0	0
SinmeB_3164	0	0	0
SinmeB_3165	0	0	0
SinmeB_3166	0	0.0097	0
SinmeB_3167	0.0032	0	NA
SinmeB_3168	0	0	0
SinmeB_3169	0	0	0
SinmeB_3171	0	0	0
SinmeB_3172	0	0	0
SinmeB_3173	0	0.0041	0
SinmeB_3175	0.0004	0.00165	0.122245

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_3176	0.001	0.0041	0.239
SinmeB_3248	0	0	0
SinmeB_3249	0.0036	0	NA
SinmeB_3250	0	0	0
SinmeB_3251	0	0.0029	0
SinmeB_3252	0	0	0
SinmeB_3253	0	0	0
SinmeB_3254	0	0.0056	0
SinmeB_3255	0	0.0031	0
SinmeB_3256	0	0	0
SinmeB_3258	0.0011	0.0036	0.31317
SinmeB_3259	0	0	0
SinmeB_3260	0	0.0083	0
SinmeB_3262	0	0.0018	0
SinmeB_3263	0	0	0
SinmeB_3264	0	0	0
SinmeB_3265	0	0	0
SinmeB_3266	0	0	0
SinmeB_3267	0.0025	0	NA
SinmeB_3268	0	0	0
SinmeB_3269	0	0	0
SinmeB_3270	0	0	0
SinmeB_3272	0	0	0
SinmeB_3273	0	0.0056	0
SinmeB_3275	0	0.0035	0
SinmeB_3277	0	0	0
SinmeB_3278	0	0	0
SinmeB_3279	0	0	0
SinmeB_3281	0	0	0
SinmeB_3282	0	0	0
SinmeB_3283	0	0	0
SinmeB_3284	0	0	0
SinmeB_3285	0	0	0
SinmeB_3286	0.00065	0	NA
SinmeB_3287	0	0	0
SinmeB_3288	0.0027	0	NA
SinmeB_3289	0	0.0069	0
SinmeB_3290	0	0	0
SinmeB_3292	0	0.0047	0
SinmeB_3293	0.0026	0	NA
SinmeB_3294	0.002	0	NA
SinmeB_3296	0	0	0
SinmeB_3297	0	0.0052	0
SinmeB_3298	0.001	0	NA
SinmeB_3299	0	0	0
SinmeB_3300	0	0	0
SinmeB_3301	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_3302	0	0	0
SinmeB_3304	0.0005	0.0057	0.0858
SinmeB_3306	0	0	0
SinmeB_3307	0	0.0019	0
SinmeB_3308	0.00175	0	NA
SinmeB_3309	0.0031	0	NA
SinmeB_3310	0	0.0127	0
SinmeB_3311	0	0	0
SinmeB_3314	0	0	0
SinmeB_3315	0	0	0
SinmeB_3316	0	0	0
SinmeB_3317	0	0	0
SinmeB_3318	0	0	0
SinmeB_3319	0	0.0024	0
SinmeB_3320	0	0	0
SinmeB_3321	0.0028	0	NA
SinmeB_3322	0	0	0
SinmeB_3323	0	0	0
SinmeB_3324	0	0.01025	0
SinmeB_3325	0	0.00405	0
SinmeB_3326	0	0	0
SinmeB_3327	0.0015	0	NA
SinmeB_3328	0	0.0067	0
SinmeB_3331	0	0.0028	0
SinmeB_3332	0	0	0
SinmeB_3333	0.0025	0	NA
SinmeB_3334	0	0	0
SinmeB_3335	0.0008	0.0027	0.31027
SinmeB_3337	0	0.0144	0
SinmeB_3338	0	0.0038	0
SinmeB_3339	0	0	0
SinmeB_3340	0	0	0
SinmeB_3341	0	0	0
SinmeB_3343	0.001	0	NA
SinmeB_3344	0	0	0
SinmeB_3345	0	0.0049	0
SinmeB_3346	0	0	0
SinmeB_3348	0	0	0
SinmeB_3351	0.002	0.0179	0.10922
SinmeB_3352	0.002	0.0045	0.43195
SinmeB_3354	0.0023	0	NA
SinmeB_3355	0	0.0118	0
SinmeB_3356	0	0	0
SinmeB_3358	0	0	0
SinmeB_3359	0	0.0076	0
SinmeB_3361	0.0007	0	NA
SinmeB_3363	0.0023	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SinmeB_3364	0	0	0
SinmeB_3365	0.0007	0	NA
SinmeB_3367	0	0	0
SinmeB_3368	0	0	0
SinmeB_3376	0.0004	0.0007	0.65307
SinmeB_3383	0	0	0
SinmeB_3384	0	0.008	0
SinmeB_3385	0.0008	0	NA
SinmeB_3391	0	0	0
SinmeB_3393	0.0008	0	NA
SinmeB_3395	0	0.0063	0
SinmeB_3396	0	0	0
SinmeB_3399	0	0	0
SinmeB_3403	0.0008	0	NA
SinmeB_3404	0.0025	0	NA
SinmeB_3405	0	0.009	0
SinmeB_3407	0.0021	0.0047	0.45552
SinmeB_3409	0	0.0031	0
SinmeB_3411	0	0	0
SinmeB_3413	0.00055	0.003	0.09082
SinmeB_3415	0.0013	0.0028	0.46836
SinmeB_3419	0	0	0
SinmeB_3420	0	0	0
SinmeB_3421	0.0015	0	NA
SinmeB_3423	0	0	0
SinmeB_3424	0	0	0
SinmeB_3427	0.001	0.0012	0.85033
SinmeB_3429	0	0.0033	0
SinmeB_3432	0.0008	0	NA
SinmeB_3434	0.0011	0.005	0.21716
SinmeB_3436	0.0013	0.0053	0.25057
SinmeB_3439	0	0	0
SinmeB_3441	0.0019	0	NA
SinmeB_3442	0	0.0026	0
SinmeB_3444	0	0	0
SinmeB_3445	0	0	0
SinmeB_3446	0	0	0
SinmeB_3447	0	0	0
SinmeB_3448	0	0	0
SinmeB_3449	0.0017	0.0056	0.29801
SinmeB_3451	0	0	0
SinmeB_3452	0.0022	0.0042	0.51792
SinmeB_3453	0	0.0023	0
SinmeB_3455	0	0	0
SinmeB_3457	0.0023	0	NA
SinmeB_3458	0.0015	0	NA
SMc00010	0.0007	0.0119	0.05943

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc00018	0	0	0
SMc00019	0	0	0
SMc00020	0	0	0
SMc00024	0.0004	0	NA
SMc00026	0	0	0
SMc00030	0	0	0
SMc00041	0	0	0
SMc00051	0	0.0038	0
SMc00056	0.0037	0	NA
SMc00057	0	0	0
SMc00058	0	0	0
SMc00059	0.0009	0	NA
SMc00060	0.0015	0	NA
SMc00071	0	0	0
SMc00073	0.0016	0.0055	0.2862
SMc00074	0	0.0034	0
SMc00077	0	0.0041	0
SMc00081	0	0	0
SMc00083	0	0	0
SMc00086	0	0.0047	0
SMc00092	0	0	0
SMc00094	0	0.0043	0
SMc00097	0.0019	0	NA
SMc00099	0	0	0
SMc00106	0	0	0
SMc00109	0	0.0092	0
SMc00115	0.0015	0	NA
SMc00120	0.0013	0	NA
SMc00129	0	0	0
SMc00135	0	0	0
SMc00138	0	0	0
SMc00139	0	0	0
SMc00141	0.0009	0	NA
SMc00142	0.0024	0	NA
SMc00154	0	0.0041	0
SMc00161	0.0008	0	NA
SMc00162	0	0	0
SMc00164	0.0011	0	NA
SMc00172	0.0033	0.0041	0.79106
SMc00177	0.0022	0	NA
SMc00235	0.0013	0	NA
SMc00239	0	0	0
SMc00247	0	0	0
SMc00249	0	0	0
SMc00261	0	0.0024	0
SMc00273	0	0	0
SMc00276	0.0014	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc00297	0	0	0
SMc00302	0.0036	0	NA
SMc00452	0	0	0
SMc00454	0	0	0
SMc00471	0.0005	0	NA
SMc00478	0	0.0026	0
SMc00485	0	0	0
SMc00492	0.0033	0.0205	0.16144
SMc00518	0	0	0
SMc00531	0.0016	0	NA
SMc00534	0	0	0
SMc00537	0	0	0
SMc00560	0	0	0
SMc00561	0.0008	0.0089	0.09019
SMc00562	0	0	0
SMc00572	0.0017	0.0293	0.058
SMc00573	0	0.0147	0
SMc00582	0.0016	0.0243	0.06628
SMc00593	0	0.009	0
SMc00597	0.0023	0	NA
SMc00599	0.0084	0.0098	0.86314
SMc00773	0	0.0178	0
SMc00788	0	0	0
SMc00790	0	0	0
SMc00804	0	0	0
SMc00808	0	0.0053	0
SMc00812	0.0034	0	NA
SMc00818	0	0	0
SMc00825	0	0.0035	0
SMc00856	0	0	0
SMc00857	0	0.0046	0
SMc00862	0.0015	0	NA
SMc00869	0	0.011	0
SMc00877	0	0	0
SMc00881	0.0015	0	NA
SMc00887	0	0.0031	0
SMc00914	0	0	0
SMc00919	0.0016	0	NA
SMc00922	0.0025	0	NA
SMc00929	0.0013	0	NA
SMc00939	0	0	0
SMc00945	0	0	0
SMc00951	0	0	0
SMc00955	0.0011	0.0039	0.28531
SMc00956	0	0	0
SMc00966	0.0035	0.0037	0.93697
SMc00968	0.0013	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc00969	0	0.0043	0
SMc00971	0.0013	0	NA
SMc00993	0.003	0	NA
SMc00995	0	0.0083	0
SMc00996	0.0017	0.0193	0.08833
SMc01000	0.0143	0.0195	0.73623
SMc01004	0	0.01	0
SMc01022	0.0084	0.0337	0.24966
SMc01028	0.0019	0.0708	0.02708
SMc01190	0	0	0
SMc01194	0	0	0
SMc01203	0	0	0
SMc01213	0.0026	0.0128	0.20532
SMc01224	0.0014	0.0041	0.33219
SMc01229	0	0.0214	0
SMc01242	0.0013	0	NA
SMc01256	0.0036	0.0413	0.08685
SMc01258	0.0144	0.02	0.72299
SMc01266	0	0.0421	0
SMc01274	0.0102	0.0693	0.14698
SMc01290	0.0027	0	NA
SMc01293	0	0	0
SMc01295	0	0.0151	0
SMc01297	0.0023	0.0182	0.12765
SMc01301	0	0	0
SMc01306	0	0.0264	0
SMc01332	0.0077	0.0509	0.15138
SMc01336	0.0044	0.0285	0.1536
SMc01343	0.003	0.0265	0.11492
SMc01358	0.007	0.0105	0.66497
SMc01370	0.001	0.0089	0.10958
SMc01406	0	0	0
SMc01429	0	0	0
SMc01435	0	0	0
SMc01437	0.0023	0	NA
SMc01438	0	0	0
SMc01439	0	0.0138	0
SMc01457	0	0	0
SMc01488	0	0.0094	0
SMc01491	0.0004	0.0043	0.09976
SMc01496	0	0	0
SMc01497	0.0014	0	NA
SMc01500	0	0.0079	0
SMc01503	0	0	0
SMc01513	0.0012	0.0044	0.28053
SMc01525	0.0016	0	NA
SMc01531	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc01534	0	0.0045	0
SMc01542	0	0	0
SMc01559	0	0	0
SMc01578	0	0	0
SMc01580	0	0	0
SMc01581	0.005	0	NA
SMc01583	0.0021	0	NA
SMc01584	0	0	0
SMc01585	0	0	0
SMc01586	0	0	0
SMc01587	0	0	0
SMc01609	0	0	0
SMc01611	0.0006	0	NA
SMc01613	0	0	0
SMc01619	0.0013	0	NA
SMc01625	0	0	0
SMc01626	0	0	0
SMc01632	0	0	0
SMc01641	0	0	0
SMc01656	0.0008	0.005	0.16212
SMc01668	0.0021	0	NA
SMc01698	0.0018	0.0118	0.14883
SMc01764	0.0016	0.0245	0.06716
SMc01767	0	0.0373	0
SMc01772	0	0	0
SMc01780	0.0006	0.0264	0.02185
SMc01781	0	0.0226	0
SMc01785	0	0.0366	0
SMc01787	0.0022	0	NA
SMc01789	0.0086	0.0636	0.13446
SMc01791	0	0	0
SMc01812	0.0049	0.0271	0.18178
SMc01821	0.0008	0.0043	0.19324
SMc01823	0	0	0
SMc01825	0.0014	0.0123	0.11463
SMc01826	0	0	0
SMc01832	0	0	0
SMc01847	0	0	0
SMc01860	0	0.0031	0
SMc01874	0.0007	0.0029	0.2411
SMc01881	0	0	0
SMc01903	0	0.0187	0
SMc01905	0	0.0167	0
SMc01911	0.0063	0.0589	0.1066
SMc01918	0	0.043	0
SMc01960	0	0	0
SMc01961	0.0013	0	NA

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc01981	0	0	0
SMc02048	0	0.0171	0
SMc02070	0.0015	0.0347	0.04433
SMc02078	0	0.031	0
SMc02082	0.01165	0.17655	0.0676
SMc02087	0.0019	0.0136	0.13956
SMc02093	0.0036	0.0468	0.07737
SMc02105	0	0	0
SMc02121	0	0.0361	0
SMc02124	0.0022	0.0471	0.04707
SMc02134	0.0045	0.0193	0.2336
SMc02139	0	0	0
SMc02147	0	0.0205	0
SMc02229	0.0013	0.0419	0.03099
SMc02231	0	0.0234	0
SMc02244	0.0019	0.0251	0.07553
SMc02251	0.0021	0.0593	0.03589
SMc02255	0.0009	0.0171	0.05062
SMc02257	0.0015	0	NA
SMc02259	0.0015	0.0166	0.09276
SMc02261	0.0041	0.0527	0.07772
SMc02264	0.0075	0	NA
SMc02265	0.001	0.0401	0.02431
SMc02273	0.0031	0.0197	0.15721
SMc02306	0.0029	0.0485	0.0595
SMc02315	0.0231	0.0824	0.27988
SMc02320	0	0	0
SMc02322	0.0011	0.078	0.01473
SMc02333	0.0016	0.0076	0.21691
SMc02336	0.0016	0	NA
SMc02338	0	0.0054	0
SMc02349	0	0.0059	0
SMc02362	0	0	0
SMc02370	0.0009	0	NA
SMc02386	0	0.0036	0
SMc02392	0	0	0
SMc02394	0	0	0
SMc02396	0	0.0042	0
SMc02407	0	0	0
SMc02418	0	0	0
SMc02469	0.0011	0	NA
SMc02488	0.0012	0	NA
SMc02494	0	0.0023	0
SMc02509	0	0	0
SMc02599	0.0008	0.0065	0.12004
SMc02603	0	0	0
SMc02634	0	0.0027	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc02646	0.0026	0.0048	0.54043
SMc02655	0	0.0071	0
SMc02658	0	0	0
SMc02685	0	0	0
SMc02690	0	0	0
SMc02698	0	0.0096	0
SMc02705	0	0.0019	0
SMc02711	0	0	0
SMc02734	0.0011	0	NA
SMc02737	0	0.0058	0
SMc02738	0.0015	0	NA
SMc02813	0	0	0
SMc02818	0	0	0
SMc03001	0.0024	0.0294	0.08318
SMc03014	0.0007	0.0348	0.02116
SMc03019	0.0047	0.1058	0.0443
SMc03024	0.0052	0.0831	0.06266
SMc03025	0.0017	0.1274	0.01354
SMc03026	0.0091	0.0428	0.21195
SMc03027	0	0.0288	0
SMc03028	0.006	0.106	0.05658
SMc03029	0.0036	0.1748	0.02038
SMc03030	0.0015	0.1421	0.01064
SMc03031	0.0054	0.0571	0.09377
SMc03032	0.0022	0.1085	0.02026
SMc03037	0.0982	0.8115	0.12106
SMc03043	0.0102	0.0916	0.11187
SMc03044	0.0491	0.0856	0.5736
SMc03047	0.0114	0.354	0.03234
SMc03070	0	0.0082	0
SMc03090	0	0.0117	0
SMc03100	0	0.0337	0
SMc03108	0	0	0
SMc03239	0	0	0
SMc03241	0	0	0
SMc03747	0.0024	0	NA
SMc03748	0	0.0043	0
SMc03808	0.0005	0.0022	0.2069
SMc03818	0	0	0
SMc03835	0	0	0
SMc03837	0	0	0
SMc03882	0	0	0
SMc04088	0	0.0071	0
SMc04092	0	0	0
SMc04178	0.0017	0	NA
SMc04179	0	0	0
SMc04183	0	0	0

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Table S4 – continued from previous page

Gene	*dN*	*dS*	ω
SMc04194	0	0	0
SMc04204	0	0	0
SMc04208	0	0.0056	0
SMc04219	0	0	0
SMc04221	0	0	0
SMc04227	0	0	0
SMc04228	0	0	0
SMc04240	0	0	0
SMc04252	0.0012	0.0062	0.19134
SMc04254	0	0	0
SMc04256	0	0	0
SMc04266	0	0	0
SMc04274	0.0011	0.005	0.2232
SMc04276	0	0	0
SMc04285	0	0	0
SMc04286	0	0.0062	0
SMc04288	0	0	0
SMc04292	0.0014	0	NA
SMc04296	0	0.008	0
SMc04322	0	0.0052	0
SMc04339	0	0	0
SMc04357	0	0.015	0
SMc04386	0.001	0	NA
SMc04387	0	0	0
SMc04388	0.0009	0	NA
SMc04395	0	0.0068	0
SMc04397	0	0	0
SMc04398	0	0	0
SMc04440	0	0	0
SMc04450	0	0.0026	0
SMc04882	0	0	0

$\text{gene}_name, dN, dS, omega DU99_1 8825, 0.0027, 0.01595, 0.08507 DU99_1 8915, 0.00305, 0, NA DU99_1 9155, 0.0229, 0.0983,$

Table S6: Per gene dN, dS, and ω values calculated for *S. meliloti* pSymB.

***Sinorhizobium meliloti* pSymB**			
Gene	***dN***	***dS***	ω
gene_name	dN	dS	omega
Sinme_3754	0	0.0402	0
Sinme_3756	0.0078	0.0519	0.14988
Sinme_3757	0.0057	0.0509	0.11204
Sinme_3760	0.0149	0.1544	0.09648
Sinme_3761	0	0.0718	0
Sinme_3762	0.0032	0.0197	0.15977
Sinme_3763	0.0016	0.0412	0.03937
Sinme_3765	0	0.0142	0
Sinme_3768	0	0.0132	0
Sinme_3769	0.0096	0.0177	NA
Sinme_3770	0	0.0878	0
Sinme_3771	0.0054	0.0748	0.0727
Sinme_3772	0.00945	0.2333	0.040945
Sinme_3774	0.00755	0.17255	0.044465
Sinme_3775	0.0356	0.2167	0.158705
Sinme_3776	0.0089	0.163	0.05475
Sinme_3779	0.0182	0.1842	0.0986
Sinme_3780	0.017	0.0617	0.27512
Sinme_3783	0.02015	0.1643	0.130535
Sinme_3784	0.02285	0.2089	0.10835
Sinme_3785	0.0037	0.0477	0.07659
Sinme_3787	0.009325	0.0275	0.4112125
Sinme_3788	0.013	0.0886	0.14664
Sinme_3789	0	0.0589	0
Sinme_3790	0.00935	0.06385	0.2125
Sinme_3791	0.0063	0.0559	0.11339
Sinme_3792	0.015	0.1199	0.12503
Sinme_3794	0.0197	0.0658	0.29873
Sinme_3795	0.0215	0.1006	0.21408
Sinme_3797	0.0237	0.0933	0.25393
Sinme_3798	0.0104	0.0833	0.12457
Sinme_3799	0.0145	0.0872	0.16685
Sinme_3800	0.0114	0.0843	0.13505
Sinme_3804	0.0095	0.079	0.12068
Sinme_3806	0	0.0731	0
Sinme_3808	0.0053	0.0378	0.14111
Sinme_3809	0.014	0.026	0.53841
Sinme_3810	0.0008	0.0237	0.03392
Sinme_3812	0.004	0.0118	0.33915
Sinme_3813	0.0045	0.0109	0.41189
Sinme_3814	0.0147	0.08975	0.208025
Sinme_3815	0.0017	0.0556	0.03073
Sinme_3816	0.0021	0.0409	0.05197
Sinme_3818	0.0011	0.0982	0.0116

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_3820	0.0034	0.0459	0.0751
Sinme_3822	0.0042	0.0082	NA
Sinme_3823	0.0025	0.0311	0.08104
Sinme_3825	0.0012	0.0161	0.07398
Sinme_3826	0	0.0328	0
Sinme_3828	0.005	0.063	0.07873
Sinme_3829	0.0073	0.0241	0.30439
Sinme_3831	0.0074	0.0901	0.08232
Sinme_3833	0.00766666666666667	0.118166666666667	0.0521833333333333
Sinme_3834	0.0082	0.0472	0.17309
Sinme_3836	0.00356666666666667	0.0856333333333333	0.0426233333333333
Sinme_3837	0.0082	0.037	0.22157
Sinme_3840	0	0.437	0
Sinme_3841	0.0034	0.0622	0.05462
Sinme_3842	0.0105	0.1289	0.08183
Sinme_3843	0	0.1273	0
Sinme_3844	0.0016	0.1614	0.00998
Sinme_3845	0.0137	0.0135	1.01386
Sinme_3846	0	0.0223	0
Sinme_3848	0.0034	0.0229	0.15066
Sinme_3849	0	0.3041	0
Sinme_3850	0.0552	0.2826	0.19529
Sinme_3864	0.0018	0.1903	0.00954
Sinme_3865	0	0.1397	0
Sinme_3867	0.03105	0.2375	0.113345
Sinme_3868	0.0061	0.1094	0.05588
Sinme_3871	0.0063	0.0617	0.10154
Sinme_3872	0.001	0.0685	0.02832
Sinme_3873	0	0.0335	0
Sinme_3874	0	0.0759	0
Sinme_3875	0.0103	0	NA
Sinme_3877	0.00315	0.10735	0.069795
Sinme_3878	0.0095	0.1621	0.05833
Sinme_3880	0.0072	0.0264	0.27356
Sinme_3881	0.00863333333333333	0.0772333333333333	0.122666666666667
Sinme_3882	0.0043	0.0291	0.14833
Sinme_3884	0.0169	0.0647	0.2603
Sinme_3885	0.0018	0.1195	0.01491
Sinme_3886	0.00745	0.16	0.0411
Sinme_3887	0	0.0456	0
Sinme_3888	0.0022	0.0446	0.05038
Sinme_3890	0.0066	0.0303	0.21855
Sinme_3891	0	0.0144	0
Sinme_3892	0.0071	0.032	0.22088
Sinme_3893	0.0027	0.066	0.04151
Sinme_3895	0.00225	0.05075	0.048035
Sinme_3896	0	0	0

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_3897	0.0139	0.06425	0.195915
Sinme_3899	0.0017	0.0656	0.02651
Sinme_3901	0.0141	0.092	0.15335
Sinme_3903	0.0024	0.0451	0.05237
Sinme_3904	0.0099	0.027	0.36719
Sinme_3905	0.0028	0.0616	0.04486
Sinme_3906	0.0026	0.008	0.3228
Sinme_3907	0	0.0064	0
Sinme_3909	0.001	0.0033	0.29822
Sinme_3910	0.0018	0.0122	0.1443
Sinme_3911	0.0029	0	NA
Sinme_3912	0	0	0
Sinme_3914	0.0071	0	NA
Sinme_3915	0.005	0	NA
Sinme_3916	0	0.01885	0
Sinme_3918	0.0041	0.0076	0.54207
Sinme_3920	0.0093	0.0669	0.1392
Sinme_3921	0	0.0448	0
Sinme_3922	0.0014	0.0519	0.02783
Sinme_3923	0.001	0.0367	0.02844
Sinme_3924	0.0133	0.1446	0.09229
Sinme_3925	0.0119	0.08215	0.18973
Sinme_3926	0.005	0.0318	0.15722
Sinme_3927	0.0023	0.0125	0.1863
Sinme_3928	0.0085	0.0372	0.22918
Sinme_3929	0.0046	0.0257	0.17756
Sinme_3930	0.011	0.055	0.19925
Sinme_3931	0.0102	0.0458	0.22269
Sinme_3932	0.0069	0.0933	0.07394
Sinme_3933	0	0.0045	0
Sinme_3934	0	0.0048	0
Sinme_3935	0.003	0.0131	0.2285
Sinme_3938	0.0035	0.0266	0.13109
Sinme_3939	0	0	0
Sinme_3940	0	0	0
Sinme_3941	0.001	0.0073	0.13919
Sinme_3942	0	0.0147	0
Sinme_3943	0.0024	0	NA
Sinme_3944	0.0102	0.132	0.0775
Sinme_3946	0	0.0052	0
Sinme_3948	0.0106	0.064	0.16511
Sinme_3951	0.0017	0.0115	0.15138
Sinme_3952	0.0045	0	NA
Sinme_3953	0	0.02255	0
Sinme_3954	0	0.0274	0
Sinme_3955	0.001	0.0044	0.23333
Sinme_3956	0.0012	0.0144	0.08223

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_3957	0.0035	0.0215	0.16188
Sinme_3959	0.00785	0.09445	0.077255
Sinme_3960	0.0059	0.0857	0.06854
Sinme_3961	0.0022	0.007	0.31824
Sinme_3962	0	0	0
Sinme_3964	0.00455	0.01685	0.28468
Sinme_3967	0.0046	0.0362	0.12838
Sinme_3969	0.0101	0.0407	0.24864
Sinme_3970	0.0097	0.0094	1.03608
Sinme_3971	0.0034	0.0506	0.06768
Sinme_3972	0.0014	0.11315	0.0146
Sinme_3973	0.0034	0.1303	0.02575
Sinme_3974	0.0095	0.0361	0.26189
Sinme_3976	0.0049	0.0411	0.11899
Sinme_3977	0.0058	0.0228	0.25568
Sinme_3978	0.0051	0.038	0.13529
Sinme_3982	0.0041	0.1059	0.0389
Sinme_3984	0.002	0.036	0.05681
Sinme_3986	0.0051	0.1027	0.04995
Sinme_3987	0	0.0628	0
Sinme_3988	0.0109	0.0275	0.39842
Sinme_3990	0.0077	0.1797	0.04265
Sinme_3991	0.0157	0.1227	0.1275
Sinme_3993	0.0261	0.15825	0.18942
Sinme_3994	0.0042	0.1298	0.03268
Sinme_3996	0.0122	0.1551	0.07869
Sinme_3999	0	0.0156	0
Sinme_4001	0.0084	0.0129	0.64832
Sinme_4002	0.003	0	NA
Sinme_4003	0.0039	0.0335	0.116
Sinme_4006	0.0068	0.0426	0.15859
Sinme_4008	0.0013	0.0367	0.03412
Sinme_4009	0.0026	0.0331	0.0774
Sinme_4010	0.0025	0.0219	0.11499
Sinme_4011	0.0115	0.0459	0.25138
Sinme_4012	0.0036	0.1505	0.02404
Sinme_4013	0.0266	0.3185	0.08363
Sinme_4014	0.00295	0.0885	0.020565
Sinme_4015	0.004	0.0456	0.0873
Sinme_4016	0.0038	0.0272	0.13901
Sinme_4017	0	0.0237	0
Sinme_4018	0.0071	0.0229	0.31174
Sinme_4019	0.0033	0.2744	0.01191
Sinme_4020	0.0037	0.3093	0.01187
Sinme_4021	0	0.1472	0
Sinme_4025	0.0411	0.506	0.08131
Sinme_4026	0.0257	0.4572	0.05616

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4027	0.0479	0.6089	0.10473
Sinme_4028	0.0111	0.1953	0.05664
Sinme_4029	0.0261	0.2472	0.1056
Sinme_4030	0.02785	0.1062	0.338745
Sinme_4031	0.0076	0.0409	0.18511
Sinme_4032	0.0123	0.1151	0.10646
Sinme_4033	0.0028	0.0451	0.06119
Sinme_4034	0.0106	0.0729	0.1459
Sinme_4035	0.0102	0.1413	0.072
Sinme_4038	0.0206	0.067	0.30807
Sinme_4040	0.0039	0.107	0.03656
Sinme_4041	0.0063	0.0452	0.13832
Sinme_4042	0.0039	0.0269	0.14586
Sinme_4043	0.0054	0.0592	0.11128
Sinme_4049	0.0088	0.0221	0.3986
Sinme_4050	0.0075	0.077	0.09763
Sinme_4051	0.0225	0.0112	1.99893
Sinme_4052	0.0023	0.02945	0.087315
Sinme_4054	0.0109	0.0425	0.2559
Sinme_4055	0.0164	0.4093	0.04014
Sinme_4056	0.0215	0.4701	0.04542
Sinme_4058	0.0374	0.4352	0.08588
Sinme_4059	0.0111	0.2668	0.04144
Sinme_4060	0.0168	0.3532	0.04747
Sinme_4065	0.0102	0.25745	0.04875
Sinme_4066	0.0052	0.0142	0.36674
Sinme_4067	0.0036	0.03685	0.065705
Sinme_4068	0.0219	0.16225	0.13375
Sinme_4069	0.0208	0.3675	0.05649
Sinme_4070	0.0198	0.224	0.08824
Sinme_4072	0.01525	0.3606	0.04561
Sinme_4073	0.0115	0.19725	0.060585
Sinme_4074	0.0075	0.0507	0.1478
Sinme_4075	0.0203	0.0244	0.82958
Sinme_4078	0.0121	0.1042	0.11621
Sinme_4079	0.0152	0.1001	0.15182
Sinme_4080	0.0243	0.0722	0.33578
Sinme_4082	0.0205	0.1474	0.13884
Sinme_4085	0.0121	0.137	0.08837
Sinme_4087	0.0044	0.1968	0.02215
Sinme_4088	0.00283333333333333	0.0479666666666667	0.19047
Sinme_4091	0.0071	0.0686	0.10339
Sinme_4092	0.0093	0.0428	0.21753
Sinme_4095	0.0095	0.0524	0.18057
Sinme_4096	0.0072	0.0771	0.09352
Sinme_4097	0.00785	0.08345	0.098515
Sinme_4098	0.0182	0.1367	0.13296

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4112	0.0059	0.0193	0.30694
Sinme_4113	0.0161	0.12735	0.13743
Sinme_4115	0.00475	0.1527	0.031815
Sinme_4116	0.0043	0.2795	0.01544
Sinme_4117	0.0074	0.1715	0.04328
Sinme_4118	0.0064	0.1005	0.06352
Sinme_4121	0.0035	0.1445	0.02426
Sinme_4122	0.0163	0.198	0.08239
Sinme_4124	0.0025	0.248	0.01
Sinme_4125	0.004	0.0787	0.05101
Sinme_4126	0.00305	0.0307	0.113185
Sinme_4127	0.00275	0.0576	0.040495
Sinme_4128	0.0205	0.1309	0.15663
Sinme_4129	0.0185	0.0864	0.21464
Sinme_4130	0.025	0.2042	0.12242
Sinme_4131	0.001	0.0747	0.01384
Sinme_4132	0.0105	0.0899	0.117
Sinme_4135	0.00155	0.05815	0.02904
Sinme_4138	0.0145	0.1004	0.1445
Sinme_4140	0.0086	0.0997	0.08659
Sinme_4142	0.0086	0.0823	0.10489
Sinme_4143	0.0104	0.0412	0.25153
Sinme_4144	0.0046	0.153	0.02998
Sinme_4146	0.0045	0.1207	0.03689
Sinme_4147	0.0146571428571429	0.119585714285714	0.109864285714286
Sinme_4148	0.0222	0.3388	0.06561
Sinme_4149	0.0131	0.1433	0.0912
Sinme_4150	0.0106	0.2925	0.03613
Sinme_4151	0.0084	0.0908	0.09286
Sinme_4152	0.0152	0.169	0.08977
Sinme_4153	0.02965	0.1839	0.14765
Sinme_4154	0.0049	0.03025	0.16283
Sinme_4155	0.0051	0.0842	0.06078
Sinme_4156	0.0067	0.1606	0.04173
Sinme_4163	0.0299	0.11805	0.253685
Sinme_4164	0.011	0.108	0.10224
Sinme_4165	0.0081	0.0574	0.1413
Sinme_4167	0.0174	0.1454	0.11997
Sinme_4168	0.0149	0.1697	0.08761
Sinme_4169	0.00675	0.1115	0.063125
Sinme_4172	0.01255	0.1945	0.058025
Sinme_4175	0	0.1202	0
Sinme_4176	0.0162	0.3376	0.04805
Sinme_4177	0.00625	0.12245	0.051565
Sinme_4178	0.01505	0.1154	0.12412
Sinme_4179	0.0107	0.0171	0.62548
Sinme_4180	0.0094	0.0623	0.15071

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4181	0.00595	0.03765	0.15647
Sinme_4182	0.0111	0.0275	0.40232
Sinme_4183	0.0078	0.0414	0.18943
Sinme_4185	0.0169	0.0719	0.23546
Sinme_4188	0.0087	0.0811	0.10695
Sinme_4190	0.0137	0.0448	0.30562
Sinme_4192	0.0153	0.0995	0.15403
Sinme_4193	0.0126	0.0972	0.12956
Sinme_4194	0.0038	0.0461	0.08185
Sinme_4195	0.00525	0.05515	0.14236
Sinme_4196	0.0062	0.0069	0.89941
Sinme_4197	0.0103	0.0157	0.65693
Sinme_4198	0.0027	0.0561	0.04904
Sinme_4200	0.004	0.0443	0.099815
Sinme_4201	0.0036	0.0439	0.0814
Sinme_4203	0.0042	0.0648	0.06417
Sinme_4207	0.0273	0.0325	0.84197
Sinme_4208	0.0391	0.2539	0.15386
Sinme_4209	0.02855	0.33	0.091005
Sinme_4210	0.0291	0.3347	0.08686
Sinme_4211	0.0559	0.1938	0.28856
Sinme_4217	0.0041	0.0485	0.055555
Sinme_4220	0.023	0.07295	0.30706
Sinme_4221	0.0228	0.0464	0.49151
Sinme_4222	0.0239	0.059025	0.4365725
Sinme_4224	0.0232	0.1185	0.19556
Sinme_4226	0.0167	0.0749	0.299015
Sinme_4227	0.0241	0.1309	0.18452
Sinme_4228	0.004	0.055	0.07358
Sinme_4231	0.0188	0.3152	0.05952
Sinme_4241	0.1473	0.2743	0.53702
Sinme_4242	0.0432	0.2126	0.20342
Sinme_4243	0.0142	0.0691	0.20542
Sinme_4244	0.0279	0.0456	0.61122
Sinme_4245	0.0395	0.1023	0.38638
Sinme_4246	0.0406	0.2054	0.19756
Sinme_4248	0.0539	0.32	0.16832
Sinme_4249	0.0307	0.4565	0.06717
Sinme_4250	0.03485	0.2646	0.14819
Sinme_4252	0.0205	0.1834	0.11165
Sinme_4253	0.0056	0.1251	0.0445
Sinme_4254	0.0255	0.1083	0.23525
Sinme_4255	0	0.0125	0
Sinme_4256	0.0153	0.06425	0.23905
Sinme_4257	0.0154	0.16	0.09637
Sinme_4259	0.0193	0.1469	0.13148
Sinme_4261	0.0252	0.1649	0.15274

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4263	0.0157	0.2016	0.07787
Sinme_4264	0.0202	0.1827	0.11082
Sinme_4265	0.079	0.2217	0.35609
Sinme_4266	0.13845	0.75665	0.204565
Sinme_4267	0.0602	0.309833333333333	0.178016666666667
Sinme_4268	0.0232666666666667	0.252366666666667	0.0979483333333333
Sinme_4269	0.0286	0.4972	0.05754
Sinme_4271	0.0392	1.1163	0.03508
Sinme_4283	0.05035	2.26845	0.02231
Sinme_4284	0.0103	1.0912	0.00947
Sinme_4285	0.050925	1.057525	0.0598
Sinme_4288	0.0236	0.1653	0.14253
Sinme_4290	0.0175	0.1724	0.10128
Sinme_4292	0.0171	0.1944	0.08806
Sinme_4293	0.0331	0.1228	0.26964
Sinme_4294	0.0216	0.1265	0.17085
Sinme_4295	0.0051	0.5367	0.00952
Sinme_4297	0.0277	0.1721	0.16088
Sinme_4300	0.0169	0.1566	0.10789
Sinme_4301	0.0054	0.1704	0.03183
Sinme_4302	0.0341	0.2732	0.12478
Sinme_4303	0.0239	0.4546	0.05263
Sinme_4304	0.0081	0.1387	0.0583
Sinme_4307	0.035	0.2176	0.16089
Sinme_4309	0	0	0
Sinme_4310	0.046	0.2683	0.169555
Sinme_4311	0.0227	0.167	0.13598
Sinme_4312	0.0147	0.1048	0.14002
Sinme_4314	0.02785	0.272	0.093255
Sinme_4315	0.0264	0.442733333333333	0.08021
Sinme_4316	0.0351	0.2551	0.13762
Sinme_4317	0.0531	0.3496	0.15188
Sinme_4325	0.0187	0.1882	0.09961
Sinme_4387	0.0028	0.069	0.04111
Sinme_4389	0	0.0735	0
Sinme_4390	0.0194	0.0911	0.21255
Sinme_4392	0.0087	0.2153	0.04041
Sinme_4393	0.0167	0.233	0.08603
Sinme_4394	0.01535	0.1776	0.088055
Sinme_4397	0.0529	0.1328	0.39793
Sinme_4398	0.0293	0.1912	0.15324
Sinme_4399	0.0016	0.2818	0.0057
Sinme_4402	0.0126	0.1964	0.06399
Sinme_4404	0.0113	0.1397	0.085035
Sinme_4405	0.01115	0.0536	NA
Sinme_4406	0.0049	0.0370666666666667	0.1696
Sinme_4407	0	0.2001	0

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4409	0.0051	0.1079	0.0475
Sinme_4410	0.0044	0.0776	0.05715
Sinme_4412	0.0016	0.0496	0.03209
Sinme_4414	0.0101	0.0904	0.11136
Sinme_4416	0.0034	0.0374	0.09167
Sinme_4417	0.01135	0.0511	0.24579
Sinme_4418	0.01875	0.13635	0.133695
Sinme_4419	0.0257	0.1636	0.15731
Sinme_4422	0	0.1039	0
Sinme_4426	0.0112	0.2391	0.04685
Sinme_4430	0.008	0.1561	0.0513
Sinme_4432	0	0.0593	0
Sinme_4433	0.0069	0.0363	0.18968
Sinme_4435	0.009	0.0302	0.29821
Sinme_4436	0.0034	0.0488	0.07015
Sinme_4437	0.0028	0.0095	0.29574
Sinme_4438	0.0092	0.0284	0.33857
Sinme_4439	0.0091	0.0193	0.47399
Sinme_4440	0.0051	0.0125	0.41082
Sinme_4441	0.0011	0.0108	0.09966
Sinme_4442	0.0014	0.0107	0.13278
Sinme_4443	0.002	0.0617	0.03195
Sinme_4445	0.0046	0.0177	0.26028
Sinme_4446	0.0071	0.012	0.59248
Sinme_4448	0.0161	0.0866	0.18635
Sinme_4453	0.0215	0.0549	0.39261
Sinme_4456	0.0031	0.1473	0.02118
Sinme_4458	0.0162	0.0644	0.25126
Sinme_4461	0.0511	0.1333	0.38346
Sinme_4463	0.0125	0.0922	0.13561
Sinme_4467	0.0024	0.0526	0.04576
Sinme_4469	0.0141	0.0775	0.18165
Sinme_4472	0.0241	0.4094	0.05893
Sinme_4474	0.0172	0.20175	0.089875
Sinme_4475	0.004	0.1464	0.02753
Sinme_4477	0.0319	0.2733	0.11691
Sinme_4480	0.0037	0.0638	0.05834
Sinme_4482	0.0165	0.0206	0.8022
Sinme_4483	0.00415	0.05245	0.075135
Sinme_4489	0.0026	0.0311	0.08519
Sinme_4491	0.0007	0.0705	0.00965
Sinme_4495	0	0.0284	0
Sinme_4504	0.0162	0.0364	0.44557
Sinme_4509	0.0012	0.0511	0.02402
Sinme_4512	0.0101	0.0823	0.12256
Sinme_4514	0.006	0.1355	0.04391
Sinme_4518	0.0049	0.0805	0.06112

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4520	0.044	0.221	0.19927
Sinme_4522	0.0278	0.2077	0.13364
Sinme_4524	0.0012	0.0302	0.0383
Sinme_4525	0.0079	0	NA
Sinme_4527	0.004	0.0162	0.24619
Sinme_4529	0	0	0
Sinme_4530	0.0017	0.0125	0.13891
Sinme_4533	0.00425	0.00585	NA
Sinme_4534	0	0.077	0
Sinme_4536	0.0038	0.0426	0.09035
Sinme_4538	0.00245	0.06185	0.031505
Sinme_4540	0.0226	0.1311	0.17281
Sinme_4544	0.0092	0.0424	0.21752
Sinme_4548	0.0139	0.0458	0.30268
Sinme_4549	0.004	0.0528	0.07529
Sinme_4551	0.006	0.0331	0.18073
Sinme_4553	0.0028	0.01605	0.087955
Sinme_4554	0.0047	0.0066	0.71587
Sinme_4556	0.0089	0.0677	0.13175
Sinme_4558	0.00726666666666667	0.0304666666666667	0.239776666666667
Sinme_4561	0.0013	0.0094	0.13932
Sinme_4562	0.0043	0.0276	0.15716
Sinme_4563	0.0064	0.1539	0.04183
Sinme_4564	0.0189	0.1439	0.13118
Sinme_4565	0.012	0.0631	0.18967
Sinme_4567	0.0069	0.033	0.20965
Sinme_4568	0.0095	0.10115	0.09613
Sinme_4569	0.0095	0.0654	0.14539
Sinme_4571	0.0147	0.0877	0.16735
Sinme_4572	0.0137	0.0783	0.17539
Sinme_4573	0.0043	0.1825	0.02377
Sinme_4575	0.0165	0.0596	0.27601
Sinme_4576	0.0033	0.0759	0.04346
Sinme_4577	0.0011	0.0326	0.03301
Sinme_4578	0.027	0.1943	0.13883
Sinme_4579	0.0062	0.0572	0.10838
Sinme_4580	0.00183333333333333	0.0128666666666667	0.105443333333333
Sinme_4581	0.0023	0	NA
Sinme_4583	0.0066	0.044	0.1499
Sinme_4586	0.0026	0.0679	0.03852
Sinme_4588	0.018	0.0511	0.35278
Sinme_4589	0.0117	0.0772	0.15184
Sinme_4590	0.0039	0.0698	0.0561
Sinme_4591	0.0103	0.0421	0.24556
Sinme_4592	0.0093	0.0647	0.14385
Sinme_4593	0.0022	0.0158	0.1383
Sinme_4595	0.0027	0.0106	0.25377

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4597	0.0089	0.0152	0.58314
Sinme_4598	0.0034	0.0148	0.22682
Sinme_4599	0.0029	0.0416	0.069
Sinme_4600	0	0.0092	0
Sinme_4601	0.0018	0.00565	0.50086
Sinme_4602	0	0.0185	0
Sinme_4604	0.0014	0.0182	0.07927
Sinme_4606	0.00065	0.01395	0.15191
Sinme_4608	0.00055	0.0144	0.030175
Sinme_4610	0.0019	0.0037	0.51798
Sinme_4611	0.0036	0.0128	0.27842
Sinme_4613	0.0091	0.0321	0.28283
Sinme_4614	0.0043	0.0228	0.18871
Sinme_4615	0.0011	0.0304	0.03642
Sinme_4616	0	0.0269	0
Sinme_4617	0.00345	0.0157	0.30676
Sinme_4618	0.0055	0.0072	0.7583
Sinme_4619	0.00285	0.0107	0.201575
Sinme_4621	0.0037	0.0293	0.12459
Sinme_4622	0	0.0157	0
Sinme_4623	0	0.0196	0
Sinme_4624	0	0.0084	0
Sinme_4627	0.0018	0.0038	0.47004
Sinme_4629	0.00535	0.0107	NA
Sinme_4630	0.0015	0	NA
Sinme_4632	0.004	0.0127	0.31675
Sinme_4633	0	0.0711	0
Sinme_4634	0.0136	0.0886	0.15367
Sinme_4636	0.0037	0.0938	0.03939
Sinme_4637	0.0072	0.1028	0.0704
Sinme_4639	0.0065	0.0604	0.1079
Sinme_4642	0.0024	0.0345	0.06877
Sinme_4645	0	0.0131	0
Sinme_4646	0.0042	0.0208	0.26672
Sinme_4647	0.0071	0.0248	0.28799
Sinme_4648	0.0012	0.0284	0.04187
Sinme_4649	0	0.0216	0
Sinme_4651	0	0.0193	0
Sinme_4652	0.0042	0.0167	0.25412
Sinme_4653	0.0057	0.0142	NA
Sinme_4656	0.003975	0.012825	NA
Sinme_4657	0.00215	0.0201	0.111235
Sinme_4658	0.0037	0.0102	0.36775
Sinme_4659	0.0017	0.0273	0.06181
Sinme_4661	0.0013	0.0171	0.07368
Sinme_4663	0	0.01	0
Sinme_4664	0.00475	0.01295	0.37276

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4665	0	0.0205	0
Sinme_4666	0	0.033	0
Sinme_4667	0	0.0271	0
Sinme_4668	0.0063	0.0243	0.26003
Sinme_4671	0.0028	0.0432	0.06363
Sinme_4672	0.0389	0.1247	0.32386
Sinme_4674	0.0031	0	NA
Sinme_4675	0.008	0.0656	0.12244
Sinme_4676	0.0072	0.0123	0.58444
Sinme_4677	0.00775	0.01045	0.36988
Sinme_4678	0.0106	0.0041	2.62073
Sinme_4679	0.0013	0.0252	0.05208
Sinme_4680	0.0049	0.0082	0.59696
Sinme_4682	0.0025	0.03	0.08359
Sinme_4684	0.0051	0.0381	0.124565
Sinme_4685	0.0051	0.0352	0.14472
Sinme_4686	0.0078	0.079	0.09928
Sinme_4687	0.0037	0.0523	0.07181
Sinme_4691	0.0246	0.0941	0.26187
Sinme_4697	0.0068	0.1328	0.05121
Sinme_4698	0.0038	0.1267	0.03004
Sinme_4700	0.0015	0.0895	0.01724
Sinme_4701	0	0.0785	0
Sinme_4702	0.0053	0.1228	0.04347
Sinme_4703	0.002	0.107	0.019
Sinme_4704	0	0.0546	0
Sinme_4707	0.005	0.0702	0.07139
Sinme_4708	0.0067	0.0525	0.12789
Sinme_4711	0.0029	0.0764	0.03819
Sinme_4712	0.0062	0.0219	0.28433
Sinme_4713	0.0044	0.0543	0.08076
Sinme_4715	0.0061	0.0715	0.08463
Sinme_4716	0.007	0.0288	0.24203
Sinme_4717	0.00375	0.04525	0.072035
Sinme_4720	0.005	0.0437	0.11426
Sinme_4723	0.0056	0.0596	0.0946
Sinme_4724	0.007475	0.0533	NA
Sinme_4725	0.0185	0.3148	0.0588
Sinme_4728	0.00225	0.0277	0.110425
Sinme_4729	0.0184	0.0829	0.22166
Sinme_4732	0.0012	0.01	0.11786
Sinme_4733	0	0.0028	0
Sinme_4734	0	0	0
Sinme_4735	0.0031	0.0034	0.92805
Sinme_4736	0.0018	0.0037	0.2434
Sinme_4737	0.00255	0	NA
Sinme_4738	0.0038	0.0099	0.38524

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4739	0.00595	0	NA
Sinme_4740	0	0	0
Sinme_4741	0.0012	0.0103	0.11934
Sinme_4742	0.0025	0.0111	0.22972
Sinme_4744	0.0026	0.0201	0.12919
Sinme_4747	0.0111	0.0345	0.32153
Sinme_4749	0.009	0.0155	0.58186
Sinme_4752	0.0057	0.0345	0.16646
Sinme_4753	0.0058	0.022	0.26204
Sinme_4754	0.006	0.0202	0.29924
Sinme_4756	0.0105	0.0495	0.567205
Sinme_4757	0.0046	0.029	0.15998
Sinme_4758	0.008	0.0384	0.20903
Sinme_4759	0.0024	0.0206	0.11634
Sinme_4760	0	0.1088	0
Sinme_4761	0.005	0.1084	0.04594
Sinme_4763	0.0076	0.1266	0.0721
Sinme_4764	0.0051	0.021	0.2448
Sinme_4765	0.0011	0.0177	0.0626
Sinme_4766	0.00075	0.03105	0.01327
Sinme_4768	0.001	0.0081	0.12915
Sinme_4769	0	0.0175	0
Sinme_4770	0.0077	0.0102	0.75616
Sinme_4771	0.0012	0.0046	0.26733
Sinme_4773	0.0022	0.0038	0.5876
Sinme_4775	0	0.0064	0
Sinme_4776	0.0015	0.0074	0.19983
Sinme_4777	0	0	0
Sinme_4778	0.00255	0.0217	0.11447
Sinme_4779	0.0011	0.0098	0.11667
Sinme_4780	0.0008	0.0241	0.03321
Sinme_4782	0.0033	0.0252	0.13062
Sinme_4783	0.0116	0.0141	0.81782
Sinme_4785	0.0031	0.0145	0.21523
Sinme_4786	0.0013	0.0422	0.02974
Sinme_4788	0.005	0.0172	0.29142
Sinme_4789	0.0018	0.0358	0.04988
Sinme_4791	0.0057	0.022	0.26124
Sinme_4792	0.0024	0.0199	NA
Sinme_4794	0.0042	0.0285	0.14912
Sinme_4795	0.0055	0.0349	0.15697
Sinme_4796	0.00285	0.01895	0.1017
Sinme_4798	0.0007	0.0232	0.02976
Sinme_4805	0.0079	0.0223	0.3521
Sinme_4806	0.0032	0.0351	0.09255
Sinme_4807	0.0039	0.0456	0.08519
Sinme_4809	0.0423	0.2093	0.20235

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Gene	*dN*	*dS*	ω
Sinme_4810	0.0123	0.127	0.09691
Sinme_4811	0.00375	0.11005	0.035125
Sinme_4812	0.009	0.0875	0.1516
Sinme_4813	0.0023	0.0122	0.19219
Sinme_4814	0	0.0168	0
Sinme_4815	0.00215	0.03775	0.03628
Sinme_4816	0.0098	0.0795	0.12386
Sinme_4817	0.0098	0.0392	0.25059
Sinme_4818	0.00135	0.06775	0.02539
Sinme_4820	0.0017	0.0163	0.1012
Sinme_4821	0	0	0
Sinme_4822	0	0	0
Sinme_4823	0.002	0.0341	0.05738
Sinme_4824	0.0048	0.0368	0.13136
Sinme_4825	0.0185	0.0477	0.38883
Sinme_4826	0.0031	0.0264	0.11828
Sinme_4827	0	0.0914	0
Sinme_4829	0.0061	0.0268	0.22233
Sinme_4833	0	0.0183	0
Sinme_4834	0.0241	0.0637	0.37764
Sinme_4835	0.0017	0.1393	0.01205
Sinme_4836	0.012	0.0406	0.29553
Sinme_4839	0.00245	0.059	0.241855
Sinme_4840	0.0089	0.1666	0.05324
Sinme_4841	0.004	0.0559	0.07134
Sinme_4842	0.0036	0.1681	0.02165
Sinme_4843	0.0142	0.1129	0.12579
Sinme_4845	0.0367	0.143	0.25638
Sinme_4846	0.0016	0.1389	0.01168
Sinme_4847	0.0232	0.18235	0.11366
Sinme_4848	0.0085	0.0359	0.23746
Sinme_4849	0.0151	0.1027	0.1466
Sinme_4853	0.0057	0.2635	0.02182
Sinme_4854	0.0067	0.1188	0.05613
Sinme_4855	0.05775	1.54975	0.037245
Sinme_4856	0.0152	0.1264	0.12
Sinme_4857	0.0083	0.1714	0.04831
Sinme_4858	0.01445	0.1372	0.101845
Sinme_4859	0.0341	0.16705	0.23904
Sinme_4860	0.0041	0.0272	0.15209
Sinme_4861	0.0041	0.1117	0.0368
Sinme_4862	0.0113	0.0683	0.16526
Sinme_4863	0.0165	0.0858	0.19252
Sinme_4866	0.0279	0.0919	0.30394
Sinme_4867	0.0015	0.05	0.02918
Sinme_4869	0.005	0.0699	0.07159
Sinme_4870	0.0041	0.0742	0.05531

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4872	0.0056	0.0329	0.16931
Sinme_4873	0.0082	0.0366	0.22487
Sinme_4875	0.0036	0.0497333333333333	0.07613
Sinme_4876	0.0036	0.0235	0.15287
Sinme_4877	0.0042	0.0351	0.12011
Sinme_4878	0.0137	0.0404	0.33915
Sinme_4879	0.0105	0.0341	0.30884
Sinme_4880	0.0079	0.0638	0.12411
Sinme_4882	0.0091	0.0426	0.21345
Sinme_4886	0.00885	0.02445	0.378235
Sinme_4887	0.01	0.0449	0.22292
Sinme_4890	0.0134	0.0554	0.24241
Sinme_4893	0.01055	0.06375	0.17042
Sinme_4894	0.0036	0.048	0.07601
Sinme_4895	0.0074	0.1289	0.05755
Sinme_4896	0.0051	0.0281	0.17979
Sinme_4897	0	0.0287	0
Sinme_4898	0.0053	0.0971	0.055
Sinme_4900	0.0113	0.0849	0.150406666666667
Sinme_4901	0	0.0528	0
Sinme_4903	0.009725	0.0938	0.1049475
Sinme_4904	0.0088	0.12105	0.07236
Sinme_4909	0.0025	0.099	0.0254
Sinme_4910	0.0076	0.0625	0.12198
Sinme_4911	0.001	0.0182	0.05321
Sinme_4913	0	0.0371	0
Sinme_4914	0.00055	0.0398	0.012695
Sinme_4915	0.0044	0.03105	0.111285
Sinme_4917	0.0025	0.0101	0.25268
Sinme_4920	0.0085	0.0238	0.35655
Sinme_4921	0.0012	0.0364	0.03291
Sinme_4922	0.0035	0.0873	0.03975
Sinme_4923	0	0.0231	0
Sinme_4937	0.0334	0.0693	0.48229
Sinme_4939	0.005	0.0151	0.33236
Sinme_4941	0.0039	0	NA
Sinme_4942	0.00145	0.02095	0.07217
Sinme_4943	0.0097	0.0241	0.40079
Sinme_4945	0.0028	0	NA
Sinme_4946	0.0129	0.0548	0.23568
Sinme_4948	0.00835	0.10435	0.08017
Sinme_4949	0.0248	0.1358	0.18272
Sinme_4957	0.0031	0.0314	0.09953
Sinme_4958	0.0068	0.01965	0.402975
Sinme_4959	0.0012	0.0481	0.022005
Sinme_4960	0.0043	0.05135	0.082775
Sinme_4961	0.0152	0.0509	0.29903

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_4965	0.0064	0.0791	0.08113
Sinme_4966	0	0.0286	0
Sinme_4967	0.0165	0.1144	0.14459
Sinme_4969	0.0154	0.1843	0.08366
Sinme_4970	0.0089	0.193	0.04621
Sinme_4972	0.0337	0.1653	0.20358
Sinme_4973	0.0167	0.1206	0.13829
Sinme_4974	0.0255	0.1596	0.15971
Sinme_4975	0.01995	0.084	0.30124
Sinme_4976	0.0183	0.1489	0.12298
Sinme_4977	0.0149	0.1075	0.13862
Sinme_4978	0.0103	0.1418	0.07296
Sinme_4979	0.0086	0.1285	0.06698
Sinme_4980	0.013	0.0575	0.22598
Sinme_4981	0.0039	0.0196	0.19723
Sinme_4983	0.0057	0.0195	0.29098
Sinme_4984	0.0081	0.0519	0.1566
Sinme_4985	0.0103	0.0818	0.12531
Sinme_4986	0.005	0.0423	0.11904
Sinme_4987	0.0057	0.1845	0.03079
Sinme_4989	0.0037	0.1381	0.02704
Sinme_4990	0.0606	0.0929	0.65279
Sinme_4991	0.0081	0.1346	0.06022
Sinme_4992	0.0035	0.100066666666667	0.0389866666666667
Sinme_4993	0.0037	0.1204	0.03038
Sinme_4994	0.0364	0.1791	0.20315
Sinme_4995	0.014	0.2561	0.05464
Sinme_4997	0.0277	0.0926	0.29918
Sinme_4998	0	0.0381	0
Sinme_4999	0.0019	0.0389	0.0281233333333333
Sinme_5000	0.0024	0.0205	0.11761
Sinme_5004	0.0023	0.0153	0.14887
Sinme_5005	0.0023	0.0624	0.03675
Sinme_5006	0.0178	0.0188	0.94471
Sinme_5007	0.01335	0.1109	0.173575
Sinme_5008	0	0.0183	0
Sinme_5010	0.00245	0.04615	0.0616
Sinme_5012	0.0057	0.0984	0.05754
Sinme_5017	0.0023	0.087	0.02619
Sinme_5019	0.0141	0.0626	0.22433
Sinme_5021	0.0074	0.0611	0.12138
Sinme_5022	0.0171	0.0463	0.36981
Sinme_5023	0.0035	0.0446	0.0782
Sinme_5024	0.0132	0.0767	0.17238
Sinme_5025	0.0102	0.1344	0.07596
Sinme_5026	0.0057	0.0384	0.1489
Sinme_5027	0.0082	0.0989	0.08293

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_5033	0.00175	0.0211	0.0648
Sinme_5036	0.0068	0.0427	0.15836
Sinme_5038	0.0009	0.0129	0.07157
Sinme_5045	0.0091	0.0230333333333333	NA
Sinme_5055	0.00975	0.04895	0.355155
Sinme_5058	0.0013	0.0128	0.10236
Sinme_5059	0.0009	0.0222	0.04241
Sinme_5060	0.0103333333333333	0.0717666666666667	NA
Sinme_5061	0.0214	0.3201	0.06693
Sinme_5062	0.0097	0.1504	0.06467
Sinme_5063	0.0115	0.0965	0.11917
Sinme_5067	0.0063	0	NA
Sinme_5069	0.0021	0.0134	0.15522
Sinme_5070	0.0012	0.0705	0.0177
Sinme_5073	0.0079	0.0717	0.11006
Sinme_5076	0.0149	0.1051	0.14137
Sinme_5078	0.0012	0.1552	0.00772
Sinme_5079	0.0058	0.08875	0.064965
Sinme_5080	0.0054	0.0461	0.11656
Sinme_5081	0.0126	0.0871	0.14525
Sinme_5082	0.0028	0.0769	0.0358
Sinme_5083	0.0045	0.0366	0.12315
Sinme_5084	0.0028	0.0207	0.13444
Sinme_5085	0.0029	0.008	0.367
Sinme_5087	0.0015	0.0117	0.13034
Sinme_5088	0.0026	0.0124	0.20549
Sinme_5090	0.0043	0.0237	0.18021
Sinme_5092	0.0048	0.0076	0.63468
Sinme_5094	0.0114	0.017	0.67142
Sinme_5100	0.03375	0.2423	0.175215
Sinme_5102	0.0108	0.0956	0.11284
Sinme_5109	0.0031	0.0242	0.12877
Sinme_5110	0	0.0362	0
Sinme_5111	0.0011	0.0081	0.13485
Sinme_5113	0.0024	0.0241	0.09945
Sinme_5118	0.0026	0.0133	0.19524
Sinme_5123	0	0.0259	0
Sinme_5124	0.0047	0.0286	0.1658
Sinme_5125	0.00515	0.04265	0.153035
Sinme_5126	0.0008	0.0359	0.02208
Sinme_5127	0	0.0364	0
Sinme_5128	0	0.0382	0
Sinme_5129	0.0055	0.0379	0.14636
Sinme_5130	0.0039	0.0186	0.21191
Sinme_5131	0	0.027	0
Sinme_5132	0.0026	0.0127	0.20252
Sinme_5133	0	0.0201	0

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Gene	*dN*	*dS*	ω
Sinme_5134	0	0.0336	0
Sinme_5135	0	0.0414	0
Sinme_5136	0	0.0304	0
Sinme_5142	0.0143	0.06845	0.20504
Sinme_5143	0	0.0267	0
Sinme_5144	0.0202	0.1116	0.18079
Sinme_5145	0.0067	0.0276	0.24135
Sinme_5148	0.0038	0.0191	0.2005
Sinme_5149	0.003	0.0275	0.10924
Sinme_5152	0.0039	0.0619	0.06338
Sinme_5153	0.0142	0.0866	0.16409
Sinme_5154	0.0125	0.0758	0.19738
Sinme_5155	0.0055	0.0498	0.1098
Sinme_5156	0.0041	0.1007	0.04032
Sinme_5157	0.0032	0.0753	0.04271
Sinme_5158	0.00475	0.0545	0.099775
Sinme_5162	0.00735	0.05755	0.13254
Sinme_5165	0.0012	0.1428	0.0085
Sinme_5166	0.0024	0.0823	0.02944
Sinme_5167	0.00425	0.0692	0.06351
Sinme_5174	0.0199	0.187	0.1062
Sinme_5178	0.0145	0.0599	0.24205
Sinme_5181	0.0101	0.2571	0.03924
Sinme_5185	0.0046	0.068	0.06736
Sinme_5187	0.00095	0.1382	0.006495
Sinme_5188	0.0165	0.1248	0.13252
Sinme_5189	0.0295	0.0913	0.32344
Sinme_5190	0.0036	0.0541	0.06612
Sinme_5191	0.0166	0.0788	0.2111
Sinme_5192	0.0081	0.1716	0.04739
Sinme_5193	0.0136	0.0543	0.25016
Sinme_5194	0.0087	0.04885	0.178205
Sinme_5195	0.0056	0.0291	0.19165
Sinme_5198	0.00345	0.09155	0.04283
Sinme_5199	0.0042	0.0233	0.18018
Sinme_5201	0.0087	0.0528	0.163695
Sinme_5202	0.0091	0.0516	0.17559
Sinme_5203	0.0343	0.0307	1.11686
Sinme_5204	0.01	0.06915	0.17389
Sinme_5206	0.0021	0.1334	0.01569
Sinme_5207	0.005	0.0032	1.57684
Sinme_5208	0.0061	0.057	0.10742
Sinme_5209	0	0.061	0
Sinme_5210	0.0126	0.0828	0.15175
Sinme_5211	0.006	0.0342	0.17589
Sinme_5212	0.0049	0.0911	0.05332
Sinme_5213	0.0222	0.1091	0.20356

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Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
Sinme_5214	0.0032	0.0616	0.05119
Sinme_5217	0.0078	0.0701	0.11063
Sinme_5222	0.0203	0.1041	0.19514
Sinme_5226	0.0063	0.1165	0.05408
Sinme_5228	0.0022	0.2001	0.01124
Sinme_5233	0.0117	0.2326	0.05038
Sinme_5235	0.0267	0.0733	0.36448
Sinme_5237	0.0151	0.106433333333333	0.127606666666667
Sinme_5238	0.0095	0.2015	0.04708
Sinme_5239	0.0214	0.1044	0.2048
Sinme_5251	0.0092	0.00635	NA
Sinme_5252	0.0034	0.0533	0.06345
Sinme_5253	0.00995	0.1037	0.099145
Sinme_5258	0.0039	0.1811	0.02148
Sinme_5259	0.0043	0.0612	0.06994
Sinme_5260	0.02255	0.0831	0.319615
Sinme_5261	0.0032	0.0271	0.11691
Sinme_5262	0.0025	0.1564	0.01589
Sinme_5263	0.0131	0.1626	0.08029
Sinme_5264	0.0139	0.1894	0.07324
Sinme_5265	0.0251	0.12795	0.19544
Sinme_5266	0	0.0884	0
Sinme_5267	0.0049	0.0321	0.15118
Sinme_5268	0.01385	0.02665	0.55278
Sinme_5269	0.0089	0.0974	0.09134
Sinme_5271	0	0.0937	0
Sinme_5272	0.0012	0.1273	0.00942
Sinme_5273	0.0006	0.142	0.0041
Sinme_5275	0	0.1788	0
SM2011_b20047	0.0138	0	NA
SM2011_b20049	0.0013	0.0099	0.13117
SM2011_b20055	0	0.0551	0
SM2011_b20082	0.0015	0.0454	0.03397
SM2011_b20097	0.0131	0.0558	0.23525
SM2011_b20102	0.0034	0.0096	0.35868
SM2011_b20109	0	0.0107	0
SM2011_b20125	0.0028	0.0202	0.13686
SM2011_b20131	0.0078	0	NA
SM2011_b20164	0.0023	0.0785	0.02896
SM2011_b20171	0	0.1048	0
SM2011_b20178	0.0022	0.0123	0.18292
SM2011_b20184	0	0.022	0
SM2011_b20185	0	0.0109	0
SM2011_b20186	0	0	0
SM2011_b20212	0.0037	0.0317	0.11747
SM2011_b20222	0.0037	0.0153	0.24306
SM2011_b20256	0	0.0099	0

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Gene	*dN*	*dS*	ω
SM2011_b20260	0.0214	0.091	0.23502
SM2011_b20261	0.0024	0.0513	0.04624
SM2011_b20278	0.0067	0.0226	0.2952
SM2011_b20314	0.0088	0.0728	0.12131
SM2011_b20321	0.0048	0.2084	0.02292
SM2011_b20347	0.0102	0.064	0.15988
SM2011_b20348	0	0.0537	0
SM2011_b20371	0.0056	0.2695	0.02075
SM2011_b20398	0.0024	0	NA
SM2011_b20400	0.0104	0	NA
SM2011_b20436	0.002	0.0531	0.03799
SM2011_b20443	0.0022	0.0252	0.08833
SM2011_b20444	0.0026	0.2382	0.01109
SM2011_b20482	0.0176	0.2976	0.05927
SM2011_b20485	0.0079	0.2712	0.02922
SM2011_b20489	0.0168	0.0507	0.33082
SM2011_b20504	0.0024	0.0714	0.03364
SM2011_b20511	0.0034	0.0812	0.04155
SM2011_b20522	0.0112	0.2086	0.05373
SM2011_b20534	0.0146	0.1457	0.1003
SM2011_b20546	0.0657	0.0901	0.72918
SM2011_b20568	0.0074	0.1826	0.04053
SM2011_b20569	0.0088	0.0806	0.10855
SM2011_b20570	0.0067	0.1094	0.06085
SM2011_b20582	0.0082	0.034	0.24038
SM2011_b20586	0.0053	0.0226	0.23321
SM2011_b20594	0.0321	0.099	0.32452
SM2011_b20595	0.0303	0.0238	1.27594
SM2011_b20603	0.0053	0.098	0.05366
SM2011_b20605	0.0027	0.2293	0.01195
SM2011_b20606	0.0144	0.0333	0.43151
SM2011_b20607	0.008	0.1423	0.05603
SM2011_b20610	0	0.2079	0
SM2011_b20611	0	0.101	0
SM2011_b20612	0.0149	0.1752	0.08507
SM2011_b20633	0.0026	0.0655	0.03947
SM2011_b20634	0.0039	0.1347	0.02859
SM2011_b20649	0.0062	0.0694	0.08892
SM2011_b20650	0.0041	0.0508	0.08068
SM2011_b20651	0.0051	0	NA
SM2011_b20652	0.0046	0.0454	0.10031
SM2011_b20655	0.0077	0.0265	0.28888
SM2011_b20658	0	0.0468	0
SM2011_b20667	0.0029	0.0312	0.09289
SM2011_b20668	0.0072	0.0253	0.28629
SM2011_b20676	0.0313	0.0569	0.55045
SM2011_b20683	0	0	0

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Gene	*dN*	*dS*	ω
SM2011_b20687	0.0036	0.0123	0.29549
SM2011_b20688	0.0081	0.00525	NA
SM2011_b20696	0.0061	0.007	0.86837
SM2011_b20697	0.0008	0.0078	0.10053
SM2011_b20700	0.0034	0.0301	0.11419
SM2011_b20701	0.0017	0.0363	0.04551
SM2011_b20702	0.0033	0.0113	0.28968
SM2011_b20703	0	0.0097	0
SM2011_b20705	0.0014	0.0782	0.0173
SM2011_b20709	0.005	0.0074	0.66872
SM2011_b20710	0	0.0058	0
SM2011_b20711	0.0094	0.0302	0.30979
SM2011_b20713	0	0.0268	0
SM2011_b20748	0.0037	0.0343	0.10729
SM2011_b20752	0.0122	0.0995	0.12274
SM2011_b20754	0.0072	0.073	0.09803
SM2011_b20769	0.0008	0.0801	0.00956
SM2011_b20770	0.0026	0.0616	0.04256
SM2011_b20775	0.14328	4.18116	0.040904
SM2011_b20785	0.0083	0.0232	0.36007
SM2011_b20786	0.0332	0.2508	0.13221
SM2011_b20815	0.0496	0.7319	0.06781
SM2011_b20831	0.0526	1.7554	0.02995
SM2011_b20846	0.0114	0.1138	0.10064
SM2011_b20849	0.0056	0.0443	0.12681
SM2011_b20863	0.0113	0.0448	0.25137
SM2011_b20880	0.0054	0.0994	0.05406
SM2011_b20890	0.0036	0.0697	0.05223
SM2011_b20942	0.0025	0.0537	0.04742
SM2011_b20943	0.0042	0	NA
SM2011_b20947	0.0187	0.1964	0.09518
SM2011_b20978	0.0113	0.041	0.27465
SM2011_b20986	0.0125	0.0757	0.16481
SM2011_b20988	0.0159	0.0768	0.20656
SM2011_b20993	0.0178	0.1591	0.11201
SM2011_b20994	0.003	0.0784	0.03877
SM2011_b20995	0.0044	0.1972	0.02208
SM2011_b20998	0.0178	0.1663	0.10726
SM2011_b21007	0.0094	0.1222	0.07724
SM2011_b21018	0.0052	0.2036	0.02545
SM2011_b21036	0.1482	0.2848	0.5202
SM2011_b21044	0.0354	0.2189	0.16154
SM2011_b21090	0.0091	0.0548	0.16544
SM2011_b21093	0.0102	0.089	0.11457
SM2011_b21098	0.0328	0.1949	0.16848
SM2011_b21100	0.0172	0.1576	0.10903
SM2011_b21105	0.0015	0.2477	0.00594

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Gene	*dN*	*dS*	ω
SM2011_b21116	0.0284	0.1238	0.22955
SM2011_b21117	0	0.0304	0
SM2011_b21130	0.0095	0.2271	0.04167
SM2011_b21131	0.0094	0.1509	0.06197
SM2011_b21132	0.003	0.1547	0.01934
SM2011_b21134	0.0197	0.2778	0.07085
SM2011_b21136	0.0078	0.2767	0.02825
SM2011_b21147	0.0072	0.0119	0.60787
SM2011_b21148	0.0033	0.0042	0.77484
SM2011_b21151	0.0071	0.0915	0.07709
SM2011_b21154	0.0217	0.1307	0.16637
SM2011_b21156	0.0237	0.0391	0.60536
SM2011_b21175	0.0013	0.0283	0.04571
SM2011_b21181	0.0041	0.0243	0.17025
SM2011_b21199	0.003	0.0192	0.1575
SM2011_b21227	0	0.0151	0
SM2011_b21229	0.0022	0.0475	0.04548
SM2011_b21231	0.0259	0.2055	0.12584
SM2011_b21236	0.0276	0.1384	0.19943
SM2011_b21237	0.0103	0.1168	0.08845
SM2011_b21240	0.0096	0.1155	0.08319
SM2011_b21241	0.0054	0.0911	0.05949
SM2011_b21243	0.0129	0.1078	0.11967
SM2011_b21248	0.0076	0.1442	0.05285
SM2011_b21250	0.0082	0.0581	0.14067
SM2011_b21252	0.0449	0.1323	0.33905
SM2011_b21256	0.0019	0.0044	0.4253
SM2011_b21257	0.00145	0.0197	0.03719
SM2011_b21261	0.0013	0.0566	0.02356
SM2011_b21263	0.0024	0.0564	0.04192
SM2011_b21264	0.0031	0.0527	0.05961
SM2011_b21265	0.0085	0.056	0.15225
SM2011_b21269	0	0.061	0
SM2011_b21270	0	0.0278	0
SM2011_b21271	0.0034	0.0392	0.0875
SM2011_b21274	0.0078	0.1173	0.06661
SM2011_b21278	0.0413	0.2476	0.16691
SM2011_b21279	0.0032	0.0387	0.08385
SM2011_b21280	0.0206	0.1213	0.16992
SM2011_b21281	0	0	0
SM2011_b21284	0.0026	0.0186	0.13687
SM2011_b21290	0.0072	0.0312	0.23099
SM2011_b21292	0.002	0.0311	0.06461
SM2011_b21296	0.0042	0.0936	0.04516
SM2011_b21308	0.0039	0.0113	0.34263
SM2011_b21319	0.0055	0.0224	0.24646
SM2011_b21321	0.001	0.0106	0.0972

Continued on next page

Table S6 – continued from previous page

Gene	*dN*	*dS*	ω
SM2011_b21327	0.0062	0.0083	0.74447
SM2011_b21336	0.003	0.0097	0.31061
SM2011_b21346	0.0051	0.02	0.25374
SM2011_b21355	0.0091	0.0168	0.54145
SM2011_b21356	0.0026	0.0418	0.06302
SM2011_b21377	0.0014	0.0169	0.08354
SM2011_b21378	0.0184	0.092	0.20006
SM2011_b21405	0.0049	0	NA
SM2011_b21412	0.0068	0.0318	0.21507
SM2011_b21418	0.0111	0.0434	0.25695
SM2011_b21428	0.0234	0.0722	0.32377
SM2011_b21486	0.005	0.042	0.11855
SM2011_b21497	0.0058	0.0504	0.11466
SM2011_b21508	0.0378	0.2354	0.16077
SM2011_b21512	0.0152	0.0529	0.2874
SM2011_b21513	0.0116	0.0651	0.17884
SM2011_b21514	0.0073	0.0121	0.60085
SM2011_b21517	0.0035	0	NA
SM2011_b21518	0	0.0124	0
SM2011_b21520	0	0.0167	0
SM2011_b21521	0.0045	0.02365	NA
SM2011_b21522	0	0.0465	0
SM2011_b21523	0	0.0183	0
SM2011_b21527	0.0017	0.1105	0.01559
SM2011_b21532	0.0053	0.073	0.07296
SM2011_b21548	0.00695	0.07995	0.087195
SM2011_b21555	0	0.0106	0
SM2011_b21575	0.0161	0.0126	1.28128
SM2011_b21578	0.0038	0.0289	0.13228
SM2011_b21599	0	0.0119	0
SM2011_b21644	0.0073	0.1776	0.04116
SM2011_b21649	0.0095	0.0316	0.29986
SM2011_b21650	0.0093	0.0621	0.15035
SM2011_b21651	0.0068	0	NA
SM2011_b21696	0.0449	0.1044	0.43031
SM2011_b22017	0.0127	0.0714	0.17807