

Supplementary Information

Average dN , dS , ω Values Per Gene

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

| <i>Escherichia coli</i> | | | |
|-------------------------|--------------------|-------------------|--------------------|
| Gene | dN | dS | ω |
| b0031 | 0.007 | 0.2454 | 0.0287 |
| b0049 | 45.3394 | 21.5844 | 2.10056 |
| 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 |
| b0136 | 1.2065 | 12.67533333333333 | 0.09411 |
| b0138 | 1.1404 | 98.8863 | 0.01153 |
| b0141 | 0.8019333333333333 | 66.1995 | 0.0458033333333333 |
| b0145 | 0 | 0.029 | 0 |
| b0147 | 0.0239 | 0.1129 | 0.21218 |
| b0150 | 0.5433 | 5.76 | 0.09432 |
| b0159 | 0 | 0.0875 | 0 |
| b0207 | 0.0347 | 0.1135 | 0.30568 |
| b0222 | 0.0025 | 0.3515 | 0.0071 |
| b0223 | 0.0038 | 0.2536 | 0.015 |
| b0227 | 0.0727 | 0.7358 | 0.09878 |
| b0231 | 0.0098 | 0.3756 | 0.0261 |
| b0289 | 0.0291 | 0.1975 | 0.14753 |
| b0292 | 0.0162 | 0.1513 | 0.10679 |
| b0310 | 0.0543 | 0.1318 | 0.4118 |
| b0329 | 0.0215 | 0.3277 | 0.06566 |
| b0331 | 0.0228 | 0.487 | 0.04674 |
| b0358 | 0.7053 | 5.0446 | 0.30798 |
| b0363 | 4.9109 | 44.4001 | 0.1106 |
| b0364 | 4.3011 | 45.9419 | 0.6264533333333333 |
| 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 | 0.0201 | 0.1903 | 0.10539 |
| b0398 | 0.0107 | 0.135 | 0.07944 |
| b0399 | 0 | 0.1042 | 0 |
| b0403 | 0.0237 | 0.2856 | 0.08294 |
| b0404 | 0.0198 | 0.3861 | 0.05139 |
| b0405 | 0.0066 | 0.3334 | 0.01986 |
| b0406 | 0 | 0.0943 | 0 |
| b0414 | 0.0291 | 0.3433 | 0.08484 |
| b0415 | 0 | 0.0343 | 0 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|---------|--------|----------|
| b0418 | 0.0028 | 0.5183 | 0.00537 |
| b0424 | 0.0053 | 0.3324 | 0.01585 |
| b0426 | 0 | 0.1522 | 0 |
| b0440 | 0 | 0.0231 | 0 |
| b0457 | 0.0138 | 0.0957 | 0.14434 |
| b0458 | 0 | 0.116 | 0 |
| b0459 | 0.0212 | 0.0622 | 0.34107 |
| b0460 | 0 | 0.0623 | 0 |
| b0461 | 0 | 0.0732 | 0 |
| b0469 | 0.0026 | 0.0984 | 0.02681 |
| b0474 | 0.0022 | 0.2549 | 0.00873 |
| b0484 | 19.5319 | 0.0196 | 999 |
| b0512 | 0.0156 | 0.2577 | 0.06055 |
| b0514 | 0.028 | 0.2743 | 0.10194 |
| b0567 | 0.0207 | 0.2221 | 0.09305 |
| b0586 | 0.0391 | 0.3579 | 0.10927 |
| b0600 | 0.0158 | 0.3349 | 0.04725 |
| b0619 | 0.0084 | 0.2073 | 0.04063 |
| 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 | 0.0115 | 0.2533 | 0.04555 |
| 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 |
| b0770 | 3.0942 | 4.0475 | 0.76448 |
| b0796 | 0 | 0.2572 | 0 |
| b0802 | 0.0118 | 0.1627 | 0.07231 |
| b0805 | 0.0099 | 0.2274 | 0.04373 |
| 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 | 0.014 | 0.1915 | 0.07338 |
| b0866 | 0.0091 | 0.4767 | 0.01916 |
| b0867 | 0.0139 | 0.2 | 0.06955 |
| b0870 | 0.0189 | 0.3194 | 0.05918 |
| b0881 | 0 | 0.0168 | 0 |
| b0886 | 0.0122 | 0.1497 | 0.08124 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|-----------|------------|-------------|
| b0890 | 0.0027 | 0.2322 | 0.0117 |
| b0903 | 0.0082 | 0.0921 | 0.08856 |
| b0904 | 0 | 0.1349 | 0 |
| b0912 | 0 | 0.0228 | 0 |
| b0917 | 0 | 0.096 | 0 |
| b0929 | 0.1352 | 0.7089 | 0.19066 |
| b0947 | 0.0174 | 0.1415 | 0.12332 |
| b0955 | 0.0133 | 0.0882 | 0.15033 |
| b0995 | 0.0093 | 0.2002 | 0.04629 |
| b1015 | 0.0046 | 0.2739 | 0.01697 |
| b1019 | 0.0199 | 0.3827 | 0.05188 |
| b1025 | 1.9379875 | 10.0560375 | 125.7545425 |
| 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 | 0.0026 | 0.0549 | 0.0236 |
| 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 | 0.0056 | 0.2834 | 0.01969 |
| 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 | 0.2081 | 0.01625 |
| b1243 | 0.0072 | 0.0954 | 0.07513 |
| b1248 | 0 | 0.097 | 0 |
| b1250 | 0.0022 | 0.1161 | 0.01918 |
| b1263 | 0.0037 | 0.4012 | 0.00915 |
| b1276 | 0.0129 | 0.203 | 0.06364 |
| b1281 | 0.0223 | 0.1844 | 0.12073 |
| b1329 | 0.0072 | 0.1558 | 0.04591 |
| b1336 | 0.06655 | 0.42705 | 0.15441 |
| b1338 | 1.0337 | 1.52125 | 1.045035 |
| 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 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|----------|----------|------------|
| b1469 | 0.0073 | 0.1906 | 0.03852 |
| b1478 | 0.0088 | 0.3071 | 0.02857 |
| b1493 | 0.003 | 0.2115 | 0.01442 |
| b1503 | 12.14402 | 95.35834 | 8.715328 |
| b1504 | 2.1701 | 9.455125 | 250.639765 |
| b1533 | 0.0319 | 0.616 | 0.05179 |
| 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 | 0.199 | 0.09477 |
| b1611 | 0.006 | 0.2348 | 0.02569 |
| 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 |
| 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 |
| b1749 | 0.0175 | 0.3063 | 0.05708 |
| b1750 | 0.0375 | 0.1624 | 0.23092 |
| b1758 | 0.0282 | 0.467 | 0.06033 |
| b1759 | 0.0454 | 0.1275 | 0.3562 |
| b1763 | 0.0093 | 0.3118 | 0.02984 |
| b1772 | 0.0282 | 0.1157 | 0.244 |
| b1781 | 0.0348 | 0.2101 | 0.16566 |
| 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 | 0.0146 | 0.3965 | 0.0369 |
| 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 | 0.0246 | 0.0928 | 0.26535 |
| 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 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|---------|---------|----------|
| b1901 | 0.0111 | 0.2762 | 0.04007 |
| b1912 | 0 | 0.1158 | 0 |
| b1926 | 0.0326 | 0.1737 | 0.18778 |
| b1931 | 54.8447 | 0.829 | 66.15511 |
| 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 | 0.2755 | 0.04945 |
| b2028 | 8.0019 | 1.4169 | 5.64757 |
| b2043 | 0.045 | 0.5487 | 0.08192 |
| 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 |
| b2077 | 0.0161 | 0.3921 | 0.04118 |
| b2078 | 0.0212 | 0.5151 | 0.04125 |
| b2080 | 0.0131 | 0.1739 | 0.0751 |
| b2098 | 0.0077 | 0.1905 | 0.04055 |
| b2104 | 0.0574 | 0.2597 | 0.22118 |
| b2109 | 0.056 | 0.7695 | 0.07273 |
| b2114 | 0.0069 | 0.3741 | 0.01839 |
| b2133 | 0.0154 | 0.2786 | 0.05525 |
| b2164 | 0.0165 | 0.7069 | 0.02329 |
| b2172 | 0.0236 | 0.1893 | 0.12473 |
| b2177 | 0.0168 | 0.1785 | 0.09424 |
| b2196 | 0.0045 | 0.292 | 0.01545 |
| b2198 | 0 | 0.1066 | 0 |
| b2213 | 0.0219 | 0.2515 | 0.08719 |
| b2216 | 0.0054 | 0.0973 | 0.05569 |
| b2229 | 0.0458 | 0.27 | 0.1695 |
| b2233 | NA | NA | NA |
| b2297 | 0.0027 | 0.1252 | 0.02117 |
| b2308 | 0.0042 | 0.2513 | 0.01656 |
| b2324 | 0.0495 | 0.3131 | 0.15796 |
| b2325 | 0.0051 | 0.1712 | 0.02955 |
| b2326 | 0.0212 | 0.3717 | 0.05695 |
| b2327 | 0.0018 | 0.4757 | 0.00385 |
| b2328 | 0.0181 | 0.2014 | 0.08973 |
| b2335 | 16.972 | 16.6605 | 1.0187 |
| b2365 | 11.9721 | 36.0703 | 0.33191 |
| 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 |
| b2412 | 0.0071 | 0.1188 | 0.05983 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|--------|--------|--------------------|
| b2428 | 0.0277 | 0.4859 | 0.05706 |
| b2463 | 0.0025 | 0.2674 | 0.00921 |
| b2467 | 0.0201 | 0.1556 | 0.12886 |
| 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 | 0.1097 | 0.1884 | 0.4204966666666667 |
| b2518 | 0.0034 | 0.1245 | 0.027 |
| b2519 | 0.6066 | 0.0006 | 999 |
| b2544 | 0.0306 | 0.2695 | 0.11339 |
| b2548 | 0.0128 | 0.2643 | 0.04845 |
| b2549 | 0.0322 | 0.2715 | 0.1185 |
| b2573 | 0 | 0.0101 | 0 |
| b2576 | 0.0011 | 0.279 | 0.0038 |
| b2605 | 0.0196 | 0.125 | 0.15696 |
| b2606 | 0 | 0 | 0 |
| b2607 | 0 | 0.0427 | 0 |
| b2608 | 0 | 0.0685 | 0 |
| b2609 | 0 | 0.0001 | 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 |
| 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 |
| b2749 | 0.0438 | 0.41 | 0.10672 |
| b2751 | 0.0062 | 0.2927 | 0.02112 |
| b2764 | 0.0196 | 0.2992 | 0.06549 |
| b2768 | 0.0099 | 0.3627 | 0.0274 |
| b2776 | 0.0226 | 0.4112 | 0.05504 |
| b2777 | 0.0045 | 0.3419 | 0.01312 |
| b2778 | 5.7594 | NA | 10.2138854545455 |
| 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 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|--------|--------|----------|
| b2817 | 0 | 0.1915 | 0 |
| b2818 | 0.0011 | 0.1002 | 0.01105 |
| b2819 | 0.0129 | 0.2951 | 0.04382 |
| 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 |
| b2906 | 0.021 | 0.2147 | 0.09756 |
| b2916 | 0.0017 | 0.2428 | 0.00691 |
| b2928 | 0.1452 | 0.7879 | 0.18423 |
| b2933 | 0.008 | 0.3041 | 0.02644 |
| b2950 | 0.0254 | 0.4302 | 0.05897 |
| b2954 | 0.0309 | 0.1857 | 0.16644 |
| 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 | 0.009 | 0.2857 | 0.03151 |
| 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 |
| b3080 | 0.0224 | 0.3497 | 0.06394 |
| b3086 | 0.0816 | 0.705 | 0.11574 |
| b3087 | 0.0187 | 0.4293 | 0.04358 |
| b3089 | 0.0086 | 0.2154 | 0.03972 |
| b3098 | 0 | 0.1131 | 0 |
| b3106 | 0.0278 | 0.1267 | 0.2192 |
| 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 | 0.0235 | 0.2336 | 0.1008 |
| 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 | 0.1489 | 0.397 | 0.37496 |
| b3224 | 0.0061 | 0.1712 | 0.0354 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|---------|----------|------------|
| b3257 | 0.0205 | 0.1129 | 0.18133 |
| 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 |
| b3335 | 74.0589 | 3.1859 | 23.24595 |
| 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 | 0.0801 | 0.2156 | 0.37148 |
| b3403 | 0.0035 | 0.2494 | 0.01395 |
| b3412 | 0.0322 | 0.3217 | 0.10005 |
| b3415 | 0 | 0.1371 | 0 |
| b3417 | 0.0041 | 0.2052 | 0.01982 |
| b3422 | 0.0516 | 0.5781 | 0.08933 |
| 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 |
| 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 | 0.0569 | 0.7881 | 0.07222 |
| b3543 | 0.0028 | 0.3682 | 0.0075 |
| b3546 | 0.0083 | 0.3005 | 0.02762 |
| b3564 | 0.0202 | 0.2355 | 0.08585 |
| b3574 | 2.4995 | 50.2668 | 0.04973 |
| b3577 | 1.2154 | 66.6637 | 0.01823 |
| b3578 | 1.2437 | 46.73805 | 0.026495 |
| b3579 | 1.29106 | 44.92956 | 199.863222 |
| b3580 | 0.3582 | 55.2181 | 0.00649 |
| b3598 | 0.045 | 0.1632 | 0.27582 |
| b3604 | 0.0113 | 0.2182 | 0.05184 |
| b3605 | 0.0037 | 0.3919 | 0.00943 |
| b3608 | 0.0014 | 0.2425 | 0.00594 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|-------|--------|--------|----------|
| b3624 | 1.3974 | 2.9448 | 0.47454 |
| b3653 | 0.006 | 0.2242 | 0.0267 |
| b3660 | 0.013 | 0.3268 | 0.03986 |
| b3665 | 0.0112 | 0.2319 | 0.04831 |
| b3666 | 0.001 | 0.1834 | 0.00563 |
| b3675 | 0 | 0.0784 | 0 |
| b3676 | 0.0094 | 0.1751 | 0.05388 |
| b3698 | 0.0349 | 0.3047 | 0.11459 |
| b3769 | 0 | 0.0347 | 0 |
| b3771 | 0.013 | 0.502 | 0.02588 |
| b3791 | 0.0077 | 0.1484 | 0.05168 |
| b3792 | 0.0181 | 0.1859 | 0.09746 |
| b3793 | 0.0064 | 0.1818 | 0.03533 |
| b3804 | 0.0146 | 0.0673 | 0.2168 |
| b3850 | 0.0183 | 0.4233 | 0.04312 |
| b3856 | 0.0289 | 0.1701 | 0.16991 |
| b3886 | 0.0017 | 0.2105 | 0.00821 |
| b3912 | 0.0042 | 0.1105 | 0.03831 |
| b3945 | 0.0082 | 0.3868 | 0.0211 |
| b3949 | 0.0057 | 0.2235 | 0.02558 |
| b3953 | 0.0125 | 0.2952 | 0.0425 |
| b3957 | 0.0124 | 0.2369 | 0.05237 |
| b3960 | 0.0126 | 0.306 | 0.04117 |
| b3986 | 0 | 0.0211 | 0 |
| b3987 | 0 | 0.0908 | 0 |
| b3988 | 0.001 | 0.0855 | 0.01163 |
| b4012 | 0.0533 | 0.3225 | 0.16516 |
| b4037 | 0.0049 | 0.1539 | 0.03171 |
| b4055 | 0.0141 | 0.0889 | 0.15903 |
| b4062 | 0 | 0.2412 | 0 |
| b4067 | 0.0026 | 0.3824 | 0.00678 |
| b4073 | 0.0259 | 0.2055 | 0.12585 |
| b4074 | 0.029 | 0.217 | 0.13361 |
| b4075 | 0.0415 | 0.1464 | 0.28326 |
| b4076 | 0.0404 | 0.2042 | 0.19794 |
| 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 |
| 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 | 0.0452 | 0.1478 | 0.30566 |
| b4152 | 0.0079 | 0.063 | 0.12554 |
| b4153 | 0.0018 | 0.0538 | 0.034 |
| b4154 | 0.0064 | 0.0997 | 0.06465 |

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| Gene | dN | dS | ω |
|--------------|-------------------|-------------------|-------------------|
| b4169 | 0.0217 | 0.22395 | 0.125215 |
| 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 | 0.3255 | 0.01639 |
| b4243 | 0 | 0.259 | 0 |
| b4324 | 0.0132 | 0.2552 | 0.05162 |
| b4325 | 13.3326166666667 | 35.2807 | 17.6686916666667 |
| b4326 | 32.8266 | 41.9608 | 0.78232 |
| b4348 | 19.87625 | 47.9041 | 0.27849 |
| b4349 | 2.4597 | 4.8065 | 0.51174 |
| b4350 | 16.3342666666667 | 25.6182666666667 | 2.89682333333333 |
| b4355 | 0.1017 | 0.1735 | 0.58596 |
| b4357 | 0.0723 | 1.8629 | 0.03883 |
| b4359 | 0.0052 | 0.1707 | 0.03055 |
| b4365 | 0.0021 | 0.0622 | 0.03394 |
| b4378 | 0.0558 | 0.4563 | 0.1222 |
| b4460 | 0 | 0.1661 | 0 |
| b4465 | 0.0228 | 0.3502 | 0.06507 |
| b4466 | 17.4237 | 9.87978 | 4.153516 |
| b4475 | 0.056 | 0.4669 | 0.11998 |
| b4480 | 0.0119 | 0.1712 | 0.06979 |
| b4481 | 0.0279 | 0.1737 | 0.1606 |
| ECIAI39_0002 | 0.006 | 0.215 | 0.02806 |
| ECIAI39_0003 | 0.0066 | 0.1655 | 0.03997 |
| ECIAI39_0004 | 0.163033333333333 | 0.383633333333333 | 0.272486666666667 |
| ECIAI39_0005 | 0.0117 | 0.1756 | 0.06665 |
| ECIAI39_0006 | 0.0099 | 0.1967 | 0.05036 |
| ECIAI39_0008 | 0.003 | 0.1193 | 0.02481 |
| ECIAI39_0009 | 0.0071 | 0.1249 | 0.05664 |
| ECIAI39_0010 | 0.0025 | 0.1027 | 0.02386 |
| ECIAI39_0011 | 0.0182 | 0.1836 | 0.09928 |
| ECIAI39_0012 | 0.0228 | 0.1448 | 0.078675 |
| ECIAI39_0013 | 0 | 0.0838 | 0 |
| ECIAI39_0014 | 0.0026 | 0.1564 | 0.0165 |
| ECIAI39_0016 | 0.0115 | 0.313 | 0.03678 |
| ECIAI39_0017 | 0.0254 | 1.0396 | 0.0244 |
| ECIAI39_0018 | 0 | 0.0307 | 0 |
| ECIAI39_0019 | 0 | 0.1961 | 0 |
| ECIAI39_0021 | 0.0081 | 0.21165 | 0.046825 |
| ECIAI39_0022 | 0 | 0.1406 | 0 |
| ECIAI39_0023 | 0.0046 | 0.2932 | 0.01572 |
| ECIAI39_0024 | 0.0278 | 0.4309 | 0.06462 |
| ECIAI39_0026 | 0.0074 | 0.2183 | 0.03382 |
| ECIAI39_0027 | 0.00485 | 0.3337 | 0.01455 |

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| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|----------|
| ECIAI39_0030 | 0.02025 | 0.11955 | 0.16872 |
| ECIAI39_0031 | 0.0077 | 0.1435 | 0.05339 |
| 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 | 0.0027 | 0.1784 | 0.01513 |
| ECIAI39_0041 | 0.00585 | 0.1927 | 0.02864 |
| ECIAI39_0042 | 0.0086 | 0.1597 | 0.0536 |
| ECIAI39_0043 | 0.0051 | 0.06075 | 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 | 0.019 | 0.3311 | 0.05751 |
| ECIAI39_0058 | 0.0121 | 0.3011 | 0.04021 |
| ECIAI39_0062 | 0.014233333333333333 | 0.2683333333333333 | 0.05106 |
| ECIAI39_0063 | 0.0341 | 0.4757 | 0.07145 |
| ECIAI39_0064 | 0.0214 | 0.484 | 0.04429 |
| ECIAI39_0065 | 0.03 | 0.4316 | 0.06951 |
| 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 | 0.05805 | 0.08704 |
| ECIAI39_0078 | 0 | 0.0072 | 0 |
| ECIAI39_0079 | 0.0025 | 0.1241 | 0.02014 |
| 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 | 0.01935 | 0.10915 | 0.168285 |

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| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| ECIAI39_0095 | 0.0091 | 0.0523 | 0.17472 |
| ECIAI39_0096 | 0.0015 | 0.1394 | 0.01047 |
| ECIAI39_0097 | 0.0369 | 0.2118 | 0.17434 |
| ECIAI39_0098 | 0.0319 | 0.193 | 0.16536 |
| ECIAI39_0099 | 0.0166 | 0.1444 | 0.11473 |
| ECIAI39_0100 | 0.0049 | 0.1379 | 0.03586 |
| ECIAI39_0101 | 0.0119666666666667 | 0.2469333333333333 | 0.06528 |
| ECIAI39_0103 | 0 | 0.0726 | 0 |
| ECIAI39_0105 | 0.001 | 0.1647 | 0.00611 |
| ECIAI39_0107 | 0.0078 | 0.1612 | 0.04839 |
| ECIAI39_0109 | 0 | 0.1387 | 0 |
| ECIAI39_0111 | 0.1046 | 0.78445 | 0.132185 |
| ECIAI39_0112 | 0.0447 | 0.1966 | 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 | 0.0628 | 0.2762 | 0.22737 |
| ECIAI39_0121 | 0.0257 | 0.2131 | 0.12049 |
| ECIAI39_0123 | 0.0944333333333333 | 0.4822 | 0.2201366666666667 |
| ECIAI39_0124 | 0.0334 | 0.6572 | 0.05078 |
| ECIAI39_0125 | 0.938 | 5.2855 | 0.17747 |
| ECIAI39_0126 | 3.23902 | 29.18774 | 0.129108 |
| ECIAI39_0127 | 16.23334 | 53.19782 | 4.612478 |
| ECIAI39_0128 | 0.4634 | 10.1657 | 0.04558 |
| ECIAI39_0130 | 0.6335 | 26.12348 | 0.078196 |
| ECIAI39_0131 | 4.749075 | 34.185925 | 0.255395 |
| ECIAI39_0132 | 0.6667 | 31.64766666666667 | 0.0812333333333333 |
| 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_0141 | 0.0267 | 0.2261 | 0.11805 |
| ECIAI39_0143 | 0.0028 | 0.2839 | 0.0098 |
| ECIAI39_0145 | 0.0522 | 0.6393 | 0.08161 |
| ECIAI39_0146 | 0.5083 | 4.4759 | 0.11356 |
| ECIAI39_0147 | 0.06425 | 0.60965 | 0.074295 |
| 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 | 0.0905 | 0.0501733333333333 |
| 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 |

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| Gene | dN | dS | ω |
|--------------|----------|----------|------------|
| 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 |
| ECIAI39_0173 | 0.0026 | 0.0396 | 0.0657 |
| ECIAI39_0176 | 0.0123 | 0.18605 | 0.069435 |
| ECIAI39_0179 | 0.0036 | 0.175 | 0.02044 |
| ECIAI39_0180 | 0.0123 | 0.1321 | 0.09332 |
| ECIAI39_0181 | 0.0064 | 0.2586 | 0.02465 |
| ECIAI39_0182 | 0.0069 | 0.0866 | 0.07941 |
| ECIAI39_0184 | 0.0579 | 0.3755 | 0.15418 |
| ECIAI39_0185 | 0.01775 | 0.1915 | 0.092435 |
| ECIAI39_0186 | 0.08475 | 0.0932 | 499.550395 |
| ECIAI39_0187 | 0.034775 | 0.261775 | 0.12797 |
| 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 | 0.006 | 0.2991 | 0.02008 |
| ECIAI39_0204 | 0.0098 | 0.1848 | 0.05285 |
| ECIAI39_0206 | 0.0283 | 0.2267 | 0.12474 |
| 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 | 0.0074 | 0.2762 | 0.022345 |
| 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 | 0.1592 | 0.03496 |
| 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 | 0.0793 | 0.11122 |

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| Gene | dN | dS | ω |
|--------------|---------------------|-------------------|--------------------|
| ECIAI39_0288 | 0.0368 | 0.2269 | 0.16229 |
| ECIAI39_0289 | 0.0683 | 0.1593 | 0.42881 |
| ECIAI39_0291 | 0.0266 | 0.4599 | 0.05787 |
| ECIAI39_0294 | 0.0212 | 0.3397 | 0.06234 |
| ECIAI39_0295 | 0.0266 | 0.3008 | 0.08834 |
| ECIAI39_0297 | 0.0014 | 0.2211 | 0.00624 |
| ECIAI39_0300 | 0.0782 | 0.5711 | 0.13691 |
| ECIAI39_0301 | 0.0183 | 0.39535 | 0.04555 |
| ECIAI39_0303 | 0.0769 | 0.3228 | 0.23833 |
| ECIAI39_0304 | 0.0397 | 0.3744 | 0.10596 |
| ECIAI39_0305 | 0.0539 | 0.2059 | 0.26171 |
| 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 | 0.032 | 0.2959 | 0.10823 |
| 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 | 0.05019 |
| ECIAI39_0330 | 0.0515 | 0.2428 | 0.21209 |
| ECIAI39_0331 | 0.0049 | 0.1062 | 0.04651 |
| ECIAI39_0333 | 0.038 | 0.2305 | 0.16502 |
| ECIAI39_0334 | 0.0217 | 0.1627 | 0.13316 |
| ECIAI39_0343 | 0.0225 | 0.2536 | 0.08867 |
| ECIAI39_0344 | 0.0576 | 0.2254 | 0.25535 |
| ECIAI39_0345 | 2.23962857142857 | 25.7397 | 4.82436142857143 |
| ECIAI39_0346 | 0.95738 | 0.69894 | 400.110256 |
| ECIAI39_0347 | 2.97943333333333 | 16.2474 | 2.07353666666667 |
| ECIAI39_0348 | 7.06176 | 19.24522 | 200.859049 |
| ECIAI39_0349 | 1.04476 | 3.82876 | 0.363592 |
| ECIAI39_0351 | 0.0318 | 0.3512 | 0.09061 |
| ECIAI39_0354 | 0.0239 | 0.5173 | 0.04618 |
| 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 | 0.0161 | 0.1167 | 0.13816 |
| 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 | 0.0371 | 0.1787 | 0.20766 |
| ECIAI39_0381 | 0.0057 | 0.1232 | 0.04601 |
| ECIAI39_0384 | 0.0035 | 0.1317 | 0.02631 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------|---------|----------|
| 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 |
| 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 | 0.2465 | 0.06587 |
| ECIAI39_0409 | 0.0031 | 0.1802 | 0.01746 |
| ECIAI39_0410 | 0.0134 | 0.14655 | 0.080325 |
| 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 | 0.06195 | 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 | 0.0185 | 0.2755 | 0.0673 |
| 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 | NA | NA | NA |
| 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 | 0.025 | 0.1321 | 0.18945 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|-------------------|-----------|
| ECIAI39_0466 | 0 | 0.2074 | 0 |
| ECIAI39_0478 | 1.41335 | 33.1057 | 0.0968375 |
| ECIAI39_0479 | 3.760325 | 19.1631875 | 1.8664975 |
| ECIAI39_0481 | 0.0341 | 0.4108 | 0.08313 |
| ECIAI39_0482 | 0.0015 | 0.2811 | 0.00545 |
| 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_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 | 0.0256 | 0.2186 | 0.11692 |
| ECIAI39_0525 | 0.0177666666666667 | 0.238866666666667 | 0.07619 |
| ECIAI39_0527 | 0.0253 | 0.2972 | 0.08521 |
| ECIAI39_0528 | 0 | 0.1911 | 0 |
| ECIAI39_0530 | 0.0131 | 0.21406 | 0.05927 |
| ECIAI39_0531 | 0.0053 | 0.196 | 0.02719 |
| ECIAI39_0559 | 0.0157 | 0.1246 | 0.1263 |
| ECIAI39_0563 | 0.0199 | 0.3069 | 0.068605 |
| ECIAI39_0564 | 0.01335 | 0.1923 | 0.069795 |
| ECIAI39_0566 | 0.006 | 0.2393 | 0.02501 |
| ECIAI39_0568 | 0.0064 | 0.2121 | 0.03027 |
| ECIAI39_0569 | 0.0046 | 0.1512 | 0.03056 |
| ECIAI39_0570 | 0.0128 | 0.1962 | 0.06518 |
| ECIAI39_0571 | 0.0258666666666667 | 0.183066666666667 | 0.17123 |
| ECIAI39_0575 | 0.062 | 0.4374 | 0.130605 |
| ECIAI39_0577 | 0 | 0.0478 | 0 |
| ECIAI39_0578 | 0.0459 | 0.1932 | 0.23754 |
| ECIAI39_0583 | 0.0569 | 0.3282 | 0.17325 |
| ECIAI39_0584 | 0.01795 | 0.3644 | 0.04935 |
| ECIAI39_0586 | 0.0077 | 0.3386 | 0.02269 |
| 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 | 0.0134 | 0.3481 | 0.03858 |
| ECIAI39_0592 | 0.0088 | 0.1627 | 0.0541 |
| ECIAI39_0594 | 0.0094 | 0.30995 | 0.03055 |
| ECIAI39_0595 | 0.0053 | 0.4063 | 0.01305 |
| ECIAI39_0597 | 0.0246 | 0.3863 | 0.0636 |
| ECIAI39_0598 | 0.0138 | 0.1753 | 0.07844 |
| ECIAI39_0600 | 0.0176 | 0.3495 | 0.05046 |
| ECIAI39_0602 | 0.0757 | 1.5476 | 0.04893 |
| ECIAI39_0603 | 0.0094 | 0.2645 | 0.03536 |
| ECIAI39_0604 | 0 | 0.0338 | 0 |
| ECIAI39_0606 | 0.0009 | 0.2115 | 0.00424 |
| ECIAI39_0607 | 0.014 | 0.4837 | 0.02897 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| ECIAI39_0609 | 0 | 0.0001 | 0 |
| ECIAI39_0610 | 0.00815 | 0.13 | 0.06624 |
| ECIAI39_0612 | 0.0213 | 0.1764 | 0.12097 |
| ECIAI39_0613 | 0.0119 | 0.0666 | 0.17952 |
| ECIAI39_0615 | 0.0075 | 0.1662 | 0.04526 |
| ECIAI39_0616 | 0.0064 | 0.1559 | 0.0413 |
| ECIAI39_0617 | 0.0042 | 0.0634 | 0.047925 |
| 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 | 0.036 | 0.27725 | 0.117145 |
| 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_0651 | 4.5913 | 115.2978 | 0.03982 |
| ECIAI39_0654 | 0.0050666666666667 | 0.1295333333333333 | 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 | 0.013 | 0.2302 | 0.05638 |
| 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 | 0.01595 | 0.3432 | 0.04364 |
| ECIAI39_0684 | 0.0439 | 0.2213 | 0.19833 |
| ECIAI39_0686 | 0.0107 | 0.3109 | 0.03434 |
| ECIAI39_0687 | 0.0296 | 0.2729 | 0.10841 |
| ECIAI39_0688 | 0.0274 | 0.1547 | 0.17739 |
| ECIAI39_0697 | 0.0645 | 0.47575 | 0.13575 |
| ECIAI39_0700 | 0.002 | 0.1203 | 0.01636 |
| ECIAI39_0701 | 0.0132 | 0.2354 | 0.055725 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-------------------|-------------------|-------------------|
| ECIAI39_0702 | 0.0627 | 0.1803 | 0.34761 |
| ECIAI39_0703 | 0.02575 | 0.3688 | 0.08566 |
| ECIAI39_0704 | 23.05066666666667 | 13.77893333333333 | 22.01766333333333 |
| ECIAI39_0710 | 0.0096 | 0.2832 | 0.03402 |
| 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 | 0.0053 | 0.0756 | 0.07035 |
| ECIAI39_0732 | 0 | 0.03 | 0 |
| ECIAI39_0733 | 0.001 | 0.09845 | 0.006225 |
| ECIAI39_0734 | 0.00485 | 0.0703 | 0.03464 |
| ECIAI39_0735 | 0 | 0.1519 | 0 |
| ECIAI39_0736 | 0.0027 | 0.0517 | 0.05175 |
| ECIAI39_0738 | 0.0107 | 0.0566 | 0.18917 |
| ECIAI39_0740 | 0.0178 | 0.13515 | 0.132465 |
| 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 | 0.019 | 0.2184 | 0.08718 |
| ECIAI39_0752 | 0 | 0.1391 | 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_0758 | 2.6389 | 0.4211 | 501.578865 |
| ECIAI39_0759 | 2.01655 | 74.7461 | 0.02671 |
| ECIAI39_0761 | 0.7892 | 51.3622 | 0.01536 |
| ECIAI39_0762 | NA | NA | NA |
| ECIAI39_0764 | 0.0111 | 0.2803 | 0.03956 |
| 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 | 0.0527 | 0.3145 | 0.16751 |
| ECIAI39_0771 | 0.0363 | 0.28585 | 0.126745 |
| 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 | 0.14195 | 0.484 | 0.24141 |

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| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|--------------------|
| ECIAI39_0778 | 0.0414 | 0.27505 | 0.15184 |
| ECIAI39_0780 | 0.0012 | 0.2636 | 0.00439 |
| ECIAI39_0782 | 0.001633333333333333 | 0.1556666666666667 | 0.0105666666666667 |
| ECIAI39_0784 | 0 | 0.2973 | 0 |
| ECIAI39_0786 | 0.00605 | 0.29025 | 0.01976 |
| ECIAI39_0788 | 0.0037 | 0.298 | 0.01245 |
| ECIAI39_0789 | 0.0338 | 4.35965 | 0.077555 |
| ECIAI39_0791 | 0.0046 | 0.3306 | 0.01403 |
| ECIAI39_0793 | 0.02025 | 0.2005 | 0.10097 |
| ECIAI39_0795 | 0.0264 | 0.1903333333333333 | 0.1516133333333333 |
| ECIAI39_0797 | 0.0172 | 0.0633 | 0.27195 |
| ECIAI39_0798 | 0.0194 | 0.223 | 0.08716 |
| 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 | 0.0554 | 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 | 0.01575 | 0.23695 | 0.05154 |
| ECIAI39_0809 | 0 | 0.2351 | 0 |
| ECIAI39_0810 | 0.0226 | 0.1772 | 0.12764 |
| ECIAI39_0811 | 0.0053 | 0.3886 | 0.01354 |
| ECIAI39_0814 | 0.0287 | 0.2074 | 0.13851 |
| ECIAI39_0815 | 0.0237 | 0.2368 | 0.10002 |
| ECIAI39_0816 | 0.0253 | 0.4364 | 0.05795 |
| ECIAI39_0817 | 0.0261 | 0.2241 | 0.1166 |
| 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 | 0.0098 | 0.1155 | 0.08476 |
| 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 | 0.018725 | 0.065025 | 0.4030125 |
| ECIAI39_0848 | 0 | 0.0844 | 0 |
| ECIAI39_0849 | 0.0051 | 0.5129 | 0.00995 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|---------------------|--------------------|
| ECIAI39_0850 | 0.07735 | 0.2775 | 0.34325 |
| ECIAI39_0851 | 0.0081 | 0.3351 | 0.02432 |
| ECIAI39_0852 | 0.010933333333333333 | 0.271 | 0.03074 |
| 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_0863 | 0.017 | 0.31455 | 0.065475 |
| 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 | 0.2263 | 0.00783 |
| ECIAI39_0870 | 0.0088 | 0.1336 | 0.06601 |
| ECIAI39_0872 | 0.01 | 0.1183 | 0.08472 |
| ECIAI39_0873 | 0.009 | 0.1556 | 0.0578 |
| ECIAI39_0874 | 0 | 0.0138 | 0 |
| ECIAI39_0876 | 0 | 0.193 | 0 |
| ECIAI39_0878 | 0 | 0.0001 | 0 |
| ECIAI39_0879 | 0.0081 | 0.1919 | 0.04207 |
| ECIAI39_0881 | 0.0062 | 0.18295 | 0.0371 |
| ECIAI39_0882 | 0 | 0.0522 | 0 |
| ECIAI39_0883 | 0.02065 | 0.1669 | 0.12329 |
| ECIAI39_0885 | 0.1711 | 0.6225 | 0.27486 |
| 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 | 0.009733333333333333 | 0.20263333333333333 | 0.04643 |
| ECIAI39_0894 | 0.0124 | 0.1667 | 0.07446 |
| ECIAI39_0896 | 0 | 0.1225 | 0 |
| ECIAI39_0900 | 0.0067 | 0.2637 | 0.02534 |
| ECIAI39_0901 | 0.0126 | 0.3106666666666667 | 0.0396366666666667 |
| ECIAI39_0902 | 0.0102 | 0.21465 | 0.03085 |
| ECIAI39_0903 | 0 | 0.0246 | 0 |
| ECIAI39_0908 | 0.02645 | 0.1879 | 0.135685 |
| 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 | 0.0045 | 0.1815 | 0.02466 |
| ECIAI39_0916 | 0.0018 | 0.0919 | 0.01983 |
| ECIAI39_0917 | 0.0047 | 0.1522 | 0.03094 |
| ECIAI39_0918 | 0.0063 | 0.1829 | 0.03433 |
| ECIAI39_0920 | 0.0049 | 0.27 | 0.01797 |
| ECIAI39_0925 | 0.0118 | 0.1136 | 0.10399 |
| ECIAI39_0926 | 0.0059 | 0.10905 | 0.06214 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|--------------------|--------------------|
| ECIAI39_0927 | 0.006 | 0.1186 | 0.05062 |
| ECIAI39_0928 | 0 | 0.0794 | 0 |
| ECIAI39_0929 | 0.0181 | 0.3818 | 0.04749 |
| 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 | 0.023 | 0.361875 | 0.061445 |
| ECIAI39_0939 | 0.038 | 0.5186 | 0.07336 |
| ECIAI39_0943 | 0.0028 | 0.1697 | 0.01632 |
| ECIAI39_0944 | 0.0077 | 0.2654 | 0.02907 |
| 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 | 0.0071 | 0.0888 | 0.08031 |
| ECIAI39_0955 | 0.0248 | 0.1100333333333333 | 0.2252366666666667 |
| ECIAI39_0957 | 0.0041 | 0.1504 | 0.02744 |
| 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 | 0.02115 | 0.2341 | 0.084705 |
| 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 | 0.0255 | 0.3287 | 0.06354 |
| ECIAI39_0970 | 0.021 | 0.17345 | 0.127015 |
| ECIAI39_0971 | 0.0055 | 0.108 | 0.05129 |
| ECIAI39_0972 | 0.0067 | 0.1931 | 0.03463 |
| ECIAI39_0973 | 0.04585 | 0.169 | 0.273635 |
| ECIAI39_0983 | 0 | 0.0962 | 0 |
| ECIAI39_0984 | 0 | 0.12 | 0 |
| ECIAI39_0985 | 0.039 | 0.1364 | 0.28555 |
| ECIAI39_0988 | 0.0447 | 0.249 | 0.17941 |
| ECIAI39_0989 | 0.0226 | 0.1948 | 0.11592 |
| ECIAI39_0990 | 0.0087 | 0.1725 | 0.05034 |
| 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 |
| ECIAI39_1001 | 0.0155 | 0.2375 | 0.06545 |
| ECIAI39_1002 | 0.02185 | 0.2663 | 0.083265 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|--------------------|--------------------|
| ECIAI39_1003 | 0.02195 | 0.12955 | 0.179865 |
| ECIAI39_1004 | 0.0253 | 0.1942 | 0.13036 |
| 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_1022 | 0.0037 | 0.0753 | 0.04852 |
| ECIAI39_1029 | 20.8356 | 6.7414 | 3.09067 |
| 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 | 0.1298666666666667 | 0.0234166666666667 |
| ECIAI39_1042 | 0.00985 | 0.0484 | 0.21219 |
| ECIAI39_1043 | 0.0236 | 0.39505 | 0.156065 |
| 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 | 0.0026 | 0.0856 | 0.015145 |
| 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 | 0.05212 |
| 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 | 0.03015 | 0.25075 | 0.1124575 |
| ECIAI39_1071 | 0.00105 | 0.1436 | 0.007525 |
| ECIAI39_1073 | 0.0106 | 0.1566 | 0.06751 |
| ECIAI39_1074 | 0.00985714285714286 | 0.1229 | 0.0597542857142857 |
| ECIAI39_1075 | 0.00627142857142857 | 0.0663428571428571 | 0.0971628571428571 |
| ECIAI39_1076 | 0.0086 | 0.1551 | 0.05542 |
| ECIAI39_1077 | 0.0109 | 0.18665 | 0.069995 |
| ECIAI39_1078 | 0 | 0.0509 | 0 |
| ECIAI39_1081 | 0.01295 | 0.07665 | 0.56286 |
| ECIAI39_1082 | 0.0272 | 0.0379 | 0.71725 |
| 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 |
| ECIAI39_1089 | 0.0057 | 0.1354 | 0.050555 |
| ECIAI39_1091 | 0.0067 | 0.2387 | 0.02825 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|--------------------|----------|
| ECIAI39_1095 | 0.0393 | 0.2655 | 0.14811 |
| 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 | 0.25325 | 0.038525 |
| ECIAI39_1105 | 0.0065 | 0.323 | 0.02022 |
| ECIAI39_1106 | 0.0019 | 0.2468 | 0.00762 |
| ECIAI39_1107 | 0.0019 | 0.1807 | 0.01044 |
| 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 | 0.02233333333333333 | 0.2356666666666667 | 0.07867 |
| 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 | 0.192905 |
| 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 | 0.0163 | 0.181 | 0.09028 |
| 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 | 0.0237 | 0.1962 | 0.12066 |
| ECIAI39_1177 | 0.02065 | 0.09085 | 0.221115 |
| ECIAI39_1178 | 0.0111 | 0.098 | 0.11331 |
| ECIAI39_1179 | 0.0125 | 0.0419 | 0.29846 |
| ECIAI39_1187 | 0.0013 | 0.1561 | 0.00828 |
| ECIAI39_1188 | 0.0026 | 0.0926 | 0.02856 |
| ECIAI39_1189 | 0 | 0.0591 | 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 |
| ECIAI39_1201 | 0.0114 | 0.18235 | 0.087195 |
| ECIAI39_1203 | 0.008 | 0.1179 | 0.06753 |
| ECIAI39_1204 | 0.01 | 0.1488 | 0.06697 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------|--------------------|--------------------|
| ECIAI39_1205 | 0.00355 | 0.1175 | 0.031635 |
| ECIAI39_1214 | 0.0037 | 0.2594 | 0.01423 |
| ECIAI39_1216 | 0.0072 | 0.2517333333333333 | 0.0263 |
| 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 | 0.006475 | 0.117125 | 0.0526575 |
| ECIAI39_1246 | 0.0051 | 0.1388 | 0.03698 |
| ECIAI39_1247 | 0.006 | 0.0848 | 0.07026 |
| ECIAI39_1248 | 0.0127 | 0.1746333333333333 | 0.1003633333333333 |
| ECIAI39_1249 | 0.0278 | 0.332 | 0.08386 |
| ECIAI39_1250 | 0.0046 | 0.3498 | 0.01323 |
| ECIAI39_1252 | 0.036 | 0.1913 | 0.1883 |
| ECIAI39_1254 | 0.0237 | 0.2868 | 0.08251 |
| ECIAI39_1255 | 0.0137 | 0.1341 | 0.10244 |
| ECIAI39_1257 | 0 | 0.27 | 0 |
| ECIAI39_1262 | 0.0093 | 0.287 | 0.0186566666666667 |
| 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 | 0.01725 | 0.1775 | 0.117055 |
| 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 | 0.0574 | 0.1385 | 0.41465 |
| 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 |
| ECIAI39_1290 | 0.007 | 0.1957 | 0.0357 |
| ECIAI39_1292 | 0.0166 | 0.0687 | 0.24096 |
| ECIAI39_1300 | 0.0766 | 0.1495 | 499.51968 |
| ECIAI39_1302 | 0.0124 | 0.173 | 0.07163 |

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| Gene | dN | dS | ω |
|--------------|------------------|--------------------|--------------------|
| 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 | 0.1549333333333333 | 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_1337 | 23.1843 | 50.6358 | 0.45786 |
| ECIAI39_1339 | 8.064425 | NA | 1.450135 |
| ECIAI39_1340 | 19.5703571428571 | 1.72181428571429 | 155.318178571429 |
| 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 | 0.0182 | 0.2463 | 0.07386 |
| ECIAI39_1377 | 0.16945 | 1.8683 | 0.084225 |
| ECIAI39_1403 | 0.04775 | 0.37625 | 0.118815 |
| ECIAI39_1404 | 0.0803 | 0.2326 | 0.34545 |
| ECIAI39_1405 | 0.03 | 0.3878 | 0.07724 |
| 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 | 0.0401 | 0.7491 | 0.05353 |
| ECIAI39_1457 | 0.0282 | 0.1798 | 0.15701 |
| ECIAI39_1459 | 0.0541 | 0.3329 | 0.16263 |
| ECIAI39_1460 | 0.0793 | 1.1477 | 0.06913 |
| ECIAI39_1461 | 0.0235 | 0.2455 | 0.09591 |
| ECIAI39_1462 | 0.0053 | 0.4557 | 0.01159 |
| ECIAI39_1464 | 0.0142 | 0.3271 | 0.04329 |
| ECIAI39_1470 | 0.0092 | 0.2128 | 0.04337 |
| ECIAI39_1472 | 0.0062 | 0.0734 | 0.08471 |
| 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 | 0.0382 | 0.08325 | 0.378715 |
| 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 |
| ECIAI39_1514 | 0.0175 | 0.12 | 0.14603 |
| ECIAI39_1515 | 0.0864 | 0.2142 | 0.40351 |
| ECIAI39_1517 | 0.0091 | 0.1908 | 0.04791 |

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| Gene | dN | dS | ω |
|--------------|---------|--------------------|--------------------|
| ECIAI39_1519 | 0.0262 | 0.2232 | 0.11759 |
| ECIAI39_1537 | 0.0618 | 0.2564 | 0.24099 |
| ECIAI39_1539 | 0.0084 | 0.2147 | 0.03916 |
| ECIAI39_1540 | 0.007 | 0.2268 | 0.03073 |
| ECIAI39_1542 | 0.019 | 0.2016 | 0.087 |
| 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 | 0.0527 | 0.1802 | 0.209175 |
| ECIAI39_1554 | 0.0464 | 0.3621 | 0.12821 |
| ECIAI39_1556 | 0.0284 | 0.3328 | 0.08527 |
| ECIAI39_1559 | 0.0152 | 0.1906 | 0.07969 |
| 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_1590 | 0.0212 | 0.2379 | 0.08894 |
| ECIAI39_1591 | 0.0085 | 0.169 | 0.05054 |
| ECIAI39_1592 | 0 | 0.0001 | 0 |
| 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 | 0.0854 |
| ECIAI39_1617 | 0.0105 | 0.2115 | 0.050165 |
| ECIAI39_1619 | 0.0162 | 0.1943 | 0.08319 |
| ECIAI39_1621 | 0.01515 | 0.0803 | 0.43954 |
| ECIAI39_1622 | 0.0152 | 0.1314 | 0.11595 |
| ECIAI39_1625 | 0.0038 | 0.1521 | 0.02476 |
| ECIAI39_1627 | 0.0062 | 0.1750333333333333 | 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 |
| ECIAI39_1632 | 0.0086 | 0.1274 | 0.06788 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|---------------------|--------------------|
| ECIAI39_1633 | 0.0069 | 0.1817 | 0.03817 |
| ECIAI39_1635 | 0 | 0.0617 | 0 |
| ECIAI39_1636 | 0.00245 | 0.11635 | 0.020885 |
| ECIAI39_1638 | 0.035275 | 0.141525 | 0.22659 |
| ECIAI39_1639 | 0.0101 | 0.11125 | 0.103245 |
| 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 | 0.19327 |
| ECIAI39_1653 | 0.00505 | 0.1638 | 0.030495 |
| ECIAI39_1654 | 0.0414 | 0.08945 | 0.6657 |
| 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 | 0.0243 | 0.171 | 0.14231 |
| ECIAI39_1675 | 0.0181 | 0.1219 | 0.14851 |
| ECIAI39_1676 | 0.0341 | 0.0988 | 0.34526 |
| ECIAI39_1677 | 0.0349 | 0.1206 | 0.28933 |
| ECIAI39_1679 | 0.0093 | 0.2037 | 0.04561 |
| ECIAI39_1680 | 0.0067 | 0.1375 | 0.04844 |
| ECIAI39_1682 | 0.001 | 0.0724 | 0.01398 |
| ECIAI39_1685 | 0.0119 | 0.1592 | 0.07501 |
| ECIAI39_1688 | 0.0196 | 0.18505 | 0.09995 |
| 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 | 0.012133333333333333 | 0.1518666666666667 | 0.08679 |
| 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 |
| ECIAI39_1706 | 0.021333333333333333 | 0.24583333333333333 | 0.0855966666666667 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|-------------------|-------------------|
| ECIAI39_1709 | 0.0136 | 0.1476 | 0.122508 |
| ECIAI39_1710 | 0.0287 | 0.1521 | 0.18879 |
| ECIAI39_1711 | 0.0116666666666667 | 0.133933333333333 | 0.087323333333333 |
| ECIAI39_1712 | 0.019 | 0.1087 | 0.17439 |
| ECIAI39_1713 | 0 | 0.0001 | 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 | 0.0337 | 0.1726 | 0.19529 |
| ECIAI39_1730 | 0.064533333333333 | 0.518166666666667 | 0.143843333333333 |
| ECIAI39_1731 | 0.0096 | 0.14655 | 0.06174 |
| 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 | 0.0189 | 0.172475 | 0.1252625 |
| ECIAI39_1739 | 0.046 | 0.3455 | 0.13304 |
| ECIAI39_1742 | 0.0085 | 0.2232 | 0.03812 |
| ECIAI39_1743 | 0.0313 | 0.2794 | 0.11216 |
| ECIAI39_1747 | 0.0199 | 0.20445 | 0.119665 |
| ECIAI39_1748 | 0.0214 | 0.2256 | 0.09484 |
| ECIAI39_1749 | 0.031 | 0.2429 | 0.12777 |
| ECIAI39_1750 | 0.0511 | 0.2363 | 0.21637 |
| ECIAI39_1751 | 0.0823 | 0.4955 | 0.16603 |
| ECIAI39_1752 | 0.0172 | 0.2283 | 0.07546 |
| ECIAI39_1755 | 0.0064 | 0.2298 | 0.02795 |
| ECIAI39_1756 | 0.3107 | 2.444 | 0.12711 |
| ECIAI39_1757 | 0.0046 | 0.2205 | 0.02077 |
| 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 | 0.009233333333333 | 0.1009 | 0.105076666666667 |
| ECIAI39_1767 | 0.0276 | 0.1848 | 0.14926 |
| ECIAI39_1768 | 0.0037 | 0.0605 | 0.06185 |
| ECIAI39_1780 | 0.0045 | 0.115 | 0.03921 |
| ECIAI39_1782 | 0.00575 | 0.21755 | 0.063285 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| ECIAI39_1783 | 0.0143 | 0.1337 | 0.09789 |
| 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 | 0.0313 | 0.1796 | 0.17451 |
| ECIAI39_1804 | 0 | 0.1153 | 0 |
| ECIAI39_1807 | 0.0416 | 0.1963 | 0.21198 |
| ECIAI39_1809 | 0.0079 | 0.1977 | 0.04014 |
| ECIAI39_1812 | 0.0032 | 0.1907 | 0.01678 |
| ECIAI39_1814 | 0.0149 | 0.1046 | 0.14226 |
| ECIAI39_1818 | 0 | 0.0628 | 0 |
| ECIAI39_1820 | 0 | 0.1113 | 0 |
| ECIAI39_1823 | 0.01805 | 0.1136 | 0.15475 |
| ECIAI39_1824 | 0 | 0 | 0 |
| ECIAI39_1825 | 0.0096 | 0.1576 | 0.06103 |
| 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 | 0.0061 | 0.2649 | 0.02322 |
| ECIAI39_1839 | 0.0359 | 0.2935 | 0.12225 |
| 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 | 0.0229 | 0.1691 | 0.1354 |
| ECIAI39_1850 | 0 | 0.0521 | 0 |
| ECIAI39_1853 | 0.0018 | 0.1128 | 0.016485 |
| ECIAI39_1855 | 0.0034666666666667 | 0.1325333333333333 | 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 | 0.0049666666666667 | 0.2217 | 0.0177733333333333 |
| ECIAI39_1862 | 0.0205 | 0.2755 | 0.07438 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|--------------------|
| 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 | 0.0115 | 0.27395 | 0.0626 |
| ECIAI39_1871 | 0.0065 | 0.1293 | 0.04891 |
| ECIAI39_1873 | 0.013 | 0.4919 | 0.02647 |
| ECIAI39_1874 | 0.016 | 0.333 | 0.04818 |
| ECIAI39_1877 | 0.0333 | 0.0773 | 0.43056 |
| ECIAI39_1880 | 0.0048 | 0.1711 | 0.02833 |
| ECIAI39_1881 | 0.0425 | 0.3349 | 0.12688 |
| ECIAI39_1882 | 0.0042 | 0.2093 | 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 | 0.1509666666666667 | 0.0644466666666667 |
| ECIAI39_1906 | 0.0028 | 0.1233 | 0.02256 |
| 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 | 0.002 | 0.2901 | 0.00703 |
| ECIAI39_1924 | 0.012 | 0.0987 | 0.12151 |
| ECIAI39_1925 | 0.0069 | 0.2498 | 0.02765 |
| ECIAI39_1926 | 0.012733333333333333 | 0.1363666666666667 | 0.08148 |
| ECIAI39_1928 | NA | NA | NA |
| ECIAI39_1929 | 37.809975 | 42.842475 | 11.0135925 |
| ECIAI39_1930 | 0.1267 | 1.3466 | 0.09406 |
| ECIAI39_1931 | 0.1437 | 2.1245 | 0.06765 |
| ECIAI39_1932 | 0.1529 | 2.2307 | 0.06854 |
| ECIAI39_1934 | 0.1676 | 4.7174 | 0.03553 |
| ECIAI39_1935 | 0.0062 | 7.5097 | 0.03901 |
| ECIAI39_1936 | 0.0064 | 0.3842 | 0.01672 |
| ECIAI39_1937 | 0.00645 | 0.19625 | 0.03571 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|------------------|------------------|------------------|
| ECIAI39_1938 | 0 | 0.2108 | 0 |
| ECIAI39_1939 | 0.0171 | 0.1533 | 0.11162 |
| ECIAI39_1940 | 7.7901 | 14.77205 | 0.387205 |
| 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_1958 | 0.0106 | 0.1835 | 0.05792 |
| ECIAI39_1960 | 0.0063 | 0.0439 | 0.1441 |
| ECIAI39_1961 | 0 | 0.04245 | 0 |
| ECIAI39_1962 | 0.0288 | 0.1472 | 0.19601 |
| ECIAI39_1964 | 0.0157 | 0.1706 | 0.09202 |
| ECIAI39_1965 | 0.0105 | 0.1248 | 0.1052625 |
| ECIAI39_1966 | 0.015 | 0.2082 | 0.07195 |
| ECIAI39_1968 | 0.0109 | 0.1915 | 0.05676 |
| ECIAI39_1969 | 0.0397 | 0.1468 | 0.27024 |
| ECIAI39_1971 | 0.0105 | 0.1845 | 0.05707 |
| 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_1990 | 0.1073 | 0.0743 | 1.44421 |
| ECIAI39_1991 | 0.081 | 0.2627 | 0.30816 |
| ECIAI39_1995 | 0.1243 | 0.1509 | 0.82369 |
| 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 | 0.0237 | 0.2462 | 0.0964 |
| ECIAI39_2013 | 0.0433 | 0.1576 | 0.27486 |
| ECIAI39_2015 | 0.019 | 0.10665 | 0.201775 |
| ECIAI39_2029 | 12.8734285714286 | 23.6539357142857 | 215.008766428571 |
| ECIAI39_2032 | 0.00325 | 0.0956 | 0.02657 |
| ECIAI39_2033 | 0.0102 | 0.1336 | 0.07643 |
| ECIAI39_2034 | 0.0059 | 0.123 | 0.04835 |
| ECIAI39_2036 | 0.0163 | 0.1676 | 0.0973 |
| ECIAI39_2040 | 0.0011 | 0.1664 | 0.0064 |
| ECIAI39_2041 | 0.0077 | 0.2336 | 0.03282 |
| ECIAI39_2042 | 0.0036 | 0.1433 | 0.02484 |

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| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|---------------------|
| ECIAI39_2044 | 0.0098 | 0.2298 | 0.04251 |
| ECIAI39_2045 | 0.0285 | 0.3961 | 0.07188 |
| ECIAI39_2046 | 0.012825 | 0.343625 | 0.0410425 |
| ECIAI39_2047 | 0.0266 | 0.5967 | 0.04466 |
| ECIAI39_2048 | 0.0644 | 0.7181 | 0.08973 |
| ECIAI39_2049 | 0.1318 | 2.0591 | 0.06402 |
| ECIAI39_2050 | 0.0143 | 0.6319 | 0.02269 |
| ECIAI39_2051 | 0.0869 | 14.616 | 0.011955 |
| ECIAI39_2066 | 0.0048 | 0.6096 | 0.00792 |
| ECIAI39_2069 | 0.0218 | 0.5069 | 0.04295 |
| ECIAI39_2070 | 0.0179 | 0.438 | 0.04096 |
| ECIAI39_2073 | 0.0132 | 0.4 | 0.03291 |
| ECIAI39_2075 | 0.0059 | 0.3594 | 0.01652 |
| ECIAI39_2076 | 0.011433333333333333 | 0.2651666666666667 | 0.04686333333333333 |
| ECIAI39_2078 | 0.0594 | 0.1439 | 0.41255 |
| ECIAI39_2079 | 0.0214 | 0.4368 | 0.0489 |
| ECIAI39_2080 | 0.0121 | 0.2304 | 0.065405 |
| ECIAI39_2081 | 0.0261 | 0.3694 | 0.07053 |
| ECIAI39_2084 | 0.0172 | 0.3698 | 0.04652 |
| 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 | 0.0475 | 0.2532 | 0.18745 |
| ECIAI39_2109 | 0.0466 | 0.3142 | 0.14822 |
| ECIAI39_2111 | 0.0547 | 0.44555 | 0.11932 |
| ECIAI39_2114 | 0.0189 | 0.3137 | 0.06027 |
| ECIAI39_2115 | 0.0072 | 0.4081 | 0.01765 |
| ECIAI39_2117 | 0.0106 | 0.4545 | 0.02326 |
| ECIAI39_2123 | 0.0087 | 0.3072 | 0.0282 |
| ECIAI39_2126 | 0.004 | 0.2423 | 0.01647 |
| ECIAI39_2129 | 0.0475 | 0.2379 | 0.19949 |
| ECIAI39_2130 | 0.0183 | 0.1713 | 0.10676 |
| ECIAI39_2132 | 0.02695 | 0.20235 | 0.133695 |
| 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 |

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| Gene | dN | dS | ω |
|--------------|--------------------|-------------------|-------------------|
| ECIAI39_2141 | 3.91000526315789 | 17.7309736842105 | 2.06571631578947 |
| ECIAI39_2144 | 0.091 | 1.1179 | 0.08139 |
| ECIAI39_2145 | 0.0995 | 1.6115 | 0.06176 |
| ECIAI39_2146 | 0.4712 | 3.0364 | 0.15518 |
| ECIAI39_2148 | 0 | 0.3423 | 0 |
| ECIAI39_2154 | 0.1599 | 1.0362 | 0.15434 |
| ECIAI39_2157 | 0.0945 | 0.39025 | 0.22821 |
| ECIAI39_2158 | 0.0138 | 0.3494 | 0.03944 |
| ECIAI39_2160 | 0.063 | 0.3696 | 0.17049 |
| ECIAI39_2161 | 0.04285 | 0.3491 | 0.127045 |
| 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 | 0.0121 | 0.1772 | 0.071205 |
| ECIAI39_2169 | 0.026 | 0.2586 | 0.10063 |
| ECIAI39_2170 | 0.0278 | 0.2435 | 0.1143 |
| ECIAI39_2172 | 0.0308 | 0.3315 | 0.09292 |
| ECIAI39_2173 | 0.0061 | 0.4015 | 0.01512 |
| ECIAI39_2177 | 0.0031 | 0.1387 | 0.02228 |
| ECIAI39_2178 | 0.005 | 0.2357 | 0.02128 |
| ECIAI39_2179 | 0.0096 | 0.1776 | 0.05418 |
| ECIAI39_2182 | 0.0287 | 0.3308 | 0.0868 |
| ECIAI39_2184 | 0.0181 | 0.3341 | 0.05418 |
| ECIAI39_2186 | 0.0042666666666667 | 0.135666666666667 | 0.036666666666667 |
| ECIAI39_2187 | 0 | 0.0803 | 0 |
| ECIAI39_2188 | 0.01335 | 0.1335 | 0.096275 |
| ECIAI39_2190 | 0.0387 | 0.2763 | 0.1401 |
| ECIAI39_2191 | 0.0078 | 0.2584 | 0.03014 |
| ECIAI39_2192 | 0.0044 | 0.2298 | 0.01932 |
| ECIAI39_2193 | 0.0028 | 0.2411 | 0.01175 |
| ECIAI39_2196 | 0.00695 | 0.13005 | 0.05814 |
| ECIAI39_2197 | 0.0217 | 0.2383 | 0.09118 |
| ECIAI39_2198 | 0.01015 | 0.2926 | 0.021835 |
| 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 | 0.1941 | 1.7343 | 0.11194 |
| ECIAI39_2207 | 0.0118 | 0.4185 | 0.02812 |
| ECIAI39_2208 | 0.0209 | 0.397 | 0.05252 |
| ECIAI39_2211 | 0.035 | 0.798 | 0.04392 |
| ECIAI39_2212 | 0.0777 | 1.3557 | 0.05728 |
| ECIAI39_2214 | 0.0155 | 0.194 | 0.08016 |
| ECIAI39_2215 | 0.0027 | 0.10375 | 0.02168 |
| ECIAI39_2216 | 0.0074 | 0.142 | 0.05215 |
| ECIAI39_2217 | 0 | 0.0971 | 0 |
| ECIAI39_2218 | 0.0226 | 0.158 | 0.14323 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| 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 | 0.0086666666666667 | 0.1631666666666667 | 0.0604566666666667 |
| ECIAI39_2224 | 0.0042 | 0.1295 | 0.03276 |
| ECIAI39_2225 | 0.0071 | 0.3123 | 0.0227 |
| 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 | 0.0105 | 0.2308 | 0.04571 |
| ECIAI39_2250 | 0.0272 | 0.2201 | 0.12345 |
| ECIAI39_2252 | 0.0177 | 0.3279 | 0.05405 |
| ECIAI39_2253 | NA | 2.685475 | 0.21922 |
| ECIAI39_2254 | 0.0796 | 0.5113 | 0.1556 |
| ECIAI39_2256 | 0 | 0.148 | 0 |
| ECIAI39_2258 | 0.0044 | 0.1287 | 0.03423 |
| ECIAI39_2263 | 0.0225 | 0.2778 | 0.08114 |
| ECIAI39_2264 | 0.0273 | 0.24175 | 0.11447 |
| ECIAI39_2273 | 0.0325 | 0.3279 | 0.09912 |
| ECIAI39_2274 | 0.0022 | 0.1942 | 0.01132 |
| ECIAI39_2276 | 0.05995 | 0.4018 | 0.16218 |
| ECIAI39_2277 | 0.1464 | 0.9985 | 0.14665 |
| ECIAI39_2278 | 0.2077 | 1.239 | 0.16766 |
| ECIAI39_2281 | 0.0012 | 0.2505 | 0.00482 |
| ECIAI39_2283 | 0.0025 | 0.4005 | 0.00615 |
| ECIAI39_2285 | 0.01205 | 0.2003 | 0.07019 |
| ECIAI39_2286 | 0.0128 | 0.3117 | 0.04105 |
| ECIAI39_2287 | 0.0083 | 0.2635 | 0.03143 |
| ECIAI39_2288 | 0.0054 | 0.238 | 0.02263 |
| ECIAI39_2290 | 0.0381 | 0.4271 | 0.08931 |
| ECIAI39_2291 | 0.0061 | 0.2848 | 0.02126 |
| ECIAI39_2292 | 0.00465 | 0.1067 | 0.021785 |
| ECIAI39_2293 | 0.0075 | 0.1412 | 0.05328 |
| ECIAI39_2297 | 0.0165 | 0.2381 | 0.06932 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-----------------------|---------------------|---------------------|
| ECIAI39_2298 | 0.02375 | 0.2589 | 0.119075 |
| ECIAI39_2299 | 0.0138 | 0.228 | 0.06044 |
| ECIAI39_2300 | 0.0251 | 0.1293 | 0.19412 |
| ECIAI39_2301 | 0.0116 | 0.2144 | 0.05418 |
| ECIAI39_2302 | 0.0241 | 0.2048 | 0.11775 |
| ECIAI39_2304 | 0.0258 | 0.1786 | 0.14445 |
| ECIAI39_2305 | 0.0153 | 0.1378 | 0.11076 |
| ECIAI39_2306 | 0.02465 | 0.18 | 0.136145 |
| ECIAI39_2307 | 0.0284 | 0.3337 | 0.08673 |
| ECIAI39_2308 | 0.005 | 0.2807 | 0.01772 |
| ECIAI39_2309 | 0.0524 | 0.1979 | 0.2648 |
| ECIAI39_2310 | 0.0157 | 0.2765 | 0.05688 |
| ECIAI39_2312 | 0.0223 | 0.2591 | 0.08624 |
| ECIAI39_2313 | 0.05265 | 0.59825 | 0.048965 |
| 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 | 0.09813333333333333 | 0 |
| ECIAI39_2326 | 0.0028 | 0.1187 | 0.024 |
| ECIAI39_2329 | 0.0047 | 0.2232 | 0.02097 |
| ECIAI39_2330 | 0.0030333333333333333 | 0.26976666666666667 | 0.01143666666666667 |
| ECIAI39_2332 | 0 | 0.06945 | 0 |
| ECIAI39_2334 | 0.0046 | 0.1496 | 0.03057 |
| 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 | 0.0059 | 0.0555 | 0.10562 |
| ECIAI39_2344 | 0 | 0.0289 | 0 |
| ECIAI39_2347 | 0.0024 | 0.11875 | 0.01755 |
| ECIAI39_2348 | 0.0134 | 0.12965 | 0.09259 |
| ECIAI39_2349 | 0.00735 | 0.1084 | 0.037795 |
| ECIAI39_2350 | 0.0332 | 0.2343 | 0.14192 |
| ECIAI39_2351 | 0.2292 | 0.45535 | 0.359865 |
| ECIAI39_2352 | 0.00385 | 0.35355 | 0.010175 |
| ECIAI39_2354 | 0.008466666666666667 | 0.22556666666666667 | 0.03717333333333333 |
| ECIAI39_2356 | 0.007366666666666667 | 0.1709 | 0.04845666666666667 |
| ECIAI39_2357 | 0.00535 | 0.10615 | 0.0546 |
| ECIAI39_2358 | 0.0398 | 0.5763 | 0.049015 |
| ECIAI39_2359 | 0.0105 | 0.1836 | 0.05737 |
| 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 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|-------------------|--------------------|
| ECIAI39_2368 | 0.0107 | 0.3762 | 0.02833 |
| ECIAI39_2369 | 116.24015 | 59.9247357142857 | 8.32499357142857 |
| ECIAI39_2370 | 11.91495 | 1.96425 | 10.042095 |
| ECIAI39_2372 | 0.579566666666667 | 80.3147666666667 | 0.0489033333333333 |
| ECIAI39_2373 | 0.342 | 2.4909 | 0.13729 |
| ECIAI39_2374 | 0.0249333333333333 | 0.313966666666667 | 0.08865 |
| ECIAI39_2376 | 4.6950125 | 30.7411 | 0.262905 |
| 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 | 0.0869 | 0.26885 | 0.314675 |
| ECIAI39_2410 | 0.035 | 0.1473 | 0.23746 |
| 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 |
| ECIAI39_2424 | 0.01615 | 0.176 | 0.09229 |
| ECIAI39_2425 | 0.00885 | 0.24385 | 0.05771 |
| ECIAI39_2428 | 0.0024 | 0.1807 | 0.01343 |
| ECIAI39_2430 | 0.0145 | 0.1535 | 0.09414 |
| ECIAI39_2431 | 0.0085 | 0.1189 | 0.07188 |
| ECIAI39_2432 | 0.0328 | 0.4953 | 0.06613 |
| ECIAI39_2433 | 0.0041 | 0.1886 | 0.02147 |
| ECIAI39_2439 | 0.0089 | 0.1925 | 0.04607 |
| ECIAI39_2440 | 0.0075 | 0.1541 | 0.04874 |
| 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 | 0.0201 | 0.2666 | 0.0753 |
| ECIAI39_2448 | 0.0365 | 0.5459 | 0.06691 |
| ECIAI39_2451 | 0.0157 | 0.4062 | 0.03864 |
| ECIAI39_2452 | 0.0064 | 0.5598 | 0.011435 |
| ECIAI39_2453 | 0.0052 | 0.4109 | 0.01266 |
| ECIAI39_2454 | 0.0082 | 0.4237 | 0.0194 |
| ECIAI39_2455 | 0.0072 | 0.2029 | 0.03545 |
| ECIAI39_2459 | 0.0152 | 0.3485 | 0.04352 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|--------------------|----------|
| ECIAI39_2461 | 0.0046 | 0.2122 | 0.02163 |
| ECIAI39_2462 | 0.0144 | 0.1363 | 0.1058 |
| ECIAI39_2463 | 0.01285 | 0.1152 | 0.096105 |
| ECIAI39_2464 | 0.0098 | 0.2529 | 0.03861 |
| 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 | 0.0283 | 0.2523 | 0.11226 |
| ECIAI39_2478 | 0.0068 | 0.3453 | 0.01976 |
| ECIAI39_2480 | 0.0267 | 0.4632 | 0.0576 |
| 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 | 0.0259 | 0.3836 | 0.06765 |
| ECIAI39_2489 | 0.011 | 0.1236 | 0.08891 |
| ECIAI39_2490 | 0.01693333333333333 | 0.2795 | 0.08135 |
| 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 |
| ECIAI39_2503 | 0.032 | 0.1361 | 0.23541 |
| ECIAI39_2504 | 0.0289 | 0.2163333333333333 | 0.12895 |
| 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 | 0.1715 | 1.17775 | 0.12189 |
| 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 | 0.0243 | 0.2298 | 0.10576 |
| ECIAI39_2550 | 0.04 | 0.35 | 0.11428 |
| ECIAI39_2552 | 0.0162 | 0.193 | 0.08416 |
| ECIAI39_2555 | 0.0106 | 0.1868 | 0.05698 |
| ECIAI39_2556 | 0.0169 | 0.162 | 0.10448 |
| ECIAI39_2557 | 0.0158 | 0.2518 | 0.06266 |
| ECIAI39_2558 | 0.0108 | 0.22325 | 0.05552 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|---------------------|
| ECIAI39_2560 | 0.0048 | 0.1637 | 0.02956 |
| ECIAI39_2562 | 0.0022 | 0.1108333333333333 | 0.02224666666666667 |
| ECIAI39_2563 | 0 | 0.1568 | 0 |
| ECIAI39_2564 | 0 | 0.0522 | 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 | 0.0137 | 0.2693 | 0.05094 |
| 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_2588 | 0.022 | 0.2769 | 0.07956 |
| ECIAI39_2589 | 0.0022 | 0.1757 | 0.01265 |
| ECIAI39_2591 | 0.0086 | 0.0857 | 0.09996 |
| 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 | 0.006933333333333333 | 0.2026333333333333 | 0.0335333333333333 |
| ECIAI39_2603 | 0.0033 | 0.0897 | 0.03644 |
| ECIAI39_2604 | 0.0145 | 0.2868 | 0.05069 |
| ECIAI39_2605 | 0.01376666666666667 | 0.3414 | 0.03814666666666667 |
| 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 | 0.0484 | 0.3343 | 0.14465 |
| 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 | 0.0405 | 0.2828 | 0.135525 |
| 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 | 0.01985 | 0.1309 | 0.184535 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|---------------------|--------------------|
| ECIAI39_2651 | 0.0035 | 0.318 | 0.01114 |
| ECIAI39_2657 | 0.00815 | 0.25575 | 0.03572 |
| ECIAI39_2700 | 0.0283 | 0.4958 | 0.05716 |
| ECIAI39_2702 | 0.0215 | 0.3211 | 0.06695 |
| 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 | 0.1262 | 0.132965 |
| ECIAI39_2708 | 0.00928888888888889 | 0.1826444444444444 | 0.0711811111111111 |
| ECIAI39_2709 | 0.0027 | 0.1949 | 0.01379 |
| ECIAI39_2710 | 0.0043 | 0.2445 | 0.01772 |
| ECIAI39_2712 | 0.007833333333333333 | 0.06736666666666667 | 0.09421 |
| 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 | 0.011 | 0.3353 | 0.03274 |
| ECIAI39_2727 | 0.0229 | 0.3434 | 0.06676 |
| ECIAI39_2731 | 0.02545 | 0.15085 | 0.166795 |
| ECIAI39_2733 | 0.0369 | 0.3151 | 0.11712 |
| ECIAI39_2735 | 0.0027 | 0.2301 | 0.01163 |
| ECIAI39_2736 | 0.017 | 0.141 | 0.12089 |
| ECIAI39_2737 | 0.0183 | 0.1998 | 0.09152 |
| ECIAI39_2738 | 0.0214 | 0.2891 | 0.07415 |
| ECIAI39_2739 | 0.00875 | 0.31615 | 0.042805 |
| 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 | 0.00585 | 0.1585 | 0.021665 |
| 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 | 0.0133 | 0.16325 | 0.083355 |
| ECIAI39_2753 | 0.0045 | 0.5233 | 0.00861 |
| ECIAI39_2755 | 0.1396 | 1.0277 | 0.13582 |
| 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 | 0.0072 | 0.1411 | 0.05137 |
| ECIAI39_2769 | 0.0044 | 0.2437 | 0.01807 |
| ECIAI39_2771 | 0.0237 | 0.4954 | 0.04774 |
| ECIAI39_2780 | 16.0283 | 17.6018 | 0.9106 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------|----------|----------|
| 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 | 0.0376 | 0.2401 | 0.15668 |
| ECIAI39_2789 | 0.095 | 0.2412 | 0.39394 |
| ECIAI39_2790 | 0.0454 | 0.1225 | 0.37026 |
| ECIAI39_2791 | 0.0885 | 0.4364 | 0.20289 |
| ECIAI39_2792 | 0.028875 | 0.181325 | 0.14005 |
| 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_2806 | 0.0106 | 0.3695 | 0.02874 |
| 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 |
| 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 | 0.02785 | 0.254 | 0.109295 |
| ECIAI39_2836 | 0.0103 | 0.3962 | 0.0261 |
| ECIAI39_2837 | 0.0013 | 0.212 | 0.00615 |
| ECIAI39_2844 | 0.0159 | 0.2226 | 0.0716 |
| ECIAI39_2847 | 0.0126 | 0.2532 | 0.0499 |
| ECIAI39_2849 | 0.0104 | 0.2109 | 0.04954 |
| ECIAI39_2851 | 0.0457 | 0.1993 | 0.21547 |
| ECIAI39_2852 | 0.0346 | 0.1051 | 0.31406 |
| 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 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-------------------|---------------------|------------|
| 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 | 0.2095 | 0.05408 |
| 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 |
| ECIAI39_2907 | 0.0386 | 0.2351 | 0.16417 |
| ECIAI39_2909 | 0.0151 | 0.2412 | 0.06256 |
| ECIAI39_2911 | 0.01475 | 0.12015 | 0.122395 |
| 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 | 0.0164 | 0.1793 | 0.09143 |
| ECIAI39_2924 | 0.0052 | 0.2496 | 0.02069 |
| ECIAI39_2926 | 0.0381 | 0.3637 | 0.076655 |
| ECIAI39_2930 | 0.0128 | 0.371 | 0.03437 |
| ECIAI39_2932 | 0.0316 | 0.3088 | 0.10225 |
| ECIAI39_2933 | 0.0049 | 0.1805 | 0.02724 |
| 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 | 0.0131 | 0.2609 | 0.05111 |
| 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 | 0.1647 | 0.0157 |
| 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 | 0.014066666666667 | 0.08823333333333333 | NA |
| ECIAI39_2962 | 0.033 | 0.1062 | 499.512685 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| ECIAI39_2963 | 0.01295 | 0.1658 | 0.076045 |
| ECIAI39_2964 | 0.00815 | 0.2013 | 0.04033 |
| 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 | 0.0351 | 0.4412 | 0.07956 |
| 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 | 0.0058 | 0.1391 | 0.04198 |
| ECIAI39_2987 | 0.0105 | 0.16805 | 0.05556 |
| ECIAI39_2988 | 0.0143 | 0.4117 | 0.03478 |
| ECIAI39_2989 | 0.0036666666666667 | 0.1517 | 0.0286433333333333 |
| ECIAI39_2990 | 0.0184 | 0.5402 | 0.03406 |
| ECIAI39_2991 | 0.01475 | 0.17265 | 0.123495 |
| ECIAI39_2993 | 0.0084333333333333 | 0.0746666666666667 | 0.2333766666666667 |
| ECIAI39_2994 | 0.011 | 0.1453 | 0.07553 |
| ECIAI39_2995 | 0.0044 | 0.1464 | 0.02982 |
| 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_3003 | 0.9808333333333333 | 18.28263333333333 | 333.7895266666667 |
| ECIAI39_3004 | 15.3102 | 0.5479 | 30.17341 |
| ECIAI39_3005 | 0.6589 | 121.81665 | 0.33425 |
| ECIAI39_3006 | 0.3213 | 148.5366 | 0.00216 |
| ECIAI39_3007 | 3.19024 | 22.20188 | 0.327659 |
| ECIAI39_3016 | 2.738575 | 1.2687 | 2.87141 |
| ECIAI39_3017 | 5.9308 | 0.6884 | 8.61531 |
| ECIAI39_3018 | 2.4257 | 2.1694 | 1.342695 |
| ECIAI39_3022 | 0.0068 | 0.1034 | 0.065435 |
| ECIAI39_3023 | 0.0074333333333333 | 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 | 0.0409 | 0.1063 |
| 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 | 0.0079333333333333 | 0.1179666666666667 | 0.04943 |
| ECIAI39_3034 | 0.00485 | 0.0602 | 0.08701 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|---------------------|----------------------|
| ECIAI39_3035 | 0.0197 | 0.0636 | 0.31043 |
| ECIAI39_3036 | 0.0205 | 0.1056 | 0.19381 |
| ECIAI39_3037 | 0.0108 | 0.0945 | 0.1144 |
| ECIAI39_3038 | 0.0044 | 0.354 | 0.01249 |
| 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 | 0.02313333333333333 | 0.15903333333333333 | 0.14024666666666667 |
| ECIAI39_3047 | 0 | 0.1908 | 0 |
| ECIAI39_3048 | 0.0015 | 0.3158 | 0.00486 |
| ECIAI39_3049 | 0 | 0.0668 | 0 |
| ECIAI39_3051 | 0.0006 | 0.06926666666666667 | 0.004686666666666667 |
| ECIAI39_3052 | 0.0028 | 0.1898 | 0.01479 |
| ECIAI39_3053 | 0 | 0.1397 | 0 |
| ECIAI39_3054 | 0.01313333333333333 | 0.28803333333333333 | 0.03633666666666667 |
| ECIAI39_3063 | 0.0127 | 0.5036 | 0.02515 |
| ECIAI39_3065 | 0.0147 | 0.6944 | 0.02114 |
| ECIAI39_3066 | 0.3978 | 0.5215 | 0.76283 |
| 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 |
| 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 | 0.0168 | 0.2353 | 0.07128 |
| 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_3104 | 0.0246 | 0.4939 | 0.04986 |
| ECIAI39_3107 | 0.0141 | 0.3426 | 0.04114 |
| ECIAI39_3108 | 0.4367 | NA | 0.22106 |
| 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 | 0.0045 | 0.2333 | 0.01936 |
| ECIAI39_3119 | 0.0036 | 0.3974 | 0.0091 |
| ECIAI39_3120 | 0 | 0.0776 | 0 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|--------------------|--------------------|
| ECIAI39_3121 | 0.01585 | 0.1207 | 0.17364 |
| ECIAI39_3122 | 0.0135 | 0.235375 | 0.0713225 |
| ECIAI39_3123 | 0 | 0.1393 | 0 |
| ECIAI39_3124 | 0.0064 | 0.1325 | 0.04829 |
| ECIAI39_3125 | 0.0286 | 0.0724 | 0.39463 |
| 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 | 0.1941666666666667 | 0.0320366666666667 |
| ECIAI39_3138 | 0.0043 | 0.2088 | 0.02047 |
| ECIAI39_3139 | 0.0096 | 0.2163 | 0.04424 |
| ECIAI39_3141 | 0.0238 | 0.0945 | 0.267555 |
| ECIAI39_3146 | 0.0039 | 0.1869 | 0.02069 |
| ECIAI39_3151 | 0.0071 | 0.1688 | 0.04184 |
| ECIAI39_3153 | 0.0176 | 0.1646 | 0.10701 |
| ECIAI39_3154 | 0.0202 | 0.1 | 0.263665 |
| ECIAI39_3155 | 0.0128 | 0.2581 | 0.04941 |
| ECIAI39_3156 | 0.0176 | 0.2481 | 0.07089 |
| ECIAI39_3157 | 0.0133 | 0.3547 | 0.03761 |
| ECIAI39_3160 | 0.0174 | 0.18385 | 0.08633 |
| ECIAI39_3162 | 0.0044 | 0.1922 | 0.02315 |
| ECIAI39_3163 | 0.00905 | 0.3293 | 0.027475 |
| ECIAI39_3165 | 0.0036 | 0.32055 | 0.0087 |
| ECIAI39_3168 | 0.0025 | 0.1635 | 0.01552 |
| 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_3176 | 0.0011 | 0.149 | 0.00718 |
| ECIAI39_3180 | 0.00105 | 0.05895 | 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 | 0.0055 | 0.2534 | 0.02186 |
| ECIAI39_3187 | 0.0017 | 0.1608 | 0.0108 |
| 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 | 0.0955 | 0.005105 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------|--------------------|-----------|
| 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 | 0.1131 | 0.07157 |
| ECIAI39_3211 | 0.01425 | 0.1419 | 0.09661 |
| 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_3227 | 2.025675 | 78.852625 | 0.07726 |
| ECIAI39_3228 | 0.0384 | 0.4821 | 0.0797 |
| ECIAI39_3229 | 0.0527 | 0.3601 | 0.1464 |
| ECIAI39_3230 | 0.0068 | 0.1743 | 0.03929 |
| ECIAI39_3232 | 0.0032 | 0.3999 | 0.00789 |
| ECIAI39_3234 | 0.015 | 0.2677 | 0.05602 |
| ECIAI39_3236 | 0.0029 | 0.07755 | 0.031565 |
| ECIAI39_3237 | 0 | 0.01495 | 0 |
| ECIAI39_3238 | 0.00885 | 0.1347 | 0.039285 |
| ECIAI39_3239 | 0.0065 | 0.1879666666666667 | 0.04248 |
| ECIAI39_3240 | 0.003375 | 0.12225 | 0.0282725 |
| ECIAI39_3241 | 0.003775 | 0.118625 | 0.0786075 |
| ECIAI39_3243 | 0.0031 | 0.1715 | 0.01833 |
| ECIAI39_3247 | 0.0134 | 0.1588 | 0.08436 |
| 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 | 0.3648 | 0.02796 |
| 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 | 0.0318 | 0 |
| ECIAI39_3282 | 0.0396 | 0.2613 | 0.15147 |
| ECIAI39_3283 | 0.0133 | 0.0951 | 0.1398 |
| ECIAI39_3284 | 0.01635 | 0.19545 | 0.10116 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-----------------------|----------------------|----------------------|
| ECIAI39_3285 | 0.0102 | 0.13205 | 0.06735 |
| ECIAI39_3286 | 0.0205 | 0.2269 | 0.09046 |
| ECIAI39_3287 | 0 | 0.1056 | 0 |
| ECIAI39_3288 | 0.01135 | 0.1622 | 0.14006 |
| ECIAI39_3289 | 0.0184 | 0.32765 | 0.0451 |
| ECIAI39_3290 | 0 | 0.00415 | 0 |
| ECIAI39_3291 | 0 | 0.0282 | 0 |
| ECIAI39_3292 | 0 | 0 | 0 |
| ECIAI39_3293 | 0.0005333333333333333 | 0.03038333333333333 | 0.008886666666666667 |
| ECIAI39_3294 | 0 | 0.004466666666666667 | 0 |
| ECIAI39_3295 | 0 | 0.0001 | 0 |
| ECIAI39_3296 | 0 | 0.0119142857142857 | 0 |
| ECIAI39_3297 | 0 | 0.01906666666666667 | 0 |
| ECIAI39_3298 | 0 | 0.0093 | 0 |
| ECIAI39_3310 | 0.1319 | 4.2096 | 0.03134 |
| ECIAI39_3317 | 0 | 0.0335 | 0 |
| ECIAI39_3318 | 0.005675 | 0.0613 | 0.034505 |
| ECIAI39_3319 | 0.0558 | 0.4403 | 0.12679 |
| ECIAI39_3320 | 0.0099 | 0.322 | 0.03072 |
| ECIAI39_3322 | 0.0031 | 0.0864 | 0.041215 |
| ECIAI39_3324 | 0.0026 | 0.171 | 0.01518 |
| ECIAI39_3328 | 0.00995 | 0.1287 | 0.04045 |
| 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 | 0.01656666666666667 | 0.1464 | 0.18203 |
| 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 | 0.0915 | 0.01471 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|--------------------|--------------------|
| ECIAI39_3381 | 0.0063 | 0.2695 | 0.02332 |
| 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 | 0.2234 | 0.01909 |
| ECIAI39_3389 | 0.02465 | 0.38185 | 0.067795 |
| ECIAI39_3390 | 0.0226 | 0.1696 | 0.1334 |
| 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 | 0.0134 | 0.2979 | 0.04505 |
| ECIAI39_3413 | 0.0128 | 0.3274 | 0.03908 |
| 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 |
| 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_3431 | 4.06352 | 4.86793 | 300.572512 |
| ECIAI39_3435 | 0.08985 | 0.45115 | 0.254275 |
| ECIAI39_3436 | 0.0225 | 0.33135 | 0.06449 |
| ECIAI39_3437 | 0.014 | 0.4494 | 0.033725 |
| 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_3451 | 0.09565 | 0.06095 | 0.784445 |
| ECIAI39_3452 | 0.054 | 0.0816 | 0.66161 |
| ECIAI39_3453 | 0.0033 | 0.1033 | 0.03156 |
| ECIAI39_3454 | 0.0100666666666667 | 0.1551666666666667 | 0.0850366666666667 |
| ECIAI39_3455 | 0.0223 | 0.3371 | 0.06611 |
| ECIAI39_3456 | 0.01065 | 0.4976 | 0.019285 |
| ECIAI39_3457 | 0.0025 | 0.1079 | 0.02275 |
| ECIAI39_3458 | 0.0174 | 0.1647 | 0.10569 |
| ECIAI39_3460 | 0.00856 | 0.31424 | 0.039128 |
| ECIAI39_3462 | 0.016033333333333333 | 0.4460333333333333 | 0.0387866666666667 |
| ECIAI39_3468 | 0.0049 | 0.2901 | 0.01693 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|--------------------|----------|
| ECIAI39_3471 | 0.0167 | 0.3358 | 0.04959 |
| ECIAI39_3477 | 0.0827 | 1.4319 | 0.05778 |
| ECIAI39_3478 | 0.0137 | 0.1607 | 0.08529 |
| ECIAI39_3480 | 0 | 0.1001 | 0 |
| ECIAI39_3483 | 0 | 0.1271 | 0 |
| ECIAI39_3484 | 0.0064 | 0.3447 | 0.02146 |
| ECIAI39_3485 | 0.0042 | 0.4352 | 0.00973 |
| 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 | 0.0082 | 0.1068 | 0.0768 |
| ECIAI39_3502 | 0.0052 | 0.1763 | 0.02963 |
| ECIAI39_3503 | 0 | 0.0681 | 0 |
| ECIAI39_3509 | 0.0477 | 0.2322 | 0.201805 |
| ECIAI39_3510 | 0.0024 | 0.2116 | 0.01154 |
| ECIAI39_3513 | 0.00525 | 0.16235 | 0.03017 |
| ECIAI39_3514 | 0.0068 | 0.1226 | 0.05552 |
| ECIAI39_3517 | 0.0307 | 0.1363 | 0.22486 |
| ECIAI39_3519 | 0.0068 | 0.1775 | 0.03839 |
| ECIAI39_3521 | 0.0089 | 0.3835 | 0.02326 |
| 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_3540 | 0.0102 | 0.2191 | 0.04676 |
| ECIAI39_3545 | 0.0224 | 0 | NA |
| ECIAI39_3547 | 0 | 0.0154 | 0 |
| ECIAI39_3549 | 0.0128 | 0.3089333333333333 | 0.0625 |
| ECIAI39_3550 | 0 | 0.3111 | 0 |
| ECIAI39_3552 | 0.0027 | 0.2058 | 0.01302 |
| ECIAI39_3557 | 0.018 | 0.4353 | 0.0414 |
| ECIAI39_3559 | 0.01425 | 0.1981 | 0.080635 |
| ECIAI39_3560 | 0.0497 | 0.1917 | 0.2593 |
| 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 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|-------------------|-------------------|
| 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 | 0.031 | 0.1551 | 0.19966 |
| ECIAI39_3581 | 5.0372 | 6.5124 | 0.77347 |
| ECIAI39_3583 | 9.13855 | 46.8608 | 0.1687325 |
| ECIAI39_3584 | 1.6665 | 33.11855 | 0.3320875 |
| ECIAI39_3586 | 1.6120125 | 29.222675 | 124.97709625 |
| ECIAI39_3587 | 0.99272 | 20.44176 | 0.292906 |
| ECIAI39_3588 | 1.703883333333333 | 26.3193583333333 | 0.586115 |
| ECIAI39_3589 | NA | 33.9095375 | 0.60673375 |
| ECIAI39_3592 | 0.0074 | 0.373 | 0.01979 |
| ECIAI39_3593 | 0.0105 | 0.3416 | 0.03072 |
| 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 | 0.00285 | 3.36645 | 0.01888 |
| ECIAI39_3617 | 0.0027 | 0.405 | 0.00655 |
| ECIAI39_3621 | 0.0184 | 0.1721 | 0.10704 |
| 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 | 0.0188 | 0.2064 | 0.09238 |
| 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 | 0.0551 | 0.2933 | 0.18784 |
| ECIAI39_3638 | 11.4756 | NA | 111.846426666667 |
| ECIAI39_3639 | 10.6473857142857 | 29.4451 | 144.131234285714 |
| ECIAI39_3640 | 7.464425 | 191.1837 | 1.70059 |
| ECIAI39_3641 | NA | NA | NA |
| ECIAI39_3642 | 29.5852666666667 | 23.0792333333333 | 21.8833066666667 |
| ECIAI39_3643 | 0.923933333333333 | 14.9989666666667 | 0.060243333333333 |
| ECIAI39_3644 | 7.79405 | NA | 0.32197 |
| ECIAI39_3646 | 0.0791 | 2.4418 | 0.03237 |
| ECIAI39_3647 | 0.0626 | 1.6929 | 0.03696 |
| ECIAI39_3648 | 5.89285 | 57922.31215 | 0.041265 |
| 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 | 0.037033333333333 | 0.020963333333333 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|---------|----------|
| ECIAI39_3657 | 0.0061 | 0.0652 | 0.13731 |
| ECIAI39_3658 | 0.0033 | 0.1977 | 0.012035 |
| ECIAI39_3659 | 0.0066 | 0.2899 | 0.02272 |
| ECIAI39_3660 | 0.246 | 0.6271 | 0.3923 |
| ECIAI39_3661 | 0.0157 | 0.17225 | 0.093035 |
| ECIAI39_3663 | 0.0012 | 0.0326 | 0.025675 |
| ECIAI39_3665 | 0.00465 | 0.23215 | 0.02288 |
| ECIAI39_3666 | 0.0112 | 0.461 | 0.02439 |
| 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 | 0.03 | 0.4176 | 0.07176 |
| ECIAI39_3678 | 0.0317 | 0.7263 | 0.04369 |
| ECIAI39_3679 | 0.0075 | 0.14775 | 0.050975 |
| ECIAI39_3680 | 0.0133 | 0.2145 | 0.06186 |
| ECIAI39_3682 | 0.0129 | 0.1359 | 0.09496 |
| ECIAI39_3688 | 0.0087 | 0.2456 | 0.03548 |
| ECIAI39_3690 | 0.0137 | 0.3959 | 0.03463 |
| ECIAI39_3691 | 0.0025 | 0.4057 | 0.00605 |
| ECIAI39_3692 | 0.005 | 0.2734 | 0.01816 |
| ECIAI39_3693 | 0.017 | 0.3365 | 0.05053 |
| ECIAI39_3697 | 0.0202 | 0.1694 | 0.11151 |
| ECIAI39_3701 | 0.0207 | 0.3082 | 0.06712 |
| ECIAI39_3703 | 0.0175 | 0.1327 | 0.13191 |
| ECIAI39_3705 | 0.0217 | 0.1496 | 0.14511 |
| ECIAI39_3707 | 0.01464 | 0.24222 | 0.049046 |
| ECIAI39_3708 | 0.0408 | 0.3683 | 0.11081 |
| ECIAI39_3714 | 0.26135 | 1.26585 | 0.20319 |
| 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 | 0.0147 | 0.299 | 0.04905 |
| ECIAI39_3722 | 0.001 | 0.1077 | 0.00926 |
| ECIAI39_3781 | 0 | 0.0524 | 0 |
| ECIAI39_3782 | 0.0129 | 0.1706 | 0.07552 |
| ECIAI39_3786 | 0 | 0.1861 | 0 |
| ECIAI39_3792 | 0.0074 | 0.6615 | 0.01119 |
| ECIAI39_3794 | 0.0191 | 0.7311 | 0.02606 |
| ECIAI39_3795 | 0.0078 | 0.3771 | 0.02066 |
| ECIAI39_3798 | 0.0049 | 0.4665 | 0.01048 |
| ECIAI39_3802 | 0.0118 | 0.4202 | 0.0281 |
| ECIAI39_3807 | 0.0088 | 0.2198 | 0.04017 |
| ECIAI39_3811 | 0.0058 | 0.1323 | 0.04417 |
| ECIAI39_3812 | 0 | 0.0262 | 0 |
| ECIAI39_3814 | 0.0011 | 0.1456 | 0.00741 |
| ECIAI39_3816 | 0.0038 | 0.1402 | 0.02726 |
| ECIAI39_3819 | 0.0067 | 0.1219 | 0.05535 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|---------|---------------------|
| 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_3833 | 0.0118 | 0.1521 | 0.07745 |
| ECIAI39_3835 | 0.005 | 0.1968 | 0.02561 |
| ECIAI39_3837 | 0.0399 | 0.4169 | 0.0957 |
| ECIAI39_3841 | 0.0426 | 0.1764 | 0.24165 |
| ECIAI39_3842 | 0.0716 | 0.15875 | 499.50561 |
| ECIAI39_3843 | 0.0093 | 0.1229 | 0.07551 |
| ECIAI39_3845 | 0.008 | 0.1991 | 0.04002 |
| 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 | 0.0144 | 0.2981 | 0.04844 |
| 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_3860 | 0.0063 | 0.2788 | 0.02248 |
| 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 | 0.3221 | 0.010265 |
| ECIAI39_3869 | 0.0159 | 0.3267 | 0.04855 |
| ECIAI39_3872 | 0.0183 | 0.2168 | 0.08437 |
| ECIAI39_3874 | 0.0032666666666667 | 0.1316 | 0.02787 |
| ECIAI39_3875 | 0.0177 | 0.078 | 0.22688 |
| ECIAI39_3876 | 0.0015666666666667 | 0.0548 | 0.02171333333333333 |
| 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 | 0.2735 | 0.039845 |
| ECIAI39_3884 | 0.012 | 0.2108 | 0.05695 |
| ECIAI39_3886 | 0.0044 | 0.2763 | 0.01588 |
| ECIAI39_3887 | 0.00735 | 0.13225 | 0.05106 |
| ECIAI39_3896 | 0.0276 | 0.17895 | 0.10492 |
| 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_3900 | 0.087 | 49.9021 | 0.00174 |
| ECIAI39_3901 | 0.01 | 0.1771 | 0.07372 |
| ECIAI39_3903 | 0.0062 | 0.3338 | 0.01858 |
| ECIAI39_3904 | 0.0042 | 0.1797 | 0.02326 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|---------|----------|
| ECIAI39_3906 | 0 | 0.1904 | 0 |
| ECIAI39_3907 | 0 | 0.0712 | 0 |
| ECIAI39_3917 | 0.0143 | 0.2294 | 0.0623 |
| 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 | 0.0067 | 0.2751 | 0.02422 |
| ECIAI39_3927 | 0.00175 | 0.1601 | 0.00647 |
| ECIAI39_3934 | 0.0384 | 0.5966 | 0.06433 |
| ECIAI39_3935 | 0.0384 | 0.6403 | 0.06002 |
| ECIAI39_3937 | 0.0278 | 0.3969 | 0.07016 |
| ECIAI39_3938 | 0.0299 | 0.2781 | 0.1076 |
| 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 | 0.0047 | 0.1307 | 0.03633 |
| ECIAI39_3944 | 0.019 | 0.2496 | 0.07604 |
| ECIAI39_3945 | 0.001 | 0.1755 | 0.0059 |
| 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_3969 | 0.0161 | 0.4813 | 0.03345 |
| ECIAI39_3971 | 0 | 0.0001 | 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 | 0.05175 |
| ECIAI39_3978 | 0.0506 | 0.2766 | 0.18293 |
| ECIAI39_3981 | 0.0141 | 0.495 | 0.02848 |
| ECIAI39_3982 | 0.0122 | 0.3318 | 0.03681 |
| ECIAI39_3986 | 0.0046 | 0.3798 | 0.01211 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------------------|-------------------|-------------------|
| 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 | 0.0155 | 0.2885 | 0.05361 |
| ECIAI39_3994 | 0.0016 | 0.2288 | 0.00717 |
| ECIAI39_3998 | 0.0162 | 0.1561 | 0.10361 |
| ECIAI39_3999 | 0.0127 | 0.1929 | 0.06591 |
| ECIAI39_4002 | 0.0011 | 0.1834 | 0.006025 |
| ECIAI39_4004 | 0.0011 | 0.13815 | 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 | 0.014766666666667 | 0.237066666666667 | 0.059776666666667 |
| ECIAI39_4019 | 0 | 0.0355 | 0 |
| ECIAI39_4020 | 0.00086666666666667 | 0.0429 | 0.01432 |
| ECIAI39_4021 | 0 | 0.02705 | 0 |
| ECIAI39_4029 | 0.0168 | 0.2871 | 0.0585 |
| ECIAI39_4030 | 0.02595 | 0.2041 | 0.137 |
| ECIAI39_4031 | 0.0382 | 0.2172 | 0.17583 |
| ECIAI39_4032 | 0.01305 | 0.12325 | 0.126325 |
| ECIAI39_4033 | 0.00596 | 0.13688 | 0.11726 |
| ECIAI39_4034 | 0.0231 | 0.072766666666667 | NA |
| ECIAI39_4035 | 0.1245 | 0.98625 | 0.13713 |
| ECIAI39_4036 | 0.0248 | 0.35935 | 0.068805 |
| 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 | 0.0127 | 0.3705 | 0.03431 |
| ECIAI39_4054 | 0.0053 | 0.3754 | 0.01415 |
| ECIAI39_4055 | 0.0075 | 0.3845 | 0.01962 |
| ECIAI39_4059 | 0.0019 | 0.2202 | 0.00735 |
| ECIAI39_4060 | 0.0112 | 0.3308 | 0.03382 |
| ECIAI39_4061 | 0.0104 | 0.3279 | 0.03161 |
| ECIAI39_4062 | 0.0066 | 0.1342 | 0.04929 |
| ECIAI39_4065 | 0.0025 | 0.1941 | 0.01314 |
| ECIAI39_4067 | 0.039 | 0.23855 | 0.160935 |
| ECIAI39_4068 | 0.0084 | 0.2601 | 0.03217 |
| ECIAI39_4071 | 0.0116 | 0.1179 | 0.09808 |
| ECIAI39_4076 | 0.00415 | 0.17435 | 0.02232 |
| ECIAI39_4077 | 0.0059 | 0.1935 | 0.03043 |
| ECIAI39_4079 | 0.0142 | 0.1297 | 0.09128 |
| 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 | 0.0403 | 0.3622 | 0.11138 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|---------|----------|
| ECIAI39_4090 | 0.6099 | 3.402 | 0.109825 |
| ECIAI39_4092 | 0.0196 | 0.2325 | 0.08805 |
| 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 | 0.016 | 0.2242 | 0.07134 |
| ECIAI39_4130 | 0.0278 | 0.2769 | 0.10051 |
| ECIAI39_4133 | 0.013 | 0.333 | 0.03897 |
| ECIAI39_4134 | 0.0337 | 0.4469 | 0.07543 |
| ECIAI39_4141 | 3.0997 | 3.2218 | 0.96212 |
| ECIAI39_4142 | 0.0473 | 0.4614 | 0.10245 |
| ECIAI39_4143 | 0.02595 | 0.43345 | 0.06379 |
| ECIAI39_4144 | 0.0299 | 0.6266 | 0.04771 |
| ECIAI39_4145 | 0.0416 | 0.8217 | 0.05065 |
| ECIAI39_4146 | 0.0132 | 0.699 | 0.01888 |
| ECIAI39_4147 | 0.0126 | 0.6106 | 0.02058 |
| ECIAI39_4148 | 0.0189 | 0.5413 | 0.03485 |
| ECIAI39_4149 | 0.0301 | 0.4118 | 0.08007 |
| ECIAI39_4150 | 0.0092 | 0.4443 | 0.02073 |
| ECIAI39_4151 | 0.0167 | 0.3815 | 0.047405 |
| ECIAI39_4152 | 0.0343 | 0.5213 | 0.06583 |
| ECIAI39_4155 | 0 | 0.0521 | 0 |
| ECIAI39_4157 | 0.0283 | 0.1008 | 0.28104 |
| ECIAI39_4159 | 0.0471 | 0.1557 | 0.30218 |
| ECIAI39_4162 | 0.0108 | 0.1024 | 0.10538 |
| ECIAI39_4163 | 0.0088 | 0.3279 | 0.02677 |
| ECIAI39_4165 | 0.0252 | 0.4048 | 0.06236 |
| ECIAI39_4166 | 0 | 0.1646 | 0 |
| ECIAI39_4167 | 0.0051 | 0.1422 | 0.03583 |
| ECIAI39_4172 | 0.00515 | 0.1409 | 0.035095 |
| ECIAI39_4174 | 0.0423 | 0.2321 | 0.18208 |
| ECIAI39_4175 | 0.0085 | 0.1642 | 0.05148 |

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Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-----------------------|-------------------|---------------------|
| ECIAI39_4176 | 0 | 0.0956 | 0 |
| ECIAI39_4177 | 0.002 | 0.1648 | 0.01211 |
| ECIAI39_4178 | 0.0053 | 0.1629 | 0.03274 |
| ECIAI39_4180 | 0.02455 | 0.12225 | 0.176675 |
| 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 | 0.1568 | 0 |
| ECIAI39_4199 | 0.0377 | 0.1643 | 0.22958 |
| ECIAI39_4202 | 0.0046 | 0.1213 | 0.03828 |
| ECIAI39_4203 | 0.0027 | 0.1248 | 0.02141 |
| ECIAI39_4207 | 0.0042 | 0.1372 | 0.03073 |
| ECIAI39_4211 | 0.00615 | 0.11975 | 0.03985 |
| ECIAI39_4214 | 0.0049 | 0.3118 | 0.01562 |
| 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 | 0.0247 | 0.1729 | 0.14268 |
| ECIAI39_4224 | 0 | 0.0952 | 0 |
| ECIAI39_4227 | 0.0152 | 0.2089 | 0.07295 |
| ECIAI39_4228 | 0.0074 | 0.0377 | 0.195425 |
| 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 | 0.0564 | 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 | 0.0341 | 0.3171 | 0.10763 |
| 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 | 0.02096666666666667 | 0.5708 | 0.03165666666666667 |
| ECIAI39_4255 | 0.0104 | 0.46275 | 0.023095 |
| ECIAI39_4256 | 0.0261 | 0.46105 | 0.063405 |
| ECIAI39_4257 | 0.0011666666666666667 | 0.0205 | 0.05744666666666667 |
| ECIAI39_4258 | 0.0156714285714286 | 0.266885714285714 | 0.06698 |
| ECIAI39_4259 | 0.0087 | 0.204 | 0.04286 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-------------------|-------------------|--------------------|
| ECIAI39_4262 | 0.0039 | 0.1613 | 0.02443 |
| ECIAI39_4264 | 0.0207 | 0.1929 | 0.10728 |
| 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_4270 | 0 | 0 | 0 |
| 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 | 0.1948 | 0.01447 |
| 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_4296 | NA | NA | NA |
| ECIAI39_4297 | 5.189172727273 | 31.3604545454545 | 94.8400909090909 |
| ECIAI39_4302 | 0.0339 | 0.6042 | 0.05612 |
| ECIAI39_4303 | 4.888425 | 7.9452875 | 125.70519375 |
| ECIAI39_4304 | 0.5286 | 85.37445 | 0.11787 |
| 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 |
| ECIAI39_4311 | 0 | 0.1421 | 0 |
| ECIAI39_4312 | 0.0322 | 0.4726 | 0.06822 |
| ECIAI39_4318 | 0.0184 | 0.4011 | 0.04585 |
| ECIAI39_4356 | 1.06875 | NA | 0.207815 |
| ECIAI39_4361 | 0.0061 | 0.2516 | 0.02407 |
| ECIAI39_4362 | 0.0069 | 0.2675 | 0.0257 |
| ECIAI39_4365 | 7.42467142857143 | 606.991757142857 | 143.509762857143 |
| ECIAI39_4366 | 0.4416 | 60.2764 | 249.866135 |
| ECIAI39_4369 | 0.015 | 0.1931 | 0.0778 |
| ECIAI39_4370 | 0 | 0.1475 | 0 |
| ECIAI39_4371 | 0.0088 | 0.2471 | 0.03547 |
| ECIAI39_4372 | 0.0937 | 0.66895 | 0.16773 |
| ECIAI39_4373 | 0.019066666666667 | 0.322266666666667 | 0.0602133333333333 |
| ECIAI39_4384 | 16.4840923076923 | 27.0396692307692 | 78.3022338461538 |
| ECIAI39_4385 | 4.93188571428571 | 43.9457857142857 | 6.86712142857143 |
| ECIAI39_4386 | 2.858975 | 42.0351166666667 | 1.52573833333333 |

Continued on next page

Table S1 – continued from previous page

| Gene | dN | dS | ω |
|--------------|----------------------|---------------------|---------------------|
| ECIAI39_4387 | 11.713325 | 29.37093125 | 79.94714375 |
| ECIAI39_4388 | 6.04594 | 36.51937 | 0.40116 |
| ECIAI39_4389 | 1.5727 | NA | 0.39676375 |
| ECIAI39_4390 | 14.843033333333333 | 170.3588 | 0.9798266666666667 |
| ECIAI39_4391 | 13.278866666666667 | 46.41126666666667 | 190.94786666666667 |
| ECIAI39_4393 | 9.835772727272727 | 53.4743181818182 | 182.974779090909 |
| ECIAI39_4394 | 0 | 0 | 0 |
| ECIAI39_4395 | 0.0059 | 0.1745 | 0.03381 |
| ECIAI39_4396 | 0.0056 | 0.1615 | 0.03465 |
| ECIAI39_4399 | 0.0157 | 0.1165 | 0.13453 |
| ECIAI39_4400 | 0.006366666666666667 | 0.1411 | 0.05407666666666667 |
| ECIAI39_4401 | 0.0138 | 0.1573 | 0.08769 |
| ECIAI39_4403 | 0.0136 | 0.1139 | 0.1194 |
| ECIAI39_4404 | 0.052 | 0.1887 | 0.335755 |
| ECIAI39_4405 | 0.0154 | 0.2894 | 0.05305 |
| 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 | 0.0449 | 0.3849 | 0.11663 |
| 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 | 0.028 | 0.4194 | 0.06686 |
| 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 | 0.0025 | 0.2412 | 0.01054 |
| ECIAI39_4431 | 0.0029 | 0.2916 | 0.00982 |
| ECIAI39_4433 | 0.0044 | 0.14 | 0.0315 |
| ECIAI39_4434 | 0.010266666666666667 | 0.18426666666666667 | 0.05598333333333333 |
| 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 | 0.0326 | 0.1263 | 0.25835 |
| ECIAI39_4937 | 0.0152 | 0.2165 | 0.07027 |

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

| <i>Bacillus subtilis</i> | | | |
|--------------------------|--------|--------|----------|
| Gene | dN | dS | ω |
| B657_RS21020 | 0.0198 | 0.3709 | 0.05341 |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|--------------|------------------|-------------------|------------------|
| B657_RS21120 | 3.85628571428571 | 23.1141 | 1.08285571428571 |
| B657_RS21130 | 0.01665 | 0.14565 | 0.110055 |
| B657_RS21135 | 0.0456 | 0.4953 | 0.09212 |
| B657_RS21140 | 0.1885 | 0.0002 | 999 |
| B657_RS21170 | 0.0342 | 0.4167 | 0.08208 |
| B657_RS21175 | 0.0331 | 0.36845 | 0.09302 |
| B657_RS21180 | 0.009 | 0.2995 | 0.03 |
| B657_RS21190 | 0.0159 | 0.29465 | 0.05551 |
| B657_RS21195 | 0.0414 | 0.47455 | 0.075965 |
| B657_RS21205 | 0.0717 | 0.4616 | 0.15536 |
| B657_RS21220 | 0.077 | 0.3209 | 0.23995 |
| B657_RS21225 | 0.0283 | 0.2916 | 0.09705 |
| B657_RS21230 | 0.0141 | 0.1901 | 0.07427 |
| B657_RS21240 | 0.03445 | 0.4489 | 0.086665 |
| B657_RS21245 | 0.0478 | 0.2307 | 0.20705 |
| B657_RS21255 | 0.073775 | 0.306325 | 0.265375 |
| 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 | 0.1273 | 1.5882 | 0.08017 |
| 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_RS21350 | 0.0179 | 0.2686 | 0.0665 |
| B657_RS21355 | 0.0208 | 0.2422 | 0.08597 |
| B657_RS21360 | 0.0108 | 0.3264 | 0.0331 |
| B657_RS21365 | 0.0059 | 0.2287 | 0.02591 |
| B657_RS21390 | 0.0468 | 0.3915 | 0.119485 |
| B657_RS21410 | 0.0084 | 0.3814 | 0.0219 |
| B657_RS21425 | 0.0344 | 0.3423 | 0.10047 |
| B657_RS21430 | 0.37635 | NA | 0.28247 |
| B657_RS21435 | 0.0311 | 0.5497 | 0.05665 |
| B657_RS21500 | 0.0675 | 0.3196 | 0.21136 |
| B657_RS21505 | 0.0564 | 0.3781 | 0.14909 |
| B657_RS21515 | 0.0524 | 0.3415 | 0.15343 |
| B657_RS21520 | 0.0349 | 0.204 | 0.17109 |
| B657_RS21525 | 0.0326 | 0.4706 | 0.06919 |
| B657_RS21535 | 0.0376 | 0.2516 | 0.14955 |
| B657_RS21540 | 0.0148 | 0.28705 | 0.05104 |
| B657_RS21565 | 0.0277 | 0.3596 | 0.07691 |
| B657_RS21595 | 0.0139 | 0.151 | 0.09223 |
| B657_RS21645 | 0.0085 | 0.4087 | 0.02079 |
| B657_RS21665 | 22.5215 | 53.84573333333333 | 2.33338 |
| B657_RS21670 | NA | NA | NA |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|--------------------|---------|--------------------|
| B657_RS21680 | 0.0413 | 0.3024 | 0.17476 |
| B657_RS21695 | 0.0951 | 0.4071 | 0.23356 |
| B657_RS21700 | 0.1253 | 0.2088 | 0.60023 |
| B657_RS21705 | 0.05355 | 0.40165 | 0.13004 |
| 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 | 0.3119 | 0.03748 |
| BSBS38_RS02685 | 0.0102 | 0.2813 | 0.03621 |
| BSBS38_RS03155 | 0.1355 | 0.5256 | 0.2579 |
| BSBS38_RS03245 | 0.0156 | 0.2732 | 0.05725 |
| BSBS38_RS05190 | 0.0556 | 0.4142 | 0.1342 |
| BSBS38_RS06455 | 0.0208 | 0.2823 | 0.07384 |
| BSBS38_RS15175 | 0.0232 | 0.334 | 0.06933 |
| BSU17360 | 0.0113 | 0.1186 | 0.09556 |
| BSU39360 | 0.0131 | 0.3506 | 0.03726 |
| 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 | 0.331 | 0.05434 |
| BSU39690 | 0.0077 | 0.391 | 0.0196 |
| BSU39720 | 0.0261 | 0.2277 | 0.11455 |
| BSU39730 | 0.0132 | 0.2802 | 0.0472 |
| BSU39780 | 0.01 | 0.3334 | 0.02986 |
| BSU39810 | 0.0464 | 0.6356 | 0.07293 |
| BSU40000 | 0.1964 | 0.468 | 0.41962 |
| BSU40010 | 0.0119 | 0.2958 | 0.0401 |
| BSU40050 | 0.0231 | 0.2562 | 0.09022 |
| BSU40070 | 0.0102 | 0.3165 | 0.0323 |
| BSU40080 | 0.0118 | 0.2658 | 0.04439 |
| BSU40100 | 0.0089 | 0.3209 | 0.0276 |
| BSU40350 | 0.0141 | 0.49815 | 0.028925 |
| BSU40360 | 0.0516666666666667 | 0.5733 | 0.1945966666666667 |
| BSU40370 | 0.0052 | 0.3574 | 0.01462 |
| BSU40380 | 0.0258 | 0.2378 | 0.10834 |
| BSU40390 | 0.0275 | 0.3041 | 0.09049 |
| BSU40400 | 0.0038 | 0.2875 | 0.01305 |
| BSU40410 | 0 | 0.1751 | 0 |
| BSU40420 | 0.0068 | 0.1875 | 0.03609 |
| BSU40430 | 0.0655 | 0.3496 | 0.18746 |
| BSU40440 | 0.002 | 0.2769 | 0.00738 |
| BSU40450 | 0.0613 | 0.3172 | 0.19327 |
| BSU40460 | 0.0721 | 0.5194 | 0.13875 |
| BSU40480 | 0.0377 | 0.2706 | 0.13936 |
| BSU40490 | 0.09148 | 0.35902 | 0.339552 |
| BSU40500 | 0.0064 | 0.2458 | 0.02605 |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|--------|-----------|------------|
| 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 | 0.0088 | 0.3719 | 0.02376 |
| BSU40600 | 0.7285 | 7285.2209 | 0.0001 |
| BSU40630 | 0.1798 | 0.2462 | 499.588425 |
| BSU40710 | 0.0171 | 0.4546 | 0.03765 |
| BSU40720 | 0.1718 | 0.5716 | 0.30051 |
| BSU40730 | 0.0783 | 0.3771 | 0.20763 |
| BSU40820 | 0.0332 | 0.469 | 0.07077 |
| BSU40830 | 0.0237 | 0.4819 | 0.0492 |
| BSU40840 | 0.0267 | 0.4295 | 0.06214 |
| BSU40850 | 0.0425 | 0.2977 | 0.14279 |
| BSU40860 | 0.0487 | 0.2632 | 0.18513 |
| BSU40870 | 0.0595 | 0.2846 | 0.20917 |
| 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 | 0.0312 | 0.3937 | 0.0793 |
| 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 | 0.0772 | 0.3018 | 0.25583 |
| BSU40990 | 0.0048 | 0.1592 | 0.03042 |
| BSU41000 | 0.0153 | 0.3464 | 0.04407 |
| BSU41010 | 0.0022 | 0.2435 | 0.00895 |
| BSU41020 | 0.0071 | 0.2535 | 0.0279 |
| BSU41030 | 0.031 | 0.2437 | 0.12709 |
| BSU41040 | 0.0071 | 0.1677 | 0.04264 |
| BSU41050 | 0.008 | 0.1561 | 0.05118 |
| BSU41060 | 0 | 0.0575 | 0 |
| BSUW23_RS01260 | 0 | 0 | 0 |
| BSUW23_RS01270 | 0.0801 | 0.3512 | 0.22819 |
| BSUW23_RS01285 | 0.0292 | 0.1455 | 0.20041 |
| BSUW23_RS01305 | 1.2145 | 101.8894 | 0.01192 |
| BSUW23_RS01465 | 0.0235 | 0.2214 | 0.10604 |
| BSUW23_RS01505 | 0.0299 | 0.3469 | 0.0863 |
| BSUW23_RS01575 | 0.0111 | 0.3903 | 0.02832 |
| BSUW23_RS01580 | 0 | 0.1505 | 0 |
| BSUW23_RS01625 | 0.0461 | 0.2987 | 0.15428 |
| BSUW23_RS01690 | 0.0429 | 0.4164 | 0.10311 |
| BSUW23_RS01970 | 0.0211 | 0.384 | 0.05487 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|---------|---------|-----------|
| BSUW23_RS02045 | 0.042 | 0.3323 | 0.12625 |
| BSUW23_RS02065 | 0.0417 | 0.423 | 0.0985 |
| BSUW23_RS02155 | 0.0757 | 0.5998 | 0.12613 |
| BSUW23_RS02255 | 0.0163 | 0.3906 | 0.04179 |
| BSUW23_RS02300 | 0.0285 | 0.262 | 0.1089 |
| BSUW23_RS02390 | 0.0277 | 0.333 | 0.08306 |
| BSUW23_RS02510 | 0.0313 | 0.4074 | 0.07684 |
| BSUW23_RS02570 | 0 | 0.1521 | 0 |
| BSUW23_RS02630 | 0.0256 | 0.2521 | 0.10151 |
| BSUW23_RS02715 | 0.0116 | 0.1787 | 0.06469 |
| BSUW23_RS02920 | 0.0648 | 0.4576 | 0.14165 |
| BSUW23_RS02950 | 0.0909 | 0.5225 | 0.17406 |
| BSUW23_RS03045 | 0.2755 | 0.0003 | 999 |
| BSUW23_RS03060 | 0.0333 | 0.2894 | 0.11499 |
| BSUW23_RS03110 | 0.0226 | 0.3194 | 0.07068 |
| BSUW23_RS03135 | 54.163 | 0.5202 | 104.12766 |
| BSUW23_RS03140 | 0.0968 | 1.2852 | 0.07532 |
| BSUW23_RS03185 | 0.031 | 0.3511 | 0.08817 |
| BSUW23_RS03260 | 0.1024 | 0.3953 | 0.25905 |
| BSUW23_RS03270 | 0.0077 | 0.2098 | 0.0369 |
| BSUW23_RS03280 | 0.0225 | 0.4735 | 0.04758 |
| BSUW23_RS03300 | 0.0401 | 0.4487 | 0.08948 |
| BSUW23_RS03310 | 0.0483 | 0.4273 | 0.11298 |
| BSUW23_RS05065 | 0.022 | 0.1348 | 0.1631 |
| BSUW23_RS05080 | 0 | 0.0245 | 0 |
| BSUW23_RS05085 | 0.0497 | 0.3002 | 0.16569 |
| BSUW23_RS05110 | 0.1574 | 0.6013 | 0.2618 |
| BSUW23_RS05210 | 0.0451 | 0.3462 | 0.13016 |
| BSUW23_RS05235 | 0.0406 | 0.1597 | 0.25422 |
| BSUW23_RS05250 | 0.0109 | 0.3452 | 0.0316 |
| BSUW23_RS05265 | 0.2376 | 0.297 | 0.750485 |
| BSUW23_RS05385 | 0.0355 | 0.3737 | 0.09487 |
| BSUW23_RS05430 | 0.01035 | 0.07665 | 0.131905 |
| BSUW23_RS05450 | 0.0584 | 0.2871 | 0.20348 |
| BSUW23_RS05490 | 0.0401 | 0.3472 | 0.11556 |
| BSUW23_RS05520 | 0.08 | 0.4032 | 0.19836 |
| 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_RS05680 | 0.0323 | 0.4005 | 0.08061 |
| BSUW23_RS05715 | 0.0237 | 0.2847 | 0.08343 |
| BSUW23_RS05835 | 0.0437 | 0.3702 | 0.11805 |
| BSUW23_RS05920 | 0.0205 | 0.1914 | 0.10709 |
| BSUW23_RS06010 | 0.0834 | 0.1848 | 0.45121 |
| BSUW23_RS06065 | 0.13925 | 0.58565 | 0.23653 |
| BSUW23_RS06070 | 0.0159 | 0.3852 | 0.04117 |
| BSUW23_RS06075 | 0.0222 | 0.3948 | 0.05627 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|---------|--------------------|--------------------|
| BSUW23_RS06140 | 0.0193 | 0.4649 | 0.04143 |
| BSUW23_RS06180 | 0.0189 | 0.3013 | 0.06272 |
| BSUW23_RS06220 | 0.0655 | 0.2623 | 0.2497 |
| BSUW23_RS06235 | 0.2786 | 0.4036 | 0.69027 |
| BSUW23_RS06375 | 0.0658 | 0.3514 | 0.18717 |
| BSUW23_RS06420 | 0.0212 | 0.1506 | NA |
| BSUW23_RS06430 | 0.052 | 0.3468 | 0.14985 |
| BSUW23_RS06435 | 0.0376 | 0.2474 | 0.1519 |
| BSUW23_RS06465 | 0.0351 | 0.3837666666666667 | 0.0867233333333333 |
| BSUW23_RS06490 | 0.0356 | 0.4432 | 0.08043 |
| BSUW23_RS06535 | 0.0162 | 0.2772 | 0.05846 |
| BSUW23_RS06545 | 0.0199 | 0.4057 | 0.04911 |
| BSUW23_RS06620 | 1.60974 | 2.78546 | 201.089488 |
| BSUW23_RS06635 | 0.0627 | 0.5324 | 0.11769 |
| BSUW23_RS06740 | 0.0718 | 0.3971 | 0.18077 |
| BSUW23_RS06775 | 0 | 0.2026 | 0 |
| BSUW23_RS06945 | 0.0443 | 0.2293 | 0.19326 |
| BSUW23_RS06970 | 0.0731 | 3.4346 | 0.02127 |
| BSUW23_RS07030 | 0.0879 | 0.2786 | 0.31546 |
| 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 | 0.0765 | 0.3272 | 0.23385 |
| BSUW23_RS07255 | 0.0646 | 0.396 | 0.16313 |
| BSUW23_RS07280 | 0.0232 | 0.537 | 0.04317 |
| BSUW23_RS07300 | 0.0598 | 0.5252 | 0.11393 |
| BSUW23_RS07305 | 0.0149 | 0.4077 | 0.03649 |
| BSUW23_RS07375 | 0.0425 | 0.4329 | 0.09814 |
| BSUW23_RS07410 | 0.0174 | 0.2757 | 0.06322 |
| BSUW23_RS07415 | 0.015 | 0.4129 | 0.03627 |
| BSUW23_RS07435 | 0.0109 | 0.3146 | 0.03476 |
| BSUW23_RS07440 | 0.051 | 0.4306 | 0.11842 |
| BSUW23_RS07455 | 0.0244 | 0.3167 | 0.07699 |
| BSUW23_RS07500 | 0.0074 | 0.2428 | 0.03041 |
| BSUW23_RS07585 | 0.0077 | 0.0644 | 0.11921 |
| BSUW23_RS07600 | 0.0481 | 0.3123 | 0.15412 |
| BSUW23_RS07625 | 0.0257 | 0.3189 | 0.0807 |
| BSUW23_RS07640 | 0.0083 | 0.2035 | 0.04082 |
| BSUW23_RS07645 | 0.0051 | 0.1661 | 0.03073 |
| BSUW23_RS07695 | 0.0967 | 1.3741 | 0.07037 |
| BSUW23_RS07850 | 0.0259 | 0.5618 | 0.04617 |
| BSUW23_RS07870 | 0.0226 | 0.3198 | 0.07066 |
| BSUW23_RS07890 | 0.0368 | 0.2918 | 0.12598 |
| BSUW23_RS07950 | 0.0663 | 0.2611 | 0.25386 |
| BSUW23_RS07995 | 0.0176 | 0.4316 | 0.04079 |
| BSUW23_RS08040 | 0.011 | 0.1526 | 0.07192 |
| BSUW23_RS08075 | 0.0134 | 0.2679 | 0.05007 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|---------------------|--------------------|----------|
| BSUW23_RS08095 | 0.09705 | 0.4309 | 0.267435 |
| BSUW23_RS08140 | 0.0151 | 0.3075 | 0.04922 |
| BSUW23_RS08260 | 0.0244 | 0.2866 | 0.08519 |
| BSUW23_RS08330 | 0.016 | 0.3253 | 0.04925 |
| BSUW23_RS08715 | 0 | 0.0214 | 0 |
| BSUW23_RS08835 | 0.0042 | 0.0285 | 0.14773 |
| 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 | 0.0212 | 0.2898 | 0.07322 |
| BSUW23_RS09205 | 11.1831 | 25.2668 | 0.4426 |
| BSUW23_RS09335 | 0.7469 | 1.38295 | 0.54673 |
| BSUW23_RS09410 | 0.0165 | 0.3904 | 0.04225 |
| BSUW23_RS09415 | 0.04095 | 0.314 | 0.13201 |
| BSUW23_RS09465 | 0.0054 | 0.402 | 0.01351 |
| BSUW23_RS09505 | 0.01 | 0.2735 | 0.03653 |
| BSUW23_RS09585 | 0.025 | 0.3192 | 0.07838 |
| BSUW23_RS09600 | 0.0283 | 0.2231 | 0.12668 |
| BSUW23_RS09625 | 0.039 | 0.3928 | 0.09922 |
| BSUW23_RS09635 | 0.0392 | 0.3651 | 0.10733 |
| BSUW23_RS09645 | 0.0288 | 0.5873 | 0.04903 |
| BSUW23_RS09670 | 0.03833333333333333 | 0.3890666666666667 | 0.10161 |
| BSUW23_RS09710 | 0.010725 | 0.29875 | 0.03438 |
| BSUW23_RS10035 | 0.0183 | 0.2948 | 0.0621 |
| BSUW23_RS14235 | 0.0293 | 0.4903 | 0.05968 |
| BSUW23_RS14305 | 0.0365 | 0.437 | 0.08358 |
| 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_RS14430 | 0.0032 | 0.0875 | 0.03695 |
| BSUW23_RS14490 | 0.0132 | 0.4432 | 0.0297 |
| BSUW23_RS14505 | 0 | 0.2085 | 0 |
| BSUW23_RS14570 | 0.0717 | 0.4696 | 0.15262 |
| BSUW23_RS14640 | 0.0086 | 0.2239 | 0.0383 |
| BSUW23_RS14650 | 0.021 | 0.3223 | 0.06518 |
| BSUW23_RS14655 | 0.0435 | 0.3977 | 0.10942 |
| BSUW23_RS14670 | 0.0223 | 0.0956 | 0.23322 |
| BSUW23_RS14700 | 0 | 0.2244 | 0 |
| BSUW23_RS14730 | 0.0122 | 0.2254 | 0.05428 |
| BSUW23_RS14765 | 0.0355 | 0.3415 | 0.10395 |
| BSUW23_RS14780 | 0.1974 | 0.2494 | 0.79141 |
| BSUW23_RS14890 | 0.014 | 0.3483 | 0.04019 |
| BSUW23_RS14900 | 0.12345 | 0.6378 | 0.18102 |
| BSUW23_RS14975 | 0.0196 | 0.2859 | 0.06847 |
| BSUW23_RS15085 | 0.0199 | 0.3177 | 0.06257 |
| BSUW23_RS15110 | 31.8042 | 27.47955 | 11.63866 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|--------------------|--------------------|--------------------|
| BSUW23_RS15160 | 0.0381 | 0.3479 | 0.10954 |
| BSUW23_RS15195 | 0 | 0.0432 | 0 |
| BSUW23_RS15200 | 0.1094 | 0.5195 | 0.2106 |
| BSUW23_RS15340 | 0 | 0.1999 | 0 |
| BSUW23_RS15345 | 0 | 0.0441 | 0 |
| BSUW23_RS15350 | 0.0056 | 0.2952 | 0.01891 |
| BSUW23_RS15360 | 0.0152 | 0.2722 | 0.05575 |
| 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_RS15665 | 0.0183 | 0.364 | 0.05019 |
| BSUW23_RS15710 | 0.0129 | 0.3355 | 0.03845 |
| 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_RS15990 | 0.0318 | 0.3558 | 0.08947 |
| BSUW23_RS16090 | 0.0159 | 0.7237 | 0.022 |
| BSUW23_RS16100 | 0.0065 | 0.491 | 0.01324 |
| BSUW23_RS16160 | 0.02395 | 0.2638 | 0.099875 |
| 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 | 0.0001 | 0 |
| BSUW23_RS16285 | 0.0325 | 0.2709 | 0.1199 |
| BSUW23_RS16330 | 0.0414 | 0.376 | 0.11014 |
| BSUW23_RS16460 | 0 | 0 | 0 |
| BSUW23_RS16660 | 0.0183 | 0.397 | 0.04607 |
| BSUW23_RS16665 | 0.0355 | 0.3089 | 0.11482 |
| BSUW23_RS16670 | 0.0212 | 0.3757 | 0.05647 |
| BSUW23_RS16680 | 0.0064 | 0.0741 | 0.08595 |
| BSUW23_RS16685 | 0.0439 | 0.3972 | 0.11056 |
| BSUW23_RS16720 | 0.0288 | 0.2007 | 0.14348 |
| BSUW23_RS16790 | 0.0211 | 0.1608 | 0.13134 |
| BSUW23_RS16795 | 0 | 0.1425 | 0 |
| BSUW23_RS16815 | 0.0250666666666667 | 0.3395666666666667 | 0.0750666666666667 |
| BSUW23_RS16840 | 1.1064 | 7.0123 | 0.15778 |
| BSUW23_RS16890 | 6.1024625 | 57.997375 | 0.271995 |
| BSUW23_RS16950 | 0.0156 | 0.3395 | 0.04583 |
| BSUW23_RS16960 | 0.0226 | 0.3686 | 0.0613 |
| BSUW23_RS17175 | 0.07705 | 0.41435 | 0.19646 |
| BSUW23_RS17185 | 0.0169 | 0.3769 | 0.04494 |
| BSUW23_RS17210 | 0.1796 | 0.7544 | 0.23812 |
| BSUW23_RS17235 | 0.0914 | 0.3587 | 0.25481 |
| BSUW23_RS17395 | 0.0151 | 0.3996 | 0.03773 |
| BSUW23_RS17405 | 0.0269 | 0.3393 | 0.07919 |
| BSUW23_RS17420 | 0.0182666666666667 | 0.1927666666666667 | 0.0995033333333333 |
| BSUW23_RS17425 | 0.05105 | 0.19005 | 0.304185 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|-------------------|-------------------|--------------------|
| BSUW23_RS17600 | 0.0286 | 0.2608 | 0.10955 |
| BSUW23_RS17690 | 0.01 | 0.3552 | 0.02812 |
| BSUW23_RS17775 | 0.9453 | 0.4579 | 2.0645 |
| BSUW23_RS17790 | 0 | 0.1815 | 0 |
| BSUW23_RS17795 | 0.0071 | 0.2812 | 0.02523 |
| BSUW23_RS17840 | 0.0132 | 0.3136 | 0.04206 |
| BSUW23_RS17865 | 0.0308 | 0.5463 | 0.0563 |
| BSUW23_RS18030 | 0.0281 | 0.3005 | 0.09345 |
| BSUW23_RS18035 | 0.024 | 0.3034 | 0.07903 |
| BSUW23_RS18080 | 0.0096 | 0.2372 | 0.04056 |
| BSUW23_RS18100 | 0.0374 | 0.3348 | 0.11162 |
| BSUW23_RS18125 | 0.0449 | 0.408 | 0.11014 |
| BSUW23_RS18155 | 0.02095 | 0.19415 | 0.1344 |
| BSUW23_RS18185 | 0.0166 | 0.4545 | 0.03655 |
| BSUW23_RS18195 | 0.0069 | 0.2474 | 0.02784 |
| BSUW23_RS18295 | 0.0347 | 0.4006 | 0.08669 |
| BSUW23_RS18340 | 0.0137 | 0.3611 | 0.03799 |
| BSUW23_RS18400 | 0.0324 | 0.4052 | 0.08001 |
| BSUW23_RS18435 | 0.1005 | 0.2267 | 0.44349 |
| BSUW23_RS18455 | 0.022 | 0.2486 | 0.08838 |
| BSUW23_RS18655 | 0.0247 | 0.4035 | 0.06113 |
| BSUW23_RS18700 | 0.6011 | 49.5712 | 0.01213 |
| BSUW23_RS18705 | 0.0143 | 0.2787 | 0.05118 |
| BSUW23_RS18765 | 0.031 | 0.4937 | 0.06287 |
| BSUW23_RS18790 | 0.6158 | 4.8658 | 0.12656 |
| BSUW23_RS18810 | 0.8219 | 27.8359 | 0.02953 |
| BSUW23_RS18830 | 0.7262 | 23.3052 | 0.03116 |
| BSUW23_RS18835 | 0.5263 | 6.4637 | 0.08143 |
| BSUW23_RS18905 | 14.96203333333333 | 75.06743333333333 | 0.6660333333333333 |
| BSUW23_RS18910 | 8.58878 | 114.17544 | 0.237736 |
| BSUW23_RS18930 | 0.7499 | 135.8728 | 0.00552 |
| BSUW23_RS18995 | 0.0418 | 0.3366 | 0.12431 |
| BSUW23_RS19025 | 0.0408 | 0.2912 | 0.13997 |
| BSUW23_RS19035 | 0.0423 | 0.4276 | 0.09898 |
| BSUW23_RS19070 | 0.0375 | 0.3168 | 0.11838 |
| BSUW23_RS19155 | 19.27975 | 0.0193 | 999 |
| BSUW23_RS19230 | 0.0541 | 0.3548 | 0.15248 |
| BSUW23_RS19235 | 0.0123 | 0.4017 | 0.03059 |
| BSUW23_RS19250 | 0.0339 | 0.1533 | 0.22113 |
| BSUW23_RS19270 | 0.01 | 0.5503 | 0.01811 |
| BSUW23_RS19320 | 0 | 0 | 0 |
| 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 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|----------------|------------------|------------------|------------------|
| BSUW23_RS19500 | 0.044 | 0.3089 | 0.14237 |
| BSUW23_RS19540 | 0.0397 | 0.28 | 0.14196 |
| BSUW23_RS19545 | 0.0484 | 0.339 | 0.14275 |
| BSUW23_RS19630 | 0.0254 | 0.3663 | 0.06924 |
| BSUW23_RS19735 | 0.0091 | 0.0496 | 0.18346 |
| BSUW23_RS19790 | 0.0991 | 0.3675 | 0.26978 |
| BSUW23_RS19795 | 0.1038 | 0.3 | 0.34598 |
| BSUW23_RS19860 | 0.006 | 0.2196 | 0.02729 |
| BSUW23_RS19870 | 0 | 0.0504 | 0 |
| BSUW23_RS19900 | 0.0318 | 0.3832 | 0.08287 |
| BSUW23_RS19920 | 0.0099 | 0.2459 | 0.04006 |
| BSUW23_RS19925 | 0.0346 | 0.3642 | 0.09494 |
| BSUW23_RS19940 | 0.0405 | 0.3331 | 0.1215 |
| BSUW23_RS20045 | 0.0444 | 0.3309 | 0.13424 |
| BSUW23_RS20075 | 0.0268 | 0.2733 | 0.09818 |
| BSUW23_RS20145 | 0.0185 | 0.2746 | 0.06753 |
| BSUW23_RS20160 | 0.0217 | 0.2821 | 0.07691 |
| BSUW23_RS20210 | 0.0301 | 0.3715 | 0.08099 |
| BSUW23_RS20215 | 0.0105 | 0.2853 | 0.03695 |
| BSUW23_RS20235 | 0.022 | 0.4281 | 0.05144 |
| BSUW23_RS20275 | 0.0021 | 0.269 | 0.00774 |
| BSUW23_RS20365 | 0.0988 | 0.4072 | 0.24262 |
| BSUW23_RS20385 | 0.0369 | 0.3479 | 0.10599 |
| BSUW23_RS20425 | 0.0107 | 0.3294 | 0.03246 |
| BSUW23_RS20460 | 0.0667 | 0.3108 | 0.21446 |
| BSUW23_RS20465 | 0.0402 | 0.3498 | 0.11483 |
| BSUW23_RS20550 | 0.0422 | 0.4037 | 0.10461 |
| BSUW23_RS20570 | 0.0604 | 0.1684 | 0.3587 |
| BSUW23_RS20610 | 0.0146 | 0.3202 | 0.04549 |
| BSUW23_RS20620 | 8.82037272727273 | 50.7586818181818 | 107.167233636364 |
| BSUW23_RS20625 | 0.1005 | 0.335 | 0.30015 |
| BSUW23_RS20630 | 0.0357 | 0.451 | 0.07913 |
| BSUW23_RS20645 | 0.0388 | 0.3507 | 0.11067 |
| BSUW23_RS20655 | 2.24983333333333 | NA | 0.27217 |
| BSUW23_RS20660 | 1.401125 | 10.1235 | 249.8847425 |
| BSUW23_RS20670 | 15.6689666666667 | 7.93876666666667 | 333.133483333333 |
| BSUW23_RS20675 | 0.1258 | 0.9287 | 0.13542 |
| I33_RS01235 | 0.166 | 0.07215 | 500.044155 |
| I33_RS01240 | 0.0665 | 0.3698 | 0.17972 |
| I33_RS01245 | 0.035 | 0.4612 | 0.07595 |
| I33_RS01260 | 0.0172 | 0.2528 | 0.07447 |
| I33_RS01265 | 0.0435 | 0.4071 | 0.1068 |
| I33_RS01270 | 7.97124615384615 | 66.9100692307692 | 2.58995538461538 |
| I33_RS01275 | NA | NA | NA |
| I33_RS01280 | 0.0693 | 0.5718 | 0.12112 |
| I33_RS01285 | 0.0021 | 0.3274 | 0.00639 |
| I33_RS01290 | 0.125 | 0.3618 | 0.34544 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|-------------------|--------------------|
| I33_RS01295 | 0.0701 | 0.3266 | 0.21452 |
| I33_RS01330 | 0.1235 | 0.33725 | 0.41309 |
| I33_RS01335 | 0.0198 | 0.3456 | 0.05726 |
| I33_RS01340 | 0.0523 | 0.25325 | 0.219205 |
| I33_RS01345 | 0.0343 | 0.3511 | 0.09783 |
| I33_RS01355 | 0.028 | 0.2826 | 0.09906 |
| I33_RS01360 | 0.02415 | 0.3672 | 0.06658 |
| I33_RS01365 | 0.0721 | 0.27585 | 0.338815 |
| I33_RS01380 | 0.0094 | 0.2362 | 0.03966 |
| I33_RS01385 | 0.0179 | 0.336 | 0.05325 |
| I33_RS01400 | 0.0397 | 0.2476 | 0.16054 |
| I33_RS01405 | 0.0337 | 0.415366666666667 | 0.0717433333333333 |
| I33_RS01410 | 0.0241 | 0.2965 | 0.08127 |
| I33_RS01415 | 0.0472 | 0.3286 | 0.14355 |
| I33_RS01425 | 0.0277 | 0.3361 | 0.08229 |
| 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 | 0.0131 | 0.243 | 0.054 |
| I33_RS01480 | 0.0102 | 0.2389 | 0.04281 |
| I33_RS01485 | 0.0197 | 0.3569 | 0.05524 |
| I33_RS01490 | 0.126 | 0.4714 | 0.26731 |
| I33_RS01520 | 0.018 | 0.3001 | 0.05989 |
| I33_RS01525 | 0.0386 | 0.3169 | 0.12166 |
| I33_RS01530 | 0.0355 | 0.2549 | 0.1392 |
| I33_RS01545 | NA | NA | NA |
| I33_RS01555 | 0.0173 | 0.3578 | 0.04842 |
| I33_RS01560 | 0.027 | 0.3656 | 0.07384 |
| I33_RS01570 | 0.038 | 0.2608 | 0.1458 |
| I33_RS01575 | 0.0386 | 0.3148 | 0.122035 |
| I33_RS01595 | 0.0512 | 0.2278 | 0.22496 |
| I33_RS01600 | 0.0311 | 0.4377 | 0.07098 |
| I33_RS01615 | 0.0933 | 0.3123 | 0.29878 |
| I33_RS01620 | 0.30065 | 0.19425 | 499.641045 |
| I33_RS01625 | 0.05535 | 0.29915 | 0.181365 |
| I33_RS01630 | 0.0263 | 0.3393 | 0.0774 |
| I33_RS01635 | 0.0391 | 0.3397 | 0.11522 |
| I33_RS01645 | 0.08955 | 0.23335 | 0.32505 |
| I33_RS01650 | 0.0405 | 0.2566 | 0.15801 |
| I33_RS01655 | 0.0155 | 0.3067 | 0.04748 |
| I33_RS01660 | 0.0539 | 0.4613 | 0.11683 |
| I33_RS01665 | 0.0146 | 0.26125 | 0.05553 |
| I33_RS01670 | 0.0048 | 0.1817 | 0.02637 |
| I33_RS01685 | 0.0193 | 0.2705 | 0.07136 |
| I33_RS01695 | 0.0157 | 0.3354 | 0.04673 |
| I33_RS01700 | 0.05855 | 0.2323 | 0.268675 |
| I33_RS01705 | 0.03915 | 0.2216 | 0.278515 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|--------------------|
| I33_RS01710 | 0.0168 | 0.28245 | 0.054085 |
| I33_RS01720 | 0.0334 | 0.5079 | 0.06568 |
| I33_RS01725 | 0.0208 | 0.3557 | 0.05845 |
| 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 | 0.083 | 0.411 | 0.20196 |
| I33_RS01805 | 0.0477 | 0.2857 | 0.16708 |
| I33_RS01810 | 0.0262 | 0.3096 | 0.08466 |
| I33_RS01815 | 0.0232 | 0.2567 | 0.09566 |
| I33_RS01825 | 0.017 | 0.3108 | 0.0509 |
| I33_RS01830 | 0.0059 | 0.202 | 0.02904 |
| I33_RS01835 | 0.033775 | 0.30535 | 0.10031 |
| I33_RS01840 | 0.03835 | 0.4508 | 0.08035 |
| I33_RS01845 | 0.0681 | 0.3816 | 0.17834 |
| I33_RS01850 | 0.0128 | 0.1769 | 0.07226 |
| I33_RS01860 | 0.0137 | 0.2811 | 0.04862 |
| I33_RS01875 | 0.0423 | 0.4322 | 0.09787 |
| I33_RS01895 | 0.0836 | 0.3588 | 0.23287 |
| I33_RS01905 | 0.0145 | 0.3931 | 0.03694 |
| I33_RS01915 | 0.1700333333333333 | 0.2788 | 0.6003533333333333 |
| I33_RS01920 | 0.0164 | 0.3245 | 0.05064 |
| I33_RS01930 | 0.0124 | 0.2958 | 0.04204 |
| I33_RS01935 | 0.0349142857142857 | 0.280171428571429 | 0.122444285714286 |
| I33_RS01940 | 0.0386 | 0.3424 | 0.112505 |
| I33_RS01995 | 0.0268 | 0.3314 | 0.08089 |
| I33_RS02010 | 0.06835 | 0.30975 | 0.213035 |
| I33_RS02030 | 0.0242 | 0.2138 | 0.11336 |
| 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 | 0.0176 | 0.308 | 0.05708 |
| I33_RS02060 | 0.084 | 0.5274 | 0.15935 |
| I33_RS02065 | 0.0334 | 0.2437 | 0.13702 |
| I33_RS02075 | 0.0627 | 0.4989 | 0.1257 |
| I33_RS02080 | 0.0494 | 0.5764 | 0.08574 |
| I33_RS02100 | 0.077 | 0.5509 | 0.13969 |
| I33_RS02105 | 0.0203 | 0.3062 | 0.06637 |
| I33_RS02110 | 0.037 | 0.3362 | 0.115555 |
| I33_RS02115 | 0.0767333333333333 | 0.1947 | 0.39111 |
| 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 | 0.1745 | 0.053215 |
| I33_RS02160 | 0.0095 | 0.42165 | 0.031375 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| I33_RS02165 | 0.0201666666666667 | 0.3122 | 0.04022 |
| I33_RS02175 | 0.0186 | 0.1718 | 0.10804 |
| I33_RS02180 | 0.0228 | 0.2915 | 0.07833 |
| I33_RS02185 | 0.017 | 0.2718 | 0.0566966666666667 |
| I33_RS02210 | 0.0082 | 0.3666 | 0.02246 |
| I33_RS02220 | 0.0449 | 0.5539 | 0.0817466666666667 |
| I33_RS02225 | 0.0372 | 0.298 | 0.1248 |
| 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 | 0.0407 | 0.4421 | 0.09207 |
| I33_RS02260 | 0.0233 | 0.3702 | 0.06287 |
| I33_RS02265 | 0.0634 | 0.3519 | 0.1803 |
| I33_RS02270 | 0.0869 | 0.3892 | 0.22334 |
| I33_RS02280 | 0.0147 | 0.2543 | 0.05789 |
| I33_RS02290 | 0.0381 | 0.2245 | 0.1698 |
| I33_RS02295 | 0.0341 | 0.40805 | 0.0893 |
| I33_RS02300 | 0.0445 | 0.3539 | 0.1257 |
| I33_RS02305 | 0.0340333333333333 | 0.2836666666666667 | 0.1175733333333333 |
| I33_RS02310 | 0.01505 | 0.28255 | 0.05392 |
| I33_RS02315 | 0.0199 | 0.3186 | 0.06231 |
| I33_RS02325 | 0.0381 | 0.3861 | 0.0988 |
| I33_RS02350 | 0.0299 | 0.3048 | 0.09809 |
| I33_RS02355 | 0.0406 | 0.3724 | 0.1159 |
| I33_RS02360 | 0.1195 | 0.6464 | 0.18483 |
| I33_RS02365 | 0.0161 | 0.2443 | 0.06601 |
| I33_RS02370 | 0.0146 | 0.3095 | 0.04711 |
| I33_RS02450 | 0.0163 | 0.2438 | 0.06262 |
| I33_RS02455 | 0.0637 | 0.4107 | 0.15512 |
| I33_RS02460 | 0.01255 | 0.3787 | 0.03008 |
| I33_RS02465 | 0.1667 | 0.3102 | 0.53749 |
| I33_RS02470 | 0.0342 | 0.3167 | 0.10812 |
| I33_RS02480 | 0.0121 | 0.3085 | 0.03935 |
| I33_RS02485 | 0.0243 | 0.3095 | 0.07836 |
| I33_RS02490 | 0.0081 | 0.207 | 0.03912 |
| I33_RS02505 | 0.02225 | 0.39655 | 0.056665 |
| I33_RS02510 | 0.0278 | 0.3926 | 0.07073 |
| I33_RS02520 | 0.0097 | 0.2484 | 0.036305 |
| I33_RS02525 | 0.0124 | 0.2039 | 0.06091 |
| I33_RS02535 | 0.0296 | 0.3126 | 0.09476 |
| I33_RS02540 | 0.0028 | 0.1942 | 0.01467 |
| I33_RS02560 | 0.0492 | 0.3312 | 0.14851 |
| 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 | 0.0001 | 0 |
| I33_RS02605 | 0 | 0.0263 | 0 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|------------------|
| I33_RS02610 | 0.0067 | 0.329975 | 0.0200875 |
| I33_RS02615 | 0.037 | 0.4138 | 0.08929 |
| I33_RS02670 | 0.0181 | 0.3225 | 0.05611 |
| I33_RS02680 | 0.0224 | 0.388 | 0.05785 |
| I33_RS02840 | NA | NA | NA |
| I33_RS02850 | 26.865 | 0.0269 | 999 |
| I33_RS02855 | 7.639683333333333 | 44.58975 | 333.229591666667 |
| I33_RS02860 | 17.1491 | 7.0233 | 21.1054166666667 |
| I33_RS02880 | 0.1105 | 0.4615 | 0.23936 |
| I33_RS02885 | 0.50945 | 0.75375 | 0.7364925 |
| I33_RS02900 | 0.0482 | 0.4007 | 0.12037 |
| I33_RS02910 | 0.0816 | 0.3972 | 0.21114 |
| I33_RS02920 | 0.0351 | 0.3375 | 0.10403 |
| I33_RS02935 | 0.0677 | 0.5403 | 0.12537 |
| I33_RS02940 | 0.0381 | 0.4206 | 0.09056 |
| I33_RS02950 | 0.122 | 0.6703 | 0.18197 |
| I33_RS02960 | 0.1261 | 0.6061 | 0.2081 |
| I33_RS02975 | 0.0571 | 0.4934 | 0.1157 |
| I33_RS02985 | 0.0629 | 0.4166 | 0.15096 |
| I33_RS03015 | 0.0412 | 0.2613 | 0.15775 |
| I33_RS03020 | 0.0335 | 0.3912 | 0.08562 |
| I33_RS03025 | NA | NA | NA |
| I33_RS03035 | 0.04425 | 0.45105 | 0.099165 |
| I33_RS03040 | 0.0639 | 0.3804 | 0.16794 |
| I33_RS03045 | 0.0342 | 0.3895 | 0.08781 |
| I33_RS03055 | 2.3147125 | 7.4151 | 125.7648725 |
| I33_RS03060 | 13.830433333333333 | 12.015783333333333 | 168.067551666667 |
| I33_RS03065 | 0.0874 | 0.3985 | 0.2193 |
| I33_RS03070 | 0.058 | 0.237566666666667 | 0.16624 |
| I33_RS03080 | 0.031 | 0.4921 | 0.06307 |
| I33_RS03085 | 0.0519 | 0.4012 | 0.12926 |
| I33_RS03090 | 0.0083 | 0.302 | 0.0276 |
| I33_RS03095 | 0.0814 | 0.2674 | 0.30435 |
| I33_RS03100 | 0.0476 | 0.3468 | 0.13721 |
| I33_RS03120 | 0.0143 | 0.2221 | 0.085205 |
| I33_RS03145 | 0.0203 | 0.2881 | 0.07052 |
| I33_RS03150 | 0.0919 | 1.4666 | 0.06266 |
| I33_RS03155 | 0.0572 | 0.3987 | 0.14344 |
| I33_RS03160 | 0.1425 | 0.3837 | 0.37143 |
| I33_RS03165 | 0.0263 | 0.4669 | 0.05623 |
| I33_RS03170 | 0.1199 | 0.3516 | 0.34112 |
| I33_RS03175 | 0.1027 | 0.3855 | 0.26649 |
| I33_RS03215 | 0.0163 | 0.2691 | 0.06048 |
| I33_RS03225 | 0.0612 | 0.3849 | 0.15891 |
| I33_RS03235 | 0.0531 | 0.3725 | 0.14253 |
| I33_RS04795 | 0.0359 | 0.3458 | 0.10376 |
| I33_RS04800 | 0.0336 | 0.184 | 0.18241 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|--------------------|
| I33_RS04805 | 0.0884 | 0.2967 | 0.29787 |
| I33_RS04810 | 0.0272 | 0.406 | 0.06695 |
| 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 | 0.0299 | 0.4352 | 0.06861 |
| I33_RS04865 | 0.0201 | 0.3283 | 0.06134 |
| I33_RS04870 | 0.0702 | 0.29455 | 0.219515 |
| I33_RS04875 | 0.0655 | 0.374 | 0.17521 |
| I33_RS04880 | 0.0071 | 0.1709 | 0.04177 |
| I33_RS04885 | 0.0384 | 0.2899 | 0.13253 |
| I33_RS04890 | 0.0105 | 0.3966 | 0.0264 |
| I33_RS04895 | 0.04408333333333333 | 0.3085166666666667 | 0.137845 |
| 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 | 0.03745 | 0.1996 | 0.1906 |
| I33_RS04945 | 0.04905 | 0.53375 | 0.09232 |
| I33_RS04950 | 0.0501 | 0.2828 | 0.17725 |
| I33_RS04955 | 0.0795 | 0.4506 | 0.17639 |
| I33_RS04965 | 0.0236 | 0.2919 | 0.08075 |
| I33_RS04970 | 0.0606 | 0.7369 | 0.08217 |
| I33_RS04975 | 0.1315 | 0.2969 | 0.44285 |
| I33_RS04980 | 16.670625 | 6.78815 | 15.387625 |
| I33_RS04985 | 0.1603 | 2.5983 | 0.06168 |
| I33_RS04990 | 0.0348 | 0.322 | 0.10815 |
| I33_RS05005 | 0.1134 | 0.3759333333333333 | 0.3327233333333333 |
| I33_RS05010 | 0.0288 | 0.0837 | 0.34428 |
| I33_RS05015 | 0.0222 | 0.4806 | 0.04617 |
| I33_RS05020 | 0.0035 | 0.3328 | 0.01059 |
| I33_RS05030 | 0.00925 | 0.28485 | 0.032335 |
| I33_RS05035 | 0.0267 | 0.465 | 0.05742 |
| I33_RS05040 | 0.0073 | 0.3162 | 0.02298 |
| I33_RS05045 | 0.0107 | 0.2947 | 0.03618 |
| I33_RS05060 | 0.0266 | 0.3356 | 0.07933 |
| I33_RS05075 | 0.0428 | 0.38825 | 0.112995 |
| I33_RS05080 | 0.0298 | 0.2991 | 0.09968 |
| I33_RS05085 | 0.04765 | 0.270875 | 0.1878275 |
| I33_RS05090 | 0.02205 | 0.30005 | 0.07468 |
| I33_RS05110 | 0.0195 | 0.3067 | 0.06369 |
| I33_RS05120 | 0.028375 | 0.30475 | 0.0722775 |
| I33_RS05130 | 0.0289 | 0.399 | 0.07232 |
| I33_RS05135 | 0.0194 | 0.3371 | 0.0577 |
| I33_RS05145 | 0.0107 | 0.3064 | 0.03501 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|--------------------|
| I33_RS05150 | 0.0604 | 0.3255 | 0.181365 |
| I33_RS05160 | 0.0431 | 0.3151 | 0.13692 |
| I33_RS05165 | 0.0054 | 0.2119 | 0.02539 |
| I33_RS05170 | 0.0096 | 0.17145 | 0.03841 |
| I33_RS05175 | 0.0378 | 0.3348 | 0.11278 |
| I33_RS05180 | 0.0179 | 0.1899 | 0.09432 |
| I33_RS05185 | 0.0181 | 0.2252 | 0.08023 |
| I33_RS05190 | 0.0034 | 0.061 | 0.05637 |
| I33_RS05200 | 0.0185 | 0.2563 | 0.07216 |
| I33_RS05205 | 0.06983333333333333 | 0.2584666666666667 | 0.2668066666666667 |
| 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_RS05245 | 0.044 | 0.29405 | 0.178305 |
| I33_RS05250 | 0.0245 | 0.3176 | 0.07712 |
| I33_RS05265 | 0.0973 | 0.3228 | 0.3014 |
| I33_RS05285 | 0.0358 | 0.3749 | 0.09549 |
| I33_RS05295 | 0.0153 | 0.3474 | 0.04417 |
| I33_RS05310 | 0.02295 | 0.2205 | 0.07893 |
| I33_RS05325 | 0.0117 | 0.3721 | 0.03144 |
| I33_RS05330 | 0.0209 | 0.2895 | 0.0723 |
| I33_RS05335 | 0.0137 | 0.262 | 0.0523 |
| I33_RS05340 | 0.0457 | 0.3017 | 0.20015 |
| I33_RS05350 | 0.0714 | 0.1505 | 0.47432 |
| I33_RS05355 | 0.0181 | 0.3461 | 0.05285 |
| I33_RS05360 | 0.041 | 0.2911 | 0.14078 |
| I33_RS05365 | 0.0338 | 0.2187 | 0.15465 |
| I33_RS05370 | 0.0622 | 0.3079 | 0.20212 |
| I33_RS05380 | 0.1406 | 0.5656833333333333 | 0.1535633333333333 |
| I33_RS05385 | 0.0141 | 0.2091 | 0.06762 |
| I33_RS05390 | 0.0181 | 0.0949 | 0.191 |
| 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 | 0.0232 | 0.3396 | 0.0684 |
| I33_RS05435 | 0.03475 | 0.37575 | 0.09189 |
| 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 | 0.0199 | 0.4926 | 0.04043 |
| I33_RS05480 | 0.0169 | 0.2147 | 0.07851 |
| I33_RS05490 | 0.0415 | 0.4367 | 0.09503 |
| I33_RS05495 | 0.05485 | 0.43455 | 0.139275 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| 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 | 0.0487 | 0.3603 | 0.13512 |
| I33_RS05550 | 0.03265 | 0.2594 | 0.13259 |
| I33_RS05560 | 0.261 | 0.25915 | 1.17607 |
| I33_RS05570 | 0.0626 | 0.3133 | 0.183745 |
| I33_RS05575 | 0.0246 | 0.2809 | 0.08758 |
| I33_RS05580 | 0.019 | 0.3496 | 0.05422 |
| I33_RS05585 | 0.07175 | 0.38215 | 0.189145 |
| 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 | 0.033275 | 0.28855 | 0.118385 |
| I33_RS05620 | 0.0162 | 0.2228 | 0.07268 |
| I33_RS05625 | 0.0463666666666667 | 0.3579666666666667 | 0.1259933333333333 |
| I33_RS05630 | 0.02 | 0.294 | 0.06798 |
| I33_RS05645 | 0.0286 | 0.3485 | 0.08204 |
| I33_RS05660 | 0.0374 | 0.2122 | 0.17615 |
| I33_RS05670 | 0.026 | 0.2394 | 0.10868 |
| I33_RS05675 | 0.0313 | 0.2337 | 0.13379 |
| I33_RS05685 | 0.0725 | 0.35225 | 0.205105 |
| I33_RS05700 | 0.0152 | 0.2504 | 0.06052 |
| I33_RS05715 | 0.0191 | 0.3441 | 0.05546 |
| I33_RS05720 | 0.0328 | 0.3638 | 0.09005 |
| I33_RS05730 | 0.0217 | 0.3088 | 0.07026 |
| I33_RS05740 | 0.0484 | 0.335 | 0.14453 |
| I33_RS05750 | 0.0474 | 0.2177 | 0.21758 |
| I33_RS05755 | 0.0613 | 0.5877333333333333 | 0.1462433333333333 |
| I33_RS05760 | 0.0355 | 0.4825 | 0.0913 |
| 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_RS05795 | 0.0845 | 0.2936 | 0.28764 |
| I33_RS05800 | 0.02605 | 0.3786 | 0.06402 |
| I33_RS05820 | 0.0092 | 0.2837 | 0.03237 |
| I33_RS05830 | 0.0113 | 0.1725 | 0.06553 |
| I33_RS05840 | 0.0325 | 0.4311 | 0.07536 |
| I33_RS05845 | 0.0628 | 0.4447 | 0.1412 |
| I33_RS05855 | 0.0686 | 0.4343 | 0.15802 |
| I33_RS05860 | 0.0668 | 0.3693 | 0.18096 |
| I33_RS05865 | 0.0408 | 0.4404 | 0.0926 |
| I33_RS05870 | 0.03655 | 0.3386 | 0.11654 |
| I33_RS05880 | 0.0443 | 0.3217 | 0.13756 |
| I33_RS05885 | 0.0768 | 0.312 | 0.24626 |
| I33_RS05890 | 0.0298666666666667 | 0.3310333333333333 | 0.08495 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|-------------------|--------------------|
| I33_RS05895 | 0.02035 | 0.35435 | 0.059125 |
| I33_RS05900 | 0.1264 | 0.511 | 0.24741 |
| I33_RS05935 | 0.0214 | 0.3413 | 0.06261 |
| I33_RS05955 | 0.1492 | 3.5215 | 0.04238 |
| I33_RS05960 | 0.0418 | 0.3173 | 0.13161 |
| I33_RS05965 | 0.0052 | 0.1817 | 0.02864 |
| 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 | 0.034 | 0.2907 | 0.11712 |
| I33_RS05990 | 0.0304 | 0.2542 | 0.11953 |
| I33_RS06000 | 0.022 | 0.4137 | 0.05306 |
| I33_RS06005 | 0.0255 | 0.4014 | 0.06344 |
| I33_RS06010 | 0.0235 | 0.3708 | 0.06344 |
| 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 | 1.256166666666667 | 1.7901 | 0.351466666666667 |
| 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 | 0.0435 | 1.2136 | 0.03588 |
| I33_RS06105 | 0.0032 | 0.4087 | 0.00788 |
| I33_RS06110 | 0.0105 | 0.3061 | 0.03418 |
| I33_RS06120 | 0.0097 | 0.3711 | 0.02615 |
| I33_RS06130 | 0.0588 | 1.4538 | 0.04047 |
| 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 | 0.0728 | 0.3129 | 0.23271 |
| I33_RS06190 | 0.008733333333333333 | 0.176166666666667 | 0.0493633333333333 |
| I33_RS06195 | 0.0081 | 0.0467 | 0.17379 |
| I33_RS06215 | 0.0075 | 0.2747 | 0.02727 |
| I33_RS06225 | 0.0076 | 0.3405 | 0.02241 |
| I33_RS06235 | 0.0675 | 0.2084 | 0.32366 |
| I33_RS06245 | 0.03625 | 0.2286 | 0.212875 |
| I33_RS06270 | 0.0214 | 0.3547 | 0.06044 |
| I33_RS06280 | 0.0178 | 0.4309 | 0.04138 |
| I33_RS06295 | 0.014 | 0.2148 | 0.06532 |
| I33_RS06315 | 0.0234 | 0.3306 | 0.07071 |
| I33_RS06320 | 0.030925 | 0.193675 | 0.1515075 |
| I33_RS06325 | 1.4286454545454545 | 24.0289181818182 | 90.9281872727273 |
| I33_RS06330 | 0.3084 | 2.0472 | 0.11955 |
| I33_RS06335 | NA | 1.03234 | 0.158144 |
| I33_RS06340 | 0.0239 | 0.6292 | 0.03799 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS06350 | 0.0298 | 0.4556 | 0.06533 |
| I33_RS06365 | 0.021 | 0.22735 | 0.092615 |
| I33_RS06370 | 0.0154 | 0.3273 | 0.04706 |
| I33_RS06375 | 0.0187 | 0.3357 | 0.05561 |
| I33_RS06450 | 1.4434 | 26.91475 | 0.3054175 |
| I33_RS06455 | NA | NA | NA |
| I33_RS06460 | 3.43290909090909 | 29.6618090909091 | 1.10159727272727 |
| I33_RS06470 | 22.1454 | 1.6661 | 13.29161 |
| I33_RS06475 | 0.0514333333333333 | 0.236333333333333 | 0.20403 |
| I33_RS06480 | 0.0398 | 0.3771 | 0.10541 |
| I33_RS06485 | 0.057675 | 0.26525 | 0.458145 |
| I33_RS06490 | 0.0186 | 0.3532 | 0.05253 |
| I33_RS06495 | 0.04 | 0.2142 | 0.18671 |
| I33_RS06500 | 0.0791 | 0.4466 | 0.17702 |
| I33_RS06505 | 0.0727 | 0.45955 | 0.160725 |
| I33_RS06515 | 0.0227 | 0.3617 | 0.0629 |
| I33_RS06520 | 0.172866666666667 | 2.01246666666667 | 0.077296666666667 |
| I33_RS06525 | 0.0852 | 0.6019 | 0.14162 |
| I33_RS06535 | 0.0474 | 0.3425 | 0.13842 |
| I33_RS06540 | 0.028 | 0.3075 | 0.090365 |
| I33_RS06550 | 0.034 | 0.5355 | 0.06348 |
| I33_RS06555 | 0.02735 | 0.28 | 0.1069 |
| I33_RS06565 | 0.0528 | 0.4186 | 0.12622 |
| I33_RS06570 | 0.0376 | 0.284 | 0.13244 |
| I33_RS06575 | 0.0871 | 0.3204 | 0.27178 |
| I33_RS06590 | 0.0035 | 0.175 | 0.02002 |
| I33_RS06605 | 0.0289 | 0.3625 | 0.07982 |
| I33_RS06615 | 0.0122 | 0.2636 | 0.04618 |
| I33_RS06625 | 0.0407 | 0.3041 | 0.13392 |
| I33_RS06635 | 0.0404 | 0.2995 | 0.13477 |
| I33_RS06645 | 0.0242 | 0.3514 | 0.06874 |
| I33_RS06660 | 0.019 | 0.4523 | 0.04196 |
| I33_RS06665 | 0.0579 | 0.5209 | 0.11123 |
| I33_RS06680 | 0.020275 | 0.2341 | 0.0960175 |
| I33_RS06685 | 0.0024 | 0.151 | 0.01605 |
| I33_RS06690 | 0.0246 | 0.1973 | 0.12472 |
| I33_RS06700 | 0.0378 | 0.438 | 0.08627 |
| I33_RS06705 | 0.026 | 0.5843 | 0.04443 |
| I33_RS06710 | 0.0767 | 0.5619 | 0.13653 |
| I33_RS06720 | 0.02335 | 0.4787 | 0.05376 |
| I33_RS06725 | 0.048 | 0.326 | 0.14715 |
| I33_RS06735 | 0.0351 | 0.3476 | 0.10085 |
| I33_RS06745 | 0.0365 | 0.2886 | 0.12633 |
| I33_RS06750 | 0.0363 | 0.4613 | 0.07873 |
| I33_RS06755 | 0.0266 | 0.3516 | 0.07557 |
| I33_RS06760 | 0.0503 | 0.3366 | 0.14933 |
| I33_RS06765 | 0.0191 | 0.4062 | 0.04692 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|------------------|--------------------|
| I33_RS06770 | 0.0154 | 0.366 | 0.04196 |
| I33_RS06775 | 0.0213 | 0.1654 | 0.12874 |
| I33_RS06780 | 0.0241 | 0.27525 | 0.0689 |
| I33_RS06785 | 0.02275 | 0.23 | 0.118905 |
| I33_RS06790 | 0.0092 | 0.6666 | 0.01381 |
| I33_RS06815 | 0.1805 | 1.5574 | 0.11592 |
| I33_RS06820 | 0.0283 | 0.353 | 0.098485 |
| I33_RS06825 | 0.0193666666666667 | 0.3955 | 0.0494866666666667 |
| I33_RS06830 | 2.146475 | 420.845325 | 0.09503 |
| I33_RS06835 | 15.978975 | 4715.18191666667 | 9.3980875 |
| I33_RS06840 | NA | NA | NA |
| I33_RS06845 | 0.0676 | 0.4028 | 0.1678 |
| I33_RS06850 | 0.0521 | 0.3625 | 0.1563033333333333 |
| I33_RS06855 | 0.0257 | 0.1739 | 0.14784 |
| I33_RS06860 | 0.0192 | 0.2226 | 0.0862 |
| I33_RS06865 | 0.01095 | 0.28975 | 0.03407 |
| I33_RS06890 | 0.0216 | 0.3865 | 0.056 |
| I33_RS06910 | 0.0205 | 0.2359 | 0.08689 |
| I33_RS06920 | 0.0185 | 0.4645 | 0.03993 |
| I33_RS06925 | 0.0542 | 0.3024 | 0.17934 |
| I33_RS06930 | 0.0628 | 0.4758 | 0.13199 |
| I33_RS06940 | 0.0123 | 0.23705 | 0.05211 |
| I33_RS06945 | 0.0356 | 0.3821 | 0.09305 |
| I33_RS06950 | 0.0266 | 0.4296 | 0.06186 |
| I33_RS06960 | 0.04395 | 0.31825 | 0.138225 |
| I33_RS06965 | 0.0775 | 0.3656 | 0.21188 |
| I33_RS06980 | 0.0197 | 0.3106 | 0.06332 |
| I33_RS06990 | 0.0054 | 0.2824 | 0.01902 |
| I33_RS07000 | 0.10574 | 0.33598 | 0.271676 |
| I33_RS07010 | 0.0383 | 0.0881 | 0.43479 |
| I33_RS07015 | 0.0762 | 0.2772 | 0.27491 |
| I33_RS07020 | 0.02625 | 0.27745 | 0.096465 |
| I33_RS07025 | 0.0218 | 0.367 | 0.05931 |
| I33_RS07030 | 0.0169 | 0.3816 | 0.0442 |
| I33_RS07035 | 0.0305 | 0.2777 | 0.1097 |
| I33_RS07040 | 0.0278 | 0.3763 | 0.07435 |
| I33_RS07045 | 0.03845 | 0.3034 | 0.123015 |
| I33_RS07050 | 0.013 | 0.271 | 0.04779 |
| I33_RS07055 | 0.0174 | 0.3054 | 0.05688 |
| I33_RS07060 | 0.0065 | 0.2741 | 0.02373 |
| I33_RS07065 | 0.0439 | 0.4239 | 0.10355 |
| I33_RS07070 | 0.0701 | 0.485 | 0.14447 |
| I33_RS07075 | 0.03365 | 0.3296 | 0.097205 |
| I33_RS07085 | 0.0407 | 0.4453 | 0.09139 |
| I33_RS07095 | NA | NA | NA |
| I33_RS07105 | 0.01363333333333333 | 0.3057 | 0.03474 |
| I33_RS07115 | 0.0556 | 0.6978 | 0.07971 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|---------------------|--------------------|
| I33_RS07120 | 0.0309 | 0.3424 | 0.0901 |
| I33_RS07125 | 0.0215 | 0.352 | 0.06117 |
| I33_RS07130 | 0.0171 | 0.34 | 0.05023 |
| I33_RS07135 | 0.047 | 0.4105 | 0.11445 |
| I33_RS07140 | 0.0365 | 0.3326 | 0.10979 |
| I33_RS07145 | 0.015 | 0.4278 | 0.03495 |
| I33_RS07170 | 0.0292 | 0.3467 | 0.08414 |
| I33_RS07180 | 0.0114 | 0.2597 | 0.04391 |
| I33_RS07185 | 0.0035 | 0.187 | 0.01847 |
| I33_RS07190 | 0.10534 | 0.19598 | 0.55053 |
| 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_RS07245 | 0.0395 | 0.4628 | 0.08531 |
| I33_RS07265 | 0.0256 | 0.31925 | 0.08331 |
| I33_RS07270 | 0.0535 | 0.3592 | 0.14891 |
| I33_RS07275 | 0.023225 | 0.30365 | 0.059845 |
| I33_RS07285 | 0.012 | 0.2444 | 0.04894 |
| 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 | 0.01155 | 0.31625 | 0.035195 |
| I33_RS07325 | 0.0098 | 0.3037 | 0.03229 |
| I33_RS07330 | 0.0001 | 0.7566 | 0.0001 |
| I33_RS07345 | 0.055 | 0.2028 | 0.27107 |
| I33_RS07350 | 0.03093333333333333 | 0.2432333333333333 | 0.1820966666666667 |
| I33_RS07355 | 0.0139 | 0.318 | 0.04385 |
| I33_RS07375 | NA | NA | NA |
| 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 | 0.0848 | 0.3817 | 0.22227 |
| I33_RS07440 | 0.0248 | 0.2992 | 0.08291 |
| I33_RS07450 | 0.0161 | 0.3228 | 0.04995 |
| I33_RS07465 | 0.0407 | 0.5635 | 0.07224 |
| I33_RS07470 | NA | NA | NA |
| I33_RS07480 | 0.0084 | 0.2226 | 0.03767 |
| I33_RS07485 | 0.0143 | 0.3187 | 0.04473 |
| I33_RS07500 | 0.012 | 0.2655 | 0.04529 |
| I33_RS07505 | 0.0086 | 0.1896 | 0.041015 |
| I33_RS07510 | 0.0635 | 0.6516 | 0.10137 |
| I33_RS07515 | 0.0438 | 0.3469 | 0.12623 |
| I33_RS07540 | 0.0065 | 0.3919 | 0.0166 |
| I33_RS07545 | 0.0025666666666667 | 0.09113333333333333 | 0.01645 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|--------------------|---------------------|
| I33_RS07555 | 0.0091 | 0.285 | 0.03189 |
| I33_RS07560 | 0.04415 | 0.3115 | 0.152175 |
| I33_RS07565 | 0.0342 | 0.26745 | 0.10754 |
| 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 | 0.00485 | 26.62785 | 0.01123 |
| I33_RS07600 | 0.05 | 0.34375 | 0.14942 |
| I33_RS07605 | 0.0342 | 0.26085 | 0.13703 |
| I33_RS07610 | 0.018 | 0.2314 | 0.07766 |
| I33_RS07620 | 0.0248 | 0.2648 | 0.0937 |
| I33_RS07640 | 0.0439 | 0.3553 | 0.1235 |
| I33_RS07645 | 0.0178 | 0.2652 | 0.06709 |
| I33_RS07650 | 0.0267 | 0.3175 | 0.08418 |
| I33_RS07655 | 0.0143 | 0.2022 | 0.07052 |
| I33_RS07660 | 0.007533333333333333 | 0.2207666666666667 | 0.03209 |
| I33_RS07665 | 0.05 | 0.4563 | 0.10964 |
| 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 | 0.0681 | 0.5002 | 0.13604 |
| I33_RS07730 | 0.0227 | 0.36415 | 0.05424 |
| I33_RS07750 | 0.006 | 0.1971 | 0.05893 |
| I33_RS07760 | 0.0048 | 0.2494 | 0.01925 |
| I33_RS07775 | 0.002266666666666667 | 0.1401666666666667 | 0.01938333333333333 |
| I33_RS07780 | 0.0029 | 0.1904 | 0.0152 |
| I33_RS07790 | 0.013 | 0.4114 | 0.0317 |
| I33_RS07795 | 0.017675 | 0.270925 | 0.0631775 |
| I33_RS07800 | 0.0704 | 0.2853 | 0.24661 |
| I33_RS07810 | 0.0501 | 0.497 | 0.10072 |
| I33_RS07835 | 0.1279 | 0.5051 | 0.25324 |
| I33_RS07855 | 0.0826 | 0.2506 | 0.3297 |
| I33_RS07860 | 0.05875 | 0.32845 | 0.18017 |
| I33_RS07865 | 0.003 | 0.2356 | 0.01274 |
| I33_RS07870 | 0.0101 | 0.1306 | 0.07752 |
| I33_RS07875 | 0.02135 | 0.24435 | 0.100655 |
| I33_RS07885 | 0.0032 | 0.273 | 0.01168 |
| I33_RS07890 | 0.0545 | 0.2416 | 0.22548 |
| I33_RS07900 | 0.005 | 0.0936 | 0.05359 |
| I33_RS07905 | 0.0286 | 0.3284 | 0.087 |
| I33_RS07915 | 0.0109 | 0.3183 | 0.03413 |
| I33_RS07925 | 0.016 | 0.2439 | 0.0655 |
| I33_RS07930 | 0.0031 | 0.1568 | 0.01962 |
| I33_RS07935 | 0.0142 | 0.2314 | 0.06118 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|--------------------|---------------------|
| I33_RS07940 | 0.0089 | 0.2732 | 0.03262 |
| I33_RS07945 | 0.0141 | 0.2596 | 0.05308 |
| I33_RS07950 | 0.02255 | 0.31905 | 0.069015 |
| I33_RS07955 | 0.0168 | 0.31605 | 0.047665 |
| I33_RS07960 | 0.0156 | 0.2171 | 0.07166 |
| I33_RS07965 | 0.0107 | 0.2066 | 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 | 0.03146 | 0.2436 | 0.121302 |
| I33_RS08010 | 0 | 0.167 | 0 |
| I33_RS08015 | 0.0132 | 0.1323 | 0.1139 |
| I33_RS08020 | 0.0459 | 0.5788 | 0.09644 |
| 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 | 0.0037 | 0.1855 | 0.0202 |
| I33_RS08110 | 0.0485 | 0.3523 | 0.13777 |
| I33_RS08125 | 0.026 | 0.208 | 0.12523 |
| I33_RS08130 | 0 | 0.3845 | 0 |
| I33_RS08135 | 0.0038 | 0.126 | 0.03028 |
| I33_RS08140 | 0.0286 | 0.3183 | 0.08975 |
| I33_RS08145 | 0.0455 | 0.5071 | 0.08978 |
| 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 | 0.2113333333333333 | 0.07643666666666667 |
| I33_RS08170 | 0.00425 | 0.30235 | 0.01656 |
| I33_RS08185 | 0.01375 | 0.25415 | 0.05265 |
| I33_RS08195 | 0.0152 | 0.5214 | 0.02915 |
| I33_RS08200 | 0.0115 | 1.2422 | 0.03816 |
| 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 | 0.0307 | 0.363 | 0.08467 |
| I33_RS08240 | 0.0374 | 0.3571 | 0.10464 |
| I33_RS08245 | 0.0373 | 0.283 | 0.13175 |
| I33_RS08260 | 0.0039 | 0.2442 | 0.016 |
| I33_RS08265 | 0.0189 | 0.2355 | 0.08032 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS08270 | 0.0185 | 0.3269 | 0.05649 |
| I33_RS08275 | 0.0203 | 0.4379 | 0.04633 |
| I33_RS08280 | 0.0440666666666667 | 0.298666666666667 | 0.148883333333333 |
| I33_RS08285 | 0.0191 | 0.3907 | 0.04878 |
| I33_RS08300 | 0.0079 | 0.3335 | 0.0238 |
| I33_RS08315 | 0.01018 | 0.2147 | 0.047806 |
| I33_RS08320 | 0.0193 | 0.3104 | 0.06229 |
| I33_RS08335 | 0.0301 | 0.3669 | 0.08777 |
| 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 | 0.0082666666666667 | 0.0743 | 0.037026666666667 |
| I33_RS08395 | 0.0083 | 0.0983 | 0.08403 |
| I33_RS08400 | 0.0266 | 0.3754 | 0.07076 |
| I33_RS08405 | 0.0064 | 0.26125 | 0.024555 |
| I33_RS08410 | 0.0115 | 0.3317 | 0.03469 |
| I33_RS08415 | 0.0026 | 0.1869 | 0.01367 |
| I33_RS08420 | 0.007 | 0.1883 | 0.03696 |
| I33_RS08425 | 0.0236 | 0.2687 | 0.08765 |
| I33_RS08430 | 0.0094 | 0.362 | 0.02603 |
| I33_RS08435 | 0.0038 | 0.1159 | 0.03275 |
| I33_RS08450 | 0.0118 | 0.3402 | 0.03476 |
| I33_RS08465 | 0.0251 | 0.3437 | 0.069635 |
| I33_RS08470 | 0.0041 | 0.0364 | 0.11253 |
| I33_RS08480 | 0.0067666666666667 | 0.082566666666667 | 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 | 0.16295 | 0.016015 |
| I33_RS08510 | 0.0318 | 0.2199 | 0.14451 |
| I33_RS08520 | 0.0687 | 0.2646 | 0.25982 |
| 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 | 0.0332 | 0.2478 | 0.13382 |
| 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 | 0.0232 | 0.1409 | 0.16449 |
| 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 | 0.021 | 0.22195 | 0.142545 |
| I33_RS08630 | 0.0764 | 0.2515 | 0.30393 |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|--------------------|
| I33_RS08635 | 0.031 | 0.32708 | 0.075978 |
| I33_RS08640 | 0.0108142857142857 | 0.212128571428571 | 0.0583 |
| I33_RS08650 | 0.021 | 0.3615 | 0.05816 |
| I33_RS08665 | 0.0177 | 0.26685 | 0.065975 |
| I33_RS08680 | 0.0125 | 0.3027 | 0.04114 |
| I33_RS08685 | 0.0213 | 0.25285 | 0.085385 |
| I33_RS08695 | 0.0106666666666667 | 0.1794 | 0.0636333333333333 |
| I33_RS08700 | 0.00415 | 0.1593 | 0.023865 |
| I33_RS08705 | 0.051 | 0.1107 | 0.286855 |
| 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 | 0.0287 | 0.3019 | 0.09518 |
| I33_RS08745 | 0.0146 | 0.2762 | 0.05288 |
| I33_RS08760 | 0.0063 | 0.3082 | 0.02047 |
| I33_RS08770 | 0.0029 | 0.0824 | 0.0352 |
| I33_RS08775 | 0.003675 | 0.0839 | 0.046585 |
| I33_RS08780 | 0.0145 | 0.1107 | 0.13109 |
| I33_RS08795 | 0.00945 | 0.0928 | 0.10454 |
| I33_RS08800 | 0.0222 | 0.3233 | 0.06862 |
| 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 | 0.018 | 0.345333333333333 | 0.0468066666666667 |
| I33_RS08865 | 0.014 | 0.2892 | 0.04846 |
| I33_RS08870 | 0.0088 | 0.3014 | 0.02918 |
| I33_RS08875 | 0.0119 | 0.3741 | 0.0317 |
| I33_RS08880 | 0.0533 | 0.2714 | 0.19632 |
| I33_RS08885 | 0.0335 | 0.3663 | 0.09143 |
| I33_RS08895 | 0.0098 | 0.268 | 0.03648 |
| I33_RS08900 | 0.0358 | 0.4054 | 0.08838 |
| I33_RS08905 | 0.01395 | 0.1346 | 0.140075 |
| 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 | 0.0141181818181818 | 0.2498 | 0.0501454545454545 |
| I33_RS08940 | 1.62091428571429 | 39.9308571428571 | 0.295305714285714 |
| I33_RS08945 | 4.89558571428571 | NA | 73.0409878571429 |
| I33_RS08950 | 10.005509375 | 555.383040625 | 64.720270625 |
| I33_RS08955 | 5.83573684210526 | NA | 70.4467142105263 |
| I33_RS09090 | 0.9557 | 46.4759 | 0.02072 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|--------------------|
| I33_RS09095 | 85.89345 | 1.2743 | 94.075 |
| I33_RS09100 | 1.2595833333333333 | 422.4622666666667 | 0.14113 |
| I33_RS09110 | 8.2438 | 4.016 | 2.05272 |
| I33_RS09120 | 0.0507 | 0.3694 | 0.13726 |
| I33_RS09145 | 0.0224 | 0.3148 | 0.07101 |
| I33_RS09150 | 0.0785 | 3.4843 | 0.14362 |
| I33_RS09155 | 0.0311 | 0.4415 | 0.07044 |
| 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 | 0.0319 | 0.3559 | 0.08958 |
| I33_RS09185 | 0.0581 | 0.3134 | 0.18521 |
| I33_RS09190 | 0.0086 | 0.31545 | 0.02845 |
| I33_RS09200 | 0.0068 | 0.0853 | 0.08001 |
| I33_RS09290 | 0.0346 | 0.2916 | 0.11858 |
| I33_RS09335 | 0.0303 | 2.44455 | 0.125445 |
| I33_RS09345 | 0.0302 | 0.495 | 0.064375 |
| I33_RS09350 | 0.1286 | 0.5225 | 0.24619 |
| I33_RS09355 | 0.1854 | 0.2598 | 0.71352 |
| I33_RS09380 | 0.0531 | 0.4371 | 0.12157 |
| I33_RS09405 | 0.0766 | 0.3115 | 0.24606 |
| I33_RS09420 | 0.0686 | 0.3881 | 0.17668 |
| I33_RS09435 | 0.0729 | 0.409 | 0.17813 |
| I33_RS09450 | 0.1131 | 0.341166666666667 | 0.31843 |
| I33_RS09455 | 0.020575 | 0.28205 | 0.072295 |
| I33_RS09465 | 0.0161 | 0.3004 | 0.05363 |
| I33_RS09470 | 0.0064 | 0.137766666666667 | 0.05458 |
| I33_RS09475 | 0.0115 | 0.2199 | 0.05209 |
| I33_RS09480 | 0.0261 | 0.2762 | 0.0894133333333333 |
| I33_RS09485 | 0.0042 | 0.54955 | 0.00929 |
| I33_RS09500 | 0.0426 | 0.3105 | 0.1371 |
| I33_RS09505 | 0.02363333333333333 | 0.5480333333333333 | 0.05512 |
| I33_RS09510 | 0.02105 | 0.36495 | 0.0578 |
| I33_RS09535 | 0.008 | 0.3367 | 0.02374 |
| I33_RS09545 | 0.0334 | 0.6812 | 0.04901 |
| I33_RS09560 | 0.07163333333333333 | 0.3660333333333333 | 0.1958433333333333 |
| I33_RS09570 | 0.1639 | 1.80545 | 0.07992 |
| I33_RS09575 | 7.0558 | 3.86336363636364 | 5.19872181818182 |
| I33_RS09580 | 0.0313 | 0.3906 | 0.07996 |
| I33_RS09660 | 0.07 | 0.3574 | 0.19591 |
| I33_RS09665 | 0.0531 | 0.3525 | 0.15056 |
| I33_RS09680 | 0.0204 | 0.4311 | 0.04722 |
| I33_RS13510 | 0.0822 | 0.7753 | 0.10601 |
| I33_RS13515 | 0.0954 | 0.896 | 0.10649 |
| I33_RS13520 | 15.906 | 4.9691 | 3.20097 |
| I33_RS13575 | 2.9392333333333333 | NA | 1.25564 |
| I33_RS13685 | 0.0151 | 0.588 | 0.02573 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS13690 | 0.04 | 0.7288 | 0.05487 |
| I33_RS13700 | 0.0298 | 0.4031 | 0.07397 |
| I33_RS13710 | 0.0027 | 0.4248 | 0.0063 |
| I33_RS13715 | 0.091 | 0.26665 | 0.389275 |
| I33_RS13720 | 0.00175 | 0.1748 | 0.00495 |
| I33_RS13725 | 0.0246666666666667 | 0.2676 | 0.111813333333333 |
| I33_RS13745 | 0.0364 | 0.332 | 0.10958 |
| I33_RS13760 | 0.0209 | 0.5138 | 0.04061 |
| I33_RS13795 | 0.0343 | 0.3643 | 0.09362 |
| I33_RS13800 | 0.0718 | 0.2582 | 0.27808 |
| 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 | 0.0164 | 0.3195 | 0.05134 |
| I33_RS13835 | 0.0199 | 0.2806 | 0.07086 |
| I33_RS13840 | 0.02855 | 0.2875 | 0.09874 |
| I33_RS13845 | 0.047975 | 0.257975 | 0.1846575 |
| I33_RS13850 | 0.0186 | 0.293 | 0.06355 |
| I33_RS13860 | 0 | 0.1943 | 0 |
| I33_RS13865 | 0.01535 | 0.243275 | 0.066605 |
| 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 | 0.01325 | 0.3081 | 0.04459 |
| I33_RS13970 | 0.0192 | 0.4262 | 0.04499 |
| I33_RS13980 | 0.0159 | 0.2859 | 0.05558 |
| I33_RS13985 | 0.0583 | 0.3219 | 0.18123 |
| I33_RS13990 | 0.0261 | 0.27425 | 0.107085 |
| I33_RS13995 | 0.0019 | 0.2529 | 0.00754 |
| I33_RS14000 | 0.0089 | 0.1106 | 0.08019 |
| I33_RS14015 | 0.101866666666667 | 0.303833333333333 | 0.343953333333333 |
| I33_RS14025 | 0.0264 | 0.4164 | 0.06341 |
| I33_RS14030 | 0.0265 | 0.16355 | 0.293975 |
| I33_RS14035 | 0.0606 | 0.3096 | 0.19565 |
| I33_RS14040 | 0.0147 | 0.3399 | 0.04312 |
| I33_RS14045 | 0.0076 | 0.1631 | 0.09284 |
| I33_RS14055 | 0.0147 | 0.3472 | 0.04225 |
| I33_RS14060 | 0.0067 | 0.3624 | 0.02187 |
| I33_RS14065 | 0.017 | 0.3072 | 0.059295 |
| I33_RS14075 | 0.0216 | 0.2675 | 0.08076 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS14085 | 0.0358 | 0.3015 | 0.1188 |
| I33_RS14100 | 0.053825 | 0.318925 | 0.16871 |
| I33_RS14105 | 0.062 | 0.1832 | 0.33855 |
| I33_RS14110 | 0.0209 | 0.1453 | 0.14409 |
| I33_RS14115 | 0.0415 | 0.3213 | 0.12931 |
| I33_RS14120 | 0.0577 | 0.3583 | 0.16102 |
| I33_RS14125 | 0.0743 | 0.3588 | 0.20699 |
| I33_RS14130 | 0.0602 | 0.2994 | 0.20099 |
| I33_RS14140 | 0.0201 | 0.3022 | 0.06642 |
| I33_RS14145 | 0.0043 | 0.3512 | 0.01212 |
| I33_RS14150 | 0.01005 | 0.1737 | 0.065145 |
| I33_RS14155 | 0.0249 | 0.114266666666667 | 0.186723333333333 |
| I33_RS14160 | 0.0104 | 0.18885 | 0.09045 |
| I33_RS14170 | 0 | 0.0531 | 0 |
| 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 | 0.18815 | 0.128695 |
| I33_RS14200 | 0.0485 | 0.3591 | 0.1352 |
| I33_RS14205 | 0.0452 | 0.295 | 0.15309 |
| I33_RS14215 | 0.0089 | 0.2631 | 0.03401 |
| I33_RS14225 | 0 | 0.1095 | 0 |
| I33_RS14230 | 0.04995 | 0.2477 | 0.20683 |
| I33_RS14235 | 1.05515 | 0.63445 | 2.40097 |
| I33_RS14240 | 0.11135 | 0.28835 | 0.33737 |
| I33_RS14245 | 0.014 | 0.3164 | 0.04426 |
| I33_RS14250 | 0.0303 | 0.310766666666667 | 0.092196666666667 |
| 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 | 0.0188 | 0.3963 | 0.04732 |
| I33_RS14310 | 0.0254 | 0.3416 | 0.07449 |
| I33_RS14315 | 0.005 | 0.255 | 0.01945 |
| I33_RS14320 | 0.0184 | 0.243 | 0.07564 |
| I33_RS14325 | 0.0127 | 0.3449 | 0.03686 |
| I33_RS14335 | 0.0056 | 0.32625 | 0.022405 |
| I33_RS14350 | 0.06395 | 43.0847 | 0.04858 |
| I33_RS14355 | 0.00865 | 0.48705 | 0.02116 |
| I33_RS14360 | 0.0127666666666667 | 0.2654 | 0.059446666666667 |
| I33_RS14365 | 0.0215 | 0.3591 | 0.05997 |
| I33_RS14370 | 0.0207 | 0.4617 | 0.04493 |
| I33_RS14375 | 0.003 | 0.1471 | 0.02008 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS14380 | 0.0184666666666667 | 0.202266666666667 | 0.059506666666667 |
| I33_RS14390 | 0.0015 | 0.2623 | 0.00586 |
| I33_RS14395 | 0 | 0.1233 | 0 |
| I33_RS14400 | 0 | 0.1386 | 0 |
| I33_RS14405 | 0.0092 | 0.2795 | 0.03276 |
| I33_RS14420 | 0.014 | 0.2957 | 0.04752 |
| I33_RS14425 | 0 | 0.353 | 0 |
| I33_RS14435 | 0.0266 | 0.3315 | 0.08029 |
| I33_RS14440 | 0.0271 | 0.3604 | 0.07509 |
| I33_RS14445 | 0.0146 | 0.244 | 0.05897 |
| I33_RS14450 | 0.0235 | 0.2995 | 0.07853 |
| I33_RS14455 | 0.0069 | 0.1569 | 0.04409 |
| I33_RS14460 | 0.0137 | 0.2808 | 0.04889 |
| I33_RS14475 | 0.0196 | 0.2446 | 0.08003 |
| I33_RS14480 | 0.0141 | 0.2043 | 0.069 |
| I33_RS14485 | 0.01705 | 0.1322 | 0.147555 |
| I33_RS14490 | 0.0195 | 0.3447 | 0.05671 |
| I33_RS14525 | 0.0079 | 0.2406 | 0.03264 |
| I33_RS14530 | 0.0541 | 0.2768 | 0.19562 |
| I33_RS14535 | 14.6828 | 2.1593 | 10.446512 |
| I33_RS14545 | 0.0325 | 0.3681 | 0.08821 |
| I33_RS14550 | 0.036 | 0.4541 | 0.07928 |
| I33_RS14555 | 0.0497 | 0.4052 | 0.12254 |
| I33_RS14560 | 0.0109 | 0.3658 | 0.02975 |
| I33_RS14565 | 0.0018 | 0.3804 | 0.00477 |
| I33_RS14570 | 0.0156 | 0.3898 | 0.0399 |
| I33_RS14575 | 0.0092 | 0.295 | 0.0313 |
| I33_RS14580 | 0.018 | 0.3878 | 0.0463 |
| I33_RS14585 | 0.0696 | 0.4832 | 0.14395 |
| I33_RS14590 | 0.0101 | 0.2947 | 0.03439 |
| I33_RS14600 | 0.0323 | 0.3381 | 0.09548 |
| I33_RS14605 | 0.0139 | 0.3 | 0.04618 |
| I33_RS14610 | 0.0302 | 0.4815 | 0.06269 |
| I33_RS14620 | 0.0128 | 0.3196 | 0.04012 |
| I33_RS14625 | 0.014966666666667 | 0.192333333333333 | 0.049443333333333 |
| I33_RS14630 | 0.071233333333333 | 0.132866666666667 | 0.547896666666667 |
| I33_RS14635 | 0.0916 | 0.263566666666667 | 0.425046666666667 |
| I33_RS14640 | 0.0182 | 0.224266666666667 | 0.08057 |
| I33_RS14645 | 0.0244 | 0.2685 | 0.09091 |
| I33_RS14650 | 0.0192 | 0.2969 | 0.06457 |
| I33_RS14655 | 0.0042 | 0.2926 | 0.01437 |
| I33_RS14660 | 0.0304 | 0.2789 | 0.10883 |
| I33_RS14785 | 0.0282 | 0.3069 | 0.09204 |
| I33_RS14795 | 0.0134 | 0.2979 | 0.04514 |
| I33_RS14810 | 0.013 | 0.2919 | 0.04452 |
| I33_RS14820 | 0.0229 | 0.3118 | 0.07346 |
| I33_RS14835 | 0.0075 | 0.1464 | 0.05099 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| 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 | 0.1486 | 0.03159 |
| I33_RS14895 | 0.0058 | 0.2818 | 0.02046 |
| I33_RS14905 | 0.0195 | 0.2871 | 0.06804 |
| I33_RS14915 | 0.0065 | 0.234675 | 0.0312275 |
| I33_RS14920 | 0.0131 | 0.2231 | 0.07551 |
| 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 | 0.0183 | 0.32385 | 0.05842 |
| I33_RS15020 | 0.0029 | 0.1415 | 0.02064 |
| I33_RS15025 | 0.03035 | 0.30985 | 0.09052 |
| I33_RS15035 | 0.02335 | 0.2755 | 0.082965 |
| I33_RS15040 | 0.0171 | 0.3745 | 0.04558 |
| I33_RS15050 | 0.0426 | 0.3956 | 0.10763 |
| I33_RS15060 | 0.0174 | 0.3111 | 0.05581 |
| I33_RS15065 | 0.0075 | 0.17875 | 0.02099 |
| I33_RS15075 | 0.0434 | 0.3381 | 0.12828 |
| I33_RS15080 | 0.213 | 3.3827 | 0.06297 |
| I33_RS15095 | 0.0193666666666667 | 0.2473333333333333 | 0.0760333333333333 |
| I33_RS15105 | 0.0436 | 0.308 | 0.14141 |
| 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 | 0.02755 | 0.31835 | 0.09962 |
| I33_RS15140 | 0 | 0.3622 | 0 |
| I33_RS15150 | 0.0192 | 0.4158 | 0.04623 |
| I33_RS15160 | 0.0123 | 0.2391 | 0.0516 |
| 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 | 0.00865 | 0.22835 | 0.03752 |
| 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 | 0.0344 | 0.2937333333333333 | 0.0946933333333333 |
| I33_RS15260 | 0.0492 | 0.2449 | 0.19705 |
| I33_RS15275 | 0.0303 | 0.3945 | 0.07671 |
| I33_RS15280 | 0.0136 | 0.2681 | 0.05083 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|--------------------|
| I33_RS15285 | 0.1104 | 0.4328 | 0.25513 |
| I33_RS15295 | 0.01965 | 0.2948166666666667 | 0.0535566666666667 |
| I33_RS15300 | 0.04015 | 0.24215 | 0.149645 |
| I33_RS15305 | 0.0479 | 0.29285 | 0.18581 |
| I33_RS15310 | 0.0465 | 0.3758 | 0.12365 |
| I33_RS15315 | 0.0107 | 0.1986 | 0.05393 |
| I33_RS15320 | 0.0422 | 0.3874 | 0.10893 |
| I33_RS15330 | 0.0226 | 0.391 | 0.05775 |
| I33_RS15335 | 0.0214 | 0.3154 | 0.06776 |
| I33_RS15340 | 0.02185 | 0.1864 | 0.113185 |
| I33_RS15350 | 0.0702 | 0.3692 | 0.19009 |
| I33_RS15360 | 0.03785 | 0.3394 | 0.10407 |
| I33_RS15365 | 0.0752 | 0.411 | 0.18299 |
| I33_RS15370 | 0.0299 | 0.3975 | 0.07525 |
| I33_RS15375 | 0.0628 | 0.3569 | 0.176 |
| I33_RS15385 | 0.0623 | 0.3405 | 0.18287 |
| I33_RS15390 | 0.0266 | 0.3466 | 0.07662 |
| I33_RS15405 | 0.0281 | 0.2628 | 0.107 |
| I33_RS15420 | 0.0221 | 0.1576 | 0.14008 |
| 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 | 0.036 | 0.3977 | 0.09052 |
| I33_RS15455 | 0.0708 | 0.3295 | 0.21474 |
| I33_RS15460 | 0.0533 | 0.3274 | 0.16268 |
| I33_RS15465 | 0.0146 | 0.5162 | 0.0283 |
| I33_RS15470 | 0.05 | 0.326 | 0.15335 |
| I33_RS15475 | 0.0378 | 0.3652 | 0.10351 |
| I33_RS15480 | 0.0179 | 0.3937 | 0.04546 |
| I33_RS15500 | 0.2152 | 1.1311 | 0.19022 |
| I33_RS15505 | 0.3163 | 1.5312 | 0.20661 |
| I33_RS15510 | 0.0219 | 0.123 | 0.17839 |
| I33_RS15520 | 0.04503333333333333 | 1.9490333333333333 | 0.03399 |
| I33_RS15525 | 0.03015 | 0.3723 | 0.080535 |
| I33_RS15530 | 0.0105 | 0.2748 | 0.03836 |
| I33_RS15535 | 0.0253 | 0.3366 | 0.07526 |
| I33_RS15540 | 0.0245 | 0.1951 | 0.12542 |
| I33_RS15545 | 0.0169 | 0.3761 | 0.04506 |
| 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 | 0.2751666666666667 | 0.0675166666666667 |
| I33_RS15590 | 0.0063 | 0.2345 | 0.02679 |
| I33_RS15595 | 0.02395 | 0.33025 | 0.074865 |
| I33_RS15600 | 0.0064 | 0.2505 | 0.02116 |
| I33_RS15605 | 0.0001 | 0.558 | 0.0001 |
| I33_RS15610 | 0.0098 | 0.4004 | 0.02458 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------|----------|
| I33_RS15615 | 0.0416 | 0.4275 | 0.09731 |
| I33_RS15630 | 0.0258 | 0.4117 | 0.06263 |
| I33_RS15635 | 0.0386 | 0.4142 | 0.09307 |
| I33_RS15640 | 0.0122 | 0.3974 | 0.03072 |
| I33_RS15645 | 0.0316 | 0.242 | 0.13072 |
| I33_RS15650 | 0 | 0.2344 | 0 |
| I33_RS15655 | 0.0571 | 0.3126 | 0.18266 |
| I33_RS15660 | 0.0359 | 0.3209 | 0.11198 |
| I33_RS15680 | 0.0123 | 0.6987 | 0.01767 |
| I33_RS15690 | 0.0527 | 0.3591 | 0.14683 |
| I33_RS15695 | 0.05605 | 0.29505 | 0.189915 |
| I33_RS15710 | 0.15075 | 0.280675 | 0.952975 |
| I33_RS15715 | 0.0273 | 0.4604 | 0.05939 |
| I33_RS15720 | 0.0328 | 0.2194 | 0.14937 |
| I33_RS15730 | 0.0318 | 0.2628 | 0.12085 |
| I33_RS15740 | 0.061 | 0.3374 | 0.18086 |
| I33_RS15755 | 0.0177 | 0.4191 | 0.04225 |
| I33_RS15760 | 0.0405 | 0.3485 | 0.11613 |
| I33_RS15765 | 0.0155 | 0.3424 | 0.049135 |
| I33_RS15770 | 0.0328 | 0.3007 | 0.10892 |
| I33_RS15825 | 0.0224 | 0.3831 | 0.05837 |
| 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 |
| I33_RS15850 | 0.0105 | 0.2714 | 0.0386 |
| I33_RS15855 | 0.0154 | 0.3342 | 0.04603 |
| I33_RS15860 | 0.03145 | 0.2604 | 0.12101 |
| I33_RS15870 | 0.0277 | 0.4379 | 0.06493 |
| I33_RS15875 | 0 | 0.2378 | 0 |
| I33_RS15880 | 0.0279 | 0.293 | 0.09527 |
| I33_RS15890 | 0.0572 | 0.3673 | 0.15564 |
| 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 | 0.048 | 0.3004 | 0.15995 |
| I33_RS15930 | 0.0672 | 0.2902 | 0.23169 |
| I33_RS15935 | 0.0291 | 0.2633 | 0.11067 |
| I33_RS15940 | 0.0364 | 0.3615 | 0.1008 |
| I33_RS15965 | 0.0199 | 0.3309 | 0.06018 |
| I33_RS15970 | 0.0371 | 0.3236 | 0.1145 |
| I33_RS15980 | 0.0495 | 0.3132 | 0.15808 |
| I33_RS15985 | 0.0204 | 0.3167 | 0.06434 |
| I33_RS15995 | 0.0347 | 0.28305 | 0.13049 |
| I33_RS16000 | 0.034 | 0.4129 | 0.08223 |
| I33_RS16005 | 0.0424 | 0.3388 | 0.12528 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| I33_RS16010 | 0.0188 | 0.3366 | 0.05596 |
| I33_RS16020 | 0.0392 | 0.162 | 0.2046 |
| I33_RS16035 | 0.04 | 0.302466666666667 | 0.141643333333333 |
| I33_RS16050 | 0.013 | 0.3021 | 0.04313 |
| I33_RS16055 | 0 | 0.1841 | 0 |
| I33_RS16065 | 0.0058 | 0.22885 | 0.02373 |
| I33_RS16070 | 0.0408 | 0.26715 | 0.24115 |
| 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 | 0.0057 | 0.1153 | 0.04957 |
| I33_RS16105 | 0.01435 | 0.2911 | 0.050025 |
| 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 | 0.046 | 0.3904 | 0.11771 |
| I33_RS16175 | 0.793033333333333 | 36.9974166666667 | 0.029733333333333 |
| I33_RS16180 | 1.56638 | 24.4824 | 0.077362 |
| I33_RS16185 | 4.98523333333333 | 971.522933333333 | 0.08047 |
| I33_RS16190 | NA | NA | NA |
| I33_RS16195 | 0 | 0.0237 | 0 |
| I33_RS16200 | 0.1163 | 0.401 | 0.28997 |
| I33_RS16210 | 0.0219 | 0.2704 | 0.08082 |
| I33_RS16215 | 0.0057 | 0.2985 | 0.019 |
| I33_RS16220 | 0.015 | 0.1432 | 0.10474 |
| I33_RS16225 | 0.0582 | 0.29335 | 0.19602 |
| I33_RS16230 | 0.1264 | 0.9125 | 0.13855 |
| I33_RS16235 | 0.03415 | 0.2947 | 0.10758 |
| I33_RS16240 | 0.0059 | 0.1528 | 0.03857 |
| I33_RS16245 | 0.0157 | 0.3125 | 0.05018 |
| I33_RS16250 | 0.0381 | 0.30145 | 0.126415 |
| I33_RS16260 | 1.57263333333333 | 20.9738666666667 | 166.580448333333 |
| I33_RS16265 | NA | NA | NA |
| I33_RS16270 | 0.095 | 0.4878 | 0.19478 |
| I33_RS16285 | 0.0169 | 0.288 | 0.05856 |
| I33_RS16300 | 0.0119 | 0.0887 | 0.102385 |
| I33_RS16310 | 0.0286 | 0.372 | 0.07699 |
| I33_RS16315 | 0.0191 | 0.3967 | 0.04805 |
| I33_RS16320 | 0.0267 | 0.1478 | 0.18088 |
| I33_RS16335 | 0.0434 | 0.3131 | 0.13869 |
| I33_RS16350 | 0.02365 | 0.31625 | 0.086375 |
| I33_RS16355 | 0.0365 | 0.3816 | 0.09569 |
| I33_RS16360 | 0.0277 | 0.3821 | 0.07247 |
| I33_RS16365 | 0.04185 | 0.32015 | 0.121395 |
| I33_RS16370 | 0.0567 | 0.3288 | 0.17245 |
| I33_RS16375 | 0.1541 | 1359.5932 | 0.00011 |
| I33_RS16380 | 0.02235 | 0.35315 | 0.06796 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|---------|----------|
| I33_RS16385 | 0.0374 | 0.3709 | 0.10096 |
| I33_RS16395 | 0.0217 | 0.3014 | 0.07212 |
| I33_RS16400 | 0.0261 | 0.2492 | 0.10456 |
| I33_RS16405 | 0.0448 | 0.1644 | 0.2724 |
| I33_RS16410 | 0.006 | 0.3377 | 0.017175 |
| I33_RS16420 | 0.0212 | 0.3688 | 0.05747 |
| I33_RS16425 | 0.0477 | 0.40405 | 0.103575 |
| I33_RS16430 | 0.0237 | 0.2759 | 0.08584 |
| I33_RS16440 | 0.0067 | 0.18305 | 0.040605 |
| I33_RS16445 | 0.0189 | 0.17145 | 0.070075 |
| I33_RS16455 | 0.057 | 0.3385 | 0.16828 |
| 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 | 0.0264 | 0.3478 | 0.07594 |
| I33_RS16485 | 0.0129 | 0.2352 | 0.058985 |
| I33_RS16490 | 0.03015 | 0.22185 | 0.110285 |
| I33_RS16495 | 0.0277 | 0.28695 | 0.102145 |
| I33_RS16500 | 0 | 0.2612 | 0 |
| I33_RS16505 | 0.06285 | 0.9695 | 0.05976 |
| 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 | 0.0807 | 0.394 | 0.20489 |
| I33_RS16550 | 0.0439 | 0.3492 | 0.12575 |
| I33_RS16555 | 0.0287 | 0.3266 | 0.08784 |
| I33_RS16560 | 0.0991 | 0.40615 | 0.24775 |
| I33_RS16565 | 0.14 | 0.62625 | 0.220835 |
| I33_RS16570 | 0.0639 | 0.4266 | 0.14981 |
| I33_RS16580 | 0.0703 | 0.3153 | 0.22286 |
| I33_RS16590 | 0.0916 | 0.3125 | 0.2931 |
| I33_RS16605 | 0.0398 | 0.3959 | 0.1005 |
| I33_RS16610 | 0.0456 | 0.3833 | 0.11896 |
| I33_RS16615 | 0.0304 | 0.3692 | 0.081595 |
| I33_RS16630 | 0.0105 | 0.2675 | 0.03933 |
| 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 | 0.0561 | 0.4298 | 0.13045 |
| I33_RS16655 | 0.0693 | 0.3386 | 0.298235 |
| I33_RS16660 | NA | 0.195 | NA |
| 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 | 0.0152 | 0.3106 | 0.04896 |
| I33_RS16690 | 0.0118 | 0.1788 | 0.06611 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-----------|
| 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 | 0.0334 | 0.1936 | 0.17103 |
| I33_RS16720 | 0.0186 | 0.11395 | 0.18399 |
| I33_RS16725 | 0 | 0.2876 | 0 |
| I33_RS16730 | 0.0119 | 0.3573 | 0.03337 |
| I33_RS16765 | 0.05495 | 0.22125 | 0.29462 |
| I33_RS16770 | 0.0624 | 0.33345 | 0.2016075 |
| I33_RS16775 | 0.016 | 0.2681 | 0.05985 |
| I33_RS16780 | 0.0242 | 0.28475 | 0.0726 |
| I33_RS16800 | 0.0173 | 0.2171 | 0.07966 |
| I33_RS16805 | 0.01995 | 0.27595 | 0.06332 |
| 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 | 0.0137 | 0.2363 | 0.0581 |
| I33_RS16840 | 0.0329 | 0.4234 | 0.07781 |
| I33_RS16845 | 0.0479 | 0.4641 | 0.10331 |
| I33_RS16850 | 0.0802 | 0.3757 | 0.21357 |
| I33_RS16855 | 0.0256 | 0.2626 | 0.09762 |
| I33_RS16865 | 0.023 | 0.3118 | 0.07368 |
| I33_RS16870 | 0.0328 | 0.2669 | 0.12281 |
| I33_RS16875 | 0.1125 | 0.3966 | 0.28374 |
| I33_RS16880 | 0.0394666666666667 | 0.3467333333333333 | 0.09899 |
| I33_RS16885 | 0.019 | 0.4146 | 0.04593 |
| I33_RS16890 | 0.0482 | 0.262 | 0.18388 |
| I33_RS16895 | 0.0584 | 0.3207 | 0.18201 |
| I33_RS16900 | 0.062925 | 0.347025 | 0.1750775 |
| I33_RS16910 | 0.0264 | 0.3265 | 0.08085 |
| I33_RS16920 | 0.0217 | 0.3384 | 0.06402 |
| I33_RS16930 | 0.004 | 0.2407 | 0.01672 |
| I33_RS16935 | 0.020525 | 0.360875 | 0.0421525 |
| I33_RS16940 | 0.0332 | 0.3599666666666667 | 0.09562 |
| I33_RS16950 | 0.0175 | 0.2427 | 0.07128 |
| I33_RS16955 | 0.0375 | 0.3394 | 0.11062 |
| I33_RS16960 | 0.035 | 0.4053 | 0.08632 |
| I33_RS16965 | 0.0199 | 0.3529 | 0.0563 |
| I33_RS16975 | 0.01015 | 0.1951 | 0.041265 |
| I33_RS16980 | 0.0385 | 0.3622 | 0.10635 |
| I33_RS16990 | 0.0504 | 0.2877 | 0.17523 |
| I33_RS16995 | 0.0347 | 0.376 | 0.09232 |
| I33_RS17000 | 0.0313 | 0.2633 | 0.11879 |
| I33_RS17005 | 0.0221 | 0.4091 | 0.054075 |
| I33_RS17025 | 0.0106 | 0.3355 | 0.03148 |
| I33_RS17030 | 0.028 | 0.2843 | 0.09848 |
| I33_RS17050 | 0.0542 | 0.3246 | 0.16698 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| I33_RS17060 | 0.0076 | 0.3207 | 0.0236 |
| I33_RS17065 | 0.03245 | 0.27435 | 0.119445 |
| I33_RS17080 | 0.0419 | 0.2984 | 0.14023 |
| I33_RS17095 | 0.0276 | 0.4705 | 0.05872 |
| I33_RS17100 | 0.0736 | 0.5563 | 0.13223 |
| I33_RS17105 | 0.0228 | 0.29025 | 0.08886 |
| I33_RS17110 | 0.0561 | 0.3723 | 0.15078 |
| I33_RS17115 | 0.0086 | 0.4296 | 0.02007 |
| I33_RS17120 | 0.0675 | 0.4427 | 0.15246 |
| I33_RS17125 | 7.7272 | 70.8374 | 1.21952 |
| I33_RS17130 | 11.4666529411765 | 47.5014529411765 | 60.3378070588235 |
| 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 | 7.207675 | 11.7442 | 0.2375725 |
| I33_RS17180 | 0.009 | 0.3509 | 0.02575 |
| I33_RS17185 | 0.029 | 0.255 | 0.11375 |
| I33_RS17190 | 0.0172 | 0.3631 | 0.04751 |
| I33_RS17200 | 22.0631 | 18.8398 | 1.17109 |
| I33_RS17210 | 0.0310666666666667 | 0.350966666666667 | 0.102333333333333 |
| I33_RS17215 | 0.01165 | 0.29045 | 0.04336 |
| I33_RS17225 | 0.0622 | 0.4032 | 0.15419 |
| I33_RS17230 | 2.68425 | 3.45125 | 0.52775 |
| I33_RS17235 | 0.2024 | 1.7024 | 0.11892 |
| I33_RS17240 | 0.0098 | 0.17335 | 0.056525 |
| 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 | 0.007 | 0.367 | 0.01915 |
| I33_RS17285 | 0.0419 | 0.2644 | 0.16229 |
| I33_RS17295 | 0.0477 | 0.3434 | 0.13893 |
| I33_RS17300 | 0.0108 | 0.3164 | 0.03408 |
| I33_RS17310 | 0.0193 | 0.243 | 0.07941 |
| I33_RS17315 | 0.0498 | 0.3177 | 0.152115 |
| I33_RS17320 | 0.026 | 0.3108 | 0.08353 |
| I33_RS17325 | 0.062 | 0.3427 | 0.18103 |
| I33_RS17345 | 0.0905 | 0.4431 | 0.20434 |
| I33_RS17355 | 0.0305 | 0.3837 | 0.07942 |
| I33_RS17360 | 0.0137 | 0.3332 | 0.04104 |
| I33_RS17365 | 0.018 | 0.331 | 0.05424 |
| I33_RS17385 | 0.0305 | 0.3592 | 0.08483 |
| I33_RS17395 | 0.0255 | 0.3334 | 0.07633 |
| I33_RS17400 | 0.0349 | 0.3599 | 0.09685 |
| I33_RS17410 | 0.08195 | 0.1268 | 499.5 |
| I33_RS17415 | 0.0399 | 0.3746 | 0.10647 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|---------------------|
| I33_RS17420 | 0.0541 | 0.3802 | 0.14217 |
| I33_RS17425 | 0.0656 | 0.359 | 0.18288 |
| I33_RS17440 | 0.05325 | 0.3107 | 0.172745 |
| I33_RS17455 | 0.0446 | 0.3895 | 0.11458 |
| I33_RS17460 | 0.0251 | 0.3821 | 0.06578 |
| I33_RS17465 | 0.0339 | 0.3391 | 0.1 |
| I33_RS17470 | 0.0136 | 0.316 | 0.043 |
| I33_RS17480 | 0.016 | 0.2566 | 0.06226 |
| I33_RS17485 | 0.0196 | 0.2837333333333333 | 0.0759566666666667 |
| I33_RS17490 | 0.0765 | 0.5045 | 0.15164 |
| I33_RS17520 | 0.02833333333333333 | 0.3311 | 0.08265333333333333 |
| I33_RS17525 | 0.0536 | 0.49325 | 0.10766 |
| I33_RS17545 | 0.1477 | 0.0002 | 591.81958 |
| I33_RS17605 | 0.0207 | 0.6039 | 0.03434 |
| I33_RS17610 | 0.01555 | 0.34865 | 0.044615 |
| I33_RS17620 | 0.0247 | 0.2837 | 0.0871 |
| I33_RS17630 | 0.0342 | 0.5724 | 0.05967 |
| I33_RS17635 | 0.0382 | 0.3735 | 0.10238 |
| I33_RS17650 | 0.0388 | 0.33555 | 0.116435 |
| I33_RS17655 | 0.0195 | 0.2919 | 0.06668 |
| I33_RS17665 | 0.0771 | 0.3234 | 0.23843 |
| 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_RS17720 | 0.0187 | 0.2712 | 0.06906 |
| I33_RS17730 | 0.0239 | 0.4242 | 0.05646 |
| I33_RS17740 | 0.3736 | 1.5768 | 0.2369 |
| I33_RS17745 | NA | NA | NA |
| I33_RS17750 | 0.0577 | 0.5268 | 0.10958 |
| I33_RS17760 | 0.0269 | 0.4303 | 0.06248 |
| I33_RS17770 | 0.0386666666666667 | 0.3604333333333333 | 0.1163366666666667 |
| I33_RS17775 | 0.0378 | 0.2953 | 0.12799 |
| I33_RS17780 | 0.0067 | 0.3193 | 0.02111 |
| I33_RS17785 | 0.0169 | 0.3309 | 0.05107 |
| I33_RS17800 | 0.05 | 0.3823 | 0.13069 |
| 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 | 0.0371 | 0.3903 | 0.095 |
| I33_RS17840 | 0.0517 | 0.3793 | 0.13634 |
| I33_RS17845 | 0.0268 | 0.3573 | 0.07508 |
| I33_RS17865 | 0.036 | 0.4024 | 0.08939 |
| I33_RS17905 | 0.02015 | 0.2543 | 0.09613 |
| I33_RS17910 | 0.02605 | 0.2755 | 0.09494 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| I33_RS17920 | 0.0108 | 0.3222 | 0.03367 |
| I33_RS17940 | 0.0075 | 0.3014 | 0.03337 |
| I33_RS17955 | 0.0146 | 0.2412 | 0.0607 |
| I33_RS17960 | 0.0107 | 0.8491 | 0.042275 |
| 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 | 0.03128 | 0.27126 | 0.121818 |
| I33_RS18010 | 0.0786 | 0.8303 | 0.09465 |
| I33_RS18015 | 0.0549 | 0.2275 | 0.24122 |
| I33_RS18020 | 0.57595 | 6.00515 | 0.11837 |
| I33_RS18025 | 0.300875 | 42.780775 | 0.0711625 |
| I33_RS18030 | 0.02235 | 0.3717 | 0.060175 |
| I33_RS18045 | 0.037 | 0.2298666666666667 | 0.1665333333333333 |
| I33_RS18055 | 0.0492 | 0.2628 | 0.18706 |
| I33_RS18060 | 0.0492 | 0.3087 | 0.15133 |
| 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 | 0.0906 | 0.4051 | 0.22365 |
| I33_RS18085 | 13.69434 | 31.10118 | 203.832012 |
| I33_RS18090 | 0.0027 | 0.3153 | 0.00869 |
| I33_RS18110 | NA | NA | NA |
| I33_RS18115 | 0.25185 | 5.03455 | 0.03509 |
| I33_RS18120 | 4.84758 | 14.85112 | 0.441456 |
| I33_RS18130 | 0.2261 | 3.4644 | 0.06525 |
| I33_RS18135 | 0.3323 | 3.1942 | 0.10403 |
| I33_RS18145 | 0.26 | 3.6568 | 0.07109 |
| I33_RS18150 | 5.8018 | 46.60483333333333 | 0.0715333333333333 |
| I33_RS18155 | 1.15944 | 18.90194 | 0.170824 |
| I33_RS18165 | 2.213466666666667 | 110.0927 | 0.07289 |
| I33_RS18170 | 40.4889 | 0.4507 | 89.82887 |
| I33_RS18185 | 0.0584 | 2.879 | 0.02029 |
| I33_RS18225 | 0.2182 | 5.2587 | 0.04149 |
| I33_RS18240 | 12.9096 | NA | 44.6896036363636 |
| I33_RS18245 | 11.301166666666667 | NA | 69.51995333333333 |
| I33_RS18250 | NA | NA | NA |
| I33_RS18255 | 8.746433333333333 | 77.6063 | 0.47523 |
| I33_RS18260 | 7.15725 | NA | 0.2273 |
| I33_RS18270 | 0.0661 | 0.3886 | 0.17013 |
| I33_RS18285 | 0.0553 | 0.3598 | 0.15381 |
| I33_RS18300 | 0.1058 | 1.3501 | 0.07838 |
| I33_RS18305 | 0.1142 | 0.8427 | 0.13555 |
| I33_RS18320 | 0.3123 | 2.865833333333333 | 0.1009066666666667 |
| I33_RS18345 | 0.01475 | 0.30965 | 0.03907 |
| I33_RS18355 | 0.0035 | 0.1505 | 0.02304 |
| I33_RS18370 | 0.0488 | 0.3524 | 0.13847 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-------------------|
| I33_RS18380 | 0.0227 | 0.4703 | 0.04823 |
| I33_RS18385 | 0.0107 | 0.2635 | 0.04066 |
| I33_RS18390 | 0.04865 | 0.3786 | 0.126615 |
| I33_RS18400 | 0.0146 | 0.2499 | 0.05851 |
| I33_RS18405 | 0.05105 | 0.85655 | 0.055295 |
| I33_RS18430 | 0.0475 | 0.4604 | 0.10315 |
| I33_RS18440 | 0.0646 | 0.38025 | 0.194295 |
| I33_RS18445 | 0.0541 | 0.3901 | 0.13867 |
| I33_RS18455 | 0.0195 | 0.388266666666667 | 0.04983 |
| I33_RS18485 | 0.02 | 0.396566666666667 | 0.048786666666667 |
| I33_RS18490 | 0.2257 | 0.7743 | 0.29152 |
| I33_RS18500 | 0.0279 | 0.278 | 0.10047 |
| I33_RS18505 | 0.05845 | 0.28865 | 0.200105 |
| I33_RS18510 | 0.0154 | 0.1511 | 0.10205 |
| I33_RS18520 | 0.024 | 0.2637 | 0.09102 |
| I33_RS18535 | 0.0144 | 0.3691 | 0.03892 |
| I33_RS18560 | 0.021 | 0.1532 | 0.13693 |
| I33_RS18565 | 0.0657666666666667 | 0.394566666666667 | 0.1732 |
| I33_RS18570 | 0.01195 | 0.2249 | 0.05981 |
| I33_RS18575 | 0.0134 | 0.2589 | 0.05156 |
| I33_RS18580 | 0.0262 | 0.3803 | 0.06898 |
| I33_RS18585 | 0.0014 | 0.0947 | 0.01488 |
| I33_RS18590 | 0 | 0.0713 | 0 |
| I33_RS18595 | 0.01185 | 0.24555 | 0.045525 |
| I33_RS18600 | 0.0513 | 0.3148 | 0.16301 |
| I33_RS18610 | 0.0161 | 0.362 | 0.04457 |
| I33_RS18620 | 0.0256 | 0.3884 | 0.06588 |
| I33_RS18625 | 0.0529 | 0.337 | 0.17704 |
| I33_RS18635 | 0.0059 | 0.2971 | 0.01983 |
| I33_RS18640 | 0.038 | 0.2937 | 0.12949 |
| I33_RS18645 | 0.0733 | 0.34265 | 0.2002 |
| I33_RS18650 | 0.0730666666666667 | 0.4266333333333333 | 0.16577 |
| I33_RS18660 | 0.0159 | 0.2261 | 0.07038 |
| I33_RS18665 | 0.0113 | 0.3611 | 0.03123 |
| I33_RS18670 | 0.1853 | 0.1650333333333333 | 333.091876666667 |
| I33_RS18675 | 0.0473 | 0.3379 | 0.14 |
| I33_RS18680 | 0.0125 | 0.3208 | 0.03885 |
| I33_RS18685 | 0.0208 | 0.27245 | 0.082745 |
| I33_RS18690 | 0.0682 | 0.2272 | 0.30035 |
| I33_RS18695 | 0.0356 | 0.4516 | 0.07889 |
| I33_RS18705 | 0.0219 | 0.3105 | 0.07045 |
| I33_RS18720 | 0.01415 | 0.27065 | 0.053985 |
| I33_RS18730 | 0.0231 | 0.2365 | 0.09763 |
| I33_RS18735 | 0.0384 | 0.2919 | 0.13165 |
| I33_RS18740 | 0.0022 | 0.1422 | 0.0154 |
| I33_RS18745 | 0.0355666666666667 | 0.257366666666667 | 0.176226666666667 |
| I33_RS18750 | 0.0051 | 0.1458 | 0.03488 |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|--------------------|--------------------|
| 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 | 0.003 | 0.3175 | 0.00949 |
| I33_RS18795 | 0.03345 | 0.21135 | 0.15942 |
| I33_RS18805 | 0.0228 | 0.3572 | 0.06393 |
| I33_RS18810 | 0.0313 | 0.3736 | 0.08375 |
| I33_RS18815 | 0.0323 | 0.2450666666666667 | 0.1544366666666667 |
| I33_RS18820 | 0.05425 | 0.24145 | 0.25906 |
| I33_RS18825 | 0.0013 | 0.2165 | 0.00611 |
| I33_RS18830 | 0.051 | 0.1859 | 0.27421 |
| I33_RS18835 | 0.028 | 0.2266 | 0.12343 |
| I33_RS18840 | 0.0056 | 0.2205 | 0.02541 |
| I33_RS18845 | 0.0242 | 0.2108 | 0.11497 |
| I33_RS18850 | 0 | 0.0209 | 0 |
| I33_RS18855 | 0 | 0.2443 | 0 |
| I33_RS18860 | 0.0044 | 0.2545 | 0.01726 |
| I33_RS18865 | 0.0022 | 0.2486 | 0.00884 |
| I33_RS18870 | 0.0092 | 0.1553 | 0.05941 |
| I33_RS18875 | 0.0047 | 0.0996 | 0.04675 |
| I33_RS18880 | 0 | 0.3943 | 0 |
| I33_RS18885 | 0.01565 | 0.23605 | 0.093985 |
| I33_RS18890 | 0.15245 | 69.64855 | 0.05018 |
| I33_RS18895 | 0.0184 | 0.3598 | 0.05114 |
| I33_RS18910 | 0.09275 | 0.72715 | 0.12816 |
| I33_RS18915 | 0.02145 | 0.32885 | 0.065735 |
| I33_RS18940 | 0.0238 | 0.3451 | 0.06883 |
| I33_RS18945 | 0.0349 | 0.35275 | 0.1039025 |
| I33_RS18950 | 0.0173 | 0.2147 | 0.08036 |
| I33_RS18955 | 0.0697 | 0.402 | 0.17352 |
| I33_RS18960 | 0.01595 | 0.34045 | 0.04605 |
| I33_RS18965 | 0.0099 | 0.2797 | 0.03545 |
| I33_RS18980 | 0 | 0.0413 | 0 |
| I33_RS18990 | 0.0167 | 0.2326 | 0.07194 |
| I33_RS19000 | 0 | 0.1044 | 0 |
| I33_RS19005 | 0.0164 | 0.247 | 0.06621 |
| I33_RS19015 | 0.05625 | 0.3314 | 0.171995 |
| I33_RS19025 | 0.0468 | 0.3044 | 0.15382 |
| I33_RS19035 | 0.0983 | 0.391 | 0.25137 |
| I33_RS19045 | 0.0277 | 0.29625 | 0.093605 |
| I33_RS19050 | 0.0083 | 0.2333 | 0.03547 |
| I33_RS19055 | 0.0035 | 0.2867 | 0.01204 |
| I33_RS19060 | 0.0194 | 0.3307 | 0.05876 |
| I33_RS19065 | 0.0209 | 0.3565 | 0.058155 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|--------------------|--------------------|
| 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 | 0.0167 | 0.2711666666666667 | 0.0641966666666667 |
| I33_RS19110 | 0.0474 | 0.4066 | 0.116565 |
| I33_RS19115 | 0.0162 | 0.29075 | 0.06184 |
| I33_RS19125 | 0.0086 | 0.1749 | 0.04901 |
| I33_RS19130 | 0.0109 | 0.3246 | 0.03357 |
| I33_RS19140 | 0.04445 | 0.3107 | 0.14264 |
| I33_RS19150 | 0.0175 | 0.2609 | 0.06699 |
| I33_RS19160 | 0.0069 | 0.3381 | 0.02039 |
| I33_RS19170 | 0.0321 | 0.3603 | 0.08899 |
| I33_RS19175 | 0.008 | 0.4332 | 0.01852 |
| I33_RS19195 | 0.0217 | 0.3176 | 0.06816 |
| I33_RS19210 | 0.0201 | 0.3269 | 0.06133 |
| I33_RS19220 | 0.0138 | 0.3949 | 0.03504 |
| I33_RS19225 | 0.0165 | 0.3974 | 0.045195 |
| I33_RS19230 | 0.0064 | 0.2959 | 0.02168 |
| I33_RS19235 | 0.022 | 0.3342 | 0.06572 |
| I33_RS19240 | 0.0229 | 0.2795 | 0.08194 |
| I33_RS19245 | 0.0841 | 0.3087 | 0.272915 |
| 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 | 0.0158 | 0.2202 | 0.070915 |
| I33_RS19285 | 0.0267 | 0.3002 | 0.089 |
| I33_RS19295 | 0.0478 | 0.3764 | 0.12697 |
| I33_RS19300 | 0.0207 | 0.423 | 0.056625 |
| I33_RS19315 | 0.0054 | 0.2155 | 0.02509 |
| I33_RS19320 | 0.0418 | 0.4394 | 0.0952 |
| I33_RS19330 | 0.0177 | 0.6298 | 0.02809 |
| I33_RS19340 | 0.0484 | 0.5821 | 0.08316 |
| I33_RS19345 | 0 | 0.2564 | 0 |
| I33_RS19355 | 0.0241 | 0.3112 | 0.07741 |
| I33_RS19370 | 0.0298 | 0.4088 | 0.07295 |
| I33_RS19375 | 0.0231 | 0.2838 | 0.08122 |
| I33_RS19380 | 0.0789 | 1.4895 | 0.063335 |
| I33_RS19385 | 0 | 0.189 | 0 |
| I33_RS19390 | 0.0125 | 0.10685 | 0.114875 |
| I33_RS19395 | 0.0035 | 0.2024 | 0.01741 |
| I33_RS19400 | 0.0091 | 0.1638 | 0.05562 |
| I33_RS19410 | 0.0344 | 0.3199 | 0.10745 |
| I33_RS19415 | 0.0279 | 0.24995 | 0.108205 |
| I33_RS19420 | 0.02785 | 0.2214 | 0.20491 |
| I33_RS19435 | 0.0193 | 0.343 | 0.05628 |

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Table S2 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------------------|--------------------|--------------------|
| I33_RS19445 | 0.0261 | 0.3246 | 0.08027 |
| I33_RS19450 | 0.0375 | 0.185 | 0.20252 |
| I33_RS19460 | 0.5762 | NA | 0.24299 |
| I33_RS19475 | 0.0237 | 0.2453 | 0.0951466666666667 |
| I33_RS19480 | 0.035925 | 0.340525 | 0.11176 |
| I33_RS19485 | 0.0245 | 0.5643 | 0.04337 |
| I33_RS19500 | 0.0501 | 0.2075 | 0.24145 |
| I33_RS19515 | 0.0323 | 0.344 | 0.09396 |
| I33_RS19520 | 0.0244 | 0.2164 | 0.1127 |
| I33_RS19530 | 0.04845 | 0.48695 | 0.100805 |
| I33_RS19540 | 0.0189 | 0.3271 | 0.05772 |
| I33_RS19545 | 0.0434 | 0.4884 | 0.08885 |
| I33_RS19550 | 0.0455 | 0.3906 | 0.1164 |
| I33_RS19555 | 0.0075 | 0.2174 | 0.03461 |
| I33_RS19560 | 0.0125 | 0.1728 | 0.05509 |
| I33_RS19570 | 0.0062 | 0.1858 | 0.03337 |
| I33_RS19575 | 0.0089 | 0.16215 | 0.070795 |
| I33_RS19580 | 0.0202 | 0.2351 | 0.084155 |
| I33_RS19610 | 0.01935 | 0.3621 | 0.05343 |
| I33_RS19615 | 0 | 0.1858 | 0 |
| I33_RS19620 | 0.0397 | 0.2532 | 0.15677 |
| I33_RS19635 | 0.0216 | 0.2546 | 0.08491 |
| I33_RS19640 | 0.0504666666666667 | 0.4236333333333333 | 0.1195033333333333 |
| I33_RS19650 | 0.064125 | 0.3389 | 0.2018325 |
| I33_RS19655 | 0.0375 | 0.2755 | 0.13604 |
| I33_RS19665 | 0.0096 | 0.2086 | 0.04611 |
| I33_RS19670 | 0 | 0.2605 | 0 |
| I33_RS19675 | 0.0541 | 0.3267 | 0.16567 |
| I33_RS19685 | 0.0267 | 0.4133 | 0.06463 |
| I33_RS19700 | 0.0085 | 0.2303 | 0.03702 |
| I33_RS19710 | 0.0119 | 0.3392 | 0.03503 |
| I33_RS19730 | 0.0686 | 0.4074 | 0.16842 |
| I33_RS19735 | 0.0693 | 3.0793 | 0.267315 |
| I33_RS19740 | 0.0582 | 0.3509 | 0.1658 |
| I33_RS19755 | 0.0038 | 0.4002 | 0.0094 |
| 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 | 0.0346 | 0.4623 | 0.07406 |
| I33_RS19845 | 0.016 | 0.2957 | 0.05423 |
| I33_RS19850 | 0.0099 | 0.1541 | 0.032155 |
| I33_RS19855 | 0.0252 | 0.2997 | 0.08395 |
| I33_RS19860 | 0.0371 | 0.3554 | 0.10446 |
| I33_RS19870 | 0.1124 | 0.4263 | 0.26379 |
| I33_RS19880 | 0.0095 | 0.2834 | 0.03343 |
| I33_RS19885 | 0.03815 | 0.42995 | 0.09408 |
| U712_RS01560 | 0.0379 | 0.3613 | 0.10496 |

Continued on next page

Table S2 – continued from previous page

| Gene | dN | dS | ω |
|--------------|---------|----------|----------|
| U712_RS01695 | 0.0148 | 0.2573 | 0.05758 |
| U712_RS01705 | 0.0037 | 0.3353 | 0.01098 |
| U712_RS02675 | 0.0055 | 0.266 | 0.02079 |
| U712_RS03230 | 0.0495 | 0.4749 | 0.10426 |
| 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_RS06455 | 16.2966 | 19.1705 | 0.85009 |
| U712_RS07205 | 0.0163 | 0.1356 | 0.12042 |
| U712_RS07390 | 0.0266 | 0.3026 | 0.08789 |
| U712_RS07555 | 0 | 0.312 | 0 |
| U712_RS07600 | 0.039 | 0.206 | 0.18946 |
| 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_RS09105 | 0.442 | 0.7995 | 0.55282 |
| U712_RS09120 | 0.0351 | 0.172 | 0.20391 |
| U712_RS09125 | 0.0268 | 0.2633 | 0.10183 |
| U712_RS09155 | 0.0293 | 0.28 | 0.10472 |
| U712_RS09160 | 0 | 0.0701 | 0 |
| U712_RS09230 | 0.0061 | 0.2764 | 0.02198 |
| U712_RS09315 | 0.0409 | 0.3151 | 0.12964 |
| U712_RS13800 | 0.0255 | 0.3612 | 0.07069 |
| U712_RS13875 | 0.0561 | 0.4831 | 0.11608 |
| U712_RS14245 | 0.0343 | 0.3454 | 0.09941 |
| U712_RS14765 | 0.033 | 0.3246 | 0.1016 |
| U712_RS14770 | 0.0155 | 0.3807 | 0.04082 |
| U712_RS14775 | 0.02885 | 0.2892 | 0.104195 |
| U712_RS14795 | 0.0118 | 0.2831 | 0.04155 |
| U712_RS14835 | 0.008 | 0.2006 | 0.03991 |
| U712_RS15505 | 0.0162 | 0.336 | 0.04837 |
| U712_RS15565 | 0.3529 | 2.1554 | 0.16374 |
| U712_RS16285 | 1.2065 | 14.4744 | 0.08335 |
| U712_RS16725 | 0.0421 | 0.3829 | 0.10999 |
| U712_RS17415 | 0.0261 | 0.3617 | 0.07212 |
| U712_RS17840 | 0.0764 | 0.39 | 0.19584 |
| U712_RS18005 | 0.0192 | 0.3057 | 0.06288 |
| U712_RS18265 | 0.8792 | 128.3946 | 0.00685 |
| U712_RS18285 | 0.1174 | 3.3351 | 0.0352 |
| U712_RS19730 | 0.0183 | 0.5565 | 0.03287 |
| U712_RS20030 | 3.1854 | 0.2712 | 11.74558 |
| U712_RS20080 | 0.9759 | 59.4675 | 0.01641 |
| U712_RS20120 | 0.0215 | 0.3733 | 0.05769 |
| U712_RS20135 | 0.0415 | 0.2937 | 0.14116 |
| U712_RS20140 | 0.0293 | 0.2297 | 0.12776 |

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

| <i>Streptomyces</i> | | | |
|---------------------|----------|--------------------|-----------|
| Gene | dN | dS | ω |
| AQF52_0291 | 0.9049 | 0.9976 | 0.9071 |
| AQF52_0314 | 1.2971 | 0.63475 | 2.017845 |
| AQF52_0604 | NA | 4.10145 | 0.87729 |
| AQF52_0668 | 0.9854 | 3.9505 | 1.41312 |
| AQF52_0685 | 38.09665 | 5.2296 | 5.154245 |
| AQF52_0722 | 1.3975 | 0.4849 | 2.88196 |
| AQF52_0755 | 26.54585 | 1.5786 | 12.856815 |
| AQF52_0756 | 0.9678 | 0.7367 | 333.71969 |
| AQF52_0802 | 0.4711 | 0.3547 | 1.32818 |
| AQF52_0803 | 0.3887 | 0.1647 | 2.35946 |
| AQF52_0859 | 1.6863 | 1.29455 | 1.72243 |
| AQF52_0882 | 1.1904 | 0.4513 | 2.63758 |
| AQF52_0883 | 17.2694 | 7279.2386 | 0.348695 |
| AQF52_0891 | 1.0825 | 0.5395 | 2.00667 |
| AQF52_0901 | 0.4235 | 0.281 | 1.50725 |
| AQF52_0917 | 0.3031 | 0.1875 | 1.61638 |
| AQF52_0925 | 27.65725 | 2.30855 | 7.23573 |
| AQF52_0926 | 11.3412 | 1.7812 | 6.36719 |
| AQF52_0933 | 0.3635 | 0.162 | 2.2435 |
| AQF52_0988 | 0.3472 | 0.1481 | 2.34437 |
| AQF52_1002 | 0.645 | 0.4693 | 1.37427 |
| AQF52_1069 | 0.3985 | 0.1479 | 2.6945 |
| AQF52_1079 | 3.5976 | 32.53203333333333 | 1.19882 |
| AQF52_1111 | 0.274 | 0.1313 | 2.08686 |
| AQF52_1123 | 0.4717 | 0.4656 | 1.01309 |
| AQF52_1208 | 0.314 | 0.1682 | 1.86656 |
| AQF52_1210 | 0.3528 | 0.2315 | 1.5241 |
| AQF52_1245 | 0.94775 | 1.71265 | 0.59174 |
| AQF52_1261 | 9.40576 | 0.58174 | 252.58978 |
| AQF52_1345 | 0.4632 | 0.2643 | 1.75249 |
| AQF52_1376 | 0.3569 | 0.253 | 1.41072 |
| AQF52_1399 | 0.4486 | 0.4627 | 0.96949 |
| AQF52_1423 | 0.2263 | 0.0486 | 4.65552 |
| AQF52_1443 | 0.1254 | 0.1288 | 0.97287 |
| AQF52_1449 | 0.9995 | NA | 4.123504 |
| AQF52_1454 | 5.8264 | 3.9794 | 1.1347 |
| AQF52_1511 | 0.2265 | 0.2721 | 0.83224 |
| AQF52_1582 | 2.4678 | 1.799775 | 1.6667225 |
| AQF52_1692 | 23.9191 | 0.8473666666666667 | 63.04948 |
| AQF52_1693 | 2.36175 | 1.97645 | 1.7632 |
| AQF52_1703 | 1.0801 | 2.1416 | 0.487825 |
| AQF52_1755 | 0.3404 | 0.2994 | 1.13689 |
| AQF52_1887 | 0.2882 | 0.0847 | 3.40188 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|------------|-------------------|-------------------|-------------------|
| AQF52_1946 | NA | 7.3833 | 1.5450875 |
| AQF52_1973 | 1.68723333333333 | 0.709466666666667 | 2.38758333333333 |
| AQF52_2016 | 0.2248 | 0.1112 | 2.02091 |
| AQF52_2052 | 0.2468 | 0.1046 | 2.36034 |
| AQF52_2136 | 0.48195 | 0.4344 | 1.17549 |
| AQF52_2207 | 1.1222 | 0.0011 | 999 |
| AQF52_2252 | 0.9593 | 2.5093 | 0.38231 |
| AQF52_2284 | 16.2615333333333 | 6.5933 | 11.8803233333333 |
| AQF52_2292 | 8.07945 | 34.6285 | 0.6446 |
| AQF52_2301 | 0.2961 | 0.1676 | 1.76688 |
| AQF52_2313 | 3.1999 | 1.0632 | 3.0096 |
| AQF52_2346 | 2.2809 | 0.970933333333333 | 2.87822333333333 |
| AQF52_2400 | 0.279 | 0.2362 | 1.18108 |
| AQF52_2425 | 22.45195 | 1.96175 | 7.060705 |
| AQF52_2428 | 1.07553333333333 | 383.793516666667 | 0.728466666666667 |
| AQF52_2429 | 12.8251222222222 | 2.0697 | 7.21884333333333 |
| AQF52_2500 | 0.520333333333333 | 0.575133333333333 | 0.976573333333333 |
| AQF52_2540 | 1.1142 | 0.5862 | 1.90075 |
| AQF52_2561 | 0.0002 | 2.4513 | 0.0001 |
| AQF52_2581 | 0.2046 | 0.1893 | 1.08055 |
| AQF52_2587 | 0.4439 | 0.2707 | 1.6401 |
| AQF52_2588 | 0.2957 | 0.1964 | 1.50569 |
| AQF52_2589 | 0.331833333333333 | 93.6297333333333 | 1.08161333333333 |
| AQF52_2606 | 0.25725 | 56.76665 | 1.80425 |
| AQF52_2716 | 0.3262 | 13.9735 | 0.43589 |
| AQF52_2747 | 0.3311 | 0.4368 | 0.75781 |
| AQF52_2748 | 0.2211 | 0.1066 | 2.07452 |
| AQF52_2762 | 0.0003 | 2.6452 | 0.0001 |
| AQF52_2775 | 0.3223 | 0.2835 | 1.13682 |
| AQF52_2797 | 0.2968 | 0.2291 | 1.29565 |
| AQF52_2879 | 0.472 | 0.3544 | 1.33196 |
| AQF52_2882 | 0.2905 | 0.12145 | 2.392215 |
| AQF52_2885 | 61.4199 | 9.0657 | 6.77499 |
| AQF52_2889 | 0.5858 | 0.4889 | 1.19806 |
| AQF52_2902 | 42.3952 | 39.3713 | 1.58871333333333 |
| AQF52_2920 | 1.3951 | 3.3076 | 0.42178 |
| AQF52_3034 | 0.2079 | 0.1449 | 1.43498 |
| AQF52_3036 | 0.5064 | 0.2449 | 2.06793 |
| AQF52_3066 | 0.2612 | 0.0895 | 2.91711 |
| AQF52_3077 | 0.3341 | 0.303 | 1.10253 |
| AQF52_3084 | 0.8716 | 0.476 | 1.83106 |
| AQF52_3093 | 0.1773 | 0.0875 | 2.02601 |
| AQF52_3100 | 0.5204 | 0.2052 | 2.53635 |
| AQF52_3112 | 1.4166 | 0.442 | 3.20528 |
| AQF52_3134 | 0.4193 | 0.2758 | 1.52047 |
| AQF52_3151 | 0.2947 | 0.1899 | 1.55143 |
| AQF52_3156 | 0.3506 | 0.1642 | 2.13537 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|------------|-------------------|--------------------|-------------------|
| AQF52_3157 | 0.5818375 | 9.8276375 | 2.373345 |
| AQF52_3158 | 0.4902 | 0.3733 | 1.472975 |
| AQF52_3172 | 0.9451 | 21.48585 | 0.94511 |
| AQF52_3290 | 0.2705 | 0.1086 | 2.49011 |
| AQF52_3302 | 0.4363 | 0.2442 | 1.78692 |
| AQF52_3326 | 0.1993 | 0.0875 | 2.27773 |
| AQF52_3357 | 0 | 0 | 0 |
| AQF52_3359 | 0.3525 | 0.0557 | 6.32935 |
| AQF52_3367 | 0.1997 | 0.1462 | 1.36593 |
| AQF52_3368 | 0.2637 | 0.1369 | 1.92596 |
| AQF52_3376 | 0.4751 | 0.2894 | 1.64134 |
| AQF52_3387 | 0.2615 | 0.1394 | 1.87547 |
| AQF52_3388 | 0.263 | 0.1494 | 1.76069 |
| AQF52_3391 | 0.1486 | 0.0475 | 3.13057 |
| AQF52_3395 | 0.3805 | 0.1146 | 3.31975 |
| AQF52_3487 | 0.285 | 9.714 | 0.02934 |
| AQF52_3496 | 3.6054 | 25.0126 | 0.14414 |
| AQF52_3717 | 21.6248 | 0.0216 | 999 |
| AQF52_3731 | 0.6813 | 285.2664 | 0.85664 |
| AQF52_3761 | 0.5346 | 0.2297 | 2.32709 |
| AQF52_3774 | 0.4162 | 0.2236 | 1.86142 |
| AQF52_3776 | 53.3894 | 0.897 | 59.51964 |
| AQF52_3790 | 0.449075 | 0.5588 | 0.8472825 |
| AQF52_3805 | 2.1953 | 2.8859 | 0.76069 |
| AQF52_3806 | 5.4808 | 14.0247 | 0.3908 |
| AQF52_3822 | 4.7698875 | NA | 3.82894 |
| AQF52_3823 | 5.4183 | 34.5491 | 0.15683 |
| AQF52_3852 | 0.2679 | 0.094 | 2.85159 |
| AQF52_3866 | 28.5041 | 106.0162 | 0.26887 |
| AQF52_3868 | 0.3376 | 0.3504 | 499.90858 |
| AQF52_3904 | 0.1864 | 0.0428 | 4.35959 |
| AQF52_3907 | 0.5131 | 0.3653 | 1.40466 |
| AQF52_3913 | 0.2569 | 0.1551 | 1.65609 |
| AQF52_3925 | 0.2831 | 0.146 | 1.93921 |
| AQF52_3964 | 0.6555 | 0.0007 | 999 |
| AQF52_3981 | 1.3213 | 0.6679 | 1.97823 |
| AQF52_3982 | 2.3731 | 1.0744 | 2.20887 |
| AQF52_4061 | 18.76393333333333 | 1.2164 | 36.38810333333333 |
| AQF52_4077 | 0.39 | 0.0004 | 999 |
| AQF52_4248 | 6.525818181818181 | 0.7944636363636363 | 3.64559090909091 |
| AQF52_4262 | 0.2316 | 0.1645 | 1.40806 |
| AQF52_4267 | 17.0175 | 0.7475666666666667 | 22.48665666666667 |
| AQF52_4269 | 78.0606 | 3.0066 | 25.96313 |
| AQF52_4286 | 0.6154 | 0.5002 | 1.2303 |
| AQF52_4297 | 7.840616666666667 | NA | 168.0650466666667 |
| AQF52_4311 | 17.52885 | 30.50845 | 0.595315 |
| AQF52_4313 | 44.8159 | 0.0449 | 999 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|--------------------|--------------------|
| AQF52_4335 | 0.3212 | 0.1871 | 1.71674 |
| AQF52_4390 | 29.32596666666667 | 1.826133333333333 | 16.53075333333333 |
| AQF52_4403 | 1.6708 | 0.31675 | 501.229715 |
| AQF52_4431 | 0.1865 | 0.19505 | 0.478035 |
| AQF52_4563 | 0.2008 | 0.2601 | 0.77189 |
| AQF52_4564 | 0.4414 | 0.2526333333333333 | 1.994863333333333 |
| AQF52_4642 | 15.81006666666667 | 1.035633333333333 | 71.17139666666667 |
| AQF52_4657 | 0.1143 | 0.047 | 2.43175 |
| AQF52_4660 | 0.2465 | 0.144 | 1.71223 |
| AQF52_4665 | 0.2641 | 0.2779 | 1.409165 |
| AQF52_4666 | 33.3738 | 0.0794 | 420.28167 |
| AQF52_4684 | 1.50897142857143 | 33.9901142857143 | 144.639888571429 |
| AQF52_4733 | 26.4894 | 62.8053 | 0.42177 |
| AQF52_4765 | 0.4566 | 0.3602 | 1.2679 |
| AQF52_4798 | 0.6761 | 1.1313 | 0.86556 |
| AQF52_4814 | 0.962433333333333 | 17.09803333333333 | 333.87275 |
| AQF52_4873 | 0.226 | 0.0895 | 2.52538 |
| AQF52_4913 | 0.5054 | 0.36 | 1.404 |
| AQF52_4931 | 0.7286666666666667 | 1.9042 | 0.488463333333333 |
| AQF52_4934 | 44.9599 | 0.7712 | 58.30055 |
| AQF52_4936 | 0 | 0 | 0 |
| AQF52_4938 | 0.3191 | 0.5969 | 0.591335 |
| AQF52_4945 | 16.67585 | 0.01675 | 499.5 |
| AQF52_4976 | 204.8768333333333 | NA | 13.40636666666667 |
| AQF52_5006 | 0.279 | 0.3937 | 0.70867 |
| AQF52_5085 | 0.3795 | 0.174 | 2.18118 |
| AQF52_5103 | 0.3979 | 0.3212 | 1.23886 |
| AQF52_5105 | 0.464 | 0.0892 | 5.19925 |
| AQF52_5123 | 0.3707 | 0.2577 | 1.43855 |
| AQF52_5182 | 1.3676 | 0.6593 | 2.07424 |
| AQF52_5184 | 0.4451 | 0.1683 | 2.64441 |
| AQF52_5191 | 0.5168666666666667 | 37.61973333333333 | 0.6838766666666667 |
| AQF52_5226 | 0.3298 | 0.3005 | 1.09759 |
| AQF52_5308 | 0.7662 | 0.7606 | 1.00735 |
| AQF52_5335 | 4.163033333333333 | 94.7429 | 0.95932 |
| AQF52_5337 | 0.8289 | 0.2957 | 2.781555 |
| AQF52_5367 | 0.4126 | 0.3044 | 1.35542 |
| AQF52_5370 | 0.9097 | 2.1584 | 333.3847966666667 |
| AQF52_5404 | 0.3381 | 0.259 | 1.30511 |
| AQF52_5409 | 0.94575 | 0.50735 | 2.01112 |
| AQF52_5419 | 0.3125 | 0.2553 | 1.22407 |
| AQF52_5455 | 0.3732 | 0.2171 | 1.71945 |
| AQF52_5519 | 0.225033333333333 | 0.2948 | 333.39321 |
| AQF52_5520 | 0.341 | 0.2239 | 1.52294 |
| AQF52_5534 | 0.2014 | 0.2267 | 0.88832 |
| AQF52_5539 | 10.9501 | 11.4491 | 0.95641 |
| AQF52_5570 | 0.3475 | 0.1688 | 2.05812 |

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| Gene | dN | dS | ω |
|------------|--------------------|--------------------|-------------------|
| AQF52_5618 | 17.6914 | 0.0177 | 999 |
| AQF52_5620 | 0.1557 | 0.0676 | 2.30373 |
| AQF52_5628 | 0.2086 | 0.0528 | 3.94981 |
| AQF52_5669 | 0.2166 | 0.1433 | 1.51183 |
| AQF52_5671 | 0.4183333333333333 | 0.2924666666666667 | 1.608073333333333 |
| AQF52_5729 | 0.2078 | 0.0879 | 2.36435 |
| AQF52_5736 | 0.6289 | 0.3142 | 2.00173 |
| AQF52_5737 | 0.1668 | 0.3053 | 0.54627 |
| AQF52_5782 | 0.70005 | 2415.72345 | 1.495805 |
| AQF52_5792 | 3.4489 | 0.0035 | 999 |
| AQF52_5797 | 2.6633 | 2.4527 | 1.08589 |
| AQF52_5799 | 0.2699 | 0.093 | 2.90127 |
| AQF52_5810 | 0.0941 | 0.1424 | 0.66122 |
| AQF52_5844 | 1.3149 | 2.45665 | 0.56139 |
| AQF52_5846 | 2.5856 | 0.87 | 2.97203 |
| AQF52_5867 | 0.5173 | 1.3663 | 0.37858 |
| AQF52_5916 | 0.3567 | 0.2327 | 1.53257 |
| AQF52_5945 | 0.1496 | 0.0694 | 2.15689 |
| AQF52_5959 | 1.7472 | 0.2932 | 5.95813 |
| AQF52_5982 | 23.4751 | 0.0235 | 999 |
| AQF52_6010 | 0.3845 | 0.36 | 1.0681 |
| AQF52_6059 | 0.7298 | 1.0716 | 1.076925 |
| AQF52_6154 | 1.5722 | 1.3026 | 1.207 |
| AQF52_6155 | 1.1667 | 0.7084 | 1.70714 |
| AQF52_6180 | 0.3767 | 0.37385 | 1.171175 |
| AQF52_6264 | NA | 2.09035 | 0.776405 |
| AQF52_6282 | 21.12165 | 1.923 | 7.01816 |
| AQF52_6284 | 3.99 | 0.866 | 4.60731 |
| AQF52_6305 | 12.406833333333333 | 0.6196 | 85.26191666666667 |
| AQF52_6432 | 0.2179 | 0.1215 | 1.79314 |
| AQF52_6492 | 0.4563 | 0.2868 | 1.59077 |
| AQF52_6978 | 23.74865 | 3.07595 | 6.319035 |
| AQF52_6997 | 12.83236 | NA | 203.965872 |
| AQF52_7021 | 0.48 | 0.4076 | 1.17764 |
| AQF52_7025 | 2.0062 | 1.5925 | 1.25974 |
| AQF52_7033 | 0.3827 | 0.1227 | 3.11823 |
| AQF52_7055 | 0.136 | 0.0498 | 2.72838 |
| AQF52_7223 | 0.6192 | 2.7478 | 0.22534 |
| AQF52_7228 | 8.8011 | 0.5723 | 15.37933 |
| AQF52_7264 | 0.4338 | 0.353 | 1.2289 |
| AQF52_7360 | 1.3582 | 1.875 | 0.72434 |
| AQF52_7361 | 0.8895 | 0.4249 | 2.09374 |
| AQF52_7375 | 36.5479 | 0.38715 | 312.694285 |
| AQF52_7404 | 21.305225 | 9.098325 | 260.5913175 |
| AQF52_7437 | 0.4034 | 0.2019 | 2.00951 |
| AQF52_7438 | 0.6366 | 1.0724 | 0.5936 |
| AQF52_7439 | 0.2077 | 0.1805 | 1.15059 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|------------|-------------------|--------------------|-------------------|
| AQF52_7442 | 0.2995 | 0.0536 | 5.58653 |
| AQF52_7458 | 1.222525 | 2.102025 | 1.4966625 |
| AQF52_7460 | 6.953033333333333 | 11.076333333333333 | 1.38508 |
| AQF52_7461 | 1.05674285714286 | 23.8937571428571 | 144.132707142857 |
| AQF52_7480 | 35.07995 | 2.75305 | 7.632815 |
| AQF52_7481 | 0.7827 | 1.912075 | 0.73133 |
| AQF52_7482 | 0.4662 | 0.3757 | 1.24083 |
| AQF52_7483 | 0.3849 | 0.1545 | 2.49117 |
| AQF52_7495 | 0.3289 | 0.1846 | 1.78191 |
| AQF52_7504 | 0.60955 | 1.0053 | 0.59291 |
| AQF52_7519 | 1.416 | 0.673 | 2.10397 |
| AQF52_7522 | 1.3859125 | 9.3254 | 1.5081775 |
| AQF52_7523 | 1.20646666666667 | 1.323083333333333 | 333.865266666667 |
| AQF52_7524 | 1.5631 | 1.2563 | 1.394123333333333 |
| AQF52_7526 | 0.1615 | 0.12605 | 0.640615 |
| AQF52_7539 | 0.6495 | 0.6303 | 1.03049 |
| AQF52_7543 | 1.967133333333333 | 1.10536666666667 | 2.37972666666667 |
| AQF52_7544 | 13.9575 | 0.0454 | 307.16793 |
| AQF52_7553 | 0.461466666666667 | 1.540433333333333 | 0.6835 |
| AQF52_7555 | 0.2487 | 0.1306 | 1.90477 |
| AQF52_7557 | 0.3122 | 0.1861 | 1.67733 |
| AQF52_7561 | NA | 31.9742 | 16.05596 |
| AQF52_7563 | 18.8961 | 1.21095 | 52.91702 |
| AQF52_7564 | 13.987 | 30.6513142857143 | 6.03477142857143 |
| AQF52_7569 | 0.2884 | 0.136 | 2.11975 |
| AQF52_7570 | 0.1864 | 0.0921 | 2.02382 |
| AQF52_7585 | 0.6132 | 0.4143 | 1.48023 |
| AQF52_7588 | 68.1623 | 0.1524 | 447.25172 |
| AQF52_7615 | 1.48591428571429 | 1.48127142857143 | 1.49032571428571 |
| AQF52_7616 | 2.060433333333333 | 0.893333333333333 | 3.86887 |
| AQF52_7618 | 13.71195 | 0.23215 | 501.2049 |
| AQF52_7620 | 0.3369 | 0.206 | 1.63518 |
| AQF52_7621 | 0.644 | 0.36315 | 0.88665 |
| AQF52_7622 | 0.2726 | 0.1245 | 2.18929 |
| AQF52_7628 | 0.1804 | 0.1054 | 1.71039 |
| AQF52_7631 | 1.2489 | 0.459966666666667 | 2.54653666666667 |
| AQF52_7641 | 0.4337 | 0.1451 | 2.98802 |
| AQF52_7656 | 0.6496 | 860.6175333333333 | 333.4671933333333 |
| AQF52_7662 | 0.702 | 0.9627 | 0.72918 |
| AQF52_7669 | 1.40585 | 40.8551 | 499.516195 |
| AQF52_7676 | 2.37778 | 9.72074 | 3.652186 |
| AQF52_7679 | 0.7208 | 0.0007 | 999 |
| AQF52_7680 | 4.6399 | 1.2967 | 3.57816 |
| AQF52_7685 | 2.7325 | 2.3932 | 1.1418 |
| AQF52_7698 | 1.919 | 1.0839 | 1.77054 |
| AQF52_7699 | 0 | 0 | 0 |
| AQF52_7707 | 33.8668 | 8.32475 | 500.261725 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| SCO3542 | 0.40875 | 0.12905 | 4.890615 |
| SCO3836 | 1.3379 | 0.9009 | 1.48507 |
| SCO5579 | 16.671 | 1.57725 | 6.703325 |
| SCO7425 | 1.6069 | 2.1568 | 0.74504 |
| SCO7477 | 0.6837 | 1.0436 | 0.65517 |
| SCO7527 | 0.25385 | 1.2448 | 0.205995 |
| SCO7555 | 0.4364 | 0.5224 | 0.83543 |
| SCO7606 | 1.8034 | 3.0337 | 0.59447 |
| SCO7649 | 8.3993 | 1.355366666666667 | 333.4536766666667 |
| SCO7672 | 0.7847 | 0.436 | 1.79974 |
| SCO7806 | 5.7153 | 180.7682 | 0.03162 |
| SLI_RS00620 | 5.7856 | 1.9578 | 2.95509 |
| SLI_RS00665 | 1.257 | 1.3223 | 0.95063 |
| SLI_RS00675 | 10.4012428571429 | NA | 1.97088857142857 |
| SLI_RS00985 | 0.7756 | 0.7055 | 1.09929 |
| SLI_RS01145 | 0.3144 | 0.187 | 1.68113 |
| SLI_RS01175 | 14.704 | 2.073733333333333 | 5.202466666666667 |
| SLI_RS01180 | 2.75805 | 0.3573 | 12.01355 |
| SLI_RS01295 | 0.97035 | 0.6583 | 1.480335 |
| SLI_RS01355 | 0.2929 | 0.1334 | 2.19506 |
| SLI_RS01780 | 0.3167 | 0.2337 | 1.35512 |
| SLI_RS01805 | 6.9498 | 23.7072 | 0.29315 |
| SLI_RS01870 | 0.5493 | 0.3892 | 1.41146 |
| SLI_RS02240 | 14.4595 | 1.190275 | 250.60355 |
| SLI_RS02355 | 0.6843 | 0.3083 | 2.21943 |
| SLI_RS02375 | 13.4244 | 16.6794 | 0.89075 |
| SLI_RS02415 | 1.3532 | 0.3303 | 4.09678 |
| SLI_RS02430 | 8.5955 | 0.634866666666667 | 26.21962 |
| SLI_RS02435 | 2.7619 | 1.1888 | 2.32331 |
| SLI_RS02440 | 0.6201 | 1.031 | 0.6014 |
| SLI_RS02595 | 1.3556 | 5.26915 | 0.3162 |
| SLI_RS02600 | 1.12995 | 0.47025 | 3.685795 |
| SLI_RS02665 | 1.0109 | 1.2989 | 0.77834 |
| SLI_RS02840 | 0.2709 | 0.3472 | 0.78015 |
| SLI_RS02905 | 3.6353 | 0.7224 | 5.03248 |
| SLI_RS02950 | 1.4213 | 3.6402 | 0.39044 |
| SLI_RS03025 | 0.644 | 0.2825 | 2.27981 |
| SLI_RS03130 | 1.791333333333333 | 0.5214 | 336.0502666666667 |
| SLI_RS03155 | 0.3592 | 0.1839 | 1.9526 |
| SLI_RS03180 | 16.6961 | 114.1309 | 0.574425 |
| SLI_RS03210 | 0.5338 | 0.2704 | 1.9741 |
| SLI_RS03255 | 3.1018 | 1.4576 | 2.12804 |
| SLI_RS03390 | 0.28 | 0.1354 | 2.06775 |
| SLI_RS03400 | 15.3948 | 1.0148 | 15.17067 |
| SLI_RS03440 | 0.7096 | 1.1115 | 0.66177 |
| SLI_RS03455 | 0.951971428571429 | 1.33337142857143 | 286.400941428571 |
| SLI_RS03460 | 2.967733333333333 | 9.3684 | 1.255766666666667 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-------------------|
| SLI_RS03465 | 21.21206 | 10.81876 | 155.307958 |
| SLI_RS03470 | 3.48965 | 11.78945 | 0.30925 |
| SLI_RS03480 | 41.3569 | 0.585 | 70.69706 |
| SLI_RS03485 | 1.3757 | 0.8428 | 1.6322 |
| SLI_RS03490 | 0.7524 | 1.1588 | 0.64927 |
| SLI_RS03505 | 0.61145 | 1.86625 | 0.59517 |
| SLI_RS03515 | 0.24105 | 0.1508 | 1.608565 |
| SLI_RS03530 | 0.4001 | 0.8485 | 0.4716 |
| SLI_RS03540 | 0.339 | 0.2582 | 1.31285 |
| SLI_RS03550 | 0.90045 | 0.43145 | 2.247685 |
| SLI_RS03555 | 8.0475 | 2.630766666666667 | 334.8882866666667 |
| SLI_RS03560 | 2.5041 | 1.5578 | 1.6075 |
| SLI_RS03625 | 0.7821 | 0.5457 | 1.43328 |
| SLI_RS03645 | 4.0462 | NA | 0.40062 |
| SLI_RS03650 | 0.66045 | 3.6641 | 0.505985 |
| SLI_RS03655 | 1.421733333333333 | 1.9008 | 1.006006666666667 |
| SLI_RS03660 | 6.8871 | 107.5313 | 0.06405 |
| SLI_RS03900 | 0.3967 | 0.2937 | 1.35071 |
| SLI_RS03950 | 0.9275 | 1.6773 | 0.55296 |
| SLI_RS04110 | 5.8704 | 5.22995 | 1.799835 |
| SLI_RS04125 | 3.82685 | 4.0715 | 2.6232625 |
| SLI_RS04210 | 0.63205 | 0.69225 | 1.241785 |
| SLI_RS04305 | 0.8111 | 0.6816 | 1.18997 |
| SLI_RS04390 | 28.0778 | 12.016266666666667 | 9.990326666666667 |
| SLI_RS04400 | 1.501 | 0.2495 | 6.01657 |
| SLI_RS04490 | 1.33705 | 0.3335 | 4.742395 |
| SLI_RS04520 | 0.4155 | 0.3089 | 1.34505 |
| SLI_RS04530 | 2.75431428571429 | 0.9435 | 5.38924428571429 |
| SLI_RS04930 | 0.4274 | 0.2652 | 1.61137 |
| SLI_RS04940 | 0.3875 | 0.2431 | 1.59396 |
| SLI_RS04955 | 0.3691 | 0.1702 | 2.16797 |
| SLI_RS04960 | 0.8508 | 5.3202 | 0.15992 |
| SLI_RS05005 | 1.3854 | 13.7973 | 0.10041 |
| SLI_RS05050 | 15.257166666666667 | 26.221133333333333 | 1.005673333333333 |
| SLI_RS05055 | 0.2509 | 0.0003 | 999 |
| SLI_RS05095 | 1.780866666666667 | 0.2881 | 12.18296333333333 |
| SLI_RS05225 | 1.539175 | 0.200975 | 275.8890375 |
| SLI_RS05280 | 0.1702 | 0.1309 | 1.30032 |
| SLI_RS05315 | 0.2582 | NA | 1.19306 |
| SLI_RS05330 | 0 | 0 | 0 |
| SLI_RS05345 | 2.778 | 0.24 | 11.57497 |
| SLI_RS05375 | 0.5203666666666667 | 0.7796666666666667 | 0.512333333333333 |
| SLI_RS05400 | 149.02495 | NA | 121.424545 |
| SLI_RS05470 | 0.2904 | 0.2188 | 1.32749 |
| SLI_RS05475 | 21.53983333333333 | 2.4126 | 21.77328 |
| SLI_RS05500 | 1.022333333333333 | 0.9501666666666667 | 2.704493333333333 |
| SLI_RS05505 | 2.5815 | 406.5568 | 0.00635 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| SLI_RS05560 | 21.6922 | 1.3683 | 15.85375 |
| SLI_RS05575 | 4.87815 | 38.710625 | 3.25791 |
| SLI_RS05670 | 16.78393333333333 | 1.112866666666667 | 18.84682333333333 |
| SLI_RS05675 | 11.1074 | 26.6656 | 0.55114 |
| SLI_RS05840 | 2.4724 | NA | 2.58762 |
| SLI_RS05860 | 6.09641428571429 | 7.70297142857143 | 2.05605857142857 |
| SLI_RS05865 | 0.1651 | 209.4937 | 0.00079 |
| SLI_RS05905 | 0.3964 | 0.1582 | 2.50567 |
| SLI_RS05915 | 52.7682 | 21.0562 | 4.754635 |
| SLI_RS05955 | 0.2872 | 0.1794 | 1.60076 |
| SLI_RS05965 | 1.8654 | 1.2944 | 1.44112 |
| SLI_RS06010 | 0.4439 | 0.3342 | 1.32812 |
| SLI_RS06030 | 0.2403 | 0.1123 | 2.14071 |
| SLI_RS06045 | 0.4666 | 0.2941 | 1.58633 |
| SLI_RS06060 | 7.1487 | 15.58716666666667 | 333.1444533333333 |
| SLI_RS06085 | 0.4883 | 0.3917 | 1.2464 |
| SLI_RS06115 | 0.1753 | 0.037 | 4.7324 |
| SLI_RS06130 | 7.87705 | 24.66015 | 6.31575 |
| SLI_RS06185 | 1.27175 | 0.8995 | 1.418195 |
| SLI_RS06230 | 1.62355 | 0.66485 | 2.36835 |
| SLI_RS06235 | 1.4371 | 1.0855 | 1.3239 |
| SLI_RS06240 | 18.7409 | 0.29225 | 88.213435 |
| SLI_RS06250 | 0.453 | 0.0005 | 999 |
| SLI_RS06290 | 1.5153 | 1.1403 | 1.32886 |
| SLI_RS06300 | 13.22003333333333 | 16.2247 | 1.160866666666667 |
| SLI_RS06325 | 0.5484 | 0.5426 | 1.01081 |
| SLI_RS06335 | 0.2521 | 0.1813 | 1.3911 |
| SLI_RS06405 | 5.1428 | 0.0051 | 999 |
| SLI_RS06420 | 0.4086 | 0.3034 | 1.34669 |
| SLI_RS06430 | 0.23485 | 0.26365 | 0.445355 |
| SLI_RS06440 | 47.728075 | 3.864125 | 137.21426 |
| SLI_RS06445 | 5.48645 | 33.82535 | 251.56941 |
| SLI_RS06460 | 0.4614 | 0.233 | 1.9799 |
| SLI_RS06560 | 0.288566666666667 | 487.2877333333333 | 1.085286666666667 |
| SLI_RS06670 | 0.2911 | 0.1615 | 1.80222 |
| SLI_RS06675 | 3.74675 | 18.62185 | 1.156975 |
| SLI_RS06710 | 0.3721 | 0.1616 | 2.30219 |
| SLI_RS06765 | 0.4328 | 0.1028 | 4.2106 |
| SLI_RS06800 | 1.3142 | 118.24295 | 0.822375 |
| SLI_RS06820 | 1.6453 | 0.7158 | 2.29861 |
| SLI_RS06830 | 0.3031 | 0.2552 | 1.18765 |
| SLI_RS06925 | 0.4182 | 0.2026 | 2.06411 |
| SLI_RS06940 | 4.8352 | NA | 0.82684375 |
| SLI_RS06995 | 0.1743 | 0.0318 | 5.48723 |
| SLI_RS07105 | 7.2803 | 7.3308 | 0.99311 |
| SLI_RS07140 | 0.3671 | 0.2068 | 1.77516 |
| SLI_RS07155 | 0.3845 | 0.2954 | 1.30163 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| SLI_RS07200 | 0.5676 | 0.7544 | 0.75229 |
| SLI_RS07290 | 0.5079 | 0.2028 | 2.5041 |
| SLI_RS07315 | 0.2635 | 0.1141 | 2.31049 |
| SLI_RS07320 | 0.1277 | 0.0166 | 445.785435 |
| SLI_RS07345 | 0.1537 | 0.106 | 1.45014 |
| SLI_RS07390 | 0.779125 | 0.75875 | 1.5110625 |
| SLI_RS07395 | 6.209 | NA | 0.714561666666667 |
| SLI_RS07400 | 0.2205 | 0.0889 | 2.47947 |
| SLI_RS07410 | 0.1584 | 0.106 | 1.49502 |
| SLI_RS07415 | 0.304785714285714 | 0.188457142857143 | 1.00237 |
| SLI_RS07420 | 0.4733 | 0.6417 | 0.73757 |
| SLI_RS07455 | 0.2203 | 0.1327 | 1.65984 |
| SLI_RS07460 | 0.4925 | 0.3249 | 1.51591 |
| SLI_RS07465 | 1.1431 | 7.75143333333333 | 0.381946666666667 |
| SLI_RS07495 | 0.21035 | 0.17735 | 1.17644 |
| SLI_RS07505 | 0.665633333333333 | 0.502766666666667 | 1.17064666666667 |
| SLI_RS07515 | 0.4705 | 0.5107 | 0.92127 |
| SLI_RS07600 | 0.334 | 0.2033 | 1.64314 |
| SLI_RS07630 | 0.5599 | 103.3806 | 0.00542 |
| SLI_RS07880 | 0.1617 | 0.0585 | 2.76583 |
| SLI_RS07885 | 0.3427 | 0.2405 | 1.42487 |
| SLI_RS07915 | 0.3087 | 0.0549 | 5.62689 |
| SLI_RS07970 | 0.4163 | 0.1642 | 2.53489 |
| SLI_RS07990 | 19.2527 | 17.19505 | 1.78385 |
| SLI_RS08055 | 0.4827 | 0.2524 | 1.91206 |
| SLI_RS08080 | 1.4727 | 4.2415 | 0.34721 |
| SLI_RS08085 | 0.5185 | 0.2656 | 1.95201 |
| SLI_RS08115 | 0.2096 | 0.0593 | 3.53616 |
| SLI_RS08125 | 0.2938 | 0.1166 | 2.51872 |
| SLI_RS08200 | 0.1566 | 0.0751 | 2.08632 |
| SLI_RS08390 | 2.09316666666667 | 1033.6648 | 2.95023333333333 |
| SLI_RS08420 | 2.1491 | 35.99865 | 0.9676 |
| SLI_RS08430 | 0.6192 | 0.2744 | 2.15061 |
| SLI_RS08460 | 0.4122 | 0.2527 | 1.63133 |
| SLI_RS08505 | 0.5838 | 0.305 | 1.91409 |
| SLI_RS08530 | 0.2852 | 0.2005 | 1.42234 |
| SLI_RS08535 | 0.4697 | 0.2698 | 1.74097 |
| SLI_RS08620 | 47.8051 | 2.6266 | 18.20062 |
| SLI_RS08630 | 0.7243 | 0.5273 | 1.37363 |
| SLI_RS08695 | 0.2645 | 0.20085 | 1.29829 |
| SLI_RS08825 | 0.94635 | 0.33525 | 2.817445 |
| SLI_RS08845 | 2.5042 | 0.0025 | 999 |
| SLI_RS08880 | 0.451 | 0.204 | 2.21035 |
| SLI_RS08895 | 0.2345 | 0.1171 | 2.457315 |
| SLI_RS08905 | 0.3342 | 0.1832 | 1.82465 |
| SLI_RS08930 | 36.6268 | 3.2155 | 11.39069 |
| SLI_RS08935 | 0.4833 | 0.3938 | 1.22735 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|------------------|------------------|
| SLI_RS08990 | 0.2281 | 0.0689 | 3.31152 |
| SLI_RS09025 | 0.3302 | 0.2411 | 1.36949 |
| SLI_RS09100 | 0.3608 | 0.3569 | 1.16353 |
| SLI_RS09150 | 0.5322 | 0.5615 | 0.94782 |
| SLI_RS09155 | 0.4112 | 0.1602 | 2.56692 |
| SLI_RS09205 | 1.23093333333333 | 39.8267333333333 | 2.71709333333333 |
| SLI_RS09220 | 0.6424 | 0.321 | 2.00111 |
| SLI_RS09270 | 0.3299 | 0.2328 | 1.41706 |
| SLI_RS09275 | 10.2551 | 3.11453333333333 | 2.21533 |
| SLI_RS09290 | 0.36605 | 0.1737 | 2.7949 |
| SLI_RS09375 | 0.6066 | 0.4295 | 1.4123 |
| SLI_RS09385 | 0.0759 | 0.1556 | 0.48797 |
| SLI_RS09410 | 0.6325 | 0.423 | 1.4953 |
| SLI_RS09430 | 7.98425 | 11.48535 | 2.47343 |
| SLI_RS09495 | 0.3716 | 0.4244 | 0.87555 |
| SLI_RS09555 | 0.22 | 0.1072 | 2.053 |
| SLI_RS09620 | 0.1557 | 0.1304 | 1.19421 |
| SLI_RS09640 | 0.2829 | 0.3226 | 0.87708 |
| SLI_RS09685 | 6.0399 | 0.9502 | 6.35628 |
| SLI_RS09715 | 0.2937 | 0.1594 | 1.8424 |
| SLI_RS09780 | 1.95895 | 1.5602 | 1.587365 |
| SLI_RS09800 | 4.53394 | 4.18388 | 200.851158 |
| SLI_RS09865 | 0.2544 | 0.1251 | 2.03285 |
| SLI_RS09870 | 4.37636666666667 | 2.99613333333333 | 334.980486666667 |
| SLI_RS09875 | 0.082 | 0.0156 | 5.27086 |
| SLI_RS09945 | 0.2229 | 0.211 | 1.05654 |
| SLI_RS09950 | 0.2587 | 0.1831 | 1.413 |
| SLI_RS09960 | 0.1845 | 0.0809 | 2.28065 |
| SLI_RS09970 | 0.3889 | 0.2351 | 1.65413 |
| SLI_RS09975 | 9.4031 | 3.8373 | 2.45042 |
| SLI_RS10020 | 1.17895 | 0.67475 | 1.812625 |
| SLI_RS10055 | 0.1414 | 0.0683 | 2.07212 |
| SLI_RS10085 | 0.33285 | 0.166 | 2.025515 |
| SLI_RS10160 | 2.5456 | 28.84545 | 0.537275 |
| SLI_RS10175 | 0.4228 | 0.2847 | 1.48535 |
| SLI_RS10180 | 0.17235 | 0.09015 | 2.086345 |
| SLI_RS10190 | 2.3115 | 14.9628 | 0.748775 |
| SLI_RS10210 | 0.326 | 0.0912 | 3.57474 |
| SLI_RS10255 | 1.01855 | 0.77975 | 2.571715 |
| SLI_RS10325 | 0.3708 | 0.2591 | 1.4314 |
| SLI_RS10335 | 0.711266666666667 | 0.436 | 2.17748666666667 |
| SLI_RS10350 | 0.3643 | 0.1818 | 2.00352 |
| SLI_RS10365 | 0.258266666666667 | 0.3366 | 1.50908666666667 |
| SLI_RS10375 | 0.2549 | 0.1077 | 2.36721 |
| SLI_RS10480 | 0.2858 | 0.1196 | 2.38956 |
| SLI_RS10540 | 0.869125 | 0.320575 | 251.0760175 |
| SLI_RS10550 | 0.936275 | 3.819025 | 1.1167875 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| SLI_RS10555 | 0.7206 | 1.5144 | 0.4758 |
| SLI_RS10560 | 0.2879666666666667 | 0.1352333333333333 | 2.366903333333333 |
| SLI_RS10580 | 0.3156 | 0.1881 | 1.67752 |
| SLI_RS10590 | 0.2082 | 0.0839 | 2.47974 |
| SLI_RS10595 | 2.2637 | NA | 0.3963666666666667 |
| SLI_RS10605 | 29.1776 | 1.61485 | 12.22445 |
| SLI_RS10615 | 0.2468 | 0.0831 | 2.96953 |
| SLI_RS10635 | 1.1803 | 4.4211 | 1.163023333333333 |
| SLI_RS10655 | 0.51825 | 0.26415 | 1.982035 |
| SLI_RS10700 | 0.1841 | 0.1311 | 1.40405 |
| SLI_RS10715 | 21.50745 | 5.03885 | 2.844945 |
| SLI_RS10845 | 0.3914666666666667 | 0.5868 | 0.94954 |
| SLI_RS10940 | 0.5079 | 0.3447 | 1.47345 |
| SLI_RS10980 | 0.4373 | 0.1716 | 2.54791 |
| SLI_RS10995 | 2.3734 | 0.6313 | 3.7596 |
| SLI_RS11010 | 14.65648333333333 | 1.451633333333333 | 5.022168333333333 |
| SLI_RS11085 | 0.82895 | 2.57155 | 0.59015 |
| SLI_RS11135 | 0.3681 | 0.3874 | 0.9503 |
| SLI_RS11220 | 30.0127 | NA | 237.723345 |
| SLI_RS11280 | 0.3419 | 0.2705 | 1.26396 |
| SLI_RS11365 | 30.84325 | 4.496275 | 15.9333 |
| SLI_RS11485 | 0.3281 | 0.4814 | 0.68145 |
| SLI_RS11555 | 1.8541 | 0.3725 | 4.97711 |
| SLI_RS11560 | 47.6997 | 4.1368 | 11.53063 |
| SLI_RS11595 | 0.4988 | 0.3891 | 1.28201 |
| SLI_RS11660 | 23.7047 | 28.88093333333333 | 13.11129166666667 |
| SLI_RS11665 | NA | 15.55573333333333 | 2.286416666666667 |
| SLI_RS11685 | 0.2516 | 0.1045 | 2.40667 |
| SLI_RS11700 | 0.4063 | 0.3266 | 1.24399 |
| SLI_RS11705 | 10.16776666666667 | 0.9007166666666667 | 15.637135 |
| SLI_RS11710 | 0.3691 | 0.1795 | 2.05668 |
| SLI_RS11740 | 0.2551 | 0.1312 | 1.94431 |
| SLI_RS11760 | 0.45 | 0.2901 | 1.55096 |
| SLI_RS11770 | 0.3 | 0.1204 | 2.49309 |
| SLI_RS11825 | 0.15 | 0.1271 | 1.18074 |
| SLI_RS11900 | 1.49885 | 5.45275 | 0.9957816666666667 |
| SLI_RS12100 | 31.66213333333333 | 2.152433333333333 | 130.3570766666667 |
| SLI_RS12125 | 0.9359 | 0.32115 | 500.522565 |
| SLI_RS12135 | 20.043 | 2.93035 | 5.22207 |
| SLI_RS12195 | 0.8231 | 0.0008 | 999 |
| SLI_RS12330 | 8.6935 | 4.3823 | 1.98375 |
| SLI_RS12345 | 48.76765 | 0.15645 | 378.553945 |
| SLI_RS12395 | 6.5779 | 9.1312 | 0.72038 |
| SLI_RS12510 | 0.2874 | 0.2007 | 1.43236 |
| SLI_RS12530 | 0.4062 | 0.1527 | 2.65926 |
| SLI_RS12600 | 0.8533 | 0.9952 | 0.85739 |
| SLI_RS12630 | 0.5892 | 0.0006 | 999 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|----------------------|-------------------|
| SLI_RS12640 | 0.4749 | 0.2331 | 2.03694 |
| SLI_RS12670 | 0.3508 | 0.2369 | 1.48036 |
| SLI_RS12680 | 0.3366 | 0.396 | 0.84996 |
| SLI_RS12750 | 17.29345 | 3.496425 | 30.29505 |
| SLI_RS12765 | 0.3851333333333333 | 0.2199 | 2.021386666666667 |
| SLI_RS12825 | 0.8627 | 0.6791 | 1.27045 |
| SLI_RS12885 | 0.2195 | 0.1993 | 1.10088 |
| SLI_RS12910 | 2.5177 | 0.5099 | 10.47496 |
| SLI_RS12935 | 0.461 | 0.4345 | 1.06089 |
| SLI_RS12950 | 1.3956 | 0.80895 | 1.61283 |
| SLI_RS12955 | 57.72185 | 16.2343 | 11.73239 |
| SLI_RS13045 | 1.0856 | 0.001066666666666667 | 999 |
| SLI_RS13050 | 1.613725 | 27.6729 | 1.21697 |
| SLI_RS13055 | 1.09621428571429 | 2.0063 | 0.942201428571429 |
| SLI_RS13065 | 0.083 | 0.028 | 2.96374 |
| SLI_RS13080 | 0.1041 | 0.0474 | 2.19559 |
| SLI_RS13135 | 0.2771 | 0.2971 | 0.93259 |
| SLI_RS13145 | 0.0001 | 0.6448 | 0.0001 |
| SLI_RS13175 | 0.1325 | 0.071 | 1.86647 |
| SLI_RS13220 | 0.5363 | 0.55825 | 1.233465 |
| SLI_RS13225 | 1.08455 | 0.33635 | 500.75433 |
| SLI_RS13340 | 0.6134 | 0.6487 | 0.94547 |
| SLI_RS13360 | 16.7694 | 27.3834 | 0.61239 |
| SLI_RS13385 | 0.5633 | 0.5105 | 1.10357 |
| SLI_RS13390 | 0.2239 | 0.1406 | 1.59223 |
| SLI_RS13400 | 0.22135 | 0.13035 | 1.77109 |
| SLI_RS13425 | 0.5964 | 0.7814 | 0.870975 |
| SLI_RS13435 | 0.3459 | 0.1111 | 3.11228 |
| SLI_RS13455 | 0.3597 | 0.1889 | 1.90437 |
| SLI_RS13480 | 0.34675 | 0.1667 | 5.63658 |
| SLI_RS13485 | 0.1928 | 0.0841 | 2.29156 |
| SLI_RS13515 | 2.241 | 0.1765 | 12.69668 |
| SLI_RS13525 | 0.7062 | 0.6343 | 1.11343 |
| SLI_RS13605 | 1.3366 | 0.877 | 1.52407 |
| SLI_RS13620 | 0.5854 | 0.3024 | 1.93615 |
| SLI_RS13725 | 0.2876 | 0.1525 | 1.88542 |
| SLI_RS13825 | 2.1101 | 1.4296 | 1.47605 |
| SLI_RS13885 | 6.7638 | 0.1573 | 666.9627866666667 |
| SLI_RS13940 | 0.0856 | 0.0001 | 999 |
| SLI_RS13945 | 0.3503 | 0.1884 | 1.901343333333333 |
| SLI_RS13950 | 0.20615 | 0.12965 | 1.930035 |
| SLI_RS13955 | 0.8249 | 0.2841 | 2.90407 |
| SLI_RS13960 | 0.33285 | 0.16175 | 2.13528 |
| SLI_RS13965 | 0.2124 | 0.0974 | 2.17948 |
| SLI_RS13970 | 0.1388 | 0.04375 | 1.58608 |
| SLI_RS13985 | 0.2637 | 0.1493 | 1.76576 |
| SLI_RS13995 | 19.984325 | 6.08715 | 5.68804 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|----------|-------------------|
| SLI_RS14055 | 0.6188 | 0.6152 | 1.00582 |
| SLI_RS14060 | 4.5819 | 0.7772 | 5.89509 |
| SLI_RS14070 | 0.26885 | 18.15405 | 0.802615 |
| SLI_RS14080 | 0.2131 | 0.1358 | 1.56913 |
| SLI_RS14160 | 0.2832 | 0.1226 | 2.31062 |
| SLI_RS14215 | 0.4397 | 0.17 | 2.5872 |
| SLI_RS14295 | 0.3391 | 0.1719 | 1.97271 |
| SLI_RS14305 | 26.2164 | 47.5342 | 0.55153 |
| SLI_RS14320 | 1.689266666666667 | 1.272 | 1.426363333333333 |
| SLI_RS14440 | 0.2079 | 0.5662 | 0.36716 |
| SLI_RS14450 | 0.5521 | 0.299 | 1.84643 |
| SLI_RS14470 | 0.2621 | 0.1624 | 1.61411 |
| SLI_RS14525 | 0.1461 | 0.0891 | 1.63996 |
| SLI_RS14560 | 0.3665 | 0.1664 | 2.20201 |
| SLI_RS14565 | 0.2766 | 0.1792 | 1.54331 |
| SLI_RS14625 | 3.0383 | 0.454 | 76.033375 |
| SLI_RS14630 | 59.3803 | 1.4792 | 40.14414 |
| SLI_RS14635 | 0.2525 | 0.0925 | 2.72889 |
| SLI_RS14655 | 0.2793 | 0.1216 | 2.29613 |
| SLI_RS14695 | 0.2741 | 0.132 | 2.07661 |
| SLI_RS14700 | 0.1783 | 0.0496 | 3.59477 |
| SLI_RS14750 | 1.1976 | 19.7385 | 0.06067 |
| SLI_RS14755 | 7.2673 | 127.4801 | 0.57654 |
| SLI_RS14765 | 0.7014 | 0.7967 | 0.88038 |
| SLI_RS14770 | 16.4606 | 0.0165 | 999 |
| SLI_RS14780 | 0.3997 | 0.3179 | 1.25725 |
| SLI_RS14865 | 4.647875 | 22.22525 | 1.218605 |
| SLI_RS14925 | 0.8002 | 0.0067 | 119.97313 |
| SLI_RS14945 | 0.3517 | 0.2725 | 1.29072 |
| SLI_RS15045 | 0.9655 | 1.1446 | 0.84349 |
| SLI_RS15050 | 1.424 | 0.6748 | 2.11026 |
| SLI_RS15070 | 0.6247 | 0.2898 | 2.15606 |
| SLI_RS15075 | 0.4101 | 0.3623 | 1.13204 |
| SLI_RS15130 | 0.4841 | 0.2831 | 1.71029 |
| SLI_RS15160 | 0.3527 | 0.2017 | 1.74824 |
| SLI_RS15180 | 0.6002 | 0.1327 | 4.52478 |
| SLI_RS15220 | 0.1809 | 0.0365 | 4.95434 |
| SLI_RS15295 | 13.444433333333333 | 9.7469 | 333.4464433333333 |
| SLI_RS15390 | 0.2214 | 0.1021 | 2.16901 |
| SLI_RS15410 | 0.3269 | 0.0003 | 999 |
| SLI_RS15415 | 1.8862 | 0.1216 | 500.409265 |
| SLI_RS15420 | 0.3633 | 0.3797 | 0.47843 |
| SLI_RS15425 | 2.21015 | NA | 0.57187 |
| SLI_RS15465 | 0.1865 | 0.0249 | 7.50295 |
| SLI_RS15525 | 0.183 | 0.0644 | 2.84228 |
| SLI_RS15600 | 0.1897 | 0.1605 | 1.18207 |
| SLI_RS15610 | 0.4172 | 0.2456 | 1.69885 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|------------------|
| SLI_RS15625 | 1.1449 | 1.4338 | 0.79852 |
| SLI_RS15630 | 7.27211428571429 | 8.39421428571429 | 143.388424285714 |
| SLI_RS15645 | 1.26493333333333 | 121.682333333333 | 333.03203 |
| SLI_RS15710 | 6.4486 | NA | 1.9752375 |
| SLI_RS15720 | 0.3091 | 0.1903 | 1.62395 |
| SLI_RS15760 | 0.3718 | 0.2046 | 1.8175 |
| SLI_RS15815 | 0.1719 | 0.0324 | 5.30457 |
| SLI_RS15825 | 7.02483333333333 | 1.31446666666667 | 333.69332 |
| SLI_RS15830 | 2.57205 | 0.5422 | 3.63744 |
| SLI_RS15850 | 0.2568 | 0.1752 | 1.46585 |
| SLI_RS15875 | 0.347325 | NA | 0.9541475 |
| SLI_RS15885 | 0.3749 | 0.346 | 1.08369 |
| SLI_RS15950 | 18.45135 | 7.29755 | 2.53029 |
| SLI_RS15970 | 0.2386 | 0.288 | 0.82868 |
| SLI_RS15975 | 0.3489 | 0.2988 | 1.16745 |
| SLI_RS15980 | 0.2868 | 0.2035 | 1.40978 |
| SLI_RS15985 | 7.96874 | NA | 200.626132 |
| SLI_RS15990 | 0 | 0 | 0 |
| SLI_RS16005 | 0.3616 | 0.3059 | 1.18205 |
| SLI_RS16015 | 4.4605 | 26.1308 | 0.1707 |
| SLI_RS16020 | 9.022325 | 0.216325 | 251.0719425 |
| SLI_RS16040 | 0.2168 | 0.07 | 3.09523 |
| SLI_RS16610 | 2.4259 | 11.967 | 0.47132 |
| SLI_RS16630 | 5.39628333333333 | 18.2304166666667 | 333.693228333333 |
| SLI_RS16660 | 0.1562 | 0.1318 | 1.18475 |
| SLI_RS16730 | 0.27735 | 0.33815 | 0.89166 |
| SLI_RS16735 | 0.3242 | 0.1347 | 2.40614 |
| SLI_RS16745 | 0.1784 | 0.054 | 3.30136 |
| SLI_RS16755 | 0.1772 | 0.0264 | 6.71809 |
| SLI_RS16765 | 2.12145 | 0.61475 | 2.88236 |
| SLI_RS16785 | 2.1191 | 110.6504 | 0.01915 |
| SLI_RS16850 | 0.2522 | 0.1724 | 1.46274 |
| SLI_RS16860 | 0.4824 | 0.4305 | 1.12067 |
| SLI_RS16875 | 0.69995 | 0.4949 | 1.44221 |
| SLI_RS16900 | 0.2743 | 0.1855 | 1.47835 |
| SLI_RS16980 | 0.2737 | 0.2144 | 1.27652 |
| SLI_RS17010 | 0.7626 | 0.6522 | 1.16931 |
| SLI_RS17015 | 13.8576 | NA | 333.503936666667 |
| SLI_RS17070 | 0.35555 | 0.32125 | 1.26446 |
| SLI_RS17095 | 22.0192 | 57.0493 | 0.38597 |
| SLI_RS17110 | 0.339266666666667 | 0.169533333333333 | 1.99362666666667 |
| SLI_RS17145 | 3.23966666666667 | 8.38883333333333 | 6.07790833333333 |
| SLI_RS17525 | 0.2047 | 6.168 | 0.03319 |
| SLI_RS17590 | 0.625533333333333 | NA | 0.14737 |
| SLI_RS17610 | 4.72255 | 45.05445 | 249.8067625 |
| SLI_RS17675 | 0.4222 | 0.2353 | 2.173785 |
| SLI_RS17695 | 0.1738 | 0.0784 | 2.21781 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|------------------|-------------------|------------------|
| SLI_RS17700 | 0.2544 | 0.1735 | 1.46589 |
| SLI_RS17710 | 0.9226 | 1.72183333333333 | 333.529003333333 |
| SLI_RS17765 | 0.3491 | 0.2352 | 1.48435 |
| SLI_RS17770 | 1.4654 | 2.6864 | 0.54547 |
| SLI_RS17785 | 0.93505 | 0.57305 | 1.443445 |
| SLI_RS17830 | 0.3476 | 0.1699 | 2.04566 |
| SLI_RS17840 | 0.1925 | 0.159 | 1.21018 |
| SLI_RS17860 | 21.4585333333333 | 24.3596333333333 | 3.28103666666667 |
| SLI_RS17865 | 0.2325 | 0.0347 | 6.70357 |
| SLI_RS17880 | 0.6167 | 0.35555 | 1.982015 |
| SLI_RS17900 | 10.2544 | 3.48582 | 46.627032 |
| SLI_RS17965 | 0.4938 | 0.031 | 15.92478 |
| SLI_RS18040 | 0.69535 | 1.0031 | 0.94996 |
| SLI_RS18045 | 0.73765 | 0.64195 | 499.92725 |
| SLI_RS18050 | 0.2914 | 0.1729 | 1.68557 |
| SLI_RS18105 | 9.2443 | 1.73286 | 202.562776 |
| SLI_RS18115 | 0.2856 | NA | 0.39158 |
| SLI_RS18125 | 0.380575 | 0.1892 | 2.2033625 |
| SLI_RS18135 | 0.2458 | 0.1645 | 1.49465 |
| SLI_RS18155 | 0.55855 | 33.53225 | 2.09543 |
| SLI_RS18165 | 0.3938 | 0.2006 | 1.96341 |
| SLI_RS18170 | 0.2227 | 0.0883 | 2.52183 |
| SLI_RS18265 | 5.1516 | 13.6954 | 0.37615 |
| SLI_RS18290 | 0.2682 | 0.1213 | 2.21049 |
| SLI_RS18320 | 2.2247 | 6.6224 | 0.33594 |
| SLI_RS18325 | 0.1486 | 0.0808 | 1.83895 |
| SLI_RS18410 | 0.8224 | 0.3885 | 2.11653 |
| SLI_RS18445 | 1.460175 | 14.23775 | 1.246225 |
| SLI_RS18450 | 0.914 | 1.0594 | 0.86276 |
| SLI_RS18490 | 19.9189 | 0.6223 | 32.00855 |
| SLI_RS18495 | 2.2203 | 1.6681 | 1.331 |
| SLI_RS18500 | 5.81466666666667 | 6.56963333333333 | 1.05257 |
| SLI_RS18540 | 1.5616 | 3.9875 | 0.39162 |
| SLI_RS18605 | 0.3862 | 0.2848 | 1.35601 |
| SLI_RS18625 | 1.39173333333333 | 0.675366666666667 | 2.36677666666667 |
| SLI_RS18650 | 0.8517 | 0.4191 | 2.03212 |
| SLI_RS18655 | 1.5041 | 1.1755 | 1.27961 |
| SLI_RS18885 | 0.4439 | 0.1973 | 2.24955 |
| SLI_RS18900 | 0.1966 | 0.1254 | 1.56766 |
| SLI_RS18940 | 0.3494 | 0.0487 | 7.1716 |
| SLI_RS19055 | NA | 9.2728 | 0.945615 |
| SLI_RS19100 | 0.4812 | 0.4343 | 1.10797 |
| SLI_RS19105 | 9.482375 | 28.121325 | 3.3658625 |
| SLI_RS19125 | 0.4681 | 1.5781 | 0.29666 |
| SLI_RS19130 | 11.5294 | 9.8351 | 1.17639666666667 |
| SLI_RS19135 | 5.19895 | 0.357225 | 251.5162675 |
| SLI_RS19140 | 19.7498 | 0.4396 | 500.10611 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-------------------|
| SLI_RS19150 | 4.5467 | 8.2435 | 0.889385 |
| SLI_RS19155 | 0.5103 | 0.2401 | 2.12505 |
| SLI_RS19160 | 0.5066 | 0.3783 | 1.33928 |
| SLI_RS19190 | 0.3879 | 0.2177 | 1.78214 |
| SLI_RS19215 | 0.41445 | 0.20335 | 2.19304 |
| SLI_RS19255 | 0.6397 | 1.1403 | 0.56103 |
| SLI_RS19325 | 0.3487 | 0.1343 | 2.59575 |
| SLI_RS19360 | 0.8655833333333333 | 27.6771 | 167.9812033333333 |
| SLI_RS19410 | 0.5029333333333333 | 0.3965666666666667 | 1.275396666666667 |
| SLI_RS19415 | 0.3268 | 0.1511 | 2.16273 |
| SLI_RS19420 | NA | NA | 11.71849833333333 |
| SLI_RS19425 | 3.7043 | 0.6359 | 5.82493 |
| SLI_RS19430 | 0.3932 | 0.1599 | 2.45936 |
| SLI_RS19445 | 0.3627 | 0.1845 | 1.96522 |
| SLI_RS19480 | NA | 3.38810909090909 | 94.98841 |
| SLI_RS19485 | 0.4239 | 0.2133 | 1.98754 |
| SLI_RS19555 | 0.2473 | 0.158 | 1.56466 |
| SLI_RS19560 | 0.3564 | 0.1585 | 2.24843 |
| SLI_RS19585 | 0.2418 | 0.0856 | 2.82368 |
| SLI_RS19670 | 0.6745 | 0.4956 | 1.36085 |
| SLI_RS19675 | 0.2386 | 0.12835 | 1.93609 |
| SLI_RS19690 | 0.4022 | 0.2666 | 1.50831 |
| SLI_RS19705 | 22.55756666666667 | 2.194333333333333 | 15.51916 |
| SLI_RS19715 | 0.4696 | 0.2466 | 1.90465 |
| SLI_RS19720 | 0.4894 | 0.473 | 1.0347 |
| SLI_RS19725 | 0.3842 | 0.2904 | 1.3227 |
| SLI_RS19755 | 0.2018 | 0.0002 | 999 |
| SLI_RS19790 | 14.556675 | NA | 0.25766 |
| SLI_RS19795 | 2.040433333333333 | 0.6979 | 333.3963866666667 |
| SLI_RS19815 | 0.5420333333333333 | 1.207533333333333 | 1.36734 |
| SLI_RS19820 | 1.009033333333333 | 0.275 | 334.43194 |
| SLI_RS19830 | 0.5733 | 0.222 | 500.12911 |
| SLI_RS19900 | 1.5205 | 0.7565 | 2.13417 |
| SLI_RS19985 | 17.0045 | 0.9364 | 18.16013 |
| SLI_RS19990 | 1.41072 | 5.95556 | 1.211972 |
| SLI_RS20000 | 0.5874 | 0.223 | 2.63394 |
| SLI_RS20090 | 0.7464 | NA | 0.36308 |
| SLI_RS20095 | 0.0868 | 0.0407 | 2.13234 |
| SLI_RS20105 | 0.4198 | 0.2437 | 1.72226 |
| SLI_RS20110 | 0.22875 | 0.1024 | 500.09652 |
| SLI_RS20220 | 0.34605 | 0.2364 | 1.51165 |
| SLI_RS20225 | 0.2731 | 0.0991 | 2.7552 |
| SLI_RS20235 | 0.2705 | 0.1696 | 1.59551 |
| SLI_RS20285 | 0.4118 | 0.2109 | 1.95303 |
| SLI_RS20305 | 0.6905 | 0.512 | 1.34874 |
| SLI_RS20310 | 0.2271 | 0.104 | 2.18285 |
| SLI_RS20370 | 10.432525 | 235.22565 | 3.218555 |

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| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| SLI_RS20395 | 1.77243333333333 | 22.3917666666667 | 0.708733333333333 |
| SLI_RS20400 | 12.45775 | 4.17229 | 70.445114 |
| SLI_RS20455 | 0.3985 | 0.4121 | 0.96698 |
| SLI_RS20475 | 0.4668 | 0.2324 | 2.00826 |
| SLI_RS20495 | 0.2702 | 0.0922 | 2.93129 |
| SLI_RS20515 | 0.7646 | 0.5281 | 1.44783 |
| SLI_RS20540 | 0.67125 | 239.3009 | 0.106355 |
| SLI_RS20635 | 0.175 | 0.0563 | 3.10695 |
| SLI_RS20655 | 0.37925 | 0.21585 | 1.757465 |
| SLI_RS20695 | 0.164 | 0.0687 | 2.38813 |
| SLI_RS20780 | 0.4428 | 0.3807 | 1.26744 |
| SLI_RS20790 | 0.3033 | 0.1308 | 2.31953 |
| SLI_RS20800 | 64.4013666666667 | 17.6103888888889 | 115.251047777778 |
| SLI_RS20865 | 0.3603 | 0.1386 | 2.59962 |
| SLI_RS20875 | 0.5311 | 1.0441 | 0.50868 |
| SLI_RS20890 | 0.2597 | 0.0152 | 502.451235 |
| SLI_RS20900 | 0.3721 | 0.0004 | 999 |
| SLI_RS20925 | 0.316966666666667 | 0.930466666666667 | 0.858736666666667 |
| SLI_RS21090 | 22.51635 | 65.1155 | 0.822125 |
| SLI_RS21185 | 11.6361 | NA | 0.710666666666667 |
| SLI_RS21250 | 29.3951 | 51.4149 | 0.57172 |
| SLI_RS21285 | 2.422 | 1.0881 | 2.22586 |
| SLI_RS21305 | 0.1442 | 0.0001 | 999 |
| SLI_RS21310 | 0.4185 | 0.2111 | 1.98263 |
| SLI_RS21320 | 0.1883 | 0.1256 | 1.49916 |
| SLI_RS21335 | 0.5085 | 0.1625 | 3.12956 |
| SLI_RS21340 | 0.4886 | 0.2888 | 1.69205 |
| SLI_RS21355 | 0.5217 | 0.066 | 7.90845 |
| SLI_RS21360 | 0.312 | 0.143 | 2.18142 |
| SLI_RS21370 | 1.92195 | 0.102 | 500.077775 |
| SLI_RS21465 | 1.1697 | 1.1656 | 1.20747666666667 |
| SLI_RS21470 | 0.3221 | 0.1945 | 1.65633 |
| SLI_RS21485 | 2.7918 | 10.16525 | 0.40005 |
| SLI_RS21515 | 0.4238 | 0.2749 | 1.54199 |
| SLI_RS21540 | 0.2664 | 0.1613 | 1.6512 |
| SLI_RS21550 | 5.66503333333333 | 13.8416 | 1.42115333333333 |
| SLI_RS21585 | 0.319 | 0.1323 | 2.41167 |
| SLI_RS21595 | 0.2461 | 0.0836 | 2.94204 |
| SLI_RS21710 | 0.6973 | 0.279 | 2.49952 |
| SLI_RS21715 | 0.4477 | 0.3372 | 1.32765 |
| SLI_RS21765 | 0.225 | 0.1231 | 1.82777 |
| SLI_RS21770 | 0.4631 | 0.3843 | 1.20504 |
| SLI_RS21795 | 20.4864 | 1.00353333333333 | 191.893688333333 |
| SLI_RS21800 | 44.9279375 | 7.851125 | 23.8374125 |
| SLI_RS21845 | 0.2153 | 0.0894 | 2.40687 |
| SLI_RS21850 | 0.6083 | 0.481825 | 1.62761 |
| SLI_RS21875 | 1.092 | 7436.5276 | 0.00015 |

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| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|------------------|
| SLI_RS21915 | 0.1944 | 0.0728 | 2.67219 |
| SLI_RS21930 | 0.5814 | 0.4781 | 1.21619 |
| SLI_RS21970 | 0.8405 | 0.3697 | 2.27379 |
| SLI_RS21975 | 0.3174 | 0.1788 | 1.77521 |
| SLI_RS21995 | 0.4558 | 0.3874 | 1.17662 |
| SLI_RS22000 | 4.20806666666667 | 0.885233333333333 | 222.938161111111 |
| SLI_RS22010 | 0.3209 | 0.1218 | 2.63363 |
| SLI_RS22040 | 0.4476 | 0.286 | 1.56482 |
| SLI_RS22060 | 1.0483 | 0.7189 | 1.45825 |
| SLI_RS22070 | 0.3955 | 0.3518 | 1.12417 |
| SLI_RS22125 | 0.637066666666667 | 60.5667333333333 | 1.25379333333333 |
| SLI_RS22145 | 0.636 | 0.644866666666667 | 1.04033 |
| SLI_RS22165 | 0.4699 | 73.7819 | 0.00637 |
| SLI_RS22180 | 5.16465 | 1.6023 | 3.44389 |
| SLI_RS22220 | 0.252 | 0.0791 | 3.18391 |
| SLI_RS22265 | 0.8391 | 0.5291 | 1.58571 |
| SLI_RS22275 | 0.1827 | 0.0595 | 3.07079 |
| SLI_RS22290 | 0.4576 | 0.3924 | 1.16603 |
| SLI_RS22320 | 1.2381 | 1.0036 | 1.23373 |
| SLI_RS22340 | 1.4299 | 2.28603333333333 | 1.06674 |
| SLI_RS22405 | 0.4711 | 0.4121 | 1.14311 |
| SLI_RS22465 | 0.3414 | 0.1543 | 2.21187 |
| SLI_RS22740 | 0.949 | 35.4007666666667 | 2.149805 |
| SLI_RS22770 | 0.3913 | 46.1962 | 0.00847 |
| SLI_RS22780 | 0.5056 | 0.2339 | 2.16135 |
| SLI_RS22795 | 0.1885 | 0.09 | 2.09471 |
| SLI_RS22800 | 12.8007 | 21.2823666666667 | 1.35721 |
| SLI_RS22805 | 2.5053 | NA | 5.824808 |
| SLI_RS22840 | 0.85 | 0.22365 | 3.61298 |
| SLI_RS22865 | 0.2733 | 0.101 | 2.70524 |
| SLI_RS22875 | 21.3204333333333 | 1.97666666666667 | 12.3116133333333 |
| SLI_RS22905 | 0.3179 | 0.1982 | 1.60392 |
| SLI_RS22935 | 0.2378 | 0.1155 | 2.05883 |
| SLI_RS22980 | 0.6043 | 0.5604 | 1.07818 |
| SLI_RS23015 | 1.0062 | 0.317133333333333 | 334.611813333333 |
| SLI_RS23150 | 0.3458 | 0.2793 | 1.23821 |
| SLI_RS23180 | 0.2745 | 0.0852 | 3.22084 |
| SLI_RS23195 | 0.0025 | 25.24915 | 0.0001 |
| SLI_RS23200 | 0.1187 | 0.06435 | 1.850145 |
| SLI_RS23210 | 11.9781 | 59.7107 | 0.2006 |
| SLI_RS23215 | 1.2681 | 1.0411 | 1.21796 |
| SLI_RS23285 | 0.1251 | 0.0363 | 3.44022 |
| SLI_RS23360 | 10.4108 | 156.8962 | 0.06635 |
| SLI_RS23450 | 1.9518 | 1.1118 | 1.7555 |
| SLI_RS23485 | 0.0931 | 0.05355 | 2.608825 |
| SLI_RS23540 | 17.8648166666667 | 9.37745 | 2.17331666666667 |
| SLI_RS23545 | 0.1582 | 0.0344 | 4.5986 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-------------------|
| SLI_RS23565 | 29.39315 | 0.8603 | 142.74232 |
| SLI_RS23575 | 0.4781333333333333 | 0.3700333333333333 | 1.653116666666667 |
| SLI_RS23605 | 0.2026 | 0.1504 | 1.34707 |
| SLI_RS23635 | 0.3714 | 0.2005 | 1.853085 |
| SLI_RS23650 | 1.2062 | 1.0947 | 1.10187 |
| SLI_RS23660 | 26.9338 | 1.39935 | 38.33921 |
| SLI_RS23670 | 0.6124 | 0.11 | 500.306305 |
| SLI_RS23680 | 2.00424 | 11.16656 | 1.386218 |
| SLI_RS23690 | 0.3189 | 0.1553 | 2.05407 |
| SLI_RS23710 | 1.1229 | 77.793 | 0.01443 |
| SLI_RS23740 | 0.1566 | 0.0635 | 2.46778 |
| SLI_RS23895 | 0.0968 | 0.0001 | 999 |
| SLI_RS23945 | 0.2391 | 0.0498 | 4.80604 |
| SLI_RS23950 | 0.3658 | 0.1909 | 1.9163 |
| SLI_RS23955 | 0.9854 | 0.3214 | 3.0659 |
| SLI_RS23990 | 2.1949 | 1.2427 | 1.76625 |
| SLI_RS24035 | 5.6467 | NA | 0.904965 |
| SLI_RS24120 | 37.9068 | 6.3518 | 5.50064 |
| SLI_RS24190 | 0.2982 | 0.2424 | 1.22992 |
| SLI_RS24210 | 56.9895 | 11.3863 | 5.00508 |
| SLI_RS24220 | 0.986185714285714 | 54.0818428571429 | 145.062942857143 |
| SLI_RS24225 | 0.2078 | 0.0851 | 2.44194 |
| SLI_RS24245 | 0.4356 | 0.2855 | 1.52564 |
| SLI_RS24285 | 1.5061 | 0.7543 | 1.99658 |
| SLI_RS24290 | 0.7062 | 0.7463 | 0.989545 |
| SLI_RS24325 | 0.4239 | 0.213 | 1.98979 |
| SLI_RS24330 | 9.73335 | 0.0797 | 500.50667 |
| SLI_RS24335 | 0.195275 | NA | 0.89316 |
| SLI_RS24345 | 0.382 | 0.3889 | 0.98234 |
| SLI_RS24360 | 65.3666 | 0.90885 | 65.88552 |
| SLI_RS24385 | 1.183025 | 0.812675 | 1.4920225 |
| SLI_RS24425 | 0.4071 | 0.0004 | 999 |
| SLI_RS24560 | 0.2735 | 0.0566 | 4.83361 |
| SLI_RS24570 | 0.3843 | 0.0004 | 999 |
| SLI_RS24580 | 0.3935 | 0.2459 | 1.60063 |
| SLI_RS24610 | 0.2563 | 0.2094 | 1.22392 |
| SLI_RS24615 | 14.9452 | NA | 0.864415 |
| SLI_RS24620 | 0.3758 | 0.1146 | 3.28008 |
| SLI_RS24660 | 0.2606 | 0.1898 | 1.37321 |
| SLI_RS24725 | 23.8245 | 3.23965 | 5.255025 |
| SLI_RS24730 | 1.0236 | 1.1643 | 0.87913 |
| SLI_RS24740 | 0.2615 | 0.1223 | 2.13804 |
| SLI_RS24765 | 0.3215 | 0.2112 | 1.52199 |
| SLI_RS24825 | 0.3032 | 0.1486 | 2.04041 |
| SLI_RS24860 | 5.968133333333333 | 4.0303 | 333.84189 |
| SLI_RS24885 | 0.890925 | 0.825525 | 250.5705875 |
| SLI_RS24895 | 14.1355 | 1.5379 | 5.32838 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|--------------------|-------------------|
| SLI_RS24905 | 1.0913 | 0.4398 | 2.48117 |
| SLI_RS24960 | 1.0976 | 0.7473 | 1.46872 |
| SLI_RS25010 | 29.21615 | 0.5478 | 500.19237 |
| SLI_RS25015 | 0.8896 | 0.2279 | 3.90293 |
| SLI_RS25030 | 1.75384 | NA | 0.873518 |
| SLI_RS25040 | 19.2193 | 0.9435333333333333 | 340.8705466666667 |
| SLI_RS25085 | 0.2085 | 0.1094 | 1.90532 |
| SLI_RS25090 | 0.4731 | 0.2791 | 1.69487 |
| SLI_RS25100 | 0.5765 | 0.5674 | 1.01603 |
| SLI_RS25110 | 1.544466666666667 | 14.283266666666667 | 1.249843333333333 |
| SLI_RS25120 | 0.3286 | 0.2977 | 1.10396 |
| SLI_RS25185 | 0.5499 | 0.4072 | 1.3504 |
| SLI_RS25315 | 1.7217 | 1.5491 | 1.11142 |
| SLI_RS25435 | 0.453 | 0.3771 | 1.2011 |
| SLI_RS25440 | 0.4379 | 0.3276 | 1.35459 |
| SLI_RS25490 | 0.2926 | 0.1265 | 2.3134 |
| SLI_RS25520 | 16.1585 | 0.85304 | 38.49126 |
| SLI_RS25525 | 1.08905 | 8.86915 | 0.120175 |
| SLI_RS25535 | 20.41738 | 5.34284 | 201.444726 |
| SLI_RS25540 | 0.4738 | 0.6332 | 0.74825 |
| SLI_RS25550 | 0.5088 | 0.224 | 2.27128 |
| SLI_RS25655 | 0.0922 | 0.0395 | 2.33106 |
| SLI_RS25680 | 1.6009 | 0.0016 | 999 |
| SLI_RS25720 | 0.3368 | 0.1146 | 2.93891 |
| SLI_RS25730 | 0.833 | 0.3319 | 2.63486 |
| SLI_RS25745 | 0.3119 | 0.1533 | 2.03422 |
| SLI_RS25760 | 0.1856 | 0.1205 | 1.53992 |
| SLI_RS25770 | 1.34655 | 0.2079 | 6.605095 |
| SLI_RS25825 | 0.3523 | 0.1784 | 1.9748 |
| SLI_RS25830 | 0.3732 | 0.1661 | 2.24636 |
| SLI_RS25860 | 0.5644 | 0.4163 | 1.35563 |
| SLI_RS25870 | 0.3987 | 0.3409 | 1.16947 |
| SLI_RS25955 | 0.6537 | 0.3386 | 1.93088 |
| SLI_RS25975 | 0.2733 | 0.0893 | 3.06185 |
| SLI_RS26025 | 0.322 | 0.2596 | 1.24017 |
| SLI_RS26055 | 1.60665 | NA | 1.03849 |
| SLI_RS26070 | 0.1535 | 0.24075 | 1.447325 |
| SLI_RS26130 | 0.56684 | 0.97506 | 1.758954 |
| SLI_RS26150 | 0.2642 | 0.131 | 2.01745 |
| SLI_RS26185 | 0.4749 | 0.1636 | 2.90172 |
| SLI_RS26210 | 0.3497 | 0.249 | 1.40449 |
| SLI_RS26240 | 2.5348 | 0.0025 | 999 |
| SLI_RS26295 | 0.6872 | 0.4229 | 1.62494 |
| SLI_RS26435 | 38.2735 | 0.7775 | 49.22718 |
| SLI_RS26450 | 0.376 | 0.2653 | 1.41726 |
| SLI_RS26490 | 25.3627 | 36.4729 | 13.616635 |
| SLI_RS26510 | 0.218 | 0.1 | 2.18005 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|-------------------|
| SLI_RS26515 | 0.5764 | 0.4187 | 1.37678 |
| SLI_RS26550 | 0.5875333333333333 | 1.0183 | 0.41097 |
| SLI_RS26590 | 1.45286 | NA | 1.442866 |
| SLI_RS26710 | 0.2502 | 0.1289 | 1.9402 |
| SLI_RS26740 | 1.1163 | NA | 143.518532857143 |
| SLI_RS26760 | 0.5423 | 0.4501 | 1.20501 |
| SLI_RS26785 | 0.2691 | 0.139 | 1.93636 |
| SLI_RS26810 | 0.2246 | 0.1653 | 1.35885 |
| SLI_RS26815 | 0.35725 | 66.50395 | 0.42362 |
| SLI_RS26820 | 0.1326 | 0.0594 | 2.23089 |
| SLI_RS26825 | 0.1369666666666667 | 0.1004666666666667 | 1.002556666666667 |
| SLI_RS26830 | 0.1608 | 0.0302 | 5.32503 |
| SLI_RS26840 | 0.3071 | 0.213 | 1.44181 |
| SLI_RS26890 | 14.49065 | 4.1006 | 4.075955 |
| SLI_RS26910 | 0.6308666666666667 | 0.6639333333333333 | 1.252526666666667 |
| SLI_RS26915 | 28.7862 | 2.53055 | 5.68778 |
| SLI_RS27030 | 0.4472 | 0.2964 | 1.505225 |
| SLI_RS27050 | NA | 9.303133333333333 | 0.58728 |
| SLI_RS27055 | 0.518 | 0.2223 | 2.33019 |
| SLI_RS27070 | 0.3102 | 0.1189 | 2.60804 |
| SLI_RS27220 | 4.33891538461538 | 7.78523846153846 | 1.56345846153846 |
| SLI_RS27250 | 0.363 | 0.2037 | 1.78236 |
| SLI_RS27275 | 0.71275 | 0.62805 | 1.2596325 |
| SLI_RS27285 | 0.4028 | 0.2313 | 1.74179 |
| SLI_RS27290 | 2.50702 | 8.61063 | 103.354594 |
| SLI_RS27330 | 1.0544 | 0.7002 | 1.5059 |
| SLI_RS27335 | 0.2995 | 0.2024 | 1.47959 |
| SLI_RS27395 | 22.6601 | 2.53095 | 32.481085 |
| SLI_RS27405 | 0.5064 | 0.6667 | 0.75962 |
| SLI_RS27410 | 0.254 | 0.1319 | 1.92533 |
| SLI_RS27510 | 0.4276 | 0.287 | 1.48973 |
| SLI_RS27515 | 18.85145 | 2.1589 | 6.176175 |
| SLI_RS27610 | 0.3457 | 0.1693 | 2.04225 |
| SLI_RS27645 | 0.2927 | 0.1394 | 2.09992 |
| SLI_RS27655 | 0.31385 | 1.42775 | 0.57381 |
| SLI_RS27660 | 0.2378 | 0.1587 | 1.49854 |
| SLI_RS27680 | 0.2473 | 0.163 | 1.51666 |
| SLI_RS27745 | 0.44105 | 0.4715 | 0.918265 |
| SLI_RS27830 | 0.51525 | 0.97425 | 1.28004 |
| SLI_RS27840 | 0.3349 | 0.1348 | 2.48438 |
| SLI_RS27875 | 4.9498 | NA | 0.49186 |
| SLI_RS27880 | 0.3295 | 0.2812 | 1.17163 |
| SLI_RS27905 | 0.2101 | 0.1525 | 1.3776 |
| SLI_RS27910 | 4.5711 | 0.5419 | 5.57742 |
| SLI_RS27915 | 0.305 | 0.172 | 1.77312 |
| SLI_RS27990 | 0.5507 | 0.49935 | 1.1342 |
| SLI_RS28090 | 0.91265 | 1.9482 | 168.86856 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| SLI_RS28220 | 0.389 | 0.2209 | 1.76072 |
| SLI_RS28225 | 0.1864 | 0.1566 | 1.19064 |
| SLI_RS28255 | 0.5886 | 97.7804 | 1.25022 |
| SLI_RS28260 | 0.4802 | 0.3778 | 1.27105 |
| SLI_RS28280 | 0.2796 | 0.1377 | 2.03068 |
| SLI_RS28285 | 0.73605 | 0.5867 | 1.84514 |
| SLI_RS28300 | 27.8097 | 49.4749 | 0.5621 |
| SLI_RS28305 | 0.2761 | 0.1549 | 1.78316 |
| SLI_RS28395 | 0.4069 | 0.304 | 1.33847 |
| SLI_RS28410 | 0.3002 | 0.1188 | 2.52748 |
| SLI_RS28425 | 0.4257 | 0.9115 | 0.46705 |
| SLI_RS28460 | 14.74185 | 1.353 | 7.52427 |
| SLI_RS28465 | NA | 7.18384 | 0.991438 |
| SLI_RS28485 | 0.3048 | 0.1209 | 2.52036 |
| SLI_RS28520 | 0.3529 | 0.1627 | 2.16862 |
| SLI_RS28525 | 0.3662 | 0.1897 | 1.93064 |
| SLI_RS28625 | 0.7148 | 0.7069 | 1.01117 |
| SLI_RS28670 | 0.2843 | 0.1672 | 1.7 |
| SLI_RS28805 | 0.82845 | 0.5118 | 499.999125 |
| SLI_RS28820 | 0.4057 | 0.2369 | 1.71238 |
| SLI_RS28845 | 0.4993 | 0.2329 | 2.14409 |
| SLI_RS28855 | 0.2443 | 0.1686 | 1.44881 |
| SLI_RS28905 | 0.2763 | 0.1176 | 2.34893 |
| SLI_RS28910 | 18.3057 | 41.9989 | 0.43586 |
| SLI_RS29020 | 0.3538 | 0.2191 | 1.61478 |
| SLI_RS29070 | 0.1987 | 0.0643 | 3.09031 |
| SLI_RS29125 | 0.4813333333333333 | 0.5280666666666667 | 1.1910933333333333 |
| SLI_RS29130 | 0.2610333333333333 | 0.9899666666666667 | 0.7904333333333333 |
| SLI_RS29145 | 34.1035 | 10462.1074 | 0.00326 |
| SLI_RS29195 | 7.08725 | 36.4553 | 4.924925 |
| SLI_RS29200 | 19.88105 | 1.8423333333333333 | 170.62257 |
| SLI_RS29205 | 1.3882 | 1.8426 | 0.75343 |
| SLI_RS29215 | 3.6128 | 0.8768 | 7.085225 |
| SLI_RS29220 | 8.381125 | 15.43995 | 250.16821 |
| SLI_RS29230 | 0.4769 | 0.2129 | 2.2404 |
| SLI_RS29235 | 0.2858 | 0.2906 | 0.98344 |
| SLI_RS29275 | 21.1327 | 2.4441333333333333 | 4.7646033333333333 |
| SLI_RS29625 | 0.4945 | 67.1154 | 0.60712 |
| SLI_RS29630 | 29.05885 | 40.46525 | 10.20445 |
| SLI_RS29640 | 31.428766666666667 | 1.0801333333333333 | 103.79492333333333 |
| SLI_RS29735 | 0.3955 | 0.2284 | 1.73147 |
| SLI_RS29790 | 0.4704 | 0.4048 | 1.16214 |
| SLI_RS29865 | 0.348 | 0.2027 | 1.71708 |
| SLI_RS29895 | 15.6503 | 0.934025 | 10.294485 |
| SLI_RS29975 | 4.09535 | 17.22945 | 0.35868 |
| SLI_RS29995 | 1.4905 | 1.77548 | 1.45837 |
| SLI_RS30000 | 0.5792 | 5.338275 | 0.888 |

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| Gene | dN | dS | ω |
|-------------|------------------|-------------------|------------------|
| SLI_RS30005 | 13.3394375 | 80.014375 | 173.9462225 |
| SLI_RS30015 | 13.46325 | 0.4634 | 21.697195 |
| SLI_RS30050 | 6.19535 | 46.2809 | 0.288045 |
| SLI_RS30055 | 0.2753 | 0.1213 | 2.26923 |
| SLI_RS30160 | 1.7335 | 1.322 | 1.31125 |
| SLI_RS30220 | 0.4456 | 0.4282 | 1.04051 |
| SLI_RS30270 | 0.3627 | 0.2983 | 1.21582 |
| SLI_RS30295 | 28.5754 | 0.161466666666667 | 180.00102 |
| SLI_RS30320 | 39.15495 | 1.3307 | 29.425095 |
| SLI_RS30325 | 1.8113 | 955.58305 | 1.276325 |
| SLI_RS30330 | 4.5014 | 1.57 | 2.86714 |
| SLI_RS30335 | 1.624 | 0.9179 | 1.76922 |
| SLI_RS30355 | 0.2742 | 0.1854 | 1.47906 |
| SLI_RS30400 | 0.0001 | 1.3423 | 0.0001 |
| SLI_RS30435 | 1.1495 | 1.8573 | 0.61894 |
| SLI_RS30460 | 0.4055 | 0.3251 | 1.24709 |
| SLI_RS30475 | 0.3533 | 0.1987 | 1.77786 |
| SLI_RS30495 | 0.2661 | 0.1764 | 1.50884 |
| SLI_RS30520 | 0.2665 | 0.1261 | 2.11305 |
| SLI_RS30660 | 0.8009 | 0.2791 | 2.86935 |
| SLI_RS30830 | 0.3638 | 0.423 | 1.28409 |
| SLI_RS30845 | 4.2873 | 1.8669 | 1.72317 |
| SLI_RS30885 | 23.0881333333333 | 1.90736666666667 | 20.68245 |
| SLI_RS30945 | 0.4919 | 0.3036 | 1.62047 |
| SLI_RS31165 | 0.32215 | 0.23455 | 1.39402 |
| SLI_RS31175 | 7.2323625 | 51.5954 | 126.69442375 |
| SLI_RS31180 | 44.5672 | 1.5176 | 29.36595 |
| SLI_RS31255 | 0.1965 | 0.0809 | 2.42907 |
| SLI_RS31275 | 0.04435 | 0.04165 | 0.532965 |
| SLI_RS31280 | 0.2795 | 0.1732 | 1.61349 |
| SLI_RS31295 | 0.4165 | 0.3426 | 1.21568 |
| SLI_RS31325 | 0.4205 | 0.2353 | 1.7866 |
| SLI_RS31335 | 1.2419 | 0.5238 | 2.37122 |
| SLI_RS31495 | 30.14865 | 7.0621 | 2.9828 |
| SLI_RS31535 | 25.9233 | 0.2623 | 58.27917 |
| SLI_RS31545 | 1.04 | 2.72984 | 1.52059 |
| SLI_RS31580 | 0.518 | 0.0935 | 5.53851 |
| SLI_RS31720 | 0.4847 | 0.4078 | 1.18859 |
| SLI_RS31760 | 34.8068 | 0.0348 | 999 |
| SLI_RS32065 | 14.5098222222222 | 3.05925555555556 | 15.0046255555556 |
| SLI_RS32070 | 38.6943 | 1.9248 | 23.55405 |
| SLI_RS32265 | 37.90575 | 23.4252 | 499.508985 |
| SLI_RS32325 | 6.475325 | 1.02565 | 6.42936125 |
| SLI_RS32330 | 18.4289 | 7.79965 | 1.760095 |
| SLI_RS32335 | 1.9832 | 1.3921 | 1.42461 |
| SLI_RS32340 | 1.5398 | 1.4096 | 1.09231 |
| SLI_RS32345 | 0.2749 | 0.2033 | 1.35175 |

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| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|--------------------|
| SLI_RS32355 | 0.2224 | 0.0967 | 2.29896 |
| SLI_RS32470 | 0.4134 | 0.3396 | 1.21725 |
| SLI_RS32515 | 1.63045 | 2.1934 | 0.98954 |
| SLI_RS32530 | 2.92845 | 2.39735 | 3.14324 |
| SLI_RS32535 | 0.965 | 54.4971 | 0.01771 |
| SLI_RS32540 | 0.9428 | 1.7164 | 0.5493 |
| SLI_RS32580 | 21.57175 | 12.13625 | 1.361465 |
| SLI_RS32640 | 0.447975 | 0.365275 | 1.27922 |
| SLI_RS32665 | 1.6495 | 1.3176 | 1.25191 |
| SLI_RS32690 | 1.4134 | 0.4093 | 3.45298 |
| SLI_RS32695 | 0.0003 | 2.8609 | 0.0001 |
| SLI_RS32900 | 0.3174 | 0.2058 | 1.54233 |
| SLI_RS33015 | 0.8057 | 0.4652 | 1.73182 |
| SLI_RS33265 | 0.6589 | 0.3653 | 1.80347 |
| SLI_RS33350 | 0.2204 | 0.1256 | 1.75544 |
| SLI_RS33630 | 0.1922 | 0.0848 | 2.26687 |
| SLI_RS33635 | 1.1705 | 2.1823 | 0.53635 |
| SLI_RS33640 | 0.8159 | 1.58545 | 0.514905 |
| SLI_RS33720 | 2.003725 | NA | 126.2221225 |
| SLI_RS33760 | 6.403666666666667 | NA | 1.756476666666667 |
| SLI_RS33765 | 0 | 0 | 0 |
| SLI_RS33780 | NA | 9.7645 | 0.93584 |
| SLI_RS33800 | 1.119 | 11.62395 | 1.74769 |
| SLI_RS33835 | 0.3042 | 72.603 | 0.00419 |
| SLI_RS33840 | 0.3614 | 0.2162 | 1.67168 |
| SLI_RS33865 | 0.4416 | 2384.2149 | 0.00019 |
| SLI_RS33895 | 15.9535 | 44.83823333333333 | 5.32787 |
| SLI_RS33905 | 0.3496 | 0.1771 | 1.97455 |
| SLI_RS34055 | NA | 0.56555 | NA |
| SLI_RS34895 | 0 | 0 | 0 |
| SLI_RS34900 | 25.338066666666667 | 18.7779 | 18.89122333333333 |
| SLI_RS34910 | 0.67745 | 2.10615 | 0.32943 |
| SLI_RS34995 | 0.2898 | 0.3939 | 0.7356 |
| SLI_RS35060 | 0.2041 | 0.1411 | 1.44641 |
| SLI_RS35090 | 35.6846 | 32.1284 | 1.11069 |
| SLI_RS35110 | 0.2862 | 0.1692 | 1.69207 |
| SLI_RS35300 | 0.4666 | 0.1722 | 2.7096 |
| SLI_RS35565 | 1.4721 | 1.3259 | 1.1103 |
| SLI_RS35590 | 1.0018 | 2.27116 | 400.122238 |
| SLI_RS35830 | 2.8863 | 0.25065 | 500.15844 |
| SLI_RS35835 | 0.9519 | 0.7904 | 1.20421 |
| SLI_RS35840 | 0.5137 | 0.2686 | 1.91271 |
| SLI_RS35950 | 7.125866666666667 | 20.93273333333333 | 0.5282433333333333 |
| SLI_RS35955 | 0.7995 | 90.0793 | 0.00888 |
| SLI_RS36135 | 2.30755 | 1.43415 | 1.688695 |
| SLI_RS36240 | 0.507 | 0.2567 | 1.97514 |
| SLI_RS36265 | 1.100233333333333 | 0.9323 | 1.265973333333333 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-------------------|-------------------|-------------------|
| SLI_RS36270 | 1.3259 | 24.8073 | 1.813778 |
| SLI_RS36340 | 1.6208 | 1.0432 | 1.55367 |
| SLI_RS36560 | 0.5298 | 0.2744 | 1.93094 |
| SLI_RS36815 | 1.72776666666667 | 0.783533333333333 | 3.17882666666667 |
| SLI_RS36820 | 21.6593 | 0.9528 | 60.620015 |
| SLI_RS36945 | 0.76365 | 0.9198 | 0.82897 |
| SLI_RS37015 | 0.28665 | 0.32105 | 0.89992 |
| SLI_RS37045 | 1.40765 | 0.538033333333333 | 333.807545 |
| SLI_RS37050 | 8.011525 | 1.568325 | 13.03537125 |
| SLI_RS37055 | 20.3522333333333 | 34.3852833333333 | 8.19484166666667 |
| SLI_RS37060 | 0.6686 | 0.34716 | 201.543652 |
| SLI_RS37150 | 2.00173333333333 | 3.33463333333333 | 2.21712333333333 |
| SLI_RS37155 | 4.40684 | 0.96969 | 201.159351 |
| SLI_RS37175 | 0.32655 | 0.20805 | 2.47512 |
| SLI_RS37180 | 0.8585 | 0.0009 | 999 |
| SLI_RS37265 | 0.2505 | 0.184 | 1.36151 |
| SLI_RS37270 | 0.3755 | 0.2701 | 1.39055 |
| SLI_RS37275 | 0.438533333333333 | 0.408333333333333 | 1.05943666666667 |
| SLI_RS37335 | 4.6576 | 137.969 | 286.981892857143 |
| SLI_RS37340 | 3.40892222222222 | 7.26835555555556 | 1.87546 |
| SLI_RS37345 | 0.3454 | 0.2716 | 1.27168 |
| SLI_RS37350 | 0.2959 | 0.1557 | 1.90109 |
| SLI_RS37370 | 0.600675 | 0.252575 | 2.3241275 |
| SLI_RS37375 | 25.4989 | 0.85495 | 38.170375 |
| SLI_RS37380 | 26.92925 | 2.00205 | 9.193005 |
| SLI_RS37385 | 9.50796666666667 | 4.3891 | 5.00504666666667 |
| SLI_RS37560 | 0.2294 | 0.1026 | 2.23593 |
| SLI_RS37610 | 2.42996666666667 | NA | 0.618333333333333 |
| SLI_RS37625 | 7.80703 | 762.84115 | 52.6947855 |
| SLI_RS37640 | 44.8255 | 0.0449 | 999 |
| SLI_RS37645 | 7.26534857142857 | NA | 117.366584571429 |
| SLI_RS37650 | 0.5939 | 0.495566666666667 | 1.33999 |
| SLI_RS37655 | 0.302 | 0.2454 | 1.23104 |
| SLI_RS37725 | 6.22514666666667 | 14.35984 | 10.2164033333333 |
| SLI_RS37755 | 7.15444 | 1.471355 | 25.1295135 |
| SLI_RS37760 | 13.3424714285714 | 1.08431428571429 | 145.670284285714 |
| SLI_RS37765 | 0.4591 | 0.1931 | 2.37812 |
| SLI_RS37770 | 41.7901666666667 | 2.27753333333333 | 42.4952366666667 |
| SLI_RS37780 | 0.3659 | 0.2426 | 1.50791 |
| SLI_RS37795 | 0.626133333333333 | 0.6368 | 1.34739666666667 |
| SLI_RS37800 | 2.54925 | 90.59715 | 0.047695 |
| SLI_RS37855 | 0.4697 | 0.6006 | 0.78201 |
| SLI_RS37870 | 0.4539 | 0.4024 | 1.1281 |
| SLI_RS37880 | 0.3429 | 0.1737 | 1.97374 |
| SLI_RS37910 | 7.23595 | 14.1163 | 1.57521 |
| SLI_RS37915 | 19.9308 | 24.0542666666667 | 8.09608333333333 |
| SLI_RS37920 | 0.56792 | 4.71052 | 200.565684 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|--------------|------------------|-------------------|------------------|
| SLI_RS38035 | 2.5232 | 0.0025 | 999 |
| SLI_RS38040 | 2.97383333333333 | 1.23696666666667 | 8.35889333333333 |
| SLI_RS38070 | 11.64226 | 1.64486 | 9.11039 |
| SLI_RS38075 | 1.2823 | 4.29645 | 250.127305 |
| SLI_RS38080 | 1.2684 | 0.8484 | 1.49505 |
| SLI_RS38095 | 0.4641 | 0.6767 | 0.68578 |
| SLI_RS38120 | 21.5915 | 34.56955 | 9.17189 |
| SLI_RS38155 | 0.3332 | 0.1909 | 1.74605 |
| SLI_RS38160 | 0.501 | 0.404 | 1.24914 |
| SLI_RS38185 | 0.5331 | 0.3331 | 1.60048 |
| SLI_RS38220 | 2.34332 | 1.93662 | 1.178808 |
| SLI_RS38245 | 1.3299375 | 0.735525 | 2.68837 |
| SLI_RS38260 | 0.3393 | 1.1805 | 0.2874 |
| SLI_RS38265 | 1.0826 | 1.4937 | 0.72478 |
| SLI_RS38270 | 5.9143625 | 1.7592375 | 128.14935625 |
| SLI_RS38285 | 1.1175 | 1.2526 | 0.89216 |
| SLI_RS38310 | 19.8157 | 11.5075153846154 | 235.639393846154 |
| SLI_RS38325 | 22.3065 | 8.93645 | 1.60986 |
| SLI_RS38365 | 1.01315 | 0.69505 | 2.297635 |
| SLI_RS38530 | 0.30115 | 0.1657 | 2.07763 |
| SLI_RS38695 | 0.5422 | 0.36935 | 1.437405 |
| SLI_RS38730 | 0.755675 | 1.20145 | 0.7027325 |
| SLI_RS38925 | 12.0366666666667 | 13.9410333333333 | 1.86686666666667 |
| SLI_RS39065 | 3.3315 | 0.0033 | 999 |
| SLI_RS39510 | 3.21273571428571 | NA | 144.423659285714 |
| SLI_RS39570 | 0.2275 | 0.214 | 1.06312 |
| SLI_RS39675 | 14.459425 | 45.731575 | 33.7205475 |
| SLI_RS39800 | 0.1712 | 0.1638 | 1.04538 |
| SLI_RS39805 | 0.4436 | 0.2659 | 1.6684 |
| SLI_RS39995 | 0.3133 | 0.2565 | 1.22139 |
| SLI_RS40080 | 3.3432 | 74.4244 | 0.04492 |
| SVEN_RS05985 | 16.5129333333333 | 0.298666666666667 | 25.25385 |
| SVEN_RS06900 | 36.55105 | 9.38305 | 2.298095 |
| SVEN_RS07450 | 29.9414 | 1.534 | 19.51829 |
| SVEN_RS08200 | 1.4978 | 1.3548 | 1.1056 |
| SVEN_RS08515 | 0.3008 | 0.1899 | 1.5838 |
| SVEN_RS12070 | 0.5489 | 0.8499 | 0.64584 |
| SVEN_RS12155 | 2.8557 | 1.4286 | 1.99889 |
| SVEN_RS13685 | 0.2705 | 0.1642 | 1.6481 |
| SVEN_RS15245 | 0.4121 | 0.5142 | 0.80141 |
| SVEN_RS15460 | 1.2098 | 2.5008 | 0.48379 |
| SVEN_RS16920 | 42.8246 | 29.7309 | 1.44041 |
| SVEN_RS19015 | 0.3377 | 0.2014 | 1.67649 |
| SVEN_RS19910 | 0.3938 | 0.2429 | 1.62106 |
| SVEN_RS20295 | 0.159 | 0.0921 | 1.72669 |
| SVEN_RS20815 | 32.5917 | 425.2558 | 0.07664 |
| SVEN_RS21675 | 39.227 | 17.973425 | 6.55895 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|--------------|-------------------|-------------------|-------------------|
| SVEN_RS29160 | 1.0744 | 0.9694 | 1.10832 |
| SVEN_RS29195 | 23.8069 | 0.5145 | 46.27176 |
| SVEN_RS31260 | 0.2833 | 0.1438 | 1.97069 |
| SVEN_RS31720 | 0.9694 | 0.6664 | 1.4546 |
| SVEN_RS36115 | 6.29275 | 1.594 | 9.938395 |
| SVEN_RS37210 | 6.5109 | 0.0547 | 119.01462 |
| vnz_00310 | 43.2261 | 1.2355 | 34.98764 |
| vnz_00390 | 0.8403 | 0.70785 | 1.287115 |
| vnz_00625 | 0.637266666666667 | 1.18 | 0.763786666666667 |
| vnz_00630 | 0.2049 | 0.0826 | 2.48052 |
| vnz_00680 | 1.65475 | 1.0302 | 1.611735 |
| vnz_00685 | 9.79714642857143 | 16.7953107142857 | 115.75269 |
| vnz_00690 | 3.24492352941176 | NA | 119.27834 |
| vnz_00715 | 0.4985 | 0.2987 | 1.66897 |
| vnz_00945 | 0.3594 | 0.1689 | 2.12828 |
| vnz_00950 | 2.6322 | 43.446 | 0.6627 |
| vnz_00955 | 9.4866 | 8.7313 | 1.08651 |
| vnz_00965 | 1.00543333333333 | 26.3645333333333 | 5.54837 |
| vnz_00980 | 1.38625 | 3.09865 | 0.432385 |
| vnz_00985 | 1.59612857142857 | NA | 1.05719857142857 |
| vnz_01000 | 30.363025 | 1.212075 | 18.02263 |
| vnz_01085 | 0.3689 | 0.2426 | 1.52099 |
| vnz_01090 | 0 | NA | 0 |
| vnz_01140 | 0.3196 | 0.2663 | 1.20023 |
| vnz_01180 | 2.29398333333333 | 31.8864833333333 | 168.332451666667 |
| vnz_01185 | 4.30026428571429 | 46.9288214285714 | 1.76427 |
| vnz_01190 | 0.88055 | 1.46465 | 0.819625 |
| vnz_01260 | 3.895275 | 36.4163 | 94.330765 |
| vnz_01315 | 1.1048 | NA | 1.63087 |
| vnz_01320 | 2.16521666666667 | 0.800616666666667 | 4.52165666666667 |
| vnz_01325 | 42.03545 | 32.19815 | 44.068415 |
| vnz_01330 | 1.22265 | 1.09825 | 1.48536 |
| vnz_01335 | 1.8961 | NA | 0.31261 |
| vnz_01375 | 6.90756153846154 | 39.2993153846154 | 64.6714830769231 |
| vnz_01380 | 0.343266666666667 | 0.151233333333333 | 333.934863333333 |
| vnz_01385 | 0.2796 | 0.37595 | 2.0355 |
| vnz_01390 | 7.23498333333333 | NA | 167.309295 |
| vnz_01395 | 0.298 | 0.141 | 2.11265 |
| vnz_01430 | 0.3586 | 0.2228 | 1.61103 |
| vnz_01435 | 0.94635 | 1.05735 | 0.901175 |
| vnz_01740 | 0.2744 | 0.1796 | 1.511755 |
| vnz_01745 | 0.2542 | 0.1896 | 1.3405 |
| vnz_01750 | 0.40425 | 0.2028 | 250.8658425 |
| vnz_01755 | 0.375 | 0.2975 | 1.5256575 |
| vnz_01770 | 56.7089 | 366.9475 | 0.15454 |
| vnz_01775 | 0.2329 | 0.1267 | 1.83862 |
| vnz_01785 | 0.84 | 0.708133333333333 | 1.70276 |

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| Gene | dN | dS | ω |
|-----------|------------------|-------------------|------------------|
| vnz_01795 | 0.3173 | 0.2034 | 1.55996 |
| vnz_01800 | 46.6009 | 0.1767 | 263.69446 |
| vnz_01805 | 0.2658 | 0.1892 | 1.40466 |
| vnz_01810 | 0.3999 | 0.5407 | 1.93592 |
| vnz_01815 | 0.2543 | 0.1806 | 1.40806 |
| vnz_01825 | 0.1687 | 0.0997 | 1.69256 |
| vnz_01835 | 0.1799 | 0.0494 | 3.64236 |
| vnz_01840 | 0.1923 | 0.1149 | 1.67377 |
| vnz_01845 | 0.1636 | 0.0915 | 1.78888 |
| vnz_01855 | 2.6589 | 0.3855 | 6.89655 |
| vnz_01860 | 0.272 | 0.2206 | 1.2327 |
| vnz_01865 | 0.251 | 0.19 | 1.398285 |
| vnz_01870 | 1.02803333333333 | 0.995466666666667 | 3.36382 |
| vnz_01875 | 0.22115 | 62.80085 | 1.25043 |
| vnz_01880 | 0.3597 | 0.28215 | 1.263155 |
| vnz_01885 | 0.59 | 0.9031 | 0.65334 |
| vnz_01895 | 0.4281 | 0.4529 | 0.94523 |
| vnz_01900 | 0.356 | 0.342025 | 1.14416 |
| vnz_01905 | 0.29915 | 0.10325 | 2.884275 |
| vnz_02145 | 1.1668 | NA | 1.66124 |
| vnz_02160 | 11.5801 | 0.7352 | 15.75196 |
| vnz_02205 | 3.44912105263158 | 8.73353684210526 | 158.790368421053 |
| vnz_02210 | 1.54238 | 145.05654 | 200.313766 |
| vnz_02230 | 9.19746666666667 | 108.786255555556 | 124.880548333333 |
| vnz_02235 | 10.256875 | NA | 24.5585125 |
| vnz_02240 | 2.82525714285714 | 3.53148571428571 | 144.187728571429 |
| vnz_02250 | 1.36745 | 1.0814125 | 126.4266175 |
| vnz_02255 | 2.00743636363636 | 0.8836 | 2.52915272727273 |
| vnz_02305 | NA | 18.4220806451613 | 35.507074516129 |
| vnz_02310 | 5.57195396825397 | 121.753480952381 | 50.8386403174603 |
| vnz_02340 | 0.2581 | 0.1667 | 1.54772 |
| vnz_02345 | 8.65205555555556 | 217.271155555556 | 9.51725333333333 |
| vnz_02350 | 1.48879166666667 | 6.78125 | 167.427594166667 |
| vnz_02355 | 1.1577875 | 0.7943 | 251.465645 |
| vnz_02365 | 5.98551666666667 | NA | 167.699321666667 |
| vnz_02395 | 0.404 | 0.406633333333333 | 1.64059 |
| vnz_02400 | 1.51986923076923 | 4.11150769230769 | 155.257392307692 |
| vnz_02405 | 4.8428875 | 0.727625 | 128.54296625 |
| vnz_02410 | 6.92880833333333 | 4.2639 | 9.53617666666667 |
| vnz_02415 | 16.3037285714286 | NA | 6.66094857142857 |
| vnz_02420 | 5.35936666666667 | 32.4274666666667 | 1.13961666666667 |
| vnz_02425 | 0.48015 | 0.2934 | 1.65165 |
| vnz_02430 | 17.1463 | 10.14975 | 1.53835 |
| vnz_02435 | NA | 4.12135454545455 | 1.82761727272727 |
| vnz_02460 | 0.6583 | 0.601433333333333 | 1.47884333333333 |
| vnz_02495 | 18.1696166666667 | 13.7376166666667 | 7.30741333333333 |
| vnz_02500 | 8.02421666666667 | NA | 1.06283944444444 |

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| Gene | dN | dS | ω |
|-----------|-------------------|--------------------|-------------------|
| vnz_02505 | 9.025175 | 7.41585 | 1.45783875 |
| vnz_02515 | 11.61813333333333 | 0.2372333333333333 | 334.0470066666667 |
| vnz_02525 | 0.2809 | 0.2552 | 1.10106 |
| vnz_02535 | 0.4381 | 0.1565 | 2.720685 |
| vnz_02550 | 0.3202 | 0.2005 | 1.597 |
| vnz_02555 | 0.47815 | 0.30605 | 1.71423 |
| vnz_02570 | 29.7263 | 7.8354 | 3.79384 |
| vnz_02665 | 0.7264 | 0.3587 | 2.02494 |
| vnz_02670 | 0.3903 | 0.6639 | 0.5879 |
| vnz_02700 | 2.37680909090909 | 1.09566363636364 | 93.6542409090909 |
| vnz_02705 | 0.3257 | 0.1914 | 1.70168 |
| vnz_02715 | 3.1451 | 5.3344 | 1.688992 |
| vnz_02745 | 7.29195 | 4.04958333333333 | 3.61365416666667 |
| vnz_02750 | 16.6087 | 0.272625 | 515.603135 |
| vnz_02755 | 2.24146666666667 | 1.75006666666667 | 168.279826666667 |
| vnz_02845 | 52.0725 | 1.8437 | 28.24347 |
| vnz_02880 | 2.20149230769231 | 15.2331538461538 | 77.7930330769231 |
| vnz_02885 | 0.618566666666667 | NA | 0.443423333333333 |
| vnz_02895 | 1.1547 | 0.67925 | 250.9738275 |
| vnz_02900 | 0.953475 | 0.576925 | 1.6791 |
| vnz_02905 | 2.20104 | 1.31458 | 1.79743 |
| vnz_02910 | 7.57658333333333 | 0.59235 | 295.8825 |
| vnz_02925 | 0.3857 | 0.333366666666667 | 1.17812333333333 |
| vnz_02945 | 2.09991666666667 | 12.5978555555556 | 58.6433077777778 |
| vnz_02955 | 0.628075 | 0.410625 | 1.65269 |
| vnz_02960 | 0.3836 | 0.3483 | 1.10156 |
| vnz_02975 | 0.2407 | 0.1254 | 1.91957 |
| vnz_02990 | 12.8386 | 0.9723 | 96.2430457142857 |
| vnz_02995 | 0.9622 | 0.95175 | 1.149215 |
| vnz_03020 | 23.0438666666667 | 4.43396666666667 | 3.54678333333333 |
| vnz_03045 | 0.593 | 5903.7608 | 0.0001 |
| vnz_03050 | 19.294475 | 20.285125 | 374.2914275 |
| vnz_03060 | 4.37751315789474 | 20.9021263157895 | 38.3489042105263 |
| vnz_03095 | 0.4704 | 0.4339 | 1.08398 |
| vnz_03120 | 1.4942 | 0.3353 | 666.236033333333 |
| vnz_03125 | 0.7538 | 1.0766 | 0.70017 |
| vnz_03135 | 6.74375 | NA | 6.9148325 |
| vnz_03145 | 1.939825 | 1.055575 | 252.09425 |
| vnz_03155 | 37.93465 | 9.5814 | 43.143135 |
| vnz_03160 | 0.3286 | 3285.6947 | 0.0001 |
| vnz_03165 | 27.4407 | 1.7221 | 15.93399 |
| vnz_03185 | 54.2262 | 1.5035 | 36.06563 |
| vnz_03210 | 0 | NA | 0 |
| vnz_03215 | 41.5858 | 18.529 | 2.24436 |
| vnz_03220 | 10.6635818181818 | 83.3204636363636 | 118.060206363636 |
| vnz_03225 | 0.4259 | 0.1996 | 2.13323 |
| vnz_03230 | 2.3223 | 46.77202 | 1.79679 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_03235 | 2.0715 | 1.73806666666667 | 1.59572 |
| vnz_03240 | 4.61433333333333 | NA | 1.14486333333333 |
| vnz_03245 | 15.5643428571429 | 2.01848571428571 | 93.6818114285714 |
| vnz_03250 | 2.7746 | 0.9107 | 4.0447875 |
| vnz_03300 | 0.748 | 0.6203 | 1.20598 |
| vnz_03305 | 0.6696 | 0.1866 | 3.58826 |
| vnz_03310 | 2.59677142857143 | 11.9244571428571 | 5.82588285714286 |
| vnz_03335 | 8.59094 | 9.59074 | 1.402148 |
| vnz_03340 | 16.0437125 | 5.46985 | 68.0141125 |
| vnz_03345 | 17.6462736842105 | 31.2827894736842 | 18.6950047368421 |
| vnz_03350 | 18.2067666666667 | 1.16293333333333 | 18.45513 |
| vnz_03355 | 13.71084 | 142.99034 | 5.125958 |
| vnz_03465 | 5.1940875 | NA | 250.5043925 |
| vnz_03470 | 0.3799 | 0.1952 | 1.94595 |
| vnz_03485 | 0.5873 | 0.4953 | 1.18588 |
| vnz_03490 | 0.5178 | 0.29 | 2.07644 |
| vnz_03495 | 7.09538333333333 | 3.816575 | 253.099831666667 |
| vnz_03525 | 8.0398625 | 2.1399375 | 2.1115425 |
| vnz_03540 | 19.6231666666667 | 7725.077 | 1.01090666666667 |
| vnz_03550 | 0.4577 | 0.1974 | 2.31888 |
| vnz_03555 | 0.2815 | 3.99146666666667 | 1.63866333333333 |
| vnz_03560 | 0.4361 | 0.962633333333333 | 1.49380333333333 |
| vnz_03565 | 0.3696 | 0.2216 | 1.671925 |
| vnz_03590 | 0.2851 | 0.1436 | 1.98567 |
| vnz_03610 | 0.48585 | 0.2151 | 2.20849 |
| vnz_03615 | 11.5584666666667 | 2078.24386666667 | 0.88717 |
| vnz_03620 | 0.9573 | 34.2224 | 0.02797 |
| vnz_03625 | 14.97855 | 1.58345 | 501.8357475 |
| vnz_03690 | 0.4082 | 0.2562 | 1.5934 |
| vnz_03695 | 0.642266666666667 | 0.569733333333333 | 1.84521 |
| vnz_03705 | 0.5559 | 0.3815 | 1.45729 |
| vnz_03710 | 0.5129 | 0.3156 | 1.6251 |
| vnz_03775 | 9.23968181818182 | 6.02841818181818 | 184.111313636364 |
| vnz_03785 | NA | 2.00755 | 442.271765 |
| vnz_03790 | 8.590275 | 9.68295 | 0.968005 |
| vnz_03810 | 6.56286666666667 | 0.336833333333333 | 341.036463333333 |
| vnz_03815 | 0.3637 | 64.5311 | 0.00564 |
| vnz_03855 | 0.2592 | 0.1356 | 1.91078 |
| vnz_03865 | 4.9056875 | NA | 250.576985 |
| vnz_03870 | 0.720966666666667 | 0.576166666666667 | 1.33210333333333 |
| vnz_03880 | 1.2535 | 0.942585714285714 | 143.684768571429 |
| vnz_03885 | 1.98416666666667 | 0.852083333333333 | 2.31771 |
| vnz_03895 | 1.51313333333333 | 0.331533333333333 | 334.77177 |
| vnz_03900 | 1.4089 | 1.2573 | 1.12052 |
| vnz_03910 | 17.0712625 | 3119.1369625 | 132.5380575 |
| vnz_03915 | 1.2077 | 4.9622 | 0.56819 |
| vnz_03935 | 44.3375 | 1.9553 | 22.67566 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_03940 | 10.0471727272727 | 1.02219090909091 | 99.6307790909091 |
| vnz_03945 | 1.31548 | 4.5169 | 1.488176 |
| vnz_03955 | 0.677 | 0.3195 | 2.11919 |
| vnz_03980 | 0.5851 | 0.4085 | 1.40895 |
| vnz_03985 | 5.1753 | 0.245575 | 250.9727 |
| vnz_03990 | 0.3211 | 0.1322 | 2.42807 |
| vnz_03995 | 6.59945 | 297.3426 | 0.8798 |
| vnz_04000 | 4.04813333333333 | 3.08183333333333 | 2.08892666666667 |
| vnz_04005 | 0.325733333333333 | 0.293933333333333 | 0.996463333333333 |
| vnz_04010 | 16.49015 | 2.629875 | 78.035295 |
| vnz_04020 | 0.4362 | 0.3218 | 1.35543 |
| vnz_04050 | 1.41836666666667 | 1.06696666666667 | 2.76761 |
| vnz_04055 | 1.2915 | 0.56175 | 3.311005 |
| vnz_04060 | 7.87958333333333 | 1.61998333333333 | 5.768385 |
| vnz_04065 | 0.2036 | 0.09675 | 2.175555 |
| vnz_04075 | 0 | 0 | 0 |
| vnz_04085 | 0.29735 | 0.1801 | 1.71632 |
| vnz_04090 | 1.20355 | 1.6441 | 0.92427 |
| vnz_04095 | 8.38520769230769 | NA | 77.6990330769231 |
| vnz_04100 | 0.2979 | 0.1778 | 1.67565 |
| vnz_04105 | 0.3397 | 0.2528 | 1.38582 |
| vnz_04125 | 0.4239 | 0.3754 | 1.12912 |
| vnz_04130 | 7.62256923076923 | 8.10923076923077 | 79.8278307692308 |
| vnz_04135 | 0.311866666666667 | 0.1977 | 1.09894666666667 |
| vnz_04155 | 24.3676222222222 | 3.97243333333333 | 226.018046666667 |
| vnz_04165 | 3.58505 | 1.61816666666667 | 1.721665 |
| vnz_04170 | 0.4276 | 0.193433333333333 | 2.92643666666667 |
| vnz_04200 | 25.2452333333333 | 22.7573333333333 | 60.0767733333333 |
| vnz_04205 | 0.635675 | NA | 250.77166 |
| vnz_04215 | 0.22625 | 0.1171 | 1.952675 |
| vnz_04220 | 0.3268 | 1.51185 | 499.52562 |
| vnz_04265 | 0.7599 | 150.433 | 0.00505 |
| vnz_04270 | 0.98815 | 0.3972 | 3.131375 |
| vnz_04280 | 0.2822 | 3.3085 | 0.08528 |
| vnz_04285 | 1.2505 | 0.6091 | 2.05302 |
| vnz_04355 | 0.318 | 0.1858 | 1.71189 |
| vnz_04515 | 0.2596 | 0.1828 | 1.41975 |
| vnz_04525 | 7.613 | 202.4973 | 0.0376 |
| vnz_04530 | 0.59005 | 75.50495 | 0.67163 |
| vnz_04535 | 0.2948 | 0.1742 | 1.69198 |
| vnz_04540 | 0.40035 | NA | 250.618665 |
| vnz_04590 | 0.7819 | 0.4782 | 1.63497 |
| vnz_04595 | 24.9057 | 0.770525 | 33.66384 |
| vnz_04605 | 0.303 | 0.1321 | 2.293 |
| vnz_04610 | 1.11086666666667 | 16.6786 | 1.30694666666667 |
| vnz_04615 | 0.2501 | 0.1378 | 1.81541 |
| vnz_04630 | 0.3302 | 0.2848 | 1.96240666666667 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_04635 | 0.2679 | 0.1101 | 2.43253 |
| vnz_04645 | 4.39652857142857 | 0.745485714285714 | 143.791404285714 |
| vnz_04655 | 2.87178 | 510.16976 | 0.85467 |
| vnz_04660 | 0.428 | 0.26875 | 1.60399 |
| vnz_04665 | 0.972766666666667 | 0.5214 | 333.682116666667 |
| vnz_04680 | 0.3343 | 0.1379 | 2.42456 |
| vnz_04685 | 6.02025 | 0.9514 | 6.30713 |
| vnz_04690 | 0.599333333333333 | 0.6782 | 1.68150666666667 |
| vnz_04695 | 0.40305 | 0.27075 | 1.87114 |
| vnz_04720 | 8.9322125 | 1.2702 | 258.1658675 |
| vnz_04725 | 20.7016333333333 | 0.9359 | 46.9435466666667 |
| vnz_04735 | 0.9294 | 0.5503 | 1.68899 |
| vnz_04740 | 0.3101 | 0.1716 | 1.80673 |
| vnz_04765 | 6.90295 | 32.71885 | 0.25162 |
| vnz_04805 | 6.80992857142857 | 24.7247 | 1.32474428571429 |
| vnz_04810 | 0.8984 | 1.42305 | 0.572895 |
| vnz_04815 | 12.2073 | 7.17858888888889 | 2.65622555555556 |
| vnz_04825 | 0.461366666666667 | 0.298866666666667 | 1.52966333333333 |
| vnz_04830 | 0.2051 | 0.1076 | 0.953035 |
| vnz_04835 | 0.3025 | 0.433 | 1.20681 |
| vnz_04840 | 1.2933 | 0.2846 | 4.42339 |
| vnz_04850 | 0.1988 | 0.1146 | 1.73455 |
| vnz_04855 | 1.61478 | 0.55904 | 2.06703 |
| vnz_04860 | 0.513866666666667 | 0.348866666666667 | 1.12796666666667 |
| vnz_04865 | 1.3731 | 1.40472 | 1.391196 |
| vnz_04870 | 1.52724 | 1.93112 | 1.18288 |
| vnz_04875 | 0.2696 | 0.1707 | 1.57952 |
| vnz_04880 | 0.3677 | 0.1549 | 2.37402 |
| vnz_04890 | 3.83526666666667 | 35.15245 | 168.154141666667 |
| vnz_04895 | 0.4467 | 0.2784 | 1.60457 |
| vnz_04900 | 4.9273 | 0.8296 | 5.93926 |
| vnz_04925 | 0.4345 | 0.3151 | 1.37879 |
| vnz_04930 | 0.5002 | 0.3381 | 1.63681333333333 |
| vnz_04935 | 4.4166 | 7.53155 | 0.89006 |
| vnz_04940 | 0.2517 | 0.1389 | 1.81204 |
| vnz_04945 | 15.20368 | 4.32246 | 3.105778 |
| vnz_04950 | 27.9442 | 2.9027 | 4.45795666666667 |
| vnz_04960 | 0.4109 | 0.2246 | 1.8299 |
| vnz_04985 | 0.327 | 0.1829 | 1.845125 |
| vnz_04990 | 0.3225 | 0.1391 | 2.31878 |
| vnz_04995 | 0.38895 | 0.2287 | 1.773155 |
| vnz_05000 | 0.662571428571429 | 10.9388857142857 | 1.70283 |
| vnz_05015 | 10.86629 | 7.81373 | 17.100885 |
| vnz_05020 | 3.78418333333333 | NA | 3.15235 |
| vnz_05025 | 0.3564 | 0.216 | 1.64966 |
| vnz_05045 | 1.27381666666667 | 0.8412 | 167.915826666667 |
| vnz_05050 | 1.970425 | 42.907875 | 250.54 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_05055 | 9.0753 | NA | 1.041705 |
| vnz_05060 | 0.3375 | 0.2351 | 1.43519 |
| vnz_05085 | 0.72815 | 0.39185 | 1.873785 |
| vnz_05095 | 0.2857 | 0.1711 | 1.67014 |
| vnz_05100 | 8.40923333333333 | 6.67096666666667 | 1.21711666666667 |
| vnz_05105 | 0.2596 | 0.0897 | 2.89462 |
| vnz_05115 | 0.3844 | 0.1955 | 1.96635 |
| vnz_05120 | 1.873525 | 61.840075 | 1.05982 |
| vnz_05125 | 0.2706 | 0.1356 | 2.209045 |
| vnz_05130 | 0.603675 | 1.915975 | 0.78887 |
| vnz_05135 | 0.3613 | 0.3174 | 1.13812 |
| vnz_05140 | 9.09211428571428 | 0.587857142857143 | 19.7597857142857 |
| vnz_05145 | 0.3936 | 0.2496 | 1.57718 |
| vnz_05150 | 0.3496 | 0.2494 | 1.40191 |
| vnz_05155 | 5.0601 | 12.7736 | 0.459863333333333 |
| vnz_05170 | 0.3304 | 0.0545 | 6.06358 |
| vnz_05175 | 0.3851 | 0.1411 | 2.72866 |
| vnz_05180 | 0.2618 | 0.09 | 2.90989 |
| vnz_05190 | 0.2719 | 0.1328 | 2.04745 |
| vnz_05195 | 1.27686923076923 | 1.12979230769231 | 10.8059692307692 |
| vnz_05200 | 0.51002 | 0.31998 | 1.883804 |
| vnz_05205 | 4.61141428571429 | 2.59858571428571 | 143.874687142857 |
| vnz_05210 | 1.29681 | 0.67752 | 101.779875 |
| vnz_05215 | 0.45215 | 0.21775 | 2.23256 |
| vnz_05220 | 0.4875 | 0.3992 | 1.2213 |
| vnz_05225 | 0.880266666666667 | 38.8458166666667 | 0.94034 |
| vnz_05230 | 0.363 | 0.4775 | 0.76023 |
| vnz_05235 | 0.9905 | 3.9245 | 0.28452 |
| vnz_05240 | 0.71295 | 0.48535 | 1.474055 |
| vnz_05245 | 0.4866 | 0.2463 | 1.97568 |
| vnz_05250 | 1.7225 | 0.483133333333333 | 2.75349666666667 |
| vnz_05255 | 6.2231 | 2.29445454545455 | 92.3882627272727 |
| vnz_05260 | 2.87026666666667 | 41.24075 | 1.41527333333333 |
| vnz_05270 | 5.526775 | 25.011025 | 1.6851425 |
| vnz_05325 | 0.569 | 0.2368 | 2.40297 |
| vnz_05405 | 9.61410454545454 | 9.76164090909091 | 242.352493181818 |
| vnz_05410 | 5.72214 | 4.83154 | 2.360972 |
| vnz_05415 | 6.55001 | 19.98967 | 0.790019 |
| vnz_05420 | 2.46035 | 0.00245 | 999 |
| vnz_05425 | 12.89372 | 1.39518 | 16.71215 |
| vnz_05430 | 0.56355 | 13.3111166666667 | 1.07596833333333 |
| vnz_05435 | 12.9099333333333 | NA | 0.817806666666667 |
| vnz_05440 | 0.3378 | 0.1631 | 2.07079 |
| vnz_05445 | 0.2637 | 0.1717 | 1.5357 |
| vnz_05450 | 3.87345 | 0.2098 | 16.476095 |
| vnz_05455 | 1.14538 | 27.58386 | 0.998062 |
| vnz_05460 | 0.5266 | 0.39545 | 1.59591 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_05465 | 0.5015333333333333 | 0.3503666666666667 | 1.5322166666666667 |
| vnz_05470 | 1.7903666666666667 | 11.527 | 222.8588722222222 |
| vnz_05475 | 0.3951 | 0.2709 | 1.45867 |
| vnz_05480 | 7.05945 | 84.29815 | 0.07434 |
| vnz_05485 | 6.711383333333333 | 67.05478333333333 | 337.3914325 |
| vnz_05490 | 0.1718 | 0.0748 | 2.29739 |
| vnz_05495 | 0.3076 | 0.4229666666666667 | 1.33233 |
| vnz_05500 | 0.332 | 0.24665 | 1.73192 |
| vnz_05505 | 0.2332 | 0.10165 | 2.326405 |
| vnz_05515 | 0.2094 | 0.1899 | 1.10251 |
| vnz_05525 | 0.4807 | 0.398 | 2.245 |
| vnz_05530 | 1.625375 | 5.8165875 | 1.5613175 |
| vnz_05540 | 0.500175 | 2.41615 | 1.517775 |
| vnz_05545 | 12.254333333333333 | 0.1488333333333333 | 336.7099033333333 |
| vnz_05565 | 0.424 | 0.24285 | 1.73954 |
| vnz_05625 | 0.3861 | 0.1584 | 2.4366 |
| vnz_05630 | 8.7671375 | 7.2410375 | 1.79012625 |
| vnz_05635 | 0.6602 | 0.2848 | 2.36161 |
| vnz_05640 | 0.2761 | 0.1657 | 1.66663 |
| vnz_05645 | 0.2975 | 0.2327 | 1.27864 |
| vnz_05650 | 0.5249 | 0.23455 | 2.295855 |
| vnz_05655 | 11.80618 | NA | 6.619646 |
| vnz_05660 | 0.4746 | 0.2637 | 1.80001 |
| vnz_05680 | 0.43215 | 0.26465 | 1.63562 |
| vnz_05685 | 0.224 | 0.0712 | 3.14464 |
| vnz_05690 | 2.38827142857143 | 9.05862857142857 | 428.908297142857 |
| vnz_05700 | 3.5483 | 1.1831 | 2.99924 |
| vnz_05705 | 0.5607 | 0.4015 | 1.39639 |
| vnz_05710 | 0.27665 | 0.18105 | 0.763945 |
| vnz_05715 | 0.3338 | 0.1821 | 1.83324 |
| vnz_05720 | 2.021 | NA | 0.4452666666666667 |
| vnz_05725 | 0.3238 | 0.2041 | 1.58679 |
| vnz_05730 | 0.5482 | 0.2659 | 2.06178 |
| vnz_05735 | 0.3642 | 0.1706 | 2.13512 |
| vnz_05740 | 0.4396666666666667 | 159.8344666666667 | 666.0000533333333 |
| vnz_05745 | 1.61985 | 0.532175 | 127.2232075 |
| vnz_05770 | 3.6012 | 0.1435 | 334.59727 |
| vnz_05810 | 11.57785 | 1.79115 | 127.82972625 |
| vnz_05815 | 18.46676666666667 | 3.802183333333333 | 170.31245 |
| vnz_05860 | 7.1612 | 0.4452 | 16.08608 |
| vnz_05865 | 0.4196 | 3.3596 | 0.12489 |
| vnz_05870 | 11.74323333333333 | 11.76166666666667 | 6.532731666666667 |
| vnz_05875 | 23.27725 | NA | 1.33523 |
| vnz_05880 | 21.67016666666667 | 1.650333333333333 | 14.55995333333333 |
| vnz_05900 | 4.146466666666667 | 1.52055 | 168.18056 |
| vnz_05910 | 12.76298333333333 | 12.3817 | 4.165336666666667 |
| vnz_05915 | 0.9814 | 12.6453 | 250.105585 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_05920 | 13.60552 | 0.9149133333333333 | 68.334066 |
| vnz_05925 | 11.4965 | 12.109775 | 1.6071725 |
| vnz_05930 | 0.3011 | 0.1039 | 2.89732 |
| vnz_05935 | 20.70463333333333 | 1.874966666666667 | 8.180446666666667 |
| vnz_05940 | 0.1916 | 0.1527 | 0.62744 |
| vnz_05945 | 0.28205 | 0.1519 | 1.96681 |
| vnz_05950 | 0 | NA | 0 |
| vnz_05970 | 0.2846 | 13.819725 | 1.0425025 |
| vnz_05975 | 15.01903333333333 | 2.1729 | 3.730873333333333 |
| vnz_05980 | 0.81965 | 1.0798 | 0.88255 |
| vnz_06010 | 1.0361 | 3.8087 | 0.565315 |
| vnz_06020 | 0.3691 | 0.1855 | 1.98965 |
| vnz_06025 | 0.3973 | 0.18535 | 2.18346 |
| vnz_06030 | 0.386 | 0.35805 | 1.150555 |
| vnz_06035 | 0.29965 | 0.14815 | 2.055195 |
| vnz_06040 | 12.7922428571429 | 19.0005928571429 | 227.218609285714 |
| vnz_06045 | 12.74444444444444 | 1.638866666666667 | 12.19921555555556 |
| vnz_06050 | 3.6328 | 1.102333333333333 | 3.998033333333333 |
| vnz_06055 | 0.3759 | 0.269 | 1.39757 |
| vnz_06060 | 1.122566666666667 | 0.458466666666667 | 334.52564 |
| vnz_06070 | 0.2959 | 0.1394 | 2.12184 |
| vnz_06075 | 0.7853333333333333 | 29.54593333333333 | 1.158683333333333 |
| vnz_06080 | 0.27005 | 0.17175 | 1.577625 |
| vnz_06125 | 0.3961 | 0.4259 | 1.379295 |
| vnz_06130 | 0.54335 | 827.0524 | 1.303035 |
| vnz_06135 | 0.46535 | 0.1981 | 2.37059 |
| vnz_06145 | 0.375725 | 0.244275 | 1.6465625 |
| vnz_06155 | 0.3164 | 0.2294 | 1.37889 |
| vnz_06190 | 0.5713333333333333 | 0.4920333333333333 | 1.209633333333333 |
| vnz_06195 | 0.84462 | 10.19762 | 0.827704 |
| vnz_06205 | 0.39955 | 0.3352 | 1.292175 |
| vnz_06210 | 0.4596 | 0.2604 | 1.76501 |
| vnz_06215 | 0.3513 | 0.1663 | 2.11246 |
| vnz_06225 | 0.5528 | 0.3686 | 1.49985 |
| vnz_06230 | 0.3751 | 0.287 | 1.30702 |
| vnz_06235 | 0.80605 | 0.36245 | 1.659925 |
| vnz_06240 | 3.42914285714286 | 5238.04767142857 | 0.952641428571429 |
| vnz_06245 | 0.8668 | 0.2886 | 3.00321 |
| vnz_06250 | 0.3835 | 0.3333 | 1.15067 |
| vnz_06255 | 0.2107 | 0.0747 | 2.821 |
| vnz_06270 | 0.3789 | 0.275 | 1.37793 |
| vnz_06275 | 7.87055 | 0.1168 | 500.206735 |
| vnz_06285 | 15.79345 | 0.09325 | 343.564365 |
| vnz_06290 | 0.2113 | 0.1288 | NA |
| vnz_06295 | 0.14935 | 0.0639 | 1.16828 |
| vnz_06315 | 0.2133 | 0.0889 | 2.39878 |
| vnz_06325 | 1.941133333333333 | 1.107966666666667 | 2.273986666666667 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_06330 | 0.3505 | 0.1869 | 1.87536 |
| vnz_06335 | 0.287 | 0.1452 | 1.97564 |
| vnz_06340 | 0.3728 | 0.2573333333333333 | 2.812846666666667 |
| vnz_06345 | 0.2188 | 0.1013 | 1.564303333333333 |
| vnz_06350 | 0.3744333333333333 | 0.2854333333333333 | 167.7893733333333 |
| vnz_06360 | 0.2433 | 0.0809 | 3.00676 |
| vnz_06375 | 0.3345 | 0.1045 | 3.20202 |
| vnz_06415 | 0.2967 | 0.199 | 1.49079 |
| vnz_06420 | 0.2461 | 0.0876 | 2.80868 |
| vnz_06425 | 2.0026 | 5.3549 | 0.186985 |
| vnz_06430 | 0.9699666666666667 | 0.7228666666666667 | 1.737146666666667 |
| vnz_06440 | 0.2616 | 0.1089 | 2.40274 |
| vnz_06445 | 0.3734 | 0.15245 | 2.63746 |
| vnz_06455 | 0.4337 | 0.2428 | 1.78632 |
| vnz_06460 | 1.407025 | 0.98735 | 2.421095 |
| vnz_06465 | 16.314733333333333 | 6.87395 | 3.053913333333333 |
| vnz_06470 | NA | NA | 61.0447335294118 |
| vnz_06475 | 4.21565 | 0.1017 | 500.341775 |
| vnz_06480 | 0.7125 | 0.1593 | 4.390385 |
| vnz_06510 | 0.8751 | 1.084 | 0.787715 |
| vnz_06540 | 4.496825 | 4.690175 | 250.704385 |
| vnz_06545 | 0.20595 | 0.1096 | 1.911485 |
| vnz_06550 | 2.8864 | 0.0029 | 999 |
| vnz_06555 | 26.5467 | 20.1078 | 1.32022 |
| vnz_06560 | 0.3069 | 13.940875 | 0.2209275 |
| vnz_06565 | 0.9603 | 0.001 | 999 |
| vnz_06575 | 0.3619 | 0.2162 | 1.67378 |
| vnz_06580 | 0.2387 | 0.1195 | 1.99691 |
| vnz_06595 | 0.579 | 0.3381 | 1.71265 |
| vnz_06600 | 0.2695 | 0.0776 | 3.47358 |
| vnz_06605 | 1.7649 | 2.387133333333333 | 0.82968 |
| vnz_06610 | 0.3657 | 0.2777 | 1.31674 |
| vnz_06625 | 0.6371833333333333 | 0.36975 | 169.22545 |
| vnz_06630 | 0.2499 | 0.096 | 2.60296 |
| vnz_06635 | 0.2672 | 0.1302 | 2.05284 |
| vnz_06640 | 4.801875 | 21.374766666666667 | 1.482154166666667 |
| vnz_06655 | 10.9442285714286 | 0.668742857142857 | 147.88572 |
| vnz_06660 | 0.2417 | 0.0814 | 2.96887 |
| vnz_06665 | 8.34045 | NA | 2.52987125 |
| vnz_06670 | 0.29675 | 0.21175 | 1.441945 |
| vnz_06680 | 0.57185 | 1.904 | 0.985265 |
| vnz_06685 | 0.5925333333333333 | 0.4432333333333333 | 1.568813333333333 |
| vnz_06690 | 0.3549 | 51.579366666666667 | 2.008806666666667 |
| vnz_06695 | 2.52246 | 16.31568 | 1.195656 |
| vnz_06700 | 0.6453666666666667 | 0.281 | 2.159113333333333 |
| vnz_06710 | 0.1989 | 0.1142 | 1.74234 |
| vnz_06715 | 51.3354 | 603.66212 | 8.523464 |

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| Gene | dN | dS | ω |
|-----------|-------------------|--------------------|-------------------|
| vnz_06725 | 1.4038 | 1.7169 | 0.8176 |
| vnz_06740 | 75.82925 | 0.1274 | 500.620035 |
| vnz_06750 | 0.1906 | 64.3206 | 0.00296 |
| vnz_06755 | 0.16405 | 0.06225 | 3.48661 |
| vnz_06760 | 0.2473 | 0.1148 | 2.1547 |
| vnz_06765 | 0.3296 | 0.2201 | 1.49761 |
| vnz_06770 | 0.2704 | 0.1429 | 2.32024 |
| vnz_06775 | 1.0801 | 0.50505 | 1.06929 |
| vnz_06780 | 0.2778 | 0.1837 | 1.51218 |
| vnz_06795 | 17.34262 | 3.18634 | 2.09024 |
| vnz_06800 | 0.2062 | 0.0575 | 3.58483 |
| vnz_06805 | 0.19935 | 0.05315 | 6.175825 |
| vnz_06810 | 0 | 0 | 0 |
| vnz_06875 | 0.2715 | 0.1429 | 1.90027 |
| vnz_06885 | 0.2259 | 0.1013 | 2.21442 |
| vnz_06895 | 0.1872 | 0.0622 | 3.0078 |
| vnz_06905 | 0.1161 | 0.0215 | 5.40901 |
| vnz_06910 | 0.2485 | 0.1444 | 1.71585 |
| vnz_06920 | 0.1365 | 0.0586 | 2.32828 |
| vnz_06925 | 0.1862 | 0.1171 | 1.59036 |
| vnz_06930 | 6.659975 | 12.329325 | 250.8437975 |
| vnz_06935 | 22.57156666666667 | 0.4669333333333333 | 334.1411133333333 |
| vnz_06940 | 0.1757 | 0.1272 | 1.38121 |
| vnz_06945 | 39.17515 | 0.129025 | 184.3629375 |
| vnz_06950 | 0.2602 | 0.1956 | 1.33012 |
| vnz_06955 | 0.4209 | 0.1808 | 2.32848 |
| vnz_06960 | 0.2108 | 0.1244 | 1.69409 |
| vnz_06965 | 13.6711 | 0.6688333333333333 | 32.30551 |
| vnz_06970 | 0.2384 | 0.1095 | 2.177 |
| vnz_06975 | 0.372 | 0.2754 | 1.35094 |
| vnz_06980 | 0.2409 | 0.1182 | 2.0379 |
| vnz_06985 | 0.3785 | 0.2213 | 1.71001 |
| vnz_07010 | 0.4061 | 0.203 | 2.00058 |
| vnz_07015 | 0.4804 | 0.5432 | 0.88437 |
| vnz_07020 | 0.1497 | 0.0852 | 1.75675 |
| vnz_07030 | 0.2706 | 0.0847 | 3.19543 |
| vnz_07035 | 0.2389 | 0.2282 | 1.04702 |
| vnz_07040 | 0.2537 | 0.1643 | 1.5442 |
| vnz_07050 | 9.01454 | 1.29116 | 3.404864 |
| vnz_07055 | 26.6526 | 0.12345 | 193.64213 |
| vnz_07065 | 0.179 | 0.0341 | 5.24524 |
| vnz_07070 | 0.1608 | 0.042 | 3.82746 |
| vnz_07075 | 11.7550785714286 | 4.98129285714286 | 140.197362857143 |
| vnz_07080 | 3.1333375 | 1.756575 | 1.8271475 |
| vnz_07085 | 0.2498 | 0.2294 | 1.08873 |
| vnz_07090 | 1.962325 | 14.3697 | 0.903835 |
| vnz_07095 | 0.5133 | 0.4575 | 1.12207 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_07100 | 0.4562 | 0.4824 | 1.25827 |
| vnz_07110 | 0.1759 | 0.0463 | 3.79979 |
| vnz_07115 | 0.2459 | 0.116 | 2.11851 |
| vnz_07120 | 12.868525 | 6.503175 | 9.0203075 |
| vnz_07125 | 6.6216125 | NA | 3.49114875 |
| vnz_07130 | 0.1375 | 0.3723 | 1.686895 |
| vnz_07135 | 0.33845 | 0.17235 | 1.978065 |
| vnz_07140 | 9.02484 | 1.01858 | 4.565414 |
| vnz_07145 | 0.2454 | 0.1345 | 1.82358 |
| vnz_07160 | 0.5537 | 0.2193 | 2.52502 |
| vnz_07175 | 0.2447 | 0.1146 | 2.13569 |
| vnz_07185 | 0.67595 | 0.11935 | 500.11273 |
| vnz_07190 | 0.23725 | 0.2642 | 1.133495 |
| vnz_07195 | 0.36555 | 0.3104 | 3.257235 |
| vnz_07200 | 0.2882 | 0.2441 | 1.320655 |
| vnz_07205 | 0.661766666666667 | 0.162 | 335.411813333333 |
| vnz_07210 | 4.88515 | 0.28545 | 250.849235 |
| vnz_07215 | 0.3 | 0.1746 | 1.71877 |
| vnz_07220 | 0.7423 | 0.239666666666667 | 2.55827666666667 |
| vnz_07225 | 0.4047 | 0.157 | 2.57778 |
| vnz_07230 | 6.277816666666667 | 0.230133333333333 | 302.792738333333 |
| vnz_07250 | 0.2849 | 0.1737 | 1.64053 |
| vnz_07255 | 0.246 | 0.1601 | 1.53707 |
| vnz_07260 | 0.3331 | 0.1732 | 1.92367 |
| vnz_07265 | 0 | 0 | 0 |
| vnz_07295 | 3.7389 | 1560.59134 | 1.820788 |
| vnz_07300 | 0.33755 | 0.1778 | 1.910895 |
| vnz_07305 | 0.369 | 0.2574 | 1.43338 |
| vnz_07310 | 0.98 | 0.6968 | 200.75366 |
| vnz_07315 | 0.209 | 0.0976 | 2.14073 |
| vnz_07320 | NA | 5.21578 | 201.176554 |
| vnz_07325 | 0.5638 | 0.3179 | 1.77352 |
| vnz_07335 | 0.2119 | 0.0996 | 2.12789 |
| vnz_07340 | 0.30382 | 0.28734 | 0.986404 |
| vnz_07355 | 0.1785 | 0.0793 | 2.25258 |
| vnz_07360 | 3.2679 | 0.18044 | 203.40266 |
| vnz_07375 | 0.245275 | 0.29105 | 1.481385 |
| vnz_07385 | 1.56586666666667 | NA | 1.26906 |
| vnz_07390 | 0.2153 | 0.102 | 2.092215 |
| vnz_07400 | 0.2986 | 0.1224 | 2.44032 |
| vnz_07420 | 0.3839 | 0.15515 | 2.783235 |
| vnz_07425 | 0.60585 | 3.39645 | 0.982125 |
| vnz_07430 | 0.7802 | 0.6994 | 1.11554 |
| vnz_07435 | 0.726225 | 17.489525 | 2.09574 |
| vnz_07440 | 4.74283333333333 | 30.7872666666667 | 0.639506666666667 |
| vnz_07445 | 0.3373 | 0.1064 | 3.16921 |
| vnz_07455 | 0.3203 | 0.217 | 1.47587 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_07460 | 0.3412 | 0.26855 | 1.2669 |
| vnz_07470 | 0.5295 | 4043.992866666667 | 1.19413 |
| vnz_07475 | 0.2083 | 0.1365 | 1.52662 |
| vnz_07480 | 0.3599333333333333 | 1.788716666666667 | 1.37306 |
| vnz_07485 | 0.77395 | 5.6136 | 251.9083125 |
| vnz_07490 | 0.2009 | 0.0989 | 2.03023 |
| vnz_07505 | 0.6535 | 0.48085 | 1.46184 |
| vnz_07510 | 13.4454571428571 | 1.5441 | 146.917261428571 |
| vnz_07515 | 0.6709 | 0.28285 | 2.488755 |
| vnz_07520 | 0.2629 | 0.1823 | 1.44193 |
| vnz_07525 | 0.3395 | 0.1502 | 2.26117 |
| vnz_07530 | 10.48833333333333 | 7.818073333333333 | 2.709366666666667 |
| vnz_07535 | 0.09995 | 0.0544 | 0.918875 |
| vnz_07545 | 0.5077333333333333 | 0.5554 | 2.116196666666667 |
| vnz_07550 | 0.2738 | 0.1664 | 1.64506 |
| vnz_07555 | 0.3332 | 0.27645 | 1.1232825 |
| vnz_07560 | 0.4366 | 0.175 | 2.49583 |
| vnz_07565 | 0.4036 | 0.3376 | 1.19571 |
| vnz_07570 | 0.3889 | 0.26025 | 1.497545 |
| vnz_07585 | 11.7712 | NA | 4.14471 |
| vnz_07590 | 0.16105 | 0.13195 | 0.610225 |
| vnz_07600 | 0.381575 | 0.324975 | 1.120785 |
| vnz_07610 | 0.4028 | 0.271 | 1.48663 |
| vnz_07620 | 2.30135 | 26.86948333333333 | 167.09899 |
| vnz_07625 | 0.4261 | 1.3478 | 0.31617 |
| vnz_07630 | 2.0727 | 0.5889 | 3.51992 |
| vnz_07640 | 14.3639 | 12.08201666666667 | 178.3869366666667 |
| vnz_07645 | 6.258133333333333 | 4.010877777777778 | 112.322918888889 |
| vnz_07650 | 2.0922 | 10.17098888888889 | 1.502342222222222 |
| vnz_07660 | 0.255 | 0.1198 | 2.12814 |
| vnz_07665 | 0.79875 | 0.47295 | 1.706325 |
| vnz_07670 | 12.87882 | 0.4418 | 208.495584 |
| vnz_07675 | 0.41535 | 2.47824 | 2.066701 |
| vnz_07680 | 0.2984 | 0.0617 | 5.32182 |
| vnz_07685 | 0.37945 | 0.456216666666667 | 1.175035 |
| vnz_07690 | 2.12215 | 0.284 | 500.241265 |
| vnz_07695 | 0.1878 | 0.0565 | 3.32174 |
| vnz_07705 | 0.46055 | 0.3556 | 1.62333 |
| vnz_07710 | 13.4035 | 2.58736 | 3.68938 |
| vnz_07715 | 0.3486333333333333 | 0.2734333333333333 | 2.15125 |
| vnz_07735 | 0.1674 | 0.0726 | 2.30543 |
| vnz_07740 | 0.2918 | 0.6169 | 0.47302 |
| vnz_07745 | 8.2183 | NA | 108.973704 |
| vnz_07755 | 0.3938333333333333 | 0.203366666666667 | 1.898266666666667 |
| vnz_07765 | 2.6275 | 1.17225 | 1.607725 |
| vnz_07770 | 0.2266 | 0.1086 | 2.08621 |
| vnz_07775 | 0.3428 | 1.3698 | 0.901535 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_07780 | 79.0407 | 1.5105 | 52.32589 |
| vnz_07785 | 0.2319 | 0.0991 | 2.33949 |
| vnz_07790 | 0.4432 | 0.0004 | 999 |
| vnz_07795 | 0.2186 | 0.123375 | 1.865195 |
| vnz_07800 | 0 | 0 | 0 |
| vnz_07805 | 0.1799 | 0.084 | 2.14091 |
| vnz_07810 | NA | 1.1548 | 0.4 |
| vnz_07820 | 4.266675 | 5.612075 | 1.45025 |
| vnz_07825 | 0.264666666666667 | 0.113533333333333 | 334.361053333333 |
| vnz_07830 | 0.49764 | 41.79372 | 1.741462 |
| vnz_07835 | 0.2322 | 0.0971 | 2.39188 |
| vnz_07840 | NA | 2.33654545454545 | 1.87713363636364 |
| vnz_07845 | 0.496 | 0.33025 | 1.497615 |
| vnz_07850 | 9.2722 | 57.52184 | 4.48982 |
| vnz_07855 | 1.06616363636364 | 3.66532727272727 | 2.84367909090909 |
| vnz_07860 | 0.227 | 0.1254 | 1.81032 |
| vnz_07865 | 6.52402857142857 | 14.8389 | 287.918048571429 |
| vnz_07870 | 5.69705 | NA | 250.7963225 |
| vnz_07880 | 0.2832 | 0.1338 | 2.11593 |
| vnz_07915 | 0.5076 | 1.5448 | 0.32734 |
| vnz_07930 | 0.89858 | 44.73628 | 201.28785 |
| vnz_07935 | 0.2841 | 0.116733333333333 | 2.57116666666667 |
| vnz_07940 | 0.63725 | 0.179566666666667 | 2.99059333333333 |
| vnz_07970 | 10.1765 | 2.4651 | 2.4407075 |
| vnz_07975 | NA | 4.1607 | 0.4 |
| vnz_07980 | 0.25692 | 0.14792 | 1.88191 |
| vnz_07985 | 0.22845 | 0.14925 | 1.564085 |
| vnz_07990 | 0.391275 | 0.194475 | 2.3823075 |
| vnz_07995 | 0.2381 | 0.1046 | 2.27691 |
| vnz_08005 | 0.2119 | 0.1261 | 1.68053 |
| vnz_08010 | 3.71986363636364 | 23.6427 | 3.97495272727273 |
| vnz_08015 | 8.81501818181818 | 1.93105454545455 | 7.46260181818182 |
| vnz_08020 | 13.16495 | 0.11145 | 500.76235 |
| vnz_08025 | 0.36905 | 0.25725 | 1.49775 |
| vnz_08030 | NA | 5.839975 | 0.7801925 |
| vnz_08035 | 1.03981428571429 | NA | 143.488744285714 |
| vnz_08040 | 0.2946 | 0.1444 | 2.095085 |
| vnz_08045 | 0.67976 | 0.39242 | 201.025852 |
| vnz_08050 | 0.75244 | 0.68014 | 1.887192 |
| vnz_08060 | 7.89338 | NA | 200.957158 |
| vnz_08065 | 0.4294 | 0.2466 | 1.74142 |
| vnz_08070 | 11.25294 | 14.57264 | 2.957164 |
| vnz_08075 | 14.653325 | 21.084875 | 127.9004525 |
| vnz_08080 | 2.02735 | NA | 2.061 |
| vnz_08085 | 0.683133333333333 | 0.380216666666667 | 1.90284666666667 |
| vnz_08090 | 0.4557 | 0.2355 | 2.003605 |
| vnz_08105 | 8.182025 | NA | 1.573085 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_08110 | 0.23115 | 0.1687 | 0.68502 |
| vnz_08120 | 0.75045 | 0.1564 | 500.125375 |
| vnz_08150 | 7.49105 | 1.5462 | 168.954348333333 |
| vnz_08155 | 23.1286454545455 | 4.07005454545455 | 194.086129090909 |
| vnz_08180 | 0.69775 | 0.2749 | 2.54015 |
| vnz_08185 | 0.3232 | 0.22865 | 1.41348 |
| vnz_08190 | 0.289266666666667 | 0.145433333333333 | 334.021523333333 |
| vnz_08195 | 0.380083333333333 | 0.55225 | 168.496583333333 |
| vnz_08200 | 0.4304 | 0.4612 | 1.09818 |
| vnz_08210 | 32.3352333333333 | 0.4731 | 368.830566666667 |
| vnz_08215 | 12.3495727272727 | 26.2357363636364 | 2.62983909090909 |
| vnz_08220 | 0.656271428571429 | NA | 0.930294285714286 |
| vnz_08225 | 1.70353333333333 | 0.3269 | 90.2435966666667 |
| vnz_08235 | 2.67506666666667 | 0.4549 | 3.57737 |
| vnz_08240 | 0.217442857142857 | NA | NA |
| vnz_08245 | 13.6552333333333 | 7.82716666666667 | 19.15767 |
| vnz_08255 | 0.41872 | 0.27862 | 2.050608 |
| vnz_08260 | 0.266 | 0.172 | 1.54086 |
| vnz_08265 | 0.546277777777778 | 13.9741888888889 | 112.006968888889 |
| vnz_08270 | 0.229 | 0.164 | 1.39633 |
| vnz_08275 | 0.1548 | 0.0197 | 7.87474 |
| vnz_08280 | 4.3655 | NA | 0.51645 |
| vnz_08285 | 0.1777 | 0.1158 | 1.53518 |
| vnz_08300 | 0.335 | 0.1374 | 2.43835 |
| vnz_08310 | 0.1758 | 0.0848 | 2.07323 |
| vnz_08330 | 0.2162 | 0.097 | 2.22756 |
| vnz_08345 | 0.453066666666667 | 0.420633333333333 | 1.16136333333333 |
| vnz_08350 | 0.503 | 0.4141 | 1.3868 |
| vnz_08360 | 0.2706 | 0.1428 | 1.89539 |
| vnz_08370 | 0.2919 | 0.2145 | 1.36074 |
| vnz_08375 | 23.9706 | 3.18225 | 5.10653 |
| vnz_08380 | 5.21005 | NA | 0.93525 |
| vnz_08385 | 14.86475 | 7.93815 | 1.81089 |
| vnz_08390 | 15.0656 | 50.9203 | 0.29587 |
| vnz_08395 | 0.539225 | 0.7008 | 1.41779 |
| vnz_08400 | 4.480875 | NA | 1.20104 |
| vnz_08405 | 0.2861 | 0.1633 | 1.75232 |
| vnz_08410 | 0.3218 | 0.1349 | 2.38607 |
| vnz_08430 | 0.4477 | 0.1818 | 2.46231 |
| vnz_08435 | 0.2315 | 0.1694 | 1.36599 |
| vnz_08440 | 0.4014 | 0.2165 | 1.85402 |
| vnz_08445 | 2.5995 | 8.3671 | 0.31068 |
| vnz_08450 | 0.2111 | 0.132625 | 1.427255 |
| vnz_08455 | 3.43045 | 0.10295 | 500.22952 |
| vnz_08460 | 8.5904 | 86.839425 | 1.581155 |
| vnz_08465 | 0.22915 | 0.178175 | 1.3814 |
| vnz_08485 | 6.07231 | NA | 112.392256 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_08490 | 13.238425 | 45.9562125 | 108.51630375 |
| vnz_08505 | 0.2224 | 0.109 | 2.03914 |
| vnz_08510 | 0.7044333333333333 | NA | 1.00057 |
| vnz_08515 | 0.3028666666666667 | 1.0345333333333333 | 0.4916166666666667 |
| vnz_08520 | 20.31954 | NA | 1.158174 |
| vnz_08525 | 0.3257 | 0.1335 | 2.44096 |
| vnz_08530 | 0.228825 | 0.1788 | 1.8490375 |
| vnz_08535 | 0.1698 | 0.0502 | 500.82233 |
| vnz_08540 | 0.3076 | 0.09 | 3.41838 |
| vnz_08545 | 0.26825 | 0.17995 | 1.51632 |
| vnz_08550 | 0.2691666666666667 | 91.69803333333333 | 1.28373 |
| vnz_08555 | 5.746883333333333 | 2.6385333333333333 | 1.9451566666666667 |
| vnz_08560 | NA | 30.05514 | 0.678776 |
| vnz_08565 | 0.3864 | 0.2509 | 1.53974 |
| vnz_08570 | 7.76886 | 5.47532 | 1.661176 |
| vnz_08575 | 1.77085 | 132.18675 | 1.124815 |
| vnz_08585 | 0.430625 | 0.1632 | 3.02168 |
| vnz_08590 | 1.49376 | 174.98546 | 1.4821 |
| vnz_08595 | 0.3927 | 0.2595 | 1.51317 |
| vnz_08600 | 0.3823 | 0.3253 | 1.25704 |
| vnz_08605 | 0.5808 | 0.5628 | 1.03202 |
| vnz_08610 | 1.095425 | 0.284325 | 250.2576475 |
| vnz_08615 | 2.29622 | NA | 1.32355 |
| vnz_08620 | 0.1718 | 0.0435 | 3.9534 |
| vnz_08630 | 0.08735 | 0.0377 | 1.15792 |
| vnz_08635 | 0.2452 | 0.1373 | 1.78562 |
| vnz_08640 | 1.2554666666666667 | 0.5366666666666667 | 2.3492233333333333 |
| vnz_08645 | 0.4777 | 0.3306 | 1.44492 |
| vnz_08660 | 0.87878 | 0.36032 | 2.858614 |
| vnz_08675 | 0.3779 | 0.2535 | 1.61356 |
| vnz_08680 | 0.4141 | 0.2426 | 1.70695 |
| vnz_08685 | 0.27885 | 0.12745 | 3.215225 |
| vnz_08690 | 0.91555 | 5.83475 | 0.9085725 |
| vnz_08695 | 0.3493 | 0.1853 | 1.88482 |
| vnz_08705 | 2.4684333333333333 | 3.9554833333333333 | 0.7021816666666667 |
| vnz_08710 | 6.4395875 | 1.85735 | 126.7186875 |
| vnz_08715 | 4.52098 | 3.77109 | 201.243527 |
| vnz_08720 | 3.15673 | 133.84419 | 100.571125 |
| vnz_08735 | 11.188808333333333 | 11.8403 | 169.22350583333333 |
| vnz_08760 | 0.2564 | 0.1195 | 2.14582 |
| vnz_08765 | 0.251 | 0.1225 | 2.04924 |
| vnz_08780 | 0.7882166666666667 | 1.4864666666666667 | 1.7653433333333333 |
| vnz_08785 | 0.4504 | 0.09375 | 500.481935 |
| vnz_08790 | 3.93394285714286 | 2.52388571428571 | 143.509127142857 |
| vnz_08795 | 13.972711111111111 | 81.9105 | 283.5240922222222 |
| vnz_08800 | 1.2366 | 2.4628333333333333 | 2.0684866666666667 |
| vnz_08805 | 0.401 | 0.3138 | 1.27775 |

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| Gene | dN | dS | ω |
|-----------|--------------------|-------------------|------------------|
| vnz_08810 | 1.1852583333333333 | 12.56795 | 19.914245 |
| vnz_08815 | 0.3515 | 0.2791 | 1.25933 |
| vnz_08820 | 13.9693571428571 | 380.082614285714 | 3.08247857142857 |
| vnz_08825 | 1.17775 | 0.96545 | 1.280665 |
| vnz_08830 | 2.9097 | 67.9351 | 0.04283 |
| vnz_08840 | 8.79825714285714 | 12.1086571428571 | 6.13448285714286 |
| vnz_08845 | 6.222725 | 14.64325 | 1.8112475 |
| vnz_08850 | 27.09205 | 0.55585 | 18.6395975 |
| vnz_08865 | 1.5712 | 3.72376666666667 | 0.91715 |
| vnz_08870 | 0.3734 | 0.2407 | 1.55136 |
| vnz_08875 | 2.8501 | 1.073525 | 3.13993 |
| vnz_08880 | 0.2413 | 0.1373 | 1.75723 |
| vnz_08885 | 0.258566666666667 | 0.151333333333333 | 2.22413333333333 |
| vnz_08890 | 0.2847 | 0.1707 | 1.66744 |
| vnz_08895 | 0.3211 | 0.1028 | 3.12401 |
| vnz_08910 | 0.91612 | 0.66052 | 1.745732 |
| vnz_08915 | 0.3244 | 0.1805 | 1.79707 |
| vnz_08920 | 0.3348 | 0.1881 | 1.78018 |
| vnz_08935 | 0.5794 | 0.4288 | 1.35142 |
| vnz_08940 | 0.2013 | 0.1223 | 1.64552 |
| vnz_08945 | 0.60422 | 10.52756 | 1.542602 |
| vnz_08950 | 15.5585333333333 | 1.12756666666667 | 28.14315 |
| vnz_08955 | 3.35295 | 1.27881 | 201.016931 |
| vnz_08960 | 3.74772222222222 | 17.2831333333333 | 111.738465555556 |
| vnz_08965 | 0.2476 | 0.1046 | 2.36727 |
| vnz_08970 | 6.86316666666667 | 0.584566666666667 | 6.86942333333333 |
| vnz_08980 | 1.221075 | NA | 1.08096125 |
| vnz_08985 | 1.30476 | NA | 2.328382 |
| vnz_08990 | 5.30648333333333 | 2.83296666666667 | 1.59600333333333 |
| vnz_08995 | 11.8689 | 11.0777666666667 | 333.523336666667 |
| vnz_09000 | 0.64175 | 1.0684 | 0.982635 |
| vnz_09005 | 5.48531428571429 | 1.74798571428571 | 144.645062857143 |
| vnz_09015 | NA | NA | 1.04658 |
| vnz_09020 | 15.812225 | 0.071775 | 251.8435875 |
| vnz_09025 | 0.1598 | 0.100533333333333 | 1.58480333333333 |
| vnz_09030 | 0.1216 | 0.0289 | 4.20487 |
| vnz_09035 | 0.316233333333333 | 0.126333333333333 | 2.91169666666667 |
| vnz_09040 | 0.329233333333333 | 0.2499 | 1.63013666666667 |
| vnz_09045 | 1.58512 | NA | 1.214268 |
| vnz_09070 | 0.2045 | 0.1216 | 1.68136 |
| vnz_09080 | 0.2358 | 0.1354 | 1.74218 |
| vnz_09085 | 0.175 | 0.1584 | 1.10507 |
| vnz_09095 | 17.81885 | 6.838825 | 250.190855 |
| vnz_09100 | 0.3067 | 0.1775 | 1.72761 |
| vnz_09105 | 8.33411428571429 | NA | 143.778818571429 |
| vnz_09110 | 0.26915 | 0.09955 | 2.819975 |
| vnz_09120 | 0.2046 | 0.0353 | 7.687045 |

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| Gene | dN | dS | ω |
|-----------|------------------|-------------------|-------------------|
| vnz_09130 | 0.1739 | 0.1023 | 1.70025 |
| vnz_09135 | 0.1139 | 0.0505 | 2.25482 |
| vnz_09140 | 0.63655 | 0.37305 | 1.70417 |
| vnz_09145 | 0.6963 | 0.5233 | 1.33071 |
| vnz_09150 | 0.85645 | 0.3245 | 2.55601 |
| vnz_09155 | 0.2903 | 0.1913 | 1.51725 |
| vnz_09160 | 0.6218 | 0.3934 | 1.58085 |
| vnz_09165 | 0.2017 | 0.02105 | 501.644705 |
| vnz_09170 | 1.0112 | 0.379666666666667 | 2.71870333333333 |
| vnz_09175 | 0.754975 | 0.588575 | 1.6144675 |
| vnz_09180 | 0.235 | 0.0813 | 2.88948 |
| vnz_09185 | 2.11713333333333 | 13.4594111111111 | 112.333455555556 |
| vnz_09195 | 1.37291428571429 | 14.7572857142857 | 1.25272428571429 |
| vnz_09200 | 4.6786 | 136.53006 | 202.227288 |
| vnz_09205 | 1.97178 | 0.6509 | 202.24791 |
| vnz_09210 | 32.047925 | 0.6441 | 98.6918525 |
| vnz_09215 | 0.1787 | 0.0898 | 1.98921 |
| vnz_09220 | 2.16378 | 1.29234 | 1.972514 |
| vnz_09235 | 1.45725 | 13.09755 | 0.64126 |
| vnz_09240 | 0.2642 | 0.1691 | 1.56225 |
| vnz_09255 | 6.38768 | 604.56032 | 6.169968 |
| vnz_09260 | 7.76793333333333 | 8.22232222222222 | 175.398721111111 |
| vnz_09265 | 1.62194 | 0.95356 | 200.700614 |
| vnz_09280 | 0.5704 | 0.1028 | 5.55091 |
| vnz_09285 | 10.8678666666667 | 36.9918666666667 | 0.827396666666667 |
| vnz_09290 | 5.81132 | 2.14848 | 1.840053 |
| vnz_09295 | 0.2957 | 1.803375 | 1.0325375 |
| vnz_09300 | 2.03408571428571 | 12.2015142857143 | 1.22344857142857 |
| vnz_09305 | 0.63295 | 0.4203 | 1.533845 |
| vnz_09320 | 0.4906 | 8.5534 | 0.05736 |
| vnz_09325 | 4.422 | 30.13354 | 1.372455 |
| vnz_09335 | 2.9062 | 1.05405 | 4.889155 |
| vnz_09345 | 24.44202 | 0.22666 | 123.799166 |
| vnz_09350 | 0 | 0.0001 | 0 |
| vnz_09355 | 8.1448 | NA | 1.350755 |
| vnz_09380 | NA | 5.12315 | 7.55463 |
| vnz_09385 | 1.08675 | 0.91445 | 1.21532 |
| vnz_09390 | 32.9383 | 1.4565 | 19.04292 |
| vnz_09395 | 52.7885 | 27.6798 | 1.90711 |
| vnz_09400 | 9.57373333333333 | 0.838944444444444 | 172.349834444444 |
| vnz_09405 | 0.2604 | 0.1381 | 1.88643 |
| vnz_09420 | 0.2076 | 0.0717 | 2.89395 |
| vnz_09425 | 0.32235 | 0.23635 | 1.54869 |
| vnz_09435 | 0.29565 | 0.1453 | 2.12225 |
| vnz_09445 | 0.3615 | 0.3649 | 1.013875 |
| vnz_09450 | 0.2518 | 0.18885 | 1.33717 |
| vnz_09455 | 0.0859 | 0.0152 | 5.65642 |

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| Gene | dN | dS | ω |
|-----------|-------------------|------------------|------------------|
| vnz_09465 | 10.65436666666667 | 0.4545 | 333.687153333333 |
| vnz_09470 | 0.2552 | 0.1471 | 1.73454 |
| vnz_09475 | 1.81824 | 5.81632 | 0.931724 |
| vnz_09480 | 0.1908 | 0.04935 | 500.451885 |
| vnz_09485 | 0.23115 | 0.12015 | 1.93231 |
| vnz_09490 | 7.8946 | 0.7288 | 6.92428 |
| vnz_09500 | 3.5636 | 1.65593333333333 | 1.75300333333333 |
| vnz_09510 | 0.4095 | 0.2947 | 1.38986 |
| vnz_09515 | 0.3263 | 0.2499 | 1.60886666666667 |
| vnz_09520 | 1.592545 | 10.231245 | 70.411754 |
| vnz_09525 | 11.1432 | 2.9228 | 3.81246 |
| vnz_09535 | 15.9017875 | 4.26185 | 170.8039325 |
| vnz_09540 | 1.038525 | 1.433375 | 4.497875 |
| vnz_09545 | 0.1642 | 0.0634 | 2.58932 |
| vnz_09555 | 0.1608 | 0.109 | 1.4751 |
| vnz_09565 | 0.1288 | 0.0912 | 1.41314 |
| vnz_09575 | 0.2317 | 0.1121 | 2.0678 |
| vnz_09580 | 0.3284 | 0.1426 | 2.30299 |
| vnz_09590 | 12.2768666666667 | 2.8053 | 8.44929333333333 |
| vnz_09600 | 0.5997 | 0.5194 | 1.15462 |
| vnz_09610 | 0.3199 | 0.144 | 2.22224 |
| vnz_09620 | 11.0663625 | 20.556875 | 126.32430875 |
| vnz_09625 | 0.78615 | 5.43995 | 0.92134875 |
| vnz_09630 | 0.45775 | 3484.26075 | 1.86446 |
| vnz_09640 | 0.7021 | 0.38715 | 3.277895 |
| vnz_09645 | 0.1823 | 0.0893 | 2.04028 |
| vnz_09650 | 1.4847875 | 587.3263625 | 1.0413475 |
| vnz_09655 | 0.2019 | 0.0728 | 3.1771 |
| vnz_09660 | 0.2267 | 0.104 | 2.17923 |
| vnz_09665 | 0.580266666666667 | NA | 2.48246333333333 |
| vnz_09670 | 0.5433 | 0.5083 | 1.0689 |
| vnz_09675 | 0.4278 | 0.4187 | 1.02161 |
| vnz_09685 | 0.2014 | 0.0794 | 2.53681 |
| vnz_09690 | 0.732975 | 1.060875 | 1.14561 |
| vnz_09700 | 16.5074 | 0.0165 | 999 |
| vnz_09710 | 7.18033333333333 | 0.0837 | 334.309023333333 |
| vnz_09720 | 0.25815 | 0.37815 | 1.000405 |
| vnz_09730 | 0.44165 | 0.3006 | 1.472675 |
| vnz_09735 | 9.28433333333333 | 16.8634666666667 | 1.02259333333333 |
| vnz_09740 | 0.601 | 0.50235 | 1.75251333333333 |
| vnz_09745 | 0.6668 | 0.6693 | 1.37970666666667 |
| vnz_09750 | 0.3421 | 0.1168 | 2.92887 |
| vnz_09755 | 13.1887666666667 | NA | 1.02791 |
| vnz_09760 | 7.615 | 13.7300714285714 | 4.90805428571429 |
| vnz_09765 | 0.2141 | 0.1502 | 1.42595 |
| vnz_09775 | 0.1511 | 0.0736 | 2.05381 |
| vnz_09785 | 0.344 | 0.2143 | 1.60557 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_09795 | 0.42785 | 0.39745 | 1.130255 |
| vnz_09800 | 0.6698 | 0.3446 | 2.629705 |
| vnz_09805 | 0.394 | 0.2313 | 1.70306 |
| vnz_09810 | 1.72045 | 25.888975 | 1.56758875 |
| vnz_09815 | 2.513033333333333 | 1.638866666666667 | 333.6038466666667 |
| vnz_09820 | 0.3588 | 0.2602 | 1.37887 |
| vnz_09825 | 0.4253 | 0.15575 | 4.473825 |
| vnz_09830 | 0.513833333333333 | 1.1157 | 1.078726666666667 |
| vnz_09835 | 0.767854545454545 | 9.22343636363636 | 92.3236172727273 |
| vnz_09845 | 0.2471 | 0.1685 | 1.4663 |
| vnz_09850 | 7.09017142857143 | NA | 187.554795 |
| vnz_09855 | 3.026583333333333 | 43.16016666666667 | 167.3757433333333 |
| vnz_09865 | 0.3362 | 0.2945 | 1.14188 |
| vnz_09875 | 0.1274 | 0.0333 | 3.83014 |
| vnz_09880 | 0.5428 | 0.5412 | 1.00307 |
| vnz_09885 | 3.01482 | 360.79788 | 4.43576 |
| vnz_09890 | 0.1766 | 0.0773 | 2.28387 |
| vnz_09895 | 0.31045 | 0.32075 | 1.04498 |
| vnz_09900 | 0.1791 | 0.098 | 1.8268 |
| vnz_09910 | 0.2318 | 0.1071 | 2.16398 |
| vnz_09915 | 0.26315 | 0.1782 | 2.185935 |
| vnz_09920 | 30.58815 | 9.87135 | 2.38171 |
| vnz_09925 | 0.2328 | 0.1471 | 1.58243 |
| vnz_09930 | 0.4573 | 0.337 | 1.311855 |
| vnz_09940 | 5.643933333333333 | 8.8537 | 9.48007 |
| vnz_09945 | 0.2346 | 0.1194 | 1.96514 |
| vnz_09950 | 0.2485 | 0.1397 | 1.77914 |
| vnz_09955 | 0.2043 | 0.0792 | 2.57914 |
| vnz_09960 | 2.073 | 8.43465 | 0.23978 |
| vnz_09965 | 0.2864 | 0.2394 | 1.19624 |
| vnz_09975 | 13.750333333333333 | 14.56066666666667 | 3.558293333333333 |
| vnz_10000 | 4.745822222222222 | 0.3630444444444444 | 120.5284644444444 |
| vnz_10010 | 0.2802 | 0.1687 | 1.66056 |
| vnz_10015 | 0.3161 | 0.19745 | 1.62596 |
| vnz_10020 | 0.3439 | 0.248 | 1.471253333333333 |
| vnz_10025 | 8.553 | 31.21253333333333 | 1.880913333333333 |
| vnz_10030 | 0.532633333333333 | 0.3013 | 1.99989 |
| vnz_10040 | 0.2522 | 0.1468 | 1.71748 |
| vnz_10045 | 0.610633333333333 | 0.602133333333333 | 1.11506 |
| vnz_10050 | 49.07608 | 1.85298 | 7.460524 |
| vnz_10055 | 18.45715 | 0.620475 | 11.9104225 |
| vnz_10060 | 0.1502 | 0.0883 | 1.70146 |
| vnz_10065 | 0.5832 | 0.39032 | 200.849826 |
| vnz_10070 | 0.41075 | 0.2656 | 1.609825 |
| vnz_10075 | 1.79108 | 3.60892 | 2.61875 |
| vnz_10080 | 0.5974 | 0.4735 | 1.26174 |
| vnz_10090 | 0.3005 | 0.211466666666667 | 1.74236 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_10100 | 0.8365 | 0.2922 | 3.27809 |
| vnz_10105 | 0.2539 | 0.1827 | 1.38914 |
| vnz_10120 | 0.285666666666667 | 0.245833333333333 | 1.7525 |
| vnz_10125 | 12.1864333333333 | 1.40483333333333 | 8.20125 |
| vnz_10140 | 0.3017 | 0.172 | 1.75396 |
| vnz_10150 | 2.0858 | 0.58085 | 2.78659 |
| vnz_10155 | 0.419616666666667 | 0.127666666666667 | 287.657008333333 |
| vnz_10160 | 0.4096 | 0.2954 | 1.38653 |
| vnz_10165 | 0.4629 | 0.0005 | 999 |
| vnz_10175 | 0.1948 | 0.1481 | 1.3149 |
| vnz_10180 | 1.0679 | 0.6648 | 1.60622 |
| vnz_10185 | 11.56076 | NA | 0.525396 |
| vnz_10190 | 10.4371 | 0.62948 | 10.75003 |
| vnz_10195 | 0.50315 | 0.634175 | 2.0599675 |
| vnz_10220 | 0.2895 | 0.1616 | 1.79149 |
| vnz_10235 | 0.2743 | 0.1172 | 2.34101 |
| vnz_10250 | 0.4363 | 0.3222 | 1.35434 |
| vnz_10255 | 0.3737 | 0.2813 | 1.32844 |
| vnz_10260 | 0.4304 | 0.3681 | 1.16941 |
| vnz_10270 | 12.1273 | 8.26414285714286 | 1.53063285714286 |
| vnz_10275 | 0.4651 | 0.204 | 2.27943 |
| vnz_10280 | 0.3158 | 0.4451 | 0.70933 |
| vnz_10285 | 2.09038 | NA | 200.870248 |
| vnz_10290 | 0.49985 | 0.5815 | 1.11327 |
| vnz_10295 | 1.0329 | 41.76355 | 0.99866 |
| vnz_10300 | 13.5514666666667 | 0.520266666666667 | 12.7977766666667 |
| vnz_10315 | 0.3269 | 0.2177 | 1.50158 |
| vnz_10320 | 7.1608 | NA | 4.86051 |
| vnz_10325 | 0.3179 | NA | 0.642005 |
| vnz_10330 | 0.293633333333333 | 0.2421 | 1.49320666666667 |
| vnz_10390 | 0.2807 | 0.1584 | 1.77235 |
| vnz_10410 | NA | 4.97355 | 0.89949 |
| vnz_10415 | 0.2518 | 0.1901 | 1.32473 |
| vnz_10420 | 0.31795 | 3.23485 | 0.7448 |
| vnz_10425 | 0.2171 | 0.14 | 1.5513 |
| vnz_10430 | 0.1093 | 0.0529 | 2.06524 |
| vnz_10435 | 13.2676 | 0.1248 | 500.162305 |
| vnz_10440 | 2.68855 | 23.9804 | 0.805025 |
| vnz_10445 | 0.5556 | 0.3499 | 1.5879 |
| vnz_10460 | 0.20035 | 0.10265 | 2.2989 |
| vnz_10465 | 0.237 | 0.1469 | 1.66357 |
| vnz_10470 | 0.53985 | 0.25925 | 3.048035 |
| vnz_10475 | 0.2361 | 0.1405 | 1.6806 |
| vnz_10480 | 0.6489 | 0.4817 | 1.34722 |
| vnz_10490 | 0.1468 | 0.0389 | 3.77454 |
| vnz_10495 | 0.2733 | 0.3784 | 0.72229 |
| vnz_10500 | 0.1786 | 0.0465 | 3.84094 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_10510 | 43.61466666666667 | NA | 19.73596666666667 |
| vnz_10515 | 0.239 | 0.2558 | 0.93429 |
| vnz_10525 | 3.220991666666667 | 5.087766666666667 | 84.29781666666667 |
| vnz_10530 | 0.4754875 | 8.307025 | 1.2526175 |
| vnz_10535 | 0.3472 | 0.217 | 1.60047 |
| vnz_10540 | 0.245 | 0.2715 | 0.90261 |
| vnz_10570 | 0.2977 | 0.3209 | 0.92756 |
| vnz_10575 | 34.74895 | 20.9297 | 1.063075 |
| vnz_10630 | 0.1591 | 0.0878 | 1.81147 |
| vnz_10640 | 0.2022 | 0.12865 | 1.602185 |
| vnz_10645 | 0.1747 | 0.0893 | 1.95605 |
| vnz_10655 | 2.17115 | 24.65915 | 1.46944 |
| vnz_10660 | 0.6805 | 0.8913 | 0.76349 |
| vnz_10665 | 0.318 | 0.2327 | 1.36614 |
| vnz_10680 | 0.6072 | 0.4238333333333333 | 1.519073333333333 |
| vnz_10700 | 0.2732 | 0.0989 | 2.76117 |
| vnz_10705 | 0.169 | 0.0524 | 3.22319 |
| vnz_10710 | 6.377575 | 60.511475 | 13.3436425 |
| vnz_10715 | 0.4426666666666667 | 0.0838333333333333 | 333.5235066666667 |
| vnz_10720 | 0.1723 | 0.0864 | 1.99477 |
| vnz_10730 | 0.77806 | 95.10064 | 200.436672 |
| vnz_10735 | 18.3418173913043 | NA | 104.458976956522 |
| vnz_10740 | 12.87283333333333 | 1.291466666666667 | 337.9521333333333 |
| vnz_10745 | 0.45705 | 0.3013 | 1.66503 |
| vnz_10750 | 8.571566666666667 | 0.3841333333333333 | 338.2516633333333 |
| vnz_10755 | 3.276485 | NA | 51.85074 |
| vnz_10760 | 1.5763 | 0.7623 | 2.06789 |
| vnz_10765 | 1.64287142857143 | 0.693614285714286 | 2.50806142857143 |
| vnz_10770 | 0.2859 | 0.2105 | 1.35812 |
| vnz_10775 | 0.2506 | 0.0809 | 3.09774 |
| vnz_10790 | 14.56002 | 1.3693 | 204.078736 |
| vnz_10795 | 1.78723636363636 | 115.402845454545 | 3.65683454545455 |
| vnz_10805 | 6.5592 | 2.4932 | 352.83515 |
| vnz_10820 | 4.86432727272727 | 0.384209090909091 | 5.37214909090909 |
| vnz_10825 | 19.10085 | 0.780075 | 68.8239425 |
| vnz_10830 | 0.0687 | 0.0848 | 0.81038 |
| vnz_10865 | 8.2334 | 1391.10719 | 108.300363 |
| vnz_10870 | 0.22345 | 0.1298 | 1.71724 |
| vnz_10875 | 2.8529 | 0.3212 | 503.81087 |
| vnz_10880 | 24.08186 | 0.68204 | 22.43483 |
| vnz_10885 | 0.5825333333333333 | 0.3394 | 1.78333333333333 |
| vnz_10890 | 0.627628571428571 | 0.443285714285714 | 1.4117 |
| vnz_10895 | 0.6776 | 0.3336833333333333 | 1.659185 |
| vnz_10900 | 4.2321 | 1.6826 | 4.283358 |
| vnz_10905 | 0.1768 | 0.57865 | 0.831415 |
| vnz_10910 | 0.2136 | 0.1367 | 1.56199 |
| vnz_10915 | 12.0549363636364 | NA | 52.8848659090909 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_10920 | 0.6194 | 0.5461 | 0.952242 |
| vnz_10930 | 0.1679 | 0.0446 | 3.76292 |
| vnz_10970 | 0.8311 | 0.705666666666667 | 2.32831333333333 |
| vnz_10975 | 0.2406 | 0.1691 | 1.42315 |
| vnz_10980 | 0.2628 | 0.66215 | 0.80438 |
| vnz_10985 | 17.63102 | 3.64038 | 2.164686 |
| vnz_10990 | 0.5104 | 0.324 | 1.57554 |
| vnz_11025 | 0.3097 | 0.1961 | 1.57903 |
| vnz_11030 | 1.71914 | NA | 1.14688 |
| vnz_11035 | 31.02895 | 3.1288 | 5.93033 |
| vnz_11040 | 0.2714 | 0.0925 | 2.931035 |
| vnz_11045 | 1.70213333333333 | NA | 1.48896 |
| vnz_11050 | 0.3149 | 0.5059 | 0.62258 |
| vnz_11080 | 5.23361428571429 | 5.04421428571429 | 1.85550285714286 |
| vnz_11085 | 0.2011 | 0.18845 | 1.069015 |
| vnz_11090 | 1.18937272727273 | 6.70378181818182 | 1.62445818181818 |
| vnz_11095 | 0.53615 | 0.4299 | 1.8785 |
| vnz_11100 | 0.49125 | 0.2726 | 1.81002 |
| vnz_11105 | 0.4231 | 0.154833333333333 | 3.32422333333333 |
| vnz_11115 | 0.3035 | 0.2616 | 1.16012 |
| vnz_11120 | 24.505 | 2.92265 | 4.965525 |
| vnz_11125 | NA | 8.62683333333333 | 1.22827333333333 |
| vnz_11130 | 21.798 | 17.4792545454545 | 119.897434545455 |
| vnz_11135 | 17.0249833333333 | 1.66826666666667 | 11.671405 |
| vnz_11140 | 0.47515 | 0.375 | 1.322375 |
| vnz_11145 | 6.91642 | 27.1264 | 201.226366 |
| vnz_11165 | 0.6061 | 0.4404 | 1.320255 |
| vnz_11170 | 2.75305 | 1.20703333333333 | 3.77577833333333 |
| vnz_11175 | 0.4849 | 0.3267 | 1.48981333333333 |
| vnz_11180 | 0.3097 | 0.4958 | 1.64472 |
| vnz_11190 | 3.57999090909091 | 7.5841 | 91.9816027272727 |
| vnz_11195 | 0.337775 | 0.241225 | 1.5035275 |
| vnz_11200 | 7.04874 | NA | 1.061962 |
| vnz_11205 | 0.49875 | 0.4164 | 1.260605 |
| vnz_11210 | 0.377 | 0.1856 | 2.03137 |
| vnz_11215 | 0.6373 | 0.553 | 250.76011 |
| vnz_11220 | 5.11143333333333 | 23.7225666666667 | 333.531393333333 |
| vnz_11240 | 0.3451 | 0.1758 | 1.96239 |
| vnz_11245 | 0.4266 | 0.2714 | 1.99676333333333 |
| vnz_11250 | 0.8486 | 0.097 | 8.74505 |
| vnz_11255 | 2.65667272727273 | NA | 182.311290909091 |
| vnz_11260 | 0.769766666666667 | 0.407583333333333 | 168.43701 |
| vnz_11265 | 0.2716 | 0.205 | 1.32521 |
| vnz_11270 | 0.1831 | 0.0753 | 2.43075 |
| vnz_11280 | 2.06569375 | 8.99031875 | 126.124214375 |
| vnz_11285 | 5.97737 | 10.46504 | 1.106347 |
| vnz_11290 | 0.87538 | 0.36208 | 201.50961 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_11295 | 20.5771 | 0.1805 | 71.85631 |
| vnz_11300 | 2.84374285714286 | 1.32345714285714 | 144.772401428571 |
| vnz_11305 | 1.47906 | 21.4535 | 1.031952 |
| vnz_11320 | 0.9182 | 2.0783 | 0.44178 |
| vnz_11325 | 0.92706 | 0.58908 | 2.050924 |
| vnz_11330 | 10.4725333333333 | 21.2950666666667 | 80.1414166666667 |
| vnz_11335 | 0.2028 | 0.60495 | 0.461435 |
| vnz_11340 | 1.51705 | 0.734666666666667 | 3.945325 |
| vnz_11355 | 1.69668571428571 | 19.8012857142857 | 2.88469428571429 |
| vnz_11360 | 0.779 | 0.8301 | 0.93845 |
| vnz_11365 | 0.87245 | 47.4465 | 3.46303 |
| vnz_11375 | 0.705775 | 0.436075 | 1.9168525 |
| vnz_11380 | 0.4666 | 0.3031 | 1.53937 |
| vnz_11385 | 0.2935 | 0.1869 | 1.57064 |
| vnz_11390 | 0.9352 | 1.2464 | 499.78335 |
| vnz_11395 | 11.9444545454545 | 41.6473272727273 | 100.750442727273 |
| vnz_11400 | 0.3506 | 0.2411 | 1.45438 |
| vnz_11405 | 0.954233333333333 | 2227.5499 | 666.000033333333 |
| vnz_11410 | 0.6674 | 0.2208 | 2.82026 |
| vnz_11420 | 0.40152 | 0.96296 | 0.7756 |
| vnz_11425 | 0.594433333333333 | NA | 1.59142666666667 |
| vnz_11430 | 12.0219 | 1.89813333333333 | 333.284 |
| vnz_11435 | 0.3863 | 0.2316 | 1.6678 |
| vnz_11445 | 3.5672 | 4.0458 | 1.6505325 |
| vnz_11450 | 0.4013 | 0.262125 | 1.5649325 |
| vnz_11455 | 0.4605 | 0.2577 | 1.78704 |
| vnz_11460 | 0.2765 | 0.324525 | 250.8276275 |
| vnz_11475 | 0.1913 | 0.0898 | 2.129845 |
| vnz_11480 | 0.28545 | 0.22375 | 1.304055 |
| vnz_11485 | 0.2602 | 0.1668 | 1.56002 |
| vnz_11490 | 0.182 | 0.0756 | 2.40701 |
| vnz_11495 | 0.4261 | 306.5851 | 56.97889 |
| vnz_11500 | 0.2274 | 0.1451 | 1.56793 |
| vnz_11505 | 0.4799 | 2025.90315 | 0.82383 |
| vnz_11510 | 0.503675 | 0.35715 | 1.48283416666667 |
| vnz_11520 | 0.52048 | 4.34636 | 1.863216 |
| vnz_11555 | 29.0012625 | 12.1642625 | 128.11583 |
| vnz_11570 | 0.59245 | 0.4121 | 1.80485 |
| vnz_11575 | 0.2714 | 0.07725 | 3.52415 |
| vnz_11580 | 0.2854 | 0.2225 | 1.28228 |
| vnz_11585 | 0.1983 | 0.1212 | 1.63548 |
| vnz_11590 | 0.308 | 0.2187 | 1.40869 |
| vnz_11595 | 0.218775 | 0.22985 | 1.147935 |
| vnz_11600 | 21.0555 | 0.0211 | 999 |
| vnz_11605 | 28.13695 | 0.6067 | 33.348205 |
| vnz_11615 | 0.3923 | 0.2866 | 1.36867 |
| vnz_11620 | 0.691466666666667 | 0.126266666666667 | 334.14485 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_11625 | 0.278766666666667 | 0.1589 | 333.9789566666667 |
| vnz_11630 | 0.2851 | 0.1479 | 1.92747 |
| vnz_11645 | 0.39525 | 0.38925 | 1.03398 |
| vnz_11650 | 7.51445714285714 | 9.44949285714286 | 217.109432142857 |
| vnz_11655 | 5.694691666666667 | 0.9859 | 170.4819241666667 |
| vnz_11695 | 0.4342 | 0.1751 | 2.47944 |
| vnz_11745 | 8.248832 | 8.439292 | 123.7422232 |
| vnz_11750 | 2.2433 | 0.2984 | 7.51855 |
| vnz_11770 | 0.4879 | 1.53263333333333 | 1.06483666666667 |
| vnz_11795 | 0.5046 | 4.6973 | 0.10742 |
| vnz_11825 | 0.4584 | 0.24195 | 1.84946 |
| vnz_11835 | 1.13066666666667 | 0.974633333333333 | 333.855766666667 |
| vnz_11840 | 5.49578666666667 | 0.839813333333333 | 69.375714 |
| vnz_11850 | 0.3887 | 0.284825 | 1.484135 |
| vnz_11855 | 0.526366666666667 | 0.3886 | 1.42897333333333 |
| vnz_11860 | 0.3591 | 0.3402 | 1.0556 |
| vnz_11865 | 0.2918 | 0.2606 | 1.11942 |
| vnz_11870 | 0.757075 | 0.392575 | 250.98144 |
| vnz_11875 | 1.0736 | 0.9946 | 1.07939 |
| vnz_11880 | 16.01606 | 36.04236 | 5.487637 |
| vnz_11890 | 1.1178 | 75.3902 | 0.01483 |
| vnz_11895 | 0.86155 | 0.4757 | 1.827345 |
| vnz_11900 | 10.18585 | 2.37795 | 2.82161 |
| vnz_11905 | 13.88995 | 1.15315 | 499.87159 |
| vnz_11930 | 1.2441 | 4.166575 | 250.5384725 |
| vnz_11935 | 1.0025 | 2.2716 | 0.44131 |
| vnz_11940 | 0.306125 | 0.20635 | 1.6416475 |
| vnz_11945 | 0.2781 | 0.1695 | 1.64075 |
| vnz_11950 | 0.374 | 0.330725 | 1.3471225 |
| vnz_11955 | 0.2621 | 0.159 | 1.64868 |
| vnz_11960 | 0.3444 | 0.29315 | 1.840055 |
| vnz_11970 | 0.39725 | 0.35725 | 1.143945 |
| vnz_11975 | 0.15995 | 0.07905 | 2.144505 |
| vnz_11980 | 0.2433 | 0.2199 | 1.10646 |
| vnz_11985 | 0.789833333333333 | 0.090333333333333 | 334.198113333333 |
| vnz_11990 | 1.0106625 | 2.7363625 | 126.44495375 |
| vnz_11995 | 0.514466666666667 | 0.308066666666667 | 1.66528666666667 |
| vnz_12000 | 0.3128 | 0.1707 | 1.83206 |
| vnz_12005 | 20.5023333333333 | NA | 11.85967 |
| vnz_12015 | 1.52437777777778 | 323.915088888889 | 1.02145777777778 |
| vnz_12020 | 1.30420769230769 | 1.2713 | 1.76607076923077 |
| vnz_12025 | 11.509525 | 1.6195375 | 129.20636125 |
| vnz_12030 | 2.26815 | 16.8669833333333 | 1.37718333333333 |
| vnz_12035 | 13.2856681818182 | 15.2783068181818 | 48.0164886363636 |
| vnz_12040 | 0.315492307692308 | 0.219038461538462 | 1.85498153846154 |
| vnz_12045 | 0.29104 | 0.2481 | 1.477536 |
| vnz_12050 | 0.2231 | 0.1173 | 1.90312 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|--------------------|------------------|
| vnz_12055 | 17.4271 | 0.1974 | 500.220625 |
| vnz_12060 | 0.3115 | 0.19 | 1.6396 |
| vnz_12065 | 4.29791428571429 | 1.51684285714286 | 74.676165 |
| vnz_12085 | 0.1665 | 0.0938 | 1.77563 |
| vnz_12095 | 0.0657 | 0.0001 | 999 |
| vnz_12105 | 0.3119 | 0.1391 | 2.75901333333333 |
| vnz_12110 | 0.2303 | 71.9309 | 0.0032 |
| vnz_12150 | 1.34565 | NA | 1.05527333333333 |
| vnz_12155 | 0.927125 | 0.632425 | 1.913115 |
| vnz_12165 | 0.1654 | 0.0656 | 2.51944 |
| vnz_12170 | 0.309225 | 0.150925 | 251.9718975 |
| vnz_12175 | 12.0431333333333 | 0.4266 | 334.1782 |
| vnz_12180 | 0.3091 | 0.2613 | 1.18277 |
| vnz_12185 | 0.3961 | 0.09715 | 500.18068 |
| vnz_12190 | 20.13815 | 9.48795 | 1.31753 |
| vnz_12195 | 0.13315 | 0.06995 | 0.95213 |
| vnz_12200 | 0.1819 | 0.0763 | 2.38359 |
| vnz_12205 | 0.1853 | 0.0604333333333333 | 2.05433333333333 |
| vnz_12265 | 0.981366666666667 | 59.8824 | 167.057915 |
| vnz_12270 | 15.00451 | 3.82038 | 54.299905 |
| vnz_12275 | 1.06703333333333 | 20.3550666666667 | 1.02415 |
| vnz_12280 | 7.77422666666667 | 2.15834666666667 | 10.682826 |
| vnz_12285 | 0.2139 | 0.121133333333333 | 1.75702666666667 |
| vnz_12295 | 0.4698 | 0.30945 | 1.50615 |
| vnz_12300 | 0.479466666666667 | 0.6739 | 1.19563 |
| vnz_12305 | 0.477 | 0.210866666666667 | 2.36406333333333 |
| vnz_12310 | 1.2504 | NA | 126.59667 |
| vnz_12315 | 0.170666666666667 | 0.072866666666667 | 2.5831 |
| vnz_12320 | 0.807142857142857 | 35.0754142857143 | 1.43822 |
| vnz_12325 | 0.2453 | 0.1137 | 2.15833 |
| vnz_12330 | 13.5774375 | NA | 7.10170375 |
| vnz_12335 | 0.1741 | 0.0762 | 2.28573 |
| vnz_12340 | 0.20765 | 0.1112 | 500.232405 |
| vnz_12345 | 0.9727 | 0.337966666666667 | 3.17833333333333 |
| vnz_12350 | 1.1393 | 0.3906 | 2.69926 |
| vnz_12355 | 0.3823 | 4.6971 | 0.08139 |
| vnz_12365 | 25.1242666666667 | 0.5748 | 18.85748 |
| vnz_12370 | 0.3438 | 0.1819 | 1.97931 |
| vnz_12375 | 1.3667 | 1.8397 | 0.74289 |
| vnz_12380 | 5.56097857142857 | 7.6566 | 72.6964071428571 |
| vnz_12385 | 1.54557 | NA | 31.302365 |
| vnz_12395 | 0.223933333333333 | 0.554783333333333 | 167.366003333333 |
| vnz_12405 | 0.27334 | 0.2098 | 1.858604 |
| vnz_12410 | 0.3123 | 0.178966666666667 | 1.98179333333333 |
| vnz_12415 | 0.2932 | 0.1244 | 2.35666 |
| vnz_12435 | 0.207 | 0.1423 | 1.45431 |
| vnz_12440 | 0.3128 | 0.175 | 1.78777 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|------------------|------------------|------------------|
| vnz_12445 | 0.177 | 0.0619 | 2.8571 |
| vnz_12450 | 0.0989 | 0.0452 | 2.18532 |
| vnz_12455 | 0.2256 | 0.10375 | 1.6181825 |
| vnz_12460 | 0.398 | 0.4466 | 0.89111 |
| vnz_12475 | 8.23652 | 15.70988 | 104.674883 |
| vnz_12480 | 21.4555428571429 | 15.1911142857143 | 1.98576 |
| vnz_12495 | 8.17450555555556 | 6.30077777777778 | 120.219325555556 |
| vnz_12510 | 63.5972333333333 | 1.22716666666667 | 19.37042 |
| vnz_12515 | 17.1274153846154 | NA | 10.3335730769231 |
| vnz_12525 | 0.6972 | 0.65005 | 1.428875 |
| vnz_12530 | 2.75707777777778 | NA | 112.15718 |
| vnz_12535 | 2.18468 | 678.15958 | 1.191256 |
| vnz_12540 | 0.2257 | 0.1225 | 1.84228 |
| vnz_12550 | 0.2714 | 0.1428 | 1.90107 |
| vnz_12555 | 0.2335 | 0.1559 | 1.49773 |
| vnz_12605 | 21.1104666666667 | 1.25393333333333 | 333.482813333333 |
| vnz_12610 | 6.86343611111111 | NA | 141.038222222222 |
| vnz_12615 | 2.14901666666667 | 1.08893333333333 | 2.48741833333333 |
| vnz_12620 | 2.81848333333333 | 6.97631666666667 | 168.78629 |
| vnz_12625 | 0.2403 | 0.0947 | 2.5363 |
| vnz_12630 | 0.1858 | 0.0822 | 2.238065 |
| vnz_12645 | 2.63748076923077 | 187.655688461538 | 116.943998461538 |
| vnz_12650 | 3.51981111111111 | 4.58712222222222 | 7.38871777777778 |
| vnz_12655 | 0.1524 | 0.1901 | 0.80169 |
| vnz_12660 | 0.59215 | 4.72585 | 1.01262 |
| vnz_12665 | 34.4353 | 27.5999 | 1.24766 |
| vnz_12685 | 0.1733 | 0.0841 | 2.05982 |
| vnz_12700 | 2.3556 | NA | 0.94357 |
| vnz_12705 | 0.84775 | 0.25835 | 3.20712 |
| vnz_12710 | 0.287 | 0.2391 | 1.20033 |
| vnz_12715 | 0.31755 | 0.21085 | 1.508395 |
| vnz_12720 | 3.856625 | 11.145025 | 2.4073475 |
| vnz_12725 | 0.1723 | 0.0451 | 3.82166 |
| vnz_12730 | 0.3593 | 27.053675 | 1.099765 |
| vnz_12735 | 0.2331 | 0.1645 | 1.41697 |
| vnz_12760 | 4.190805 | 16.12939 | 53.8449875 |
| vnz_12765 | 0.23375 | 0.12145 | 1.94664 |
| vnz_12770 | 0.1749 | 0.1101 | 1.58806 |
| vnz_12795 | 0.2558 | 0.1489 | 1.71768 |
| vnz_12800 | 0.5874 | 0.4712 | 1.24671 |
| vnz_12810 | 0.60912 | 2.27364 | 200.225542 |
| vnz_12820 | 0.2089 | 44.3644 | 0.914375 |
| vnz_12825 | 0.2519 | 0.1408 | 1.78912 |
| vnz_12835 | 0.36955 | 0.405 | 1.1768075 |
| vnz_12840 | 0.26258 | 0.18578 | 201.200994 |
| vnz_12845 | 0.2984 | 0.06145 | 500.34511 |
| vnz_12850 | 0.3382 | 0.1723 | 1.96247 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_12865 | 0.59272 | 0.59962 | 1.374318 |
| vnz_12870 | 0.2838 | 0.2053 | 1.38258 |
| vnz_12875 | 1.131925 | 1.131175 | 0.9458225 |
| vnz_12880 | 0.51385 | 0.61915 | 0.86195 |
| vnz_12885 | 0.2666 | 0.0557 | 4.78221 |
| vnz_12890 | 0.2714 | 0.1649 | 1.64645 |
| vnz_12900 | 0.26 | 0.1534 | 1.69501 |
| vnz_12905 | 0.217 | 0.16645 | 1.362685 |
| vnz_12915 | 0.3456 | 0.1902 | 1.8168 |
| vnz_12920 | 0.3820333333333333 | 455.5753666666667 | 0.851686666666667 |
| vnz_12925 | 14.5124857142857 | 0.976471428571429 | 16.1838214285714 |
| vnz_12930 | 0.278725 | 11.122575 | 0.6418125 |
| vnz_12935 | 0.212066666666667 | 0.1293 | 1.092086666666667 |
| vnz_12940 | 3.47875 | 0.3228833333333333 | 167.8700616666667 |
| vnz_12945 | 25.8551666666667 | 0.3954 | 98.81478333333333 |
| vnz_12950 | 53.63903333333333 | 2.4068 | 15.54142333333333 |
| vnz_12955 | 1.5782625 | 1.3835125 | 126.1387625 |
| vnz_12960 | 2.4052 | 1.007366666666667 | 169.1987566666667 |
| vnz_12965 | 0.2256 | 0.0696 | 3.24283 |
| vnz_12970 | 12.18765 | 7.592975 | 2.3187675 |
| vnz_12975 | 0.2885 | 0.1664 | 1.73396 |
| vnz_12985 | 0.3492 | 0.192 | 1.81873 |
| vnz_12990 | 0.2964 | 0.1991 | 1.4888 |
| vnz_12995 | 1.98566 | 7.34134 | 201.141644 |
| vnz_13010 | 0.5557 | 0.6552 | 0.84817 |
| vnz_13015 | 0.4639 | 0.3118 | 1.48797 |
| vnz_13025 | 0.5773 | 0.3939 | 1.46551 |
| vnz_13030 | 0.74998 | 10.32983 | 1.121347 |
| vnz_13035 | 26.975225 | 4.326 | 107.928545 |
| vnz_13045 | 0.2197 | 0.095 | 2.31334 |
| vnz_13050 | 8.703783333333333 | NA | 139.8548916666667 |
| vnz_13055 | 0.5032 | 0.4716 | 1.06691 |
| vnz_13065 | 23.7035666666667 | 4.162033333333333 | 7.5419 |
| vnz_13070 | 0.3018 | 0.1669 | 1.80906 |
| vnz_13090 | 0.568175 | 0.390825 | 1.30462 |
| vnz_13120 | 0.379 | 0.2107 | 1.79856 |
| vnz_13125 | 0.344 | 0.2357 | 1.45098 |
| vnz_13130 | 2.69065 | NA | 0.6657425 |
| vnz_13155 | 2.9878 | 29.0904 | 333.5264233333333 |
| vnz_13160 | 1.56334 | 21.3316 | 0.73168 |
| vnz_13165 | 10.0112625 | 26.53365 | 125.68803125 |
| vnz_13175 | 19.271375 | 9.67005 | 2.4369925 |
| vnz_13235 | 1.808333333333333 | 2.005933333333333 | 333.5910766666667 |
| vnz_13240 | 1.348116666666667 | NA | 64.19212833333333 |
| vnz_13245 | 1.2634 | 0.7554 | 334.8662266666667 |
| vnz_13250 | 149.00355 | NA | 167.3521616666667 |
| vnz_13255 | 1.08458 | NA | 3.112472 |

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| Gene | dN | dS | ω |
|-----------|------------------|-------------------|------------------|
| vnz_13260 | 0.48812 | 2.05108 | 200.860858 |
| vnz_13265 | 1.36583333333333 | 0.27513333333333 | 333.936416666667 |
| vnz_13270 | 3.05703333333333 | 0.57073333333333 | 4.21675666666667 |
| vnz_13275 | 5.39693333333333 | 27.7412083333333 | 94.4901808333333 |
| vnz_13290 | 0.6381 | NA | 0.81421 |
| vnz_13330 | 2.68773 | 47.08115 | 1.476466 |
| vnz_13335 | 6.66592272727273 | NA | 50.6231590909091 |
| vnz_13340 | 18.99362 | 4.14828 | 5.007148 |
| vnz_13345 | 10.97945 | 6.1453 | 1.470735 |
| vnz_13375 | 0.1678 | 0.1041 | 1.61169 |
| vnz_13380 | 0.1459 | NA | 0.15653 |
| vnz_13395 | 0.63363333333333 | 0.4762 | 1.34149666666667 |
| vnz_13400 | 0.4143 | 0.25315 | 1.613955 |
| vnz_13410 | 0.2347 | 0.08575 | 2.97596 |
| vnz_13415 | 0.4293 | 1.17125 | 1.334905 |
| vnz_13420 | 0.7567 | 0.26973333333333 | 335.39419 |
| vnz_13435 | 1.3055 | 0.7418 | 1.76006 |
| vnz_13440 | 6.9154 | 5.73705 | 0.823825 |
| vnz_13445 | 6.76504 | 10.60378 | 16.815122 |
| vnz_13450 | 1.968 | 2.5997 | 5.50594666666667 |
| vnz_13460 | 5.49717692307692 | 0.498792307692308 | 32.1957253846154 |
| vnz_13465 | 1.32652222222222 | 26.0492888888889 | 222.530265555556 |
| vnz_13495 | 0.4377 | 0.5342 | 1.44068333333333 |
| vnz_13500 | 0.3136 | 0.1943 | 1.61418 |
| vnz_13505 | 0.5994 | 0.94205 | 0.581515 |
| vnz_13510 | 0.2972 | 0.1747 | 1.70114 |
| vnz_13515 | 1.26566666666667 | 0.6947 | 1.56726333333333 |
| vnz_13520 | 9.4077 | NA | 0.0001 |
| vnz_13540 | 0.36373333333333 | NA | 1.57607333333333 |
| vnz_13545 | 0.3041 | 0.1258 | 2.41796 |
| vnz_13550 | 0.1954 | 0.02985 | 500.88659 |
| vnz_13555 | 0.3377 | 0.2016 | 1.67565 |
| vnz_13580 | 0.3172 | 0.22475 | 1.413165 |
| vnz_13585 | 4.56162 | 7.1395 | 1.525936 |
| vnz_13590 | 0.3521 | 0.141 | 2.49794 |
| vnz_13595 | 0.25245 | 0.0851 | 3.0307 |
| vnz_13600 | 0.983675 | 0.498625 | 3.5609975 |
| vnz_13605 | 0.53836666666667 | 0.60503333333333 | 1.32029666666667 |
| vnz_13615 | 0.57465 | 73.03055 | 0.560065 |
| vnz_13620 | 0.3774 | 0.2286 | 1.658205 |
| vnz_13630 | 0.3002 | 0.1846 | 1.6263 |
| vnz_13635 | 0.8396 | 1.61902 | 1.613856 |
| vnz_13640 | 7.1393 | 0.75322 | 3.220302 |
| vnz_13655 | 0.2238 | 0.1143 | 1.95829 |
| vnz_13660 | 5.99963529411765 | 1.46959411764706 | 126.804291764706 |
| vnz_13665 | 10.273725 | 1.5871 | 2.9033525 |
| vnz_13670 | 0.5122 | 0.61105 | 0.958495 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_13675 | 0.4906 | 0.3491 | 1.40543 |
| vnz_13680 | 18.8268 | NA | 195.936250909091 |
| vnz_13685 | NA | 4.5336125 | NA |
| vnz_13690 | 21.5136 | 2.65782 | 201.39313 |
| vnz_13695 | 3.84691428571429 | 1401.60182857143 | 1.39435 |
| vnz_13700 | NA | 6.60091428571429 | 196.92287 |
| vnz_13705 | 0.698125 | 0.217575 | 3.2308675 |
| vnz_13710 | 0.3724 | 0.1641 | 2.26967 |
| vnz_13730 | 0.326 | 0.1358 | 2.40088 |
| vnz_13755 | 0.2763 | 0.1435 | 1.92544 |
| vnz_13760 | 0.3198 | 0.2178 | 1.46806 |
| vnz_13765 | 1.29136 | NA | 1.726878 |
| vnz_13770 | 0.711125 | 0.495375 | 1.51255 |
| vnz_13775 | 2.2742 | 0.5291 | 2.68875571428571 |
| vnz_13780 | 0.3512 | 0.31205 | 1.19628 |
| vnz_13785 | 27.00825 | 3.92405 | 4.633595 |
| vnz_13805 | 2.89945 | 0.3873 | 16.94573 |
| vnz_13810 | 1.35936666666667 | 0.2494 | 469.80679 |
| vnz_13830 | 0.3543 | 0.2405 | 1.47328 |
| vnz_13835 | 0.394 | 0.2306 | 1.70893 |
| vnz_13875 | 5.06332 | 0.6984 | 5.632798 |
| vnz_13880 | 1.1044 | 0.5475 | 2.0174 |
| vnz_13885 | 0.2029 | 0.1002 | 2.02566 |
| vnz_13890 | 0.3987 | 0.2432 | 1.63949 |
| vnz_13905 | 1.17285 | 1.63905 | 250.55865 |
| vnz_13910 | 134.9842 | 14.3718 | 333.455086666667 |
| vnz_13920 | 0.4726 | 0.233966666666667 | 1.98076 |
| vnz_13925 | 4.55323 | 4.21339 | 201.168821 |
| vnz_13950 | 4.6398 | 2.32725 | 3.127545 |
| vnz_13960 | 1.484 | 1.9875 | 0.74668 |
| vnz_13965 | 4.67073333333333 | 19.6628666666667 | 1.17147 |
| vnz_13970 | 26.4161666666667 | 42.4825 | 2.16979333333333 |
| vnz_13975 | 18.3037 | 9.59725 | 2.05658 |
| vnz_13980 | 1.01013333333333 | 2780.7892 | 0.560036666666667 |
| vnz_13985 | 4.1551 | 3.1829 | 499.53885 |
| vnz_14065 | 10.6632375 | 8.204575 | 128.96736125 |
| vnz_14070 | 0.3262 | 2.0005 | 0.16308 |
| vnz_14205 | 0.918433333333333 | 0.173966666666667 | 334.03465 |
| vnz_14215 | 0.5203 | 0.2504 | 2.07756 |
| vnz_14225 | 0.314775 | 0.10855 | 251.4274125 |
| vnz_14230 | 0.44024 | NA | 1.017238 |
| vnz_14235 | 0.14785 | 0.11675 | 1.306805 |
| vnz_14250 | 0.347166666666667 | 0.131066666666667 | 334.032263333333 |
| vnz_14255 | 0.2792 | 0.1922 | 1.45267 |
| vnz_14260 | 0.2489 | 41.9272 | 1.19293 |
| vnz_14265 | 0.243 | 0.1038 | 2.34133 |
| vnz_14270 | 0.262666666666667 | 0.150766666666667 | 334.013623333333 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_14275 | 4.249916666666667 | 0.134633333333333 | 150.7425333333333 |
| vnz_14280 | 0 | 0 | 0 |
| vnz_14285 | 0.645288888888889 | 3.076433333333333 | 1.436163333333333 |
| vnz_14290 | 0.4195 | 0.2352 | 1.7835 |
| vnz_14295 | 0.2313 | 0.1516 | 1.52531 |
| vnz_14300 | 3.540633333333333 | 1.133233333333333 | 2.06354 |
| vnz_14330 | 1.0053 | 0.5799 | 1.82988 |
| vnz_14335 | 0.6505 | 0.492 | 1.32721 |
| vnz_14340 | 0.484133333333333 | NA | 0.741476666666667 |
| vnz_14345 | 0.1634 | 0.0845 | 1.93351 |
| vnz_14350 | 5.69115510204082 | NA | 23.6180967346939 |
| vnz_14355 | 11.1429 | 0.1661 | 501.75101 |
| vnz_14365 | 9.7738380952381 | NA | 103.996317142857 |
| vnz_14370 | 11.4411181818182 | 66.5483 | 33.0723909090909 |
| vnz_14385 | 1.198533333333333 | 1.126666666666667 | 2.621506666666667 |
| vnz_14390 | 9.71237692307692 | 20.6212692307692 | 181.711604615385 |
| vnz_14395 | 0.2835 | 0.1268 | 1.117785 |
| vnz_14400 | 16.42453333333333 | 908.3537555555555 | 128.04253 |
| vnz_14405 | 0.285 | 0.1515 | 1.998203333333333 |
| vnz_14410 | 0.51765 | 0.35405 | 4.30039 |
| vnz_14415 | 0.41925 | 0.0593 | 143.08369 |
| vnz_14420 | 0.0871 | 0.0764 | 1.1405 |
| vnz_14425 | 0.165 | 0.0844 | 1.956 |
| vnz_14435 | 0.3438 | 0.2051 | 1.67622 |
| vnz_14440 | 0.3323 | 0.141366666666667 | 2.314846666666667 |
| vnz_14455 | 0.3487 | 0.2288 | 1.52413 |
| vnz_14460 | 0.4298 | 0.2872 | 1.49644 |
| vnz_14465 | 0.3938 | 0.2328 | 1.69193 |
| vnz_14470 | 1.307 | 0.2641 | 4.94793 |
| vnz_14480 | 4.159544444444444 | 13.7840111111111 | 11.11863555555556 |
| vnz_14490 | 4.594204166666667 | 8.798491666666667 | 37.5033754166667 |
| vnz_14500 | 3.951 | NA | 0.45065 |
| vnz_14505 | 0.4685 | 0.38745 | 1.27708 |
| vnz_14520 | 5.971975 | 1.036075 | 9.5473075 |
| vnz_14525 | 0.2192 | 0.0874 | 2.966565 |
| vnz_14530 | 23.49533333333333 | 2.129 | 7.454976666666667 |
| vnz_14535 | 0.1924 | 0.0795 | 2.434015 |
| vnz_14580 | 7.99621428571429 | 9.64695714285714 | 207.193877142857 |
| vnz_14585 | 0.6741 | 0.931114285714286 | 1.12206857142857 |
| vnz_14645 | 0.4057 | 0.8123 | 0.49947 |
| vnz_14665 | 7.91318 | 2.47372 | 2.552414 |
| vnz_14680 | 20.2977 | 69.7015 | 0.330825 |
| vnz_14690 | 0.2875 | 0.177 | 1.62431 |
| vnz_14700 | 0.1781 | 0.1155 | 1.54196 |
| vnz_14710 | 0.2082 | 0.1482 | 1.40486 |
| vnz_14715 | 0.2478 | 0.162 | 1.52927 |
| vnz_14720 | 0.2171 | 0.27065 | 1.462795 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_14725 | 0.306875 | 0.1771 | 349.4392625 |
| vnz_14735 | 4.54286 | NA | 201.487409 |
| vnz_14740 | 0.1696 | 0.0577 | 2.93996 |
| vnz_14750 | 0.497066666666667 | 0.2694 | 2.03555333333333 |
| vnz_14760 | 3.46926153846154 | 0.846807692307692 | 2.68936538461538 |
| vnz_14765 | 4.166525 | 0.732675 | 5.0751025 |
| vnz_14770 | 9.63836666666667 | 8.255125 | 18.0682791666667 |
| vnz_14775 | 0.6824 | 0.6769 | 1.00819 |
| vnz_14780 | 0.2957 | 0.1987 | 1.48806 |
| vnz_14785 | 4.4206 | 1.90016666666667 | 1.61207333333333 |
| vnz_14790 | 0.1611 | 0.0376 | 4.28701 |
| vnz_14810 | 2.6994 | 1.1333 | 2.3818 |
| vnz_14815 | 0.697785714285714 | 0.3224 | 144.218424285714 |
| vnz_14820 | 0.2448 | 0.1077 | 2.27214 |
| vnz_14830 | 0.3923 | 0.1808 | 2.16926 |
| vnz_14850 | 0.3677 | 0.155 | 2.37171 |
| vnz_14855 | 3.0067625 | NA | 128.2086375 |
| vnz_14870 | 0.987966666666667 | NA | 1.25577 |
| vnz_14875 | 0.2986 | 0.2334 | 1.416995 |
| vnz_14885 | 0.2609 | 0.1367 | 1.90805 |
| vnz_14895 | 0.1974 | 0.0284 | 6.95084 |
| vnz_14900 | 24.1350727272727 | 9.66690909090909 | 25.97467 |
| vnz_14915 | 0.48915 | 0.61275 | 1.19391 |
| vnz_14920 | 0.2106 | 0.1282 | 1.64314 |
| vnz_14925 | 0.2759 | 0.2075 | 1.32954 |
| vnz_14935 | 0.2889 | 0.1518 | 1.90277 |
| vnz_14940 | 0.72205 | 0.75785 | 1.051695 |
| vnz_14945 | 0.5427 | 0.2792 | 1.94371 |
| vnz_14950 | 6.54536666666667 | 0.91765 | 167.702501666667 |
| vnz_14955 | 7.13199 | 1.22671 | 5.551147 |
| vnz_14960 | 8.0887 | 0.94785 | 250.3801825 |
| vnz_14965 | 2.36763333333333 | 8.05426666666667 | 1.46578444444444 |
| vnz_14970 | 1.8613 | 0.7309 | 2.23926 |
| vnz_14975 | 0.889283333333333 | 1.05941666666667 | 0.829463333333333 |
| vnz_14985 | 0.3271 | 0.3184 | 1.02756 |
| vnz_14990 | 6.83163333333333 | 0.818666666666667 | 7.17134666666667 |
| vnz_14995 | 0.3921 | 0.0004 | 999 |
| vnz_15000 | 0.2582 | 0.066 | 3.91269 |
| vnz_15010 | 0.2923 | 0.13315 | 2.22016 |
| vnz_15015 | 7.45739285714286 | 15.6824857142857 | 75.9488678571429 |
| vnz_15020 | 55.9685666666667 | 5.80253333333333 | 32.7724466666667 |
| vnz_15035 | 0.2808 | 0.2003 | 1.40181 |
| vnz_15040 | 0.3716 | 0.253766666666667 | 1.94760333333333 |
| vnz_15045 | 0.2443 | 0.0478 | 5.10856 |
| vnz_15050 | 0.3865 | 0.2148 | 1.79956 |
| vnz_15055 | 24.5193 | 0.8068 | 17.94225 |
| vnz_15060 | 0.2005 | 0.0605 | 3.31594 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_15065 | 1.30625 | 1.8407 | 1.01266 |
| vnz_15075 | 14.21333333333333 | 1.6807 | 3.77978 |
| vnz_15080 | 10.75604 | 1.39466 | 209.679772 |
| vnz_15085 | 6.7624 | 1.43205 | 2.72326333333333 |
| vnz_15095 | 0.2634 | 0.178 | 1.47994 |
| vnz_15105 | 1.0934 | 1.6738 | 0.65325 |
| vnz_15110 | 0.1507 | 0.057 | 2.64173 |
| vnz_15125 | NA | NA | NA |
| vnz_15130 | 0.4667 | 0.268633333333333 | 1.94079166666667 |
| vnz_15135 | 0.1793 | 0.0912 | 1.96503 |
| vnz_15140 | 0.789457142857143 | 11.7147571428571 | 143.732331428571 |
| vnz_15145 | 0.7078 | 2.5597 | 0.2765 |
| vnz_15150 | 0.876983333333333 | NA | 167.43469 |
| vnz_15155 | 12.00565 | NA | 250.80397375 |
| vnz_15170 | 0.2075 | 0.1182 | 1.75608 |
| vnz_15175 | 0.2957 | 0.3038 | 0.97333 |
| vnz_15185 | 0.3064 | 0.234 | 1.30932 |
| vnz_15190 | 2.8847 | NA | 0.30483 |
| vnz_15195 | 3.12026 | 5.04706 | 200.79121 |
| vnz_15200 | 0.37425 | 0.288 | 1.31558 |
| vnz_15205 | 15.24574 | 18.89522 | 2.138748 |
| vnz_15210 | 0.132 | 0.0468 | 2.81815 |
| vnz_15215 | 0.5735 | 0.64445 | 1.38535 |
| vnz_15220 | NA | 2.75488 | 71.5859486666667 |
| vnz_15225 | 0.304 | 0.1594 | 1.90688 |
| vnz_15230 | NA | NA | 59.1560555555556 |
| vnz_15235 | 9.9351 | 32.6417333333333 | 0.34235 |
| vnz_15240 | 6.42407027027027 | 83.8283081081081 | 139.737836486486 |
| vnz_15245 | 14.2674125 | 6.28323125 | 70.751399375 |
| vnz_15255 | 0.7701 | 0.7868 | 0.97873 |
| vnz_15260 | 7.28175714285714 | 0.575614285714286 | 147.81215 |
| vnz_15265 | 13.2336857142857 | 9.4059 | 5.52017 |
| vnz_15270 | 0.2025 | 0.0786 | 2.57645 |
| vnz_15275 | 0.2274 | 0.1292 | 1.76017 |
| vnz_15290 | 0.3507 | 0.2582 | 1.35828 |
| vnz_15295 | 0.26585 | 0.1398 | 1.97569 |
| vnz_15320 | 0.207066666666667 | 0.490933333333333 | 1.16014666666667 |
| vnz_15325 | 0.4252 | 0.153666666666667 | 334.300906666667 |
| vnz_15330 | 0.51625 | 0.3252 | 1.607325 |
| vnz_15335 | 0.6125 | 0.3584 | 1.716435 |
| vnz_15340 | 0.3168 | 0.236 | 1.34252 |
| vnz_15345 | 0.3389 | 0.2401 | 1.41127 |
| vnz_15355 | 0.1992 | 0.0632 | 3.15127 |
| vnz_15360 | 0.36305 | 0.3181 | 1.15136 |
| vnz_15365 | 1.11245 | 0.4049 | 2.4245725 |
| vnz_15385 | 0.23968 | 0.33906 | 1.366368 |
| vnz_15390 | 3.0473 | 0.31795 | 500.13313 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_15395 | 2.6703 | NA | 1.931406666666667 |
| vnz_15400 | 7.45106153846154 | 29.8423153846154 | 4.17058076923077 |
| vnz_15405 | 0.289 | 0.3396 | 0.85106 |
| vnz_15410 | 0.2501 | 0.15085 | 1.65456 |
| vnz_15415 | 17.2256 | 0.10045 | 500.265875 |
| vnz_15420 | 0.3795 | 0.4791 | 0.79212 |
| vnz_15425 | 0.476983333333333 | 1021.68118333333 | 1.474381666666667 |
| vnz_15430 | 0.5601 | 0.38905 | 1.59511 |
| vnz_15445 | 22.2882428571429 | 0.725971428571428 | 148.652638571429 |
| vnz_15450 | 3.55042857142857 | 20.3918 | 1.00901714285714 |
| vnz_15455 | 0.5683 | 0.6589 | 0.837155 |
| vnz_15460 | 2.31916875 | 13.1008 | 1.18401 |
| vnz_15465 | 1.82245 | 1.37565 | 1.54095 |
| vnz_15470 | 0.2027 | 0.123 | 1.64813 |
| vnz_15475 | 0.3862 | 0.2669 | 1.44697 |
| vnz_15480 | 0.274325 | 0.4225 | 0.950835 |
| vnz_15490 | 0.4088 | 0.35195 | 1.73572 |
| vnz_15495 | 0.2059 | 2044.56775 | 0.0001 |
| vnz_15500 | 0.2459 | 0.0992 | 2.47788 |
| vnz_15540 | 1.13126666666667 | 1.01963333333333 | 1.02939 |
| vnz_15545 | 0.48235 | 0.28775 | 1.848155 |
| vnz_15550 | 0.8279 | 0.1213 | 6.82259 |
| vnz_15555 | 0.301333333333333 | 0.546666666666667 | 1.10088 |
| vnz_15560 | 0.761225 | 0.1588 | 251.1442725 |
| vnz_15565 | 0.5664 | 1.372025 | 1.9029875 |
| vnz_15570 | 0.3483 | 0.2473 | 1.4085 |
| vnz_15575 | 1.1119 | 0.4327 | 2.680745 |
| vnz_15580 | 0.5357 | 0.238 | 2.25098 |
| vnz_15585 | 25.4190818181818 | 262.821209090909 | 38.4862654545455 |
| vnz_15590 | 0.7839 | 0.180133333333333 | 333.8675166666667 |
| vnz_15595 | 0.3964 | 0.30655 | 1.320645 |
| vnz_15600 | 3.59476666666667 | 394.56145 | 1.214865 |
| vnz_15605 | NA | 14.634825 | 1.86296 |
| vnz_15610 | 8.84981111111111 | NA | 1.32006111111111 |
| vnz_15615 | 66.14995 | 1.83605 | 39.120015 |
| vnz_15620 | 11.9420875 | 26.6366375 | 1.616855 |
| vnz_15625 | 0.2383 | 0.1591 | 1.52884666666667 |
| vnz_15630 | 0.2891 | 0.1182 | 2.44553 |
| vnz_15635 | 2.68245 | 0.6573 | 3.20708 |
| vnz_15655 | 0.3101 | 0.2284 | 1.35751 |
| vnz_15660 | 1.43954 | NA | 200.451504 |
| vnz_15665 | 0.27385 | 0.1879 | 1.52849 |
| vnz_15670 | 0.6244 | 0.395825 | 1.51779 |
| vnz_15680 | 0.335733333333333 | 0.332866666666667 | 1.05635 |
| vnz_15685 | 1.41286666666667 | NA | 1.01885333333333 |
| vnz_15745 | 0.31085 | 0.29875 | 1.087125 |
| vnz_15755 | 0.927033333333333 | NA | 0.807286666666667 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|--------------------|
| vnz_15760 | 0.4269 | 0.2008 | 2.12569 |
| vnz_15765 | 1.8333 | 2.9671 | 0.61786 |
| vnz_15780 | 12.9487 | 0.978127272727273 | 116.704671818182 |
| vnz_15785 | 0.243866666666667 | 0.215766666666667 | 1.28489 |
| vnz_15790 | 4.12855 | 0.9536 | 3.174965 |
| vnz_15795 | 6.8325 | 19.1521166666667 | 167.209998333333 |
| vnz_15800 | 0.4207 | 0.2726 | 1.54346 |
| vnz_16285 | 0.299 | 0.1884 | 1.58714 |
| vnz_16295 | 1.165975 | 92.632625 | 0.73497 |
| vnz_16300 | 4.78920625 | 163.34419375 | 5.86907625 |
| vnz_16370 | 1.7795 | 53.2087 | 0.03344 |
| vnz_16375 | 6.538775 | 8.60195 | 4.0636375 |
| vnz_16380 | 7.702175 | 1.23715 | 253.922205 |
| vnz_16385 | NA | NA | 3.62516 |
| vnz_16390 | 4.04176 | 0.14876 | 402.94209 |
| vnz_16395 | 0.2497 | 0.1266 | 1.97309 |
| vnz_16400 | 0.3163 | 0.1585 | 1.99534 |
| vnz_16405 | 32.9063416666667 | 9.01904166666667 | 10.2229675 |
| vnz_16410 | 0.829975 | 0.491725 | 1.6988025 |
| vnz_16415 | 0.2609 | 0.176233333333333 | 1.48448666666667 |
| vnz_16420 | 2.455075 | NA | 1.6116075 |
| vnz_16430 | 37.0078333333333 | 1.61136666666667 | 29.78121 |
| vnz_16435 | 17.5253 | 0.0175 | 999 |
| vnz_16490 | 0.277 | 0.094 | 2.9475 |
| vnz_16495 | 0.1579 | 0.1659 | 0.95203 |
| vnz_16500 | 6.56696 | 10.36566 | 215.417027 |
| vnz_16510 | 26.21115 | 5.67428333333333 | 14.4889516666667 |
| vnz_16515 | 0.2012 | 0.093 | 2.16351 |
| vnz_16530 | 0.4298 | 0.5359 | 0.874446666666667 |
| vnz_16535 | 7.88142857142857 | 1.47612857142857 | 7.79118 |
| vnz_16540 | 0.2019 | 0.0879 | 2.29595 |
| vnz_16545 | 4.54863333333333 | 28.22755 | 166.984026666667 |
| vnz_16550 | 0.1038 | 0.0631 | 0.82259 |
| vnz_16555 | 0.3683 | 0.2373 | 1.55211 |
| vnz_16560 | 0.2628 | 0.1792 | 1.46671 |
| vnz_16565 | 0.254633333333333 | 0.183533333333333 | 1.49343 |
| vnz_16570 | 0.3959 | 0.2615 | 1.51376 |
| vnz_16575 | 0.3649 | 0.2681 | 1.36096 |
| vnz_16605 | 0.31995 | 0.2198 | 1.496385 |
| vnz_16610 | 10.677075 | 20.8777375 | 126.00074625 |
| vnz_16615 | 0.1635 | 0.1419 | 1.15199 |
| vnz_16620 | 0.2163 | 0.1408 | 1.53565 |
| vnz_16630 | 14.2645666666667 | 25.9101666666667 | 0.526173333333333 |
| vnz_16645 | 0.98502 | 1.83956 | 2.533184 |
| vnz_16650 | 3.26956666666667 | 3668.9935 | 0.0131366666666667 |
| vnz_16655 | 0.3314 | 0.1878 | 1.76443 |
| vnz_16660 | 4.69772 | 20.00782 | 1.292448 |

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| Gene | dN | dS | ω |
|-----------|--------------------|-------------------|-------------------|
| vnz_16665 | 1.75808 | 0.84564 | 5.914494 |
| vnz_16670 | 63.93428333333333 | 1.108666666666667 | 167.2630266666667 |
| vnz_16675 | 0.6321 | 0.2915 | 2.16812 |
| vnz_16680 | 0.2007 | 0.0993 | 2.02175 |
| vnz_16690 | 11.1391 | 0.833325 | 5.969655 |
| vnz_16695 | 84.0521 | 2.207 | 38.0843 |
| vnz_16700 | 3.43525 | 0.2626 | 9.124545 |
| vnz_16715 | 0.2602 | 0.1053 | 2.47073 |
| vnz_16720 | 0.2339 | 0.134 | 1.74554 |
| vnz_16725 | 1.217975 | 1.674725 | 1.2845875 |
| vnz_16730 | 0.2737 | 0.1387 | 1.97294 |
| vnz_16735 | 0.1325 | 0.07655 | 0.86519 |
| vnz_16740 | 18.7803 | 5.39855 | 143.975525 |
| vnz_16745 | 0.4841 | 0.418566666666667 | 1.335083333333333 |
| vnz_16750 | 0.4233 | 0.0004 | 999 |
| vnz_16765 | 0.85395 | 0.75495 | 1.091055 |
| vnz_16770 | 7.322366666666667 | 0.2973 | 11.90515333333333 |
| vnz_16775 | 0.4216 | 0.2612 | 1.6137 |
| vnz_16780 | 17.72634 | 350.28768 | 13.019508 |
| vnz_16810 | 7.63265 | 22401.044 | 7.548913 |
| vnz_16815 | 0.77065 | 0.58875 | 1.408508333333333 |
| vnz_16820 | 4.854 | 395.1182 | 0.01228 |
| vnz_16830 | 0.1043 | 0.0355 | 2.93789 |
| vnz_16835 | 5.555666666666667 | 0.766 | 115.21001 |
| vnz_16840 | 0.3348 | 0.1427 | 2.48323 |
| vnz_16845 | 0.2595 | 0.1633 | 1.58899 |
| vnz_16850 | 3.3129 | 74.42006666666667 | 1.428446666666667 |
| vnz_16860 | 12.4207642857143 | 204.752257142857 | 144.512687142857 |
| vnz_16865 | 0.2377 | 0.0952 | 2.49841 |
| vnz_16870 | 0.1646 | 2.48715 | 0.31984 |
| vnz_16875 | 0.954175 | 27.84095 | 0.940665 |
| vnz_16880 | 0.2683 | 0.1275 | 2.10527 |
| vnz_16885 | 1.42245 | 206.54815 | 0.759485 |
| vnz_16890 | 30.81745 | 0.17315 | 500.253335 |
| vnz_16895 | 0.4532 | 0.4656 | 0.97342 |
| vnz_16900 | 0.397466666666667 | 0.3199 | 1.45893 |
| vnz_16910 | 10.4188615384615 | 12.4187692307692 | 7.95060692307692 |
| vnz_16915 | 0.2365 | 0.0812 | 2.91257 |
| vnz_16940 | 11.4304875 | 1.1039 | 15.6152025 |
| vnz_16945 | 0.5635 | 0.3055 | 1.95992 |
| vnz_16950 | 0.379 | 0.0004 | 999 |
| vnz_16955 | 0.2809 | 0.1346 | 2.09114 |
| vnz_16960 | 1.1009 | 0.2702 | 500.50191 |
| vnz_16965 | 0.46798 | 0.27164 | 1.769934 |
| vnz_16970 | 0.1855 | 0.1168 | 1.58822 |
| vnz_16975 | 0.2958 | 0.1036 | 3.131335 |
| vnz_16980 | 0.3302333333333333 | 1.1917 | 1.795933333333333 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|---------------------|
| vnz_16990 | 0.1605 | 0.0764 | 2.10191 |
| vnz_16995 | 0.143 | 0.0618 | 2.31217 |
| vnz_17005 | 16.37975 | 2.62155 | 4.033485 |
| vnz_17015 | 0.4447 | 0.2686333333333333 | 1.77718 |
| vnz_17020 | 0.97601 | 0.72436 | 201.157572 |
| vnz_17025 | 46.6778 | 14.4486 | 4.12939 |
| vnz_17030 | 0.7149333333333333 | 0.3173 | 2.15182 |
| vnz_17035 | 0.55665 | 0.21455 | 2.779505 |
| vnz_17040 | NA | 4.466016666666667 | 167.8311616666667 |
| vnz_17045 | 0.3502 | 0.3008 | 1.16454 |
| vnz_17060 | 4.2765 | 16.2568076923077 | 79.19489 |
| vnz_17065 | 0.2648 | 0.0948 | 2.79253 |
| vnz_17080 | 0.36465 | 0.2815 | 1.555415 |
| vnz_17085 | 0.3257 | 0.1898 | 1.71613 |
| vnz_17090 | 0.2695 | 0.1663 | 1.62066 |
| vnz_17100 | 0.3723 | 0.2047 | 1.81825 |
| vnz_17105 | 0.3367 | 0.2225 | 1.51298 |
| vnz_17110 | 0.34085 | 0.0856 | 4.124755 |
| vnz_17120 | 2.7527 | 19.875133333333333 | 0.33873 |
| vnz_17140 | 1.6112333333333333 | 0.20795 | 666.3189883333333 |
| vnz_17145 | 6.3154 | NA | 0.6084966666666667 |
| vnz_17165 | 7.79804615384615 | 9.48705384615385 | 88.5797684615385 |
| vnz_17550 | 0.6699 | 11.4845 | 0.05833 |
| vnz_17555 | 0.222 | 63.1095 | 0.007735 |
| vnz_17560 | 0.872 | 16.0679125 | 0.13646 |
| vnz_17565 | 1.20448571428571 | NA | 0.126707142857143 |
| vnz_17570 | 2.0626 | 47.6449 | 0.04329 |
| vnz_17575 | 3.489725 | 8.4709125 | 1.7919875 |
| vnz_17580 | 3.610425 | 81.97855 | 124.96263625 |
| vnz_17585 | 0.8111666666666667 | 147.20493333333333 | 0.01409333333333333 |
| vnz_17590 | 1.253675 | 34.359775 | 0.2329958333333333 |
| vnz_17610 | 7.90324 | 71.76986 | 1.003182 |
| vnz_17615 | 1.6004 | 11.703566666666667 | 0.12162 |
| vnz_17620 | 0.2301 | 7.2472 | 0.03174 |
| vnz_17625 | 3.2370333333333333 | 63.16558333333333 | 0.3375816666666667 |
| vnz_17635 | 6.1986 | 5.097733333333333 | 333.19635 |
| vnz_17640 | 1.81876363636364 | 39.9553909090909 | 0.124955454545455 |
| vnz_17645 | 6.35708125 | 59.45146875 | 1.478385625 |
| vnz_17650 | 37.9123 | 50.8388285714286 | 9.56472428571429 |
| vnz_17655 | 2.4664 | 3.5163 | 0.7014 |
| vnz_17660 | 2.9917333333333333 | NA | 83.71930583333333 |
| vnz_17685 | 0.385 | 0.2654 | 1.45061 |
| vnz_17690 | 0.6097625 | 0.441225 | 1.5025425 |
| vnz_17695 | 24.5273 | 10.8062454545455 | 24.0808890909091 |
| vnz_17700 | 0.2692 | 0.1412 | 1.90727 |
| vnz_17705 | 0.40415 | 0.31305 | 1.29142 |
| vnz_17710 | 38.1031 | 0.26965 | 335.133685 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_17715 | 1.1528 | 0.3098 | 3.72065 |
| vnz_17720 | 0.5773 | 0.3704 | 1.5584 |
| vnz_17725 | 0.191866666666667 | 0.112366666666667 | 1.29461333333333 |
| vnz_17730 | 0.685414285714286 | 0.6893 | 1.48686428571429 |
| vnz_17735 | 6.3705 | 27.3691 | 0.97029 |
| vnz_17740 | 0.7585 | NA | 0.41014 |
| vnz_17745 | 1.58255 | 57.7897 | 0.782955 |
| vnz_17750 | 0.261033333333333 | 0.086966666666667 | 334.783313333333 |
| vnz_17765 | 0.666 | 0.5074 | 1.29318 |
| vnz_17770 | 2.67417142857143 | 80.0267285714286 | 1.96636714285714 |
| vnz_17780 | 0.2384 | 1.8897 | 0.12615 |
| vnz_17785 | 0.379 | 0.2371 | 1.59839 |
| vnz_17790 | 0.5037 | 2.3958 | 0.21026 |
| vnz_17795 | 27.4808333333333 | 0.6338 | 35.26903 |
| vnz_17805 | 0.2903 | 0.0965 | 3.0082 |
| vnz_17810 | 0.32125 | 0.1917 | 1.810435 |
| vnz_17815 | 2.83473333333333 | NA | 1.70259666666667 |
| vnz_17825 | 27.23965 | 9.871625 | 120.5192675 |
| vnz_17830 | 0.4216 | 0.2817 | 168.206788333333 |
| vnz_17840 | 0.29945 | 33.3849 | 0.613835 |
| vnz_17845 | 0.1761 | 0.095 | 1.8543 |
| vnz_17855 | 6.94175 | 1.9839625 | 127.47491875 |
| vnz_17860 | 0.31555 | 0.1381 | 2.507575 |
| vnz_17865 | 14.5602833333333 | 0.668483333333333 | 170.260863333333 |
| vnz_17875 | 0.344966666666667 | 15.424 | 1.90687 |
| vnz_17880 | 1.6362 | 0.3759 | 4.35229 |
| vnz_17885 | 0.351075 | 0.162575 | 2.8499225 |
| vnz_17900 | 0.2176 | 0.0985 | 2.20836 |
| vnz_17905 | 0.4737 | 0.334 | 1.41821 |
| vnz_17910 | 0.2695 | 0.1382 | 1.94979 |
| vnz_17915 | 9.11673333333333 | 0.257533333333333 | 28.2308933333333 |
| vnz_17930 | 0.801783333333333 | 0.4896 | 1.50392 |
| vnz_17935 | 1.62748333333333 | 1.14338333333333 | 1.71551833333333 |
| vnz_17945 | 4.685 | 560.7602 | 2.163392 |
| vnz_17950 | 0.606 | 0.4278 | 1.41655 |
| vnz_17955 | 5.96603333333333 | NA | 5.87613 |
| vnz_17960 | 16.4154363636364 | 2.15508181818182 | 94.5153418181818 |
| vnz_17965 | 7.12468571428571 | 1.7017 | 17.2412314285714 |
| vnz_17985 | 89.2827 | 1.5016 | 59.45641 |
| vnz_17995 | 17.7288 | 27.0602 | 0.65516 |
| vnz_18010 | 0.3627 | 0.1845 | 1.96548 |
| vnz_18030 | 20.865375 | 8.920275 | 256.3059575 |
| vnz_18040 | 0.16425 | 0.0971 | 0.84583 |
| vnz_18045 | 0.2135 | 0.1016 | 2.10054 |
| vnz_18050 | 0.1411 | 0.37305 | 1.39167 |
| vnz_18055 | 0.424166666666667 | 13.3614111111111 | 1.38129222222222 |
| vnz_18060 | 4.07262 | 12.39614 | 2.497926 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_18065 | 0.458466666666667 | 0.3656 | 1.32893333333333 |
| vnz_18070 | 2.960025 | 2.524425 | 1.010945 |
| vnz_18075 | 0.1496 | 0.0487 | 3.07489 |
| vnz_18080 | 0.9959 | 35.0794875 | 126.58444625 |
| vnz_18090 | 0 | 0 | 0 |
| vnz_18095 | 0.273 | 0.1437 | 1.89963 |
| vnz_18110 | 0.322 | 0.2006 | 1.60493 |
| vnz_18130 | 0.308725 | 28.585925 | 1.1924675 |
| vnz_18135 | NA | 409.665107692308 | 0.917073076923077 |
| vnz_18165 | 0.3925 | 0.2413 | 1.62696 |
| vnz_18170 | 1.3283 | 0.24765 | 7.40829 |
| vnz_18175 | 0.500766666666667 | 0.290566666666667 | 1.80403 |
| vnz_18180 | 0.5041 | 0.67135 | 0.6579 |
| vnz_18215 | 0.330428571428571 | 0.234 | 1.68261 |
| vnz_18220 | 0.6867 | 12.842825 | 1.5766775 |
| vnz_18225 | 0.8526 | 1114.199175 | 1.3054625 |
| vnz_18230 | 1.237366666666667 | 0.195733333333333 | 335.957923333333 |
| vnz_18235 | 0.5251 | 0.341675 | 1.65598 |
| vnz_18240 | 0.4001 | 0.1722 | 2.32396 |
| vnz_18245 | 9.96775454545454 | 19.4161545454545 | 24.2383463636364 |
| vnz_18255 | 0.3188 | 0.1417 | 2.24967 |
| vnz_18260 | 0.288233333333333 | NA | 1.29801 |
| vnz_18265 | 1.2163 | 0.72402 | 200.912256 |
| vnz_18280 | 0.2007 | 0.1546 | 1.29815 |
| vnz_18290 | 0.2195 | 0.1246 | 1.76122 |
| vnz_18295 | 0.6243 | 0.2987 | 201.062116 |
| vnz_18300 | 0.5615 | 0.2644 | 2.12352 |
| vnz_18305 | 1.9425 | 2.1614 | 0.89871 |
| vnz_18320 | 0.2158 | 0.1302 | 1.65771 |
| vnz_18325 | 12.10301 | 88.07695 | 105.707653 |
| vnz_18330 | 0.726325 | 1.601625 | 0.9503675 |
| vnz_18335 | 0.0933 | 0.0403 | 2.31458 |
| vnz_18350 | 0.2063 | 0.1228 | 1.68047 |
| vnz_18355 | 30.0649 | 0.7357 | 40.86517 |
| vnz_18365 | 14.7771444444444 | 0.714755555555556 | 137.730828888889 |
| vnz_18370 | 0.2267 | 0.1391 | 1.63012 |
| vnz_18375 | 0.2163 | 0.0712 | 3.03783 |
| vnz_18440 | 0.1933 | NA | 0.40053 |
| vnz_18445 | 0.397 | 0.3556 | 1.11626 |
| vnz_18450 | 0.2246 | 0.1063 | 2.11211 |
| vnz_18455 | 0.36855 | 0.32 | 1.323475 |
| vnz_18465 | 20.0398333333333 | 0.132033333333333 | 334.580966666667 |
| vnz_18470 | 0.666916666666667 | 0.803466666666667 | 167.296851666667 |
| vnz_18475 | NA | 22.3181588235294 | 182.212242352941 |
| vnz_18480 | NA | NA | 6.15308583333333 |
| vnz_18485 | 5.18955 | NA | 143.569103571429 |
| vnz_18490 | 3.08405714285714 | 11.447380952381 | 49.6260709523809 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_18495 | 10.02656 | 22.41146 | 202.927816 |
| vnz_18500 | 2.4816 | 3.0311 | 1.205145 |
| vnz_18525 | 0.2582 | 0.125 | 2.06527 |
| vnz_18530 | 0.2587 | 0.1403 | 1.8445 |
| vnz_18535 | 0.4275 | 0.1988 | 2.15067 |
| vnz_18540 | 0.2802 | 0.143 | 1.95944 |
| vnz_18560 | 3.34374285714286 | 6.03397619047619 | 49.6352823809524 |
| vnz_18565 | NA | 15.4144 | 0.4 |
| vnz_18570 | 40.3450666666667 | 1.26923333333333 | 35.6627433333333 |
| vnz_18615 | 0.4486 | 0.3541 | 1.26647 |
| vnz_18620 | 0.846366666666667 | 0.5603 | 1.61016666666667 |
| vnz_18650 | 0.8156 | 1.1156 | 0.73115 |
| vnz_18655 | 12.49579 | 7.67659 | 332.84643 |
| vnz_18660 | 1.614 | 1.5188 | 1.567275 |
| vnz_18665 | 1.0118 | 1.19975 | 1.218195 |
| vnz_18680 | 1.517 | 1.2737 | 500.061145 |
| vnz_18685 | 1.64695 | 1.23085 | 1.68415 |
| vnz_18730 | 0.37966 | 0.37898 | 1.25594 |
| vnz_18735 | 25.1232666666667 | 1.32496666666667 | 8.94928333333333 |
| vnz_18740 | 3.9352 | 0.0039 | 999 |
| vnz_18745 | 11.5345666666667 | NA | 1.09878 |
| vnz_18750 | 0.6232 | 0.403933333333333 | 1.54015333333333 |
| vnz_18760 | 26.0916 | 4.4808 | 5.82294 |
| vnz_18795 | 0.2354 | 0.1011 | 2.32887 |
| vnz_18890 | 5.17234 | 0.56942 | 105.513769 |
| vnz_18910 | 1.55936666666667 | 0.616433333333333 | 2.35561 |
| vnz_18920 | 8.21047333333333 | NA | 75.1389533333333 |
| vnz_18925 | 0.3357 | 0.1548 | 2.16804 |
| vnz_18930 | 3.9383 | 0.9198 | 4.28166 |
| vnz_18935 | 13.3801875 | NA | 73.5893629166667 |
| vnz_18940 | 12.989575 | 0.54645 | 10.3313475 |
| vnz_18960 | 0.28054 | 0.18652 | 200.940962 |
| vnz_18965 | 0.3627 | 0.19015 | 2.02091 |
| vnz_18970 | 0.35045 | 0.35125 | 1.00999 |
| vnz_18975 | 0.1909 | 0.14855 | 0.642585 |
| vnz_18995 | 0.2291 | 0.104 | 2.20296 |
| vnz_19000 | 0.4297 | 0.0736 | 252.905465 |
| vnz_19005 | 0.1997 | 0.17845 | 1.29873 |
| vnz_19010 | 2.96142666666667 | NA | 69.1709786666667 |
| vnz_19015 | 7.64927142857143 | 1.95727857142857 | 75.0578542857143 |
| vnz_19025 | 8.39675 | 1572.16705 | 0.8023525 |
| vnz_19060 | 0.1935 | 0.1048 | 1.84645 |
| vnz_19065 | 0.312 | 0.0926 | 3.36996 |
| vnz_19070 | 0.4194625 | 21.5184375 | 125.6870925 |
| vnz_19075 | 34.7526666666667 | 2.94788888888889 | 6.19226333333333 |
| vnz_19080 | 12.210475 | 1.026075 | 11.87224 |
| vnz_19085 | 32.77072 | 4.08784 | 205.412941 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_19090 | 0.2322 | 0.11245 | 2.05844 |
| vnz_19095 | 11.4044875 | 1624.5356 | 138.5135275 |
| vnz_19100 | 8.14587142857143 | 6.57936428571429 | 147.754755714286 |
| vnz_19105 | 0.3297 | 0.2133 | 1.5461 |
| vnz_19110 | 29.688475 | 433.64565 | 128.44453125 |
| vnz_19115 | 0.821525 | 0.078675 | 250.5656875 |
| vnz_19120 | 0.81288 | 1.98708 | 1.633474 |
| vnz_19125 | 0.4096 | 0.2503 | 1.6365 |
| vnz_19150 | 0.4001 | 0.231 | 1.860855 |
| vnz_19155 | 0.3211 | 0.1542 | 2.08233 |
| vnz_19160 | 2.94506 | 25.68792 | 1.15857 |
| vnz_19185 | 0.447557142857143 | 0.234985714285714 | 3.48179857142857 |
| vnz_19190 | 0.6479 | 25.9058444444444 | 1.30809666666667 |
| vnz_19195 | 0.41766 | 0.31032 | 1.411708 |
| vnz_19200 | 0.33672 | 0.39954 | 1.684878 |
| vnz_19205 | 1.4542 | 10.5647285714286 | 1.30787714285714 |
| vnz_19210 | 1.428325 | 4.99455 | 0.77439 |
| vnz_19215 | 0.49632 | 0.30002 | 1.573728 |
| vnz_19220 | NA | 16.9776 | 131.3784 |
| vnz_19225 | 0.2742 | 0.1401 | 1.95629 |
| vnz_19235 | 0.2377 | 0.1527 | 1.55629 |
| vnz_19240 | 0.596 | 0.4763 | 1.25127 |
| vnz_19245 | 0.266933333333333 | 0.143133333333333 | 1.25224333333333 |
| vnz_19260 | 0.2753 | 0.1247 | 2.20811 |
| vnz_19270 | 0.5694 | 18.59375 | 1.21213 |
| vnz_19275 | 0.88865 | 0.749 | 1.250525 |
| vnz_19280 | 3.6601 | 2.974775 | 4.2144375 |
| vnz_19340 | 13.46642 | 0.58072 | 259.55884 |
| vnz_19365 | 0.601 | 0.2105 | 2.85467 |
| vnz_19370 | 2.57533333333333 | NA | 1.62937333333333 |
| vnz_19375 | 0.086 | 0.0335 | 1.284005 |
| vnz_19405 | 0.969633333333333 | 0.4696 | 2.63642666666667 |
| vnz_19410 | 1.2739625 | 0.1727375 | 127.65809875 |
| vnz_19420 | 0.310333333333333 | 0.105133333333333 | 334.665346666667 |
| vnz_19425 | 0.2167 | 0.1747 | 1.24086 |
| vnz_19430 | 8.65058888888889 | 754.232211111111 | 8.25050111111111 |
| vnz_19435 | 0.31285 | 0.1564 | 1.975295 |
| vnz_19445 | 4.38038 | 1.02204 | 203.051088 |
| vnz_19450 | 1.63786666666667 | NA | 0.981616666666667 |
| vnz_19455 | 0.3862 | 0.1534 | 2.51675 |
| vnz_19460 | 2.20601428571429 | 2.89757857142857 | 2.34161928571429 |
| vnz_19470 | 0.5386 | 0.3492 | 1.54252 |
| vnz_19485 | 0.3474 | 0.1945 | 1.78633 |
| vnz_19495 | 0.5766 | 0.3483 | 1.65576 |
| vnz_19500 | 6.59676666666667 | 16.42125 | 167.264008333333 |
| vnz_19510 | 0.554533333333333 | 0.362366666666667 | 1.81707 |
| vnz_19515 | 0.254 | 0.12105 | 2.61966 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_19520 | 0.81935 | 0.2775 | 499.884715 |
| vnz_19525 | 0.46485 | 0.2566 | 1.884805 |
| vnz_19530 | 0.1118 | 0.0339 | 3.30134 |
| vnz_19535 | 0.2772333333333333 | 0.1573666666666667 | 2.077213333333333 |
| vnz_19540 | 0.5561 | 0.2875 | 1.93421 |
| vnz_19545 | 0.5051333333333333 | 0.4499 | 1.110613333333333 |
| vnz_19555 | 4.573133333333333 | 5.822366666666667 | 333.7979033333333 |
| vnz_19560 | 0.2377 | 0.0911 | 2.60939 |
| vnz_19570 | 0.193 | 0.0755 | 2.55603 |
| vnz_19575 | 0.2361666666666667 | 0.0998333333333333 | 3.885333333333333 |
| vnz_19580 | 0.0563 | 0.03465 | 1.64281 |
| vnz_19585 | 0.1626 | 0.1498 | 1.08552 |
| vnz_19590 | 0.3789 | 0.1909 | 1.98487 |
| vnz_19595 | 0.63675 | 0.3463 | 1.796275 |
| vnz_19600 | 0.2195 | 0.044 | 4.98578 |
| vnz_19605 | 0.4877 | 0.3456 | 1.41118 |
| vnz_19610 | 0.5052 | 0.3187333333333333 | 1.57944 |
| vnz_19615 | 0.2705 | 0.1676 | 1.61396 |
| vnz_19620 | 1.97786 | 43.44506 | 2.515031 |
| vnz_19625 | 0.2524 | 0.1859 | 1.35778 |
| vnz_19630 | 0.5069 | 0.3145 | 1.61186 |
| vnz_19635 | 2.0685 | 12.167066666666667 | 1.364216666666667 |
| vnz_19645 | 8.75625 | 3330.3479 | 1.1776 |
| vnz_19650 | 0.2181 | 0.1274 | 1.71184 |
| vnz_19655 | 0.4996 | 0.3529 | 1.41552 |
| vnz_19660 | 0.4407 | 0.263 | 1.67562 |
| vnz_19665 | 1.0598 | 0.2247333333333333 | 334.2841733333333 |
| vnz_19670 | 0.3144 | 0.2476 | 1.26957 |
| vnz_19685 | 6.43922 | 10.24212 | 200.483492 |
| vnz_19750 | 0.58045 | 0.3419 | 1.822585 |
| vnz_19760 | 29.2006 | 2.34675 | 7.27653 |
| vnz_19765 | 7.336033333333333 | 29.975166666666667 | 1.54918 |
| vnz_19775 | 0.2724 | 0.1593 | 1.71005 |
| vnz_19780 | 5.378183333333333 | 83.70258333333333 | 172.6018883333333 |
| vnz_19790 | 0.0918 | 0.0008 | 110.90946 |
| vnz_19795 | 0.2516 | 0.1097 | 2.29242 |
| vnz_19805 | 0.4145 | 0.2145 | 1.93218 |
| vnz_19820 | 0.31085 | 33.1482 | 0.75558 |
| vnz_19825 | 0.3454 | 0.2289 | 1.50892 |
| vnz_19830 | 0.1872666666666667 | 0.0842 | 1.76684 |
| vnz_19835 | 0.2517 | 0.1778 | 0.70776 |
| vnz_19840 | 0.4772 | 0.384 | 1.24282 |
| vnz_19845 | 17.8735 | 0.3555 | 50.27638 |
| vnz_19850 | 0.2605 | 0.1174 | 2.21899 |
| vnz_19855 | 0.2773 | 0.1825 | 1.51928 |
| vnz_19860 | 0.22135 | 0.1898 | 1.5812 |
| vnz_19865 | 0.3892 | 0.228 | 1.7074 |

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| Gene | dN | dS | ω |
|-----------|-------------------|---------------------|--------------------|
| vnz_19870 | 0.2141 | 0.0902 | 2.37356 |
| vnz_19875 | 0.3167 | 0.1907 | 1.66095 |
| vnz_19880 | 0.3318 | 0.1829 | 2.317155 |
| vnz_19885 | 0.1373 | 0.06373333333333333 | 1.9061933333333333 |
| vnz_19895 | 0.363 | 14.11572 | 1.517362 |
| vnz_19900 | 0.21055 | 0.1756 | 0.59952 |
| vnz_19905 | 0.39465 | 0.3244 | 1.217075 |
| vnz_19910 | NA | 24.93051666666667 | 4.994823333333333 |
| vnz_19915 | 0.4793 | 0.2484 | 1.92981 |
| vnz_19920 | 1.8594 | NA | 1.51729307692308 |
| vnz_19925 | 4.9996 | 1.788966666666667 | 2.003015 |
| vnz_19930 | 0.5217 | 0.5137 | 1.01562 |
| vnz_19935 | 0.214 | 0.1175 | 1.82087 |
| vnz_19940 | 1.412616666666667 | 0.19435 | 500.3472583333333 |
| vnz_19945 | 1.10205 | 1.3887 | 0.93472 |
| vnz_19955 | 19.9524 | NA | 16.5234285714286 |
| vnz_19960 | 0.244966666666667 | 0.145866666666667 | 334.0063666666667 |
| vnz_19965 | 11.704275 | 9.759675 | 1.6875725 |
| vnz_19970 | 4.52704615384615 | 233.908507692308 | NA |
| vnz_19980 | 23.86626666666667 | 2.28418888888889 | 125.342695555556 |
| vnz_20035 | 1.0789 | 0.2515 | 4.28924 |
| vnz_20040 | 5.58287142857143 | 3.84677619047619 | 11.0758757142857 |
| vnz_20050 | 12.99212 | 0.92836 | 228.878198 |
| vnz_20055 | 0.2634 | 0.0719 | 3.66091 |
| vnz_20060 | 0.3266 | 0.1399 | 2.33398 |
| vnz_20070 | 0.31565 | 0.13275 | 2.391275 |
| vnz_20075 | NA | NA | 194.245292058824 |
| vnz_20090 | 4.8425875 | 8.761475 | 126.87023 |
| vnz_20095 | 1.09281428571429 | 1.00862857142857 | 1.44382285714286 |
| vnz_20100 | 0.546666666666667 | 0.131766666666667 | 334.2587033333333 |
| vnz_20115 | 0.2895 | 0.1348 | 2.14769 |
| vnz_20120 | 0.9935 | 2.042 | 1.12488125 |
| vnz_20125 | 1.4301 | 10.6115 | 1.008555 |
| vnz_20135 | 0.3056 | 0.1044 | 2.92849 |
| vnz_20140 | 3.7705 | 68.638 | 0.05493 |
| vnz_20150 | 0.711385714285714 | 0.309942857142857 | 144.502272857143 |
| vnz_20160 | 5.7738 | NA | 0.44906 |
| vnz_20170 | 5.97643636363636 | 18.7753545454545 | 182.262708181818 |
| vnz_20175 | 0.475966666666667 | 0.515733333333333 | 3.49052333333333 |
| vnz_20180 | 0.468475 | 0.379775 | 1.22755 |
| vnz_20185 | 0.256 | 0.0501 | 5.10752 |
| vnz_20190 | 0.3374 | 0.1227 | 2.75022 |
| vnz_20195 | 0.3166 | 0.4326 | 0.73185 |
| vnz_20200 | 5.9878 | NA | 0.989296666666667 |
| vnz_20215 | 0.867466666666667 | 19.6110666666667 | 0.531523333333333 |
| vnz_20220 | 1.238366666666667 | 0.562966666666667 | 1.99193 |
| vnz_20230 | 1.2414 | 0.386525 | 252.422815 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_20235 | 3.01965 | 25.79345 | 46.06267 |
| vnz_20240 | 0.5722 | 1.5795 | 0.36226 |
| vnz_20245 | 9.2164 | 0.258966666666667 | 666.99408 |
| vnz_20350 | 0.2622 | 0.2184 | 1.519335 |
| vnz_20355 | 0.4234 | 0.2192 | 1.93189 |
| vnz_20360 | 8.77364615384615 | NA | 155.220607692308 |
| vnz_20365 | 0.3302 | 0.2421 | 1.36373 |
| vnz_20375 | 0.1997 | 0.1833 | 1.26656 |
| vnz_20380 | 28.0764 | 6436.5469 | 0.00436 |
| vnz_20385 | 17.48604 | 12.4664333333333 | 8.9266 |
| vnz_20390 | 4.1873 | 62.9843 | 0.3523925 |
| vnz_20395 | 0.29272 | 0.16162 | 2.025404 |
| vnz_20405 | 0.217 | 0.1155 | 1.8782 |
| vnz_20415 | 20.413775 | 0.5431 | 28.1849275 |
| vnz_20435 | 0.633733333333333 | 0.450566666666667 | 1.47109 |
| vnz_20440 | 6.18968 | NA | 101.151822 |
| vnz_20445 | 1.0769 | NA | 0.54018 |
| vnz_20450 | 0.09155 | 1.25115 | 1.794965 |
| vnz_20455 | 0.427933333333333 | 1.17363333333333 | 1.36110666666667 |
| vnz_20460 | 0.37135 | 0.1675 | 334.074496666667 |
| vnz_20500 | 0.1747 | 0.0938 | 1.86306 |
| vnz_20510 | 0.1774 | 0.1168 | 1.51843 |
| vnz_20515 | 7.09399473684211 | NA | 215.054652631579 |
| vnz_20525 | 1.41795 | 2.4143 | 0.75984 |
| vnz_20530 | 17.5996285714286 | 0.9546 | 32.1456685714286 |
| vnz_20535 | 6.31703333333333 | 5.77353333333333 | 0.855593333333333 |
| vnz_20550 | 10.9690428571429 | 1.11504285714286 | 193.034782857143 |
| vnz_20555 | 10.0227526315789 | 5.86298421052632 | 56.10563 |
| vnz_20560 | 11.5707416666667 | 206.722841666667 | 168.2160275 |
| vnz_20565 | 0.3688 | 0.1753 | 2.10357 |
| vnz_20570 | 0.3767 | 0.2555 | 1.47424 |
| vnz_20575 | 17.9659666666667 | 2.17863333333333 | 6.39312333333333 |
| vnz_20580 | 7.13364 | NA | 1.091248 |
| vnz_20590 | 0.3447 | 0.1835 | 1.87875 |
| vnz_20595 | 0.331 | 0.1676 | 1.97554 |
| vnz_20605 | 7.67534 | NA | 3.443486 |
| vnz_20610 | 0.3616 | 0.21165 | 1.719365 |
| vnz_20615 | 28.14005 | 0.8918 | 18.857225 |
| vnz_20620 | 0.484 | 0.3258 | 1.48563 |
| vnz_20635 | 0.3291 | 0.3056 | 1.07706 |
| vnz_20640 | 3.89248 | NA | 1.076714 |
| vnz_20645 | 0.2996 | 0.1474 | 2.03202 |
| vnz_20650 | 1.0686 | 0.6501 | 1.64386 |
| vnz_20665 | 1.3198 | 1.0788 | 1.22344 |
| vnz_20670 | 1.0347 | 31.23615 | 0.73142 |
| vnz_20675 | 0.353333333333333 | 0.336066666666667 | 1.51496333333333 |
| vnz_20700 | 2.79189090909091 | NA | 92.1104690909091 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_20705 | 5.04204444444444 | 11.24176666666667 | 1.87167111111111 |
| vnz_20710 | 9.407925 | 9.7197 | 250.75821 |
| vnz_20720 | 0.2335 | 0.0576 | 4.05504 |
| vnz_20725 | NA | 2.21861666666667 | 172.247928333333 |
| vnz_20730 | 3.79105714285714 | 30.6603285714286 | 143.916 |
| vnz_20735 | 1.57627142857143 | NA | 2.77097857142857 |
| vnz_20740 | 1.2314 | 1.3332 | 0.92364 |
| vnz_20750 | 0.4184 | 0.1984 | 2.10899 |
| vnz_20760 | 1.8082 | 28.1262 | 0.7284975 |
| vnz_20765 | 0.39886666666667 | 0.348933333333333 | 3.39242166666667 |
| vnz_20770 | 0.2595 | 0.0882 | 2.94321 |
| vnz_20780 | 0.3559 | 0.2963 | 1.20114 |
| vnz_20785 | 8.54965 | 0.156975 | 288.4883825 |
| vnz_20790 | 0.4592 | 0.4412 | 1.050905 |
| vnz_20795 | 13.1455 | 3.973175 | 1.65949 |
| vnz_20800 | 28.4906666666667 | 1.67466666666667 | 7.96548666666667 |
| vnz_20805 | 1.39871666666667 | 0.8412 | 1.52945666666667 |
| vnz_20810 | 0.454366666666667 | 834.3071 | 1.32296333333333 |
| vnz_20820 | 0.217 | 0.0814 | 2.66736 |
| vnz_20830 | 10.81466 | NA | 261.0145 |
| vnz_20850 | 0.2849 | 0.1835 | 1.55259 |
| vnz_20855 | 0.601728571428571 | 4.74318571428571 | 1.60555 |
| vnz_20860 | 0.403033333333333 | 0.375266666666667 | 333.520633333333 |
| vnz_20880 | 0.3162 | 0.1997 | 1.58352 |
| vnz_20885 | 1.63876 | 11.20324 | 100.735018 |
| vnz_20890 | 0.98055 | 3.84395 | 1.0026725 |
| vnz_20895 | 0.509075 | 0.280725 | 3.062305 |
| vnz_20900 | 1.15404 | 7.31999 | NA |
| vnz_20905 | 0.3603 | 0.2723 | 1.32327 |
| vnz_20910 | 0.942057142857143 | 1.1759 | 0.937462857142857 |
| vnz_20915 | 0.1467 | 0.1038 | 1.41327 |
| vnz_20920 | 0.338966666666667 | 0.558966666666667 | 1.16491333333333 |
| vnz_20925 | 0.266125 | 226.1585 | 1.2287275 |
| vnz_20935 | 0.313 | 0.0937 | 4.36328 |
| vnz_20940 | 11.5052375 | 37.4005 | 65.104789375 |
| vnz_20945 | 3.0744 | 2.126275 | 1.404085 |
| vnz_20950 | 0.20445 | 0.097325 | 1.781955 |
| vnz_20955 | 0.28835 | 0.1546 | 1.904875 |
| vnz_20960 | 28.378525 | 0.496625 | 102.90986 |
| vnz_20965 | 0.543666666666667 | 23.6522 | 0.865183333333333 |
| vnz_20970 | 0.6068 | 0.3404 | 1.7825 |
| vnz_20995 | 3.21504545454545 | 0.554663636363636 | 182.705808181818 |
| vnz_21000 | 4.99115 | NA | 1.340095 |
| vnz_21020 | 7.17741428571429 | 7.70801428571429 | 144.071027142857 |
| vnz_21025 | 0.43435 | 0.3317 | 6.679215 |
| vnz_21030 | 0.3887 | 0.265766666666667 | 1.46915 |
| vnz_21035 | 3.38775 | 35.55935 | 0.69319 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|-------------------|
| vnz_21040 | 0.4593333333333333 | 0.3049 | 2.3816 |
| vnz_21045 | 0.40905 | 0.16075 | 2.651375 |
| vnz_21050 | 0.29965 | 0.09315 | 3.385985 |
| vnz_21060 | 10.2745 | 3.5464 | 2.89716 |
| vnz_21065 | 3.1646 | NA | 1.556045 |
| vnz_21075 | 0.1823 | 0.0827 | 2.20393 |
| vnz_21095 | 11.04345 | 1.22545 | 499.584885 |
| vnz_21110 | 0.9053666666666667 | 0.9246666666666667 | 1.43628 |
| vnz_21140 | 15.521025 | 0.601425 | 38.936565 |
| vnz_21145 | 3.87915 | 1.087 | 168.498951666667 |
| vnz_21150 | 0.2228 | 0.06 | 500.82557 |
| vnz_21155 | 0.74745 | 4.449925 | 2.19734 |
| vnz_21160 | 0.2419 | 0.1314 | 334.267166666667 |
| vnz_21165 | 0.2193 | 0.1084 | 2.0225 |
| vnz_21175 | 0.7042 | 0.33605 | 1.876445 |
| vnz_21190 | 3.59125 | 2.00055 | 1.36417 |
| vnz_21195 | 1.07555714285714 | 1.26887142857143 | 0.987694285714286 |
| vnz_21200 | 11.892425 | 0.7854625 | 24.6125125 |
| vnz_21210 | 5.64866 | 0.90268 | 200.61865 |
| vnz_21215 | 0.7239 | 0.58368 | 1.468914 |
| vnz_21220 | 0.5847 | 0.5215 | 1.12133 |
| vnz_21225 | 3.1345375 | 48.04315 | 0.68296375 |
| vnz_21230 | 10.6099409090909 | 18.7531954545455 | 12.2397804545455 |
| vnz_21235 | 1.44823333333333 | 0.579366666666667 | 2.81028 |
| vnz_21245 | 0.3394 | 0.3047 | 1.11377 |
| vnz_21250 | 0.9207 | 0.9637 | 0.9449 |
| vnz_21255 | 7.68696 | 9.31878 | 100.492454 |
| vnz_21310 | 2.61093333333333 | 27.3434 | 333.105723333333 |
| vnz_21315 | 13.66008 | 3.2639 | 60.572138 |
| vnz_21340 | 1.3533 | 2.1306 | 0.63515 |
| vnz_21345 | 1.30991818181818 | 0.709872727272727 | 92.5302345454545 |
| vnz_21350 | 12.7282 | 3.5079 | 3.21102 |
| vnz_21365 | 0.429775 | 0.43405 | 1.23214 |
| vnz_21385 | 0.4951 | 0.2054 | 2.41038 |
| vnz_21390 | 0.6148 | 787.80195 | 0.45964 |
| vnz_21395 | 9.4606 | 0.50845 | 16.78476 |
| vnz_21405 | 0.6659 | 0.92765 | 1.07203 |
| vnz_21410 | 0.622466666666667 | 0.9757 | 1.29282 |
| vnz_21415 | 0.7079 | 0.414366666666667 | 1.71337333333333 |
| vnz_21420 | 0.783483333333333 | 0.24175 | 27.3073583333333 |
| vnz_21425 | 7.78944 | 0.1961 | 201.304324 |
| vnz_21435 | 0.261 | 0.0921 | 2.83424 |
| vnz_21440 | 0.1681 | 0.0908 | 1.85152 |
| vnz_21445 | 0.419233333333333 | 0.1688 | 235.653526666667 |
| vnz_21450 | 0.55575 | 0.36945 | 1.582315 |
| vnz_21455 | 0.2985 | 0.1487 | 2.00782 |
| vnz_21460 | 0.6537 | 31.6545 | 1.386905 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_21465 | 0.2873 | 0.162 | 1.77331 |
| vnz_21470 | 2.15465 | 7.04521 | 102.35003 |
| vnz_21475 | 6.89412857142857 | 2.29904285714286 | 1.68277857142857 |
| vnz_21500 | 0.3042 | 0.1774 | 1.71475 |
| vnz_21505 | 0.4717 | 0.17472 | 201.15512 |
| vnz_21510 | 0.2104 | 0.0627 | 3.45534 |
| vnz_21520 | 0.1236 | 0.08165 | 1.82858 |
| vnz_21525 | 0.0373 | 0 | NA |
| vnz_21550 | 9.05231875 | NA | 140.98019 |
| vnz_21555 | 1.52392 | 0.74006 | 200.583206 |
| vnz_21560 | 18.9970333333333 | 0.8965 | 402.369113333333 |
| vnz_21565 | 1.56783333333333 | 0.484833333333333 | 333.97057 |
| vnz_21575 | 18.92715 | 28.23975 | 0.887795 |
| vnz_21580 | 0.2267 | 0.0929 | 2.43965 |
| vnz_21585 | 1.0376 | 43.13575 | 0.66307 |
| vnz_21590 | 0.3694 | 0.1285 | 2.87358 |
| vnz_21595 | 28.8054666666667 | 5.65772222222222 | 124.247444444444 |
| vnz_21600 | 24.94615 | 7.1938 | 2.822325 |
| vnz_21605 | 16.80275 | 813.39447 | 207.432741 |
| vnz_21610 | 3.53165 | NA | 147.268855714286 |
| vnz_21615 | 0.3347 | 0.1894 | 1.7672 |
| vnz_21620 | 3.2045 | 97.146325 | 1.37545375 |
| vnz_21630 | 0.3485 | 0.1485 | 2.34762 |
| vnz_21640 | 0.7857 | 0.7283 | 1.411145 |
| vnz_21645 | 0.4203 | 0.275 | 1.5285 |
| vnz_21655 | 25.5506444444444 | NA | 8.47681 |
| vnz_21660 | 0.4425 | 0.30135 | 1.579495 |
| vnz_21670 | 3.28055 | 13.754 | 0.683035 |
| vnz_21675 | 0.4385 | 1.03665 | 0.839935 |
| vnz_21680 | 0.2239 | 0.0819 | 2.73211 |
| vnz_21690 | 0.3145 | 0.0003 | 999 |
| vnz_21695 | 0.4655 | 2.34775 | 0.745155 |
| vnz_21700 | 0.87212 | 0.6245 | 1.733512 |
| vnz_21705 | 0.49605 | 1.1085 | 0.9996 |
| vnz_21710 | 9.82426666666667 | 28.0432 | 3.73455666666667 |
| vnz_21715 | 4.20306666666667 | NA | 333.73084 |
| vnz_21720 | 0.3937 | 0.1255 | 3.13705 |
| vnz_21725 | 0.13965 | 0.00025 | 499.5 |
| vnz_21735 | 0.39415 | 0.1772 | 2.213425 |
| vnz_21740 | 0.372466666666667 | 0.203866666666667 | 2.47248666666667 |
| vnz_21745 | 0.72595 | 0.380775 | 2.048865 |
| vnz_21750 | 0.3759 | 0.2736 | 1.37419 |
| vnz_21775 | 0.4002 | 0.2597 | 1.54109 |
| vnz_21780 | 0.730366666666667 | 0.6771 | 333.844603333333 |
| vnz_21785 | 380.2846 | 9.43886666666667 | 15.8385 |
| vnz_21790 | 0.2097 | 0.1396 | 1.50205 |
| vnz_21795 | 0.35265 | 0.336 | 1.334225 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_21800 | 20.8798 | 6.075 | 2.382855 |
| vnz_21825 | 21.9252 | 13.12576666666667 | 8.998583333333333 |
| vnz_21875 | 0.2397 | 0.1023 | 2.34389 |
| vnz_21880 | 0.3015 | 0.1975 | 1.52626 |
| vnz_21885 | 11.83095 | 20.879025 | 171.1871408333333 |
| vnz_21890 | 13.5734 | 1.6629 | 8.815355 |
| vnz_21895 | 3.4807 | 0.4064666666666667 | 333.8400466666667 |
| vnz_21900 | 0.5695 | 0.5831 | 0.97654 |
| vnz_21905 | 0.3052 | 0.1835 | 1.66356 |
| vnz_21955 | 6.910966666666667 | 1.19045 | 2.516428333333333 |
| vnz_21960 | 1.473383333333333 | 0.39455 | 3.17639 |
| vnz_21965 | 24.10542 | 0.4934 | 21.282148 |
| vnz_21975 | 7.04075 | NA | 0.57416 |
| vnz_21985 | 0.98252 | 1.6481 | 0.87378 |
| vnz_21990 | 15.0942 | 0.967075 | 273.966445 |
| vnz_21995 | 0.3474 | 0.1628 | 2.1342 |
| vnz_22000 | 0.8586666666666667 | 397.5302 | 0.8454066666666667 |
| vnz_22015 | 0.29165 | 0.2166 | 1.385695 |
| vnz_22020 | 0.37355 | 0.2609 | 1.4902575 |
| vnz_22025 | 0.2063 | 0.139 | 1.4841 |
| vnz_22030 | 0.6311 | 0.4132833333333333 | 167.6196616666667 |
| vnz_22035 | 0.3488333333333333 | 0.1753666666666667 | 2.075553333333333 |
| vnz_22040 | 0.5246125 | 0.517675 | 1.38893625 |
| vnz_22045 | 0.1936 | 0.0712 | 2.71919 |
| vnz_22050 | 0.3393 | 0.1874 | 1.81039 |
| vnz_22055 | 0.6365 | 0.4315333333333333 | 1.533196666666667 |
| vnz_22065 | 7.726933333333333 | 4.420933333333333 | 1.93828 |
| vnz_22070 | 10.868275 | 0.437675 | 11.574805 |
| vnz_22075 | 19.7195 | 1.17932 | 46.396432 |
| vnz_22080 | 8.538625 | 6551.42355 | 1.06174 |
| vnz_22085 | 0.3263 | 0.20935 | 1.56059 |
| vnz_22090 | 6.74215 | 0.7327625 | 130.7023075 |
| vnz_22095 | 18.31319166666667 | 9.8625 | 111.8609925 |
| vnz_22100 | 0.72834 | 17.598 | 1.334986 |
| vnz_22105 | 0.2146 | 0.0002 | 999 |
| vnz_22110 | 0.48118 | 0.47132 | 1.59056 |
| vnz_22120 | 0.5297 | 0.2940666666666667 | 1.906073333333333 |
| vnz_22125 | 15.2291 | 7.33525 | 1.675975 |
| vnz_22130 | 12.0374071428571 | 2.87912857142857 | 100.981234285714 |
| vnz_22135 | 0.42935 | 0.20245 | 2.24568 |
| vnz_22140 | 0.2468 | 0.1415 | 1.74417 |
| vnz_22145 | 0.5395 | 0.6658666666666667 | 1.10514 |
| vnz_22150 | 0.3704666666666667 | 0.1909333333333333 | 2.04407 |
| vnz_22155 | 3.338766666666667 | 1.808633333333333 | 2.252446666666667 |
| vnz_22160 | 7.13293076923077 | 220.362207692308 | 231.258414615385 |
| vnz_22165 | 0.3071 | 0.1807 | 1.69979 |
| vnz_22175 | 0.6752 | 0.5707 | 1.18305 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_22180 | 1.69153333333333 | 6.27878333333333 | 2.94390333333333 |
| vnz_22185 | 0.8189 | 0.7493 | 1.09296 |
| vnz_22190 | 0.8614 | 0.3645 | 2.09125333333333 |
| vnz_22200 | 0.2758 | 0.1205 | 2.28955 |
| vnz_22205 | 1.0013 | 8.21354 | 0.880014 |
| vnz_22215 | 0.2613 | 0.0869 | 3.00664 |
| vnz_22235 | 0.4345 | 0.277 | 1.56872 |
| vnz_22240 | 0.288 | 0.233 | 1.23619 |
| vnz_22250 | 0.2673 | 0.1581 | 1.69047 |
| vnz_22260 | 12.2595 | 0.294575 | 250.9224225 |
| vnz_22270 | 0.803 | 1.09145 | 0.70531 |
| vnz_22275 | 33.13834 | NA | 7.113449 |
| vnz_22285 | 0.536366666666667 | 0.8318 | 333.517676666667 |
| vnz_22290 | 3.176225 | 2.39505 | 1.4169625 |
| vnz_22295 | 14.6166 | 0.501525 | 77.010965 |
| vnz_22300 | 0.9424 | 0.24025 | 3.921395 |
| vnz_22310 | 0.6696 | 1.65953333333333 | 0.81051333333333 |
| vnz_22315 | 0.415 | 0.00045 | 999 |
| vnz_22380 | 20.96272 | 6.53514 | 269.034746 |
| vnz_22395 | 8.42560625 | 1.3976875 | 131.657649375 |
| vnz_22400 | 1.13725 | 0.8291 | 1.55242 |
| vnz_22415 | 0.390525 | 12.4731 | 1.2526175 |
| vnz_22420 | 1.1863 | 1.029 | 1.15284 |
| vnz_22425 | 0.326 | 0.1719 | 1.89622 |
| vnz_22430 | 0.63356 | 0.34052 | 1.414982 |
| vnz_22435 | 0.2799 | 0.1452 | 1.92793 |
| vnz_22440 | 10.8775625 | 0.6946625 | 4.39264875 |
| vnz_22445 | 9.7635125 | NA | 1.5067925 |
| vnz_22450 | 0.850966666666667 | 0.676 | 1.50185 |
| vnz_22455 | 9.71056363636364 | 1.87305454545455 | 97.8784645454545 |
| vnz_22460 | 5.80573 | 2.45798 | 1.713768 |
| vnz_22465 | 14.59836 | 34.70947 | 26.289382 |
| vnz_22475 | 18.1522727272727 | 6.90213636363636 | 255.196656363636 |
| vnz_22480 | 9.96611111111111 | 3372.11593333333 | 1.26199777777778 |
| vnz_22485 | 11.7089 | 3.05017272727273 | 196.400084545455 |
| vnz_22490 | 9.12955 | 23.21275 | 0.65948 |
| vnz_22505 | 2.3356 | 0.1226 | 18.78749 |
| vnz_22510 | 0.33905 | 0.4018 | 1.133255 |
| vnz_22515 | NA | 1.75343333333333 | 2.12815 |
| vnz_22525 | 0.273866666666667 | 0.117966666666667 | 2.80172 |
| vnz_22530 | 0.187 | 0.0527 | 3.54642 |
| vnz_22545 | 0.364133333333333 | 0.2769 | 1.36581 |
| vnz_22550 | 0.1986 | 4.6192 | 0.04299 |
| vnz_22555 | 0.44875 | 0.5514 | 1.00812 |
| vnz_22560 | 0.5011 | 0.3808 | 1.31575 |
| vnz_22590 | 0.529 | 0.3166 | 1.67107 |
| vnz_22600 | 0.28235 | 0.1858 | 1.82723 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_22605 | 0.2285 | 0.0002 | 999 |
| vnz_22810 | 0.2036 | 0.0786 | 2.59032 |
| vnz_22815 | 0.467 | 0.2846 | 1.64087 |
| vnz_22835 | 0.274 | 0.1222 | 2.2421 |
| vnz_22840 | 0.2854 | 0.0358 | 500.758265 |
| vnz_22850 | 0.27295 | 0.2721 | 0.911625 |
| vnz_22855 | 0.5944333333333333 | 0.4823 | 1.992816666666667 |
| vnz_22865 | 2.99225 | NA | 2.329348333333333 |
| vnz_22870 | 0.1486 | 0.0663 | 2.24138 |
| vnz_22875 | 0.2917 | 0.1601 | 1.822 |
| vnz_22880 | 0.2159 | 0.0002 | 999 |
| vnz_22885 | 0.2454 | 0.0874 | 2.80654 |
| vnz_22900 | 0.259425 | 0.228625 | 1.2466075 |
| vnz_22905 | 0.7961 | 0.5615 | 1.44974 |
| vnz_22915 | 13.6941 | 0.4341 | 13.351526666666667 |
| vnz_22920 | 0.2221 | 0.0779 | 2.84953 |
| vnz_22925 | 0.2942 | 0.1738333333333333 | 1.67263 |
| vnz_22930 | 0.2226 | 0.0891 | 2.4991 |
| vnz_22935 | 10.8306 | 12.726525 | 250.8324425 |
| vnz_22945 | 13.07723125 | 330.27011875 | 70.82241875 |
| vnz_22950 | 0.98155 | 50.162775 | 1.867245 |
| vnz_22960 | 0.3296 | 0.1438 | 2.29252 |
| vnz_22965 | 0.2096333333333333 | 0.1237333333333333 | 1.16161 |
| vnz_22975 | 13.1036 | 4.276233333333333 | 9.046164444444444 |
| vnz_22990 | 2.55156 | NA | 201.557496 |
| vnz_22995 | 0.5079 | 0.3093 | 1.64213 |
| vnz_23000 | 0.2578 | 0.1836 | 1.40428 |
| vnz_23015 | NA | 7.09725 | 250.1717975 |
| vnz_23020 | 0.2303 | 0.1906 | 1.20845 |
| vnz_23025 | 15.6214 | 0.5195 | 30.07085 |
| vnz_23030 | 4.86676 | 5.90742 | 1.798378 |
| vnz_23035 | 0.39855 | 0.30835 | 1.37781 |
| vnz_23040 | 0.4418333333333333 | 0.3125666666666667 | 1.438966666666667 |
| vnz_23050 | 0.2751 | 0.1073 | 2.56399 |
| vnz_23055 | 6.365433333333333 | 28.89503333333333 | 333.63969 |
| vnz_23060 | 0.4353 | 0.3292 | 1.32242 |
| vnz_23065 | 0.1673 | 0.10495 | 0.79714 |
| vnz_23070 | 1.2347 | 19.58965 | 250.40714 |
| vnz_23075 | 1.06695 | 0.60385 | 3.439415 |
| vnz_23085 | 0.2415 | 0.1031 | 2.34102 |
| vnz_23090 | 3.647983333333333 | NA | 167.9113433333333 |
| vnz_23095 | 0.2778 | 0.1282 | 2.16687 |
| vnz_23100 | 0.410442857142857 | 0.1945 | 266.762762857143 |
| vnz_23110 | 0.4439 | 0.2528 | 1.75548 |
| vnz_23115 | 0.2519 | 0.09435 | 2.941865 |
| vnz_23120 | 37.56683333333333 | 9.3719 | 4.65648 |
| vnz_23125 | 1.618525 | 0.652925 | 3.0443425 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|---------------------|-----------------------|--------------------|
| vnz_23130 | 0.499 | 0.3336333333333333 | 1.5250433333333333 |
| vnz_23135 | 0.2026 | 0.0999 | 2.033505 |
| vnz_23255 | 0.1423 | 0.019 | 7.49522 |
| vnz_23260 | 2.6497333333333333 | NA | 1.6907566666666667 |
| vnz_23270 | 77.8748 | 19.2736 | 4.04049 |
| vnz_23275 | 0.3043 | 0.1426 | 2.13479 |
| vnz_23285 | 0.271 | 0.1563 | 1.73363 |
| vnz_23290 | 1.8572 | 0.0573 | 501.23607 |
| vnz_23295 | 3.6141363636363636 | NA | 0.9590518181818181 |
| vnz_23300 | 0.1315 | 0.0612 | 2.1494 |
| vnz_23305 | 0 | 0 | 0 |
| vnz_23310 | 0.5078333333333333 | 1.6696333333333333 | 1.8276366666666667 |
| vnz_23315 | 29.245575 | 15.08945 | 5.023955 |
| vnz_23320 | 10.274491666666667 | 15.700708333333333 | 20.226503333333333 |
| vnz_23330 | 0.19156666666666667 | 0.0784 | 2.64402 |
| vnz_23335 | 0.1739 | 0.0002 | 999 |
| vnz_23340 | 0.0899 | 0.0387 | 2.32392 |
| vnz_23395 | 0.1053 | 0.0146 | 7.20057 |
| vnz_23400 | 0.1166 | 0.0591 | 1.97467 |
| vnz_23405 | 0.2026 | 0.081 | 2.50135 |
| vnz_23435 | 22.2862 | 0.55705 | 20.00422 |
| vnz_23445 | 0.4897333333333333 | 0.3552666666666667 | 1.62321 |
| vnz_23450 | 0.4306 | 0.26935 | 1.609295 |
| vnz_23470 | 22.436708333333333 | 10.442891666666667 | 115.5155025 |
| vnz_23475 | 5.3712 | 1.7662 | 2.426246 |
| vnz_23480 | 1.0415 | 2900.3263 | 0.29811 |
| vnz_23495 | 1.0718 | 1.3746 | 1.26849 |
| vnz_23500 | 1.04441428571429 | 3.17371428571429 | 285.99618 |
| vnz_23515 | 14.2671625 | 2.79725 | 5.21421 |
| vnz_23520 | 8.0472 | 3.2689166666666667 | 167.63482333333333 |
| vnz_23525 | 0.6550333333333333 | 1.7429 | 0.2913033333333333 |
| vnz_23530 | 0.3119 | 65.5048 | 0.00476 |
| vnz_23535 | 0.66385 | 2.40495 | 251.19648 |
| vnz_23550 | 0.16253333333333333 | 0.10553333333333333 | 2.08937 |
| vnz_23555 | 8.157083333333333 | 56.20045 | 1.1911316666666667 |
| vnz_23560 | 0.1591 | 0.02155 | 9.89323 |
| vnz_23565 | 0.0587875 | 0.0072625 | NA |
| vnz_23570 | 0.0853 | 0.0453 | 201.315806 |
| vnz_23575 | 0.0643 | 0.0034333333333333333 | 335.7664066666667 |
| vnz_23580 | 0.1635 | 0.0591 | 2.76632 |
| vnz_23585 | 0.17045 | 0.07696666666666667 | NA |
| vnz_23595 | 0.20626666666666667 | 0.0991 | 3.20182 |
| vnz_23600 | 156.6622 | 2.325 | 67.3814 |
| vnz_23605 | 0.15431666666666667 | 0.07688333333333333 | 170.73116333333333 |
| vnz_23615 | 0.0606 | 0.109 | 0.55568 |
| vnz_23620 | 0.2757 | 0.1604 | 1.71844 |
| vnz_23635 | 17.3800142857143 | 1.21141428571429 | 28.8212671428571 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_23640 | 2.06922857142857 | 10.2590142857143 | 5.35374571428571 |
| vnz_23645 | 1.24742727272727 | 0.868154545454545 | 92.9079781818182 |
| vnz_23650 | 0.352966666666667 | 0.162033333333333 | 2.60764 |
| vnz_23655 | 0.2375 | 0.1574 | 1.5089 |
| vnz_23660 | 0.4739 | 0.2882 | 1.64453 |
| vnz_23665 | 0.2536 | 0.1119 | 2.26648 |
| vnz_23670 | 5.61221428571429 | 13.6952285714286 | 143.464007142857 |
| vnz_23675 | 6.67165 | 36.7407 | 167.804761666667 |
| vnz_23685 | 0.2389 | 0.1101 | 2.17043 |
| vnz_23695 | 6.8022375 | 5.87175 | 2.09603125 |
| vnz_23700 | 0.379233333333333 | 0.380266666666667 | 0.996776666666667 |
| vnz_23705 | 0.5689 | 0.6847 | 1.128142 |
| vnz_23710 | 0.38362 | 0.1895 | 2.371654 |
| vnz_23715 | 0.4452 | 0.3305 | 1.34721 |
| vnz_23720 | 0.3358 | 0.1812 | 1.85298 |
| vnz_23725 | 0.387 | 0.1952 | 1.98279 |
| vnz_23730 | 0.49085 | 0.37395 | 1.43647 |
| vnz_23735 | 0.3905 | 0.0906 | 334.652076666667 |
| vnz_23740 | 7.64523333333333 | 0.546333333333333 | 338.601073333333 |
| vnz_23745 | 31.676875 | NA | 15.9226725 |
| vnz_23750 | 0.98313 | 1.1052 | 1.224882 |
| vnz_23755 | 25.71678 | 0.83072 | 43.48293 |
| vnz_23760 | 9.82765 | 1.4139 | 4.617135 |
| vnz_23770 | 0.26585 | 0.0863 | 500.451255 |
| vnz_23775 | 0.65802 | 0.65478 | 1.650342 |
| vnz_23780 | 1.8778 | 1.2216 | 1.53717 |
| vnz_23785 | 0.1241 | 0.0689 | 1.8015 |
| vnz_23790 | NA | NA | 62.8184303448276 |
| vnz_23795 | 0.6743 | 0.4694 | 1.43658 |
| vnz_23800 | 0.5042 | 0.2889 | 1.74518 |
| vnz_23805 | 0.2678 | 0.0866 | 3.09261 |
| vnz_23810 | 0.577566666666667 | 40.8696333333333 | 0.922316666666667 |
| vnz_23815 | 0.2267 | 0.023 | 9.86957 |
| vnz_23820 | 0.1511 | 0.0063 | 24.11902 |
| vnz_23825 | 0.69815 | 0.0571 | 500.629435 |
| vnz_23830 | 0.18355 | 0.02355 | 500.994605 |
| vnz_23840 | 0.3167 | 0.1429 | 2.21678 |
| vnz_23845 | 0.309 | 0.260366666666667 | 1.53540666666667 |
| vnz_23850 | 0.2524 | 0.1169 | 2.1585 |
| vnz_23885 | 20.7301 | 2.48205 | 5.359 |
| vnz_23890 | 0.2268 | 0.0935 | 2.42435 |
| vnz_23895 | 8.9631 | 0.4357 | 7.463426 |
| vnz_23900 | 0.13195 | 0.1156 | 0.57075 |
| vnz_23905 | 0.587542857142857 | 0.381314285714286 | 1.99470428571429 |
| vnz_23910 | 0.43245 | 0.3476 | 1.28079 |
| vnz_23915 | 0.6204 | 0.629 | 0.98639 |
| vnz_23920 | 1.181925 | 0.63085 | 2.8069825 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_23925 | 6.27358 | 5.86298 | 1.334187 |
| vnz_23935 | 40.2115 | 2.0484 | 19.6306 |
| vnz_23940 | 0.5752 | 0.5317 | 1.0818 |
| vnz_23950 | 0.2687 | 0.2448 | 1.0973 |
| vnz_23960 | 0.5188 | 0.16245 | 251.048345 |
| vnz_23965 | 0.151175 | 0.078825 | 2.0398025 |
| vnz_23970 | 0.913275 | 0.23745 | 250.8773725 |
| vnz_23975 | 13.20532 | NA | 3.988658 |
| vnz_23980 | 16.4035285714286 | NA | 4.98659857142857 |
| vnz_23985 | 1.82605714285714 | NA | 285.910721428571 |
| vnz_23990 | 0.10645 | 0.03915 | 1.35954 |
| vnz_24005 | 27.02315 | 56.74175 | 0.491835 |
| vnz_24010 | 0.43966 | 0.302 | 1.606892 |
| vnz_24020 | 0.504233333333333 | 48.5717 | 1.02607 |
| vnz_24035 | 0.1821 | 0.1438 | 1.26575 |
| vnz_24040 | 0.7807 | 0.0008 | 999 |
| vnz_24045 | 0.5201 | 0.26235 | 1.73365 |
| vnz_24060 | 6.3164 | 2.98865 | 4.95625625 |
| vnz_24065 | 33.6284 | 76.698475 | 615.642085 |
| vnz_24070 | 0.233 | 0.158733333333333 | 1.50527333333333 |
| vnz_24075 | 0.1953 | 0.0644 | 3.03441 |
| vnz_24100 | 12.4135666666667 | 42.4188 | 333.615233333333 |
| vnz_24105 | 0.63365 | 0.4368 | 1.444855 |
| vnz_24110 | 0.6964 | 0.4984 | 1.39729 |
| vnz_24125 | 47.5335 | 1.12536666666667 | 314.306793333333 |
| vnz_24130 | 4.0028 | 29.03545 | 0.80702 |
| vnz_24140 | 9.75799166666667 | 8.34600833333333 | 5.558405 |
| vnz_24175 | 1.166225 | 41.711 | 1.2627625 |
| vnz_24185 | 1.3956 | 0.72975 | 1.81743 |
| vnz_24205 | 10.6601692307692 | 390.461630769231 | 5.80483384615385 |
| vnz_24210 | 0.378833333333333 | 55.3158333333333 | 1.02557333333333 |
| vnz_24230 | 0.265766666666667 | 0.2162 | 0.822146666666667 |
| vnz_24240 | 2.1654 | 19.326 | 1.48374666666667 |
| vnz_24245 | 0.33125 | 0.2236 | 1.48628 |
| vnz_24250 | 47.51294 | 1.02846 | 16.142586 |
| vnz_24255 | 1.22595 | 0.69725 | 335.414593333333 |
| vnz_24260 | 0.969433333333333 | 0.6564 | 335.397776666667 |
| vnz_24265 | 0.3077 | 0.0003 | 999 |
| vnz_24270 | 0.112 | 0.0616 | 1.81972 |
| vnz_24280 | 0.33715 | 0.363 | 1.31976 |
| vnz_24285 | 0.469175 | 1.327175 | 1.1832575 |
| vnz_24315 | 0.3183 | 0.1369 | 2.32562 |
| vnz_24320 | 0.65 | 0.5077 | 1.28041 |
| vnz_24335 | 4.1933 | 19.8636166666667 | 166.939036666667 |
| vnz_24345 | 0.3207 | 0.1139 | 2.81413 |
| vnz_24385 | 0.81185 | 0.97655 | 1.16269 |
| vnz_24390 | 0.4743 | 0.3247 | 1.4607 |

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| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_24395 | 0.97035 | 157.6969 | 499.50059 |
| vnz_24405 | 0.5008375 | 0.317625 | 1.9837175 |
| vnz_24410 | 0.402 | 0.2564 | 1.56808 |
| vnz_24420 | 0.5068 | 0.4759 | 1.0649 |
| vnz_24425 | 0.6065 | 0.76515 | 1.314255 |
| vnz_24430 | 12.50996 | 1.25426 | 201.865626 |
| vnz_24435 | 9.03895 | 33.35805 | 1.49783 |
| vnz_24450 | 1.0135333333333333 | 0.8392333333333333 | 1.092486666666667 |
| vnz_24455 | 0.72225 | 1.45875 | 0.69743 |
| vnz_24460 | NA | 22.7106 | 0.66006 |
| vnz_24465 | 0.5715 | 0.4947 | 1.15538 |
| vnz_24470 | 0.46895 | 0.37335 | 1.256325 |
| vnz_24475 | 0.2675 | 0.1344 | 1.96813 |
| vnz_24485 | 3.5082 | 9.29605 | 0.503745 |
| vnz_24490 | 6.67638571428571 | NA | 148.110248571429 |
| vnz_24495 | 0.3618666666666667 | 0.2942 | 1.395196666666667 |
| vnz_24500 | 0.54835 | 0.15945 | 500.29491 |
| vnz_24510 | 21.67725 | 16.55755 | 31.0851925 |
| vnz_24520 | 3.1430583333333333 | 4.8032333333333333 | 84.87644666666667 |
| vnz_24525 | 0.59685 | 0.60455 | 0.923065 |
| vnz_24530 | 0.8128333333333333 | 1.5055333333333333 | 0.9400916666666667 |
| vnz_24535 | 0.59795 | 0.62445 | 2.62985125 |
| vnz_24540 | 4.96038571428571 | 0.2797 | 145.057998571429 |
| vnz_24545 | 0.157 | 0.1012 | 1.55223 |
| vnz_24550 | 0 | 0 | 0 |
| vnz_24555 | 0.1733 | 0.107 | 1.61999 |
| vnz_24560 | 1.59185 | 20.3262 | 0.96673 |
| vnz_24565 | 0.5337 | 0.4538666666666667 | 1.35412 |
| vnz_24575 | 0.2565 | 0.0662 | 3.8754 |
| vnz_24580 | 0.2336 | 0.0801 | 2.91738 |
| vnz_24585 | 0.2511 | 0.0984 | 2.55216 |
| vnz_24595 | 1.36906 | 0.13354 | 204.591298 |
| vnz_24605 | 0.8602666666666667 | 1.2489 | 1.210316666666667 |
| vnz_24610 | 0.490375 | 0.18105 | 2.8628675 |
| vnz_24615 | 0.2384 | 0.0973 | 2.44995 |
| vnz_24620 | 0.60944 | 1.52292 | 201.171242 |
| vnz_24625 | 0.526814285714286 | 0.385385714285714 | 1.54345142857143 |
| vnz_24630 | 0.3549 | 0.0951 | 3.73267 |
| vnz_24635 | 0.3619 | 0.1543 | 2.34552 |
| vnz_24640 | 0.5515666666666667 | 0.5498 | 1.2031333333333333 |
| vnz_24645 | 0.22895 | 0.1206 | 1.91074 |
| vnz_24655 | 3.38505714285714 | 11679.4461 | 145.971471428571 |
| vnz_24665 | 0.3887 | 0.2676 | 1.393376666666667 |
| vnz_24670 | 50.8528 | 36.65472 | 28.343374 |
| vnz_24675 | 0.3153 | 0.2157 | 1.46156 |
| vnz_24685 | 12.40917222222222 | 6.172505555555556 | 123.8350716666667 |
| vnz_24690 | 8.33286 | 44.56116 | 1.69583 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_24695 | 0.5773 | 0.2261 | 2.55278 |
| vnz_24700 | 0.9372 | 0.4174 | 2.10027 |
| vnz_24705 | 0.2576 | 0.1981 | 1.30056 |
| vnz_24750 | 11.2502909090909 | 6.79361818181818 | 13.4772545454545 |
| vnz_24755 | 9.89515 | 18.0440125 | 11.73109625 |
| vnz_24760 | 0.65655 | 31.5332 | 0.9362775 |
| vnz_24765 | 6.1988 | 34.54498 | 1.100278 |
| vnz_24775 | 0.3142 | 0.2008 | 1.824375 |
| vnz_24780 | 0.3035 | 0.1683 | 1.8031 |
| vnz_24785 | 0.2843 | 0.1052 | 2.70165 |
| vnz_24790 | 2.08703333333333 | 94.7305333333333 | 1.20396 |
| vnz_24795 | 7.73581666666667 | 15.3010666666667 | 0.803725 |
| vnz_24800 | 1.244475 | 2.328475 | 0.84077 |
| vnz_24835 | 2.0657 | 0.7819 | 2.64204 |
| vnz_24840 | 9.52561666666667 | 548.937054166667 | 17.7350529166667 |
| vnz_24865 | 0.524266666666667 | 0.371733333333333 | 1.67984 |
| vnz_24870 | 6.56491666666667 | 224.183716666667 | 1.53791333333333 |
| vnz_24875 | 0.3142 | 0.1774 | 1.77096 |
| vnz_24880 | 16.92265 | 0.3588 | 276.0300625 |
| vnz_24885 | 0.1677 | 0.0686 | 2.44458 |
| vnz_24895 | 2.77083333333333 | 1.26143333333333 | 2.52120733333333 |
| vnz_24900 | 1.18353333333333 | NA | 4.18292 |
| vnz_24905 | 4.01954 | 6.28882 | 161.0075296 |
| vnz_24910 | 1.3555 | 2.95435 | 428.42402 |
| vnz_24915 | 1.87152 | 1.38236 | 1.355678 |
| vnz_24920 | 0.447166666666667 | 0.282733333333333 | 1.59116 |
| vnz_24925 | 0.2468 | 0.1262 | 1.95508 |
| vnz_24930 | 0.2965 | 0.1484 | 1.99776 |
| vnz_24935 | 0.466333333333333 | 102.3569 | 1.21640333333333 |
| vnz_24940 | 0.289933333333333 | 0.1672 | 1.88887666666667 |
| vnz_24945 | 5.05845 | 0.08385 | 500.15551 |
| vnz_24955 | 1.28627 | 27.45624 | 101.088702 |
| vnz_24970 | 1.21915 | 0.6398 | 2.63813 |
| vnz_24975 | 24.3115666666667 | 1.95476666666667 | 7.95765 |
| vnz_24980 | 2.3013 | 1.53075 | 1.702845 |
| vnz_24985 | 0.3045 | 0.231 | 1.31849 |
| vnz_24990 | 0.494 | 0.3483 | 1.41821 |
| vnz_24995 | 0.4441 | 0.2831 | 1.56893 |
| vnz_25000 | 0.661566666666667 | NA | 0.935693333333333 |
| vnz_25015 | 0.481533333333333 | 0.296566666666667 | 3.99025333333333 |
| vnz_25020 | 10.71472 | 21.90484 | 7.90026 |
| vnz_25025 | 0.440233333333333 | 0.3699 | 1.40709333333333 |
| vnz_25030 | NA | 2.13455 | 1.198275 |
| vnz_25035 | 19.6674 | 3.82595 | 4.687615 |
| vnz_25040 | 2.1354375 | 1.4775875 | 1.80388 |
| vnz_25045 | 0.8622 | 5.3875 | 0.16003 |
| vnz_25050 | 1.42245 | 1.74085 | 0.84432 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_25055 | 4.3276 | 0.98835 | 4.01669 |
| vnz_25060 | 33.6661 | 4.39525 | 4.38639 |
| vnz_25065 | 8.03922 | 10.24482 | 1.403484 |
| vnz_25070 | 1.3675 | 1.60086666666667 | 0.847256666666667 |
| vnz_25075 | 8.14646666666667 | 1.36385 | 167.438911666667 |
| vnz_25080 | 3.7409 | 1.04635 | 3.944085 |
| vnz_25085 | 0 | 0 | 0 |
| vnz_25095 | 0.1953 | 0.1176 | 1.66148 |
| vnz_25100 | 3.32952857142857 | NA | 0.946272857142857 |
| vnz_25105 | 11.53326 | 1.3494 | 9.774718 |
| vnz_25110 | 0.1419 | 0.0808 | 1.7566 |
| vnz_25115 | 0.3046 | 0.1555 | 1.95898 |
| vnz_25120 | 0.782757142857143 | 0.711242857142857 | 1.05870714285714 |
| vnz_25125 | 0.626633333333333 | 1.2388 | 0.592503333333333 |
| vnz_25130 | 1.0377 | 0.705033333333333 | 1.66657 |
| vnz_25145 | 0.4402 | 0.484933333333333 | 0.924866666666667 |
| vnz_25150 | 18.9485545454545 | 3.08741818181818 | 42.6441436363636 |
| vnz_25170 | 8.247475 | NA | 1.3009375 |
| vnz_25175 | 0.3458 | 0.1019 | 3.39167 |
| vnz_25180 | 10.7804888888889 | NA | 58.9487961111111 |
| vnz_25185 | 1.0027 | 17.2829666666667 | 1.08951333333333 |
| vnz_25190 | 3.579 | 0.187275 | 251.004625 |
| vnz_25195 | 0.30808 | 0.14554 | 47.511838 |
| vnz_25215 | 16.9311333333333 | 0.681033333333333 | 10.8457133333333 |
| vnz_25225 | 0.606633333333333 | 0.462866666666667 | 1.54632333333333 |
| vnz_25230 | 2.00338888888889 | 3.14753333333333 | 1.43466 |
| vnz_25235 | 0.296233333333333 | 0.1972 | 1.52947333333333 |
| vnz_25245 | 6.39561764705882 | 2.11001764705882 | 61.3904911764706 |
| vnz_25250 | 10.6452235294118 | 8.82954117647059 | 238.839485294118 |
| vnz_25255 | 5.44906 | NA | 0.965214 |
| vnz_25260 | 69.96225 | 19.45965 | 28.30488 |
| vnz_25325 | 0.6073 | 0.4724 | 1.28553 |
| vnz_25330 | 0.5903 | 0.546 | 1.08119 |
| vnz_25335 | 0.4584 | 0.2615 | 1.7528 |
| vnz_25340 | 5.60836666666667 | 0.6365 | 6.20478 |
| vnz_25345 | 0.80075 | 0.73445 | 1.142285 |
| vnz_25355 | 9.8251 | 1.0902 | 9.01257 |
| vnz_25360 | 0 | NA | 0 |
| vnz_25370 | 0.395125 | NA | 1.8653125 |
| vnz_25375 | 0.45892 | 0.37571 | 200.874744 |
| vnz_25380 | 3.20018 | 0.16046 | 201.10881 |
| vnz_25385 | 0.4122 | 0.3235 | 1.27393 |
| vnz_25390 | 0.2725 | 0.1247 | 2.18597 |
| vnz_25405 | 0.865471428571429 | 1.15497142857143 | 1.41679 |
| vnz_25410 | 0.3871 | 0.2803 | 1.38112 |
| vnz_25415 | 8.52763846153846 | 1.48279230769231 | 4.53332615384615 |
| vnz_25420 | 0.445833333333333 | 0.305333333333333 | 2.47033666666667 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_25435 | 1.57761818181818 | 5.51807272727273 | 92.71882 |
| vnz_25440 | 3.13245 | 22.9137428571429 | 1.49335357142857 |
| vnz_25445 | 5.75004666666667 | 0.53366 | 269.697201333333 |
| vnz_25450 | 9.61509411764706 | 6.57526470588235 | 61.2714682352941 |
| vnz_25455 | 6.7141875 | 0.7957125 | 5.023085 |
| vnz_25460 | 0.63885 | 0.501875 | 1.8361575 |
| vnz_25465 | 0.2381 | 0.1422 | 1.6748 |
| vnz_25470 | 0.3845 | 0.39365 | 1.289015 |
| vnz_25475 | 0.2405 | 0.1631 | 1.47481 |
| vnz_25480 | 0.1897 | 0.1115 | 1.70196 |
| vnz_25485 | 0.2466 | 0.0968 | 2.5489 |
| vnz_25490 | 0.367133333333333 | 0.223633333333333 | 1.64261666666667 |
| vnz_25495 | 0.5891 | 0.40275 | 1.48536 |
| vnz_25500 | 0.54105 | 0.2974 | 1.76882 |
| vnz_25510 | 0.42275 | 0.21945 | 2.30736 |
| vnz_25515 | 4.02674285714286 | 1.25797142857143 | 2.38138142857143 |
| vnz_25545 | 0.69715 | 0.39565 | 1.7793175 |
| vnz_25550 | 0.2997 | 0.1474 | 2.03369 |
| vnz_25555 | 0.47015 | 0.4401 | 2.357065 |
| vnz_25560 | 8.1308 | 1.30421666666667 | 10.4165616666667 |
| vnz_25565 | 1.2217 | 0.6258 | 1.95231 |
| vnz_25570 | 0.2898 | 0.1438 | 2.01545 |
| vnz_25575 | 2.0158 | 0.583 | 3.45758 |
| vnz_25580 | 0.2511 | 0.2083 | 1.2052 |
| vnz_25585 | 0.2406 | 0.114 | 2.11158 |
| vnz_25590 | 11.01738 | NA | 200.431586 |
| vnz_25595 | 0.5953 | 0.37574 | 2.591344 |
| vnz_25600 | 8.466725 | 4.13505 | 3.941935 |
| vnz_25605 | 21.5630166666667 | 1.36955 | 171.507241666667 |
| vnz_25610 | 50.2212 | 18.7351 | 2.68059 |
| vnz_25615 | 14.018055 | 2.47738 | 82.932672 |
| vnz_25620 | 0.1976 | 0.0962 | 2.05463 |
| vnz_25625 | 12.127275 | 2981.68465 | 5.1699325 |
| vnz_25630 | 0.547966666666667 | 0.2098 | 2.22092 |
| vnz_25635 | 0.33695 | 19.15685 | 126.279945 |
| vnz_25640 | 0.3048 | 0.1245 | 2.44789 |
| vnz_25645 | 60.8575 | 0.0609 | 999 |
| vnz_25650 | 0.285 | 0.1524 | 1.86967 |
| vnz_25655 | 0.2816 | 0.1777 | 1.58462 |
| vnz_25660 | 0.710566666666667 | 0.449266666666667 | 1.57385 |
| vnz_25665 | 0.68875 | 0.24715 | 500.029055 |
| vnz_25680 | 0.5874 | 0.6019 | 0.97593 |
| vnz_25685 | 0.4806 | 0.26245 | 2.0710425 |
| vnz_25690 | 1.069 | 0.3597 | 2.97162 |
| vnz_25695 | 0.3688 | 0.225 | 1.63895 |
| vnz_25700 | 3.5255125 | 9.7928625 | 125.76768 |
| vnz_25705 | 5.64726 | 6.05076 | 201.137268 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_25710 | 2.45508 | 0.918 | 1.928782 |
| vnz_25715 | 16.246975 | 0.764325 | 9.04385 |
| vnz_25720 | 0.427 | 0.2126 | 2.00888 |
| vnz_25725 | 0.2728 | 0.0866 | 3.15074 |
| vnz_25730 | 10.0385142857143 | 5.53068571428571 | 4.95328142857143 |
| vnz_25735 | 0.3043 | 0.3422 | 1.32446 |
| vnz_25740 | 0.4622 | 0.4265 | 1.08365 |
| vnz_25745 | 10.6864571428571 | 4.35475714285714 | 2.15478714285714 |
| vnz_25750 | 0.57806 | 0.31832 | 1.988688 |
| vnz_25755 | 20.6206666666667 | 0.452166666666667 | 27.70786 |
| vnz_25760 | 1.52525 | 1.0675 | 1.59002 |
| vnz_25765 | 0.29785 | 0.17025 | 1.902755 |
| vnz_25770 | 2.3237 | 9.0142 | 0.25778 |
| vnz_25775 | 0.333 | 0.1748 | 1.90526 |
| vnz_25780 | 0.3318 | 0.1273 | 2.60593 |
| vnz_25795 | 0.2761 | 0.1043 | 2.79447 |
| vnz_25800 | 0.2505 | 0.114 | 2.62047 |
| vnz_25805 | 0.692222222222222 | 0.530644444444444 | 1.77150666666667 |
| vnz_25810 | 0.3234 | 0.0976 | 3.31165 |
| vnz_25815 | NA | 0.953933333333333 | 1.54409 |
| vnz_25820 | 0.7783 | 5.95746666666667 | 0.962843333333333 |
| vnz_25825 | 0.459633333333333 | 1.4314 | 0.486616666666667 |
| vnz_25840 | 0.2321 | 0.1764 | 1.31585 |
| vnz_25845 | 0.3086 | 0.1601 | 1.92772 |
| vnz_25850 | 0.391 | 0.2395 | 1.63252 |
| vnz_25855 | 31.44955 | 4.5606 | 7.220145 |
| vnz_25860 | 0.3792 | 0.207688888888889 | 112.525157777778 |
| vnz_25865 | 0.3701 | 0.2539 | 1.45786 |
| vnz_25870 | 0.3349 | 0.3498 | 0.95741 |
| vnz_25875 | 0.2861 | 0.2008 | 1.42474 |
| vnz_25880 | 0.4415 | 0.3061 | 1.57299666666667 |
| vnz_25895 | 0.2872 | 0.132066666666667 | 2.40673333333333 |
| vnz_25900 | 0.3845 | 0.2163 | 1.77742 |
| vnz_25930 | 0.2766 | 0.1238 | 2.23453 |
| vnz_25935 | 0.2271 | 0.1281 | 1.77319 |
| vnz_25945 | 0.3973 | 0.2488 | 1.59672 |
| vnz_25950 | 0.3335 | 0.1411 | 2.36409 |
| vnz_25955 | 0.3048 | 0.0003 | 999 |
| vnz_25960 | 0.4072 | 0.388 | 1.17759 |
| vnz_25965 | 0.2946 | 0.0054 | 508.09875 |
| vnz_25970 | 2.13085 | 2.02428333333333 | 168.303883333333 |
| vnz_25975 | 8.613025 | 4038.955775 | 0.911375 |
| vnz_25980 | 0.3812 | 0.2181 | 1.74793 |
| vnz_25985 | 0.37465 | 0.9943 | 0.53722 |
| vnz_25990 | 13.4703333333333 | 0.130766666666667 | 334.80404 |
| vnz_25995 | 0.2986 | 0.1787 | 1.67076 |
| vnz_26010 | 0.1861 | 0.0948 | 1.96379 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_26015 | 0.7872 | NA | 0.40023 |
| vnz_26030 | 0.7629 | 0.1985 | 3.84388 |
| vnz_26035 | 0.5219 | 0.2802 | 1.86263 |
| vnz_26040 | 0.222866666666667 | 1.62043333333333 | 1.09737333333333 |
| vnz_26045 | 0.2706 | 0.47055 | 1.374255 |
| vnz_26050 | 0.23985 | 0.10675 | 1.12352 |
| vnz_26055 | 0.2347 | 0.1047 | 2.24253 |
| vnz_26060 | 0.619625 | 7.714225 | 1.7734975 |
| vnz_26065 | 0.70875 | 0.49725 | 1.464335 |
| vnz_26070 | 0.95725 | 30.5347 | 0.015675 |
| vnz_26075 | 0.571933333333333 | 0.501066666666667 | 1.16152666666667 |
| vnz_26080 | NA | 0.167775 | NA |
| vnz_26085 | 0.4746 | 0.261 | 1.81855 |
| vnz_26090 | 0.2508 | 0.1156 | 2.16905 |
| vnz_26095 | 0.20635 | 0.08075 | 2.528715 |
| vnz_26100 | 1.70196666666667 | 3.93436666666667 | 0.712253333333333 |
| vnz_26105 | 144.549033333333 | 10.6982 | 334.298498333333 |
| vnz_26110 | 0.4208 | 0.23685 | 1.81305 |
| vnz_26115 | 0.3249 | 0.1902 | 1.70785 |
| vnz_26120 | 0.36325 | 0.2559 | 1.604795 |
| vnz_26125 | 0.4383 | 0.30265 | 1.463475 |
| vnz_26130 | 0.4968 | 0.284925 | 1.92534 |
| vnz_26135 | 31.22675 | 0.2807 | 66.438595 |
| vnz_26140 | 2.33995 | NA | 1.23623 |
| vnz_26145 | 0.3323 | 0.2063 | 1.61072 |
| vnz_26155 | 0.2147 | 0.1633 | 1.31506 |
| vnz_26160 | 0.8818 | 0.547266666666667 | 1.80175 |
| vnz_26165 | 10.9441666666667 | 4.96363333333333 | 333.469876666667 |
| vnz_26170 | 1.05445 | NA | 1.14302 |
| vnz_26175 | 0.5633 | 0.1699 | 3.3149 |
| vnz_26180 | 0.2404 | 0.0957 | 2.51225 |
| vnz_26185 | 0.2654 | 0.0585 | 4.53713 |
| vnz_26195 | 7.81258333333333 | 1.39488333333333 | 4.74702166666667 |
| vnz_26200 | NA | 19.574125 | 5.7287675 |
| vnz_26205 | 8.16279333333333 | NA | 4.98454666666667 |
| vnz_26210 | 0.748 | 0.5814 | 1.30729333333333 |
| vnz_26215 | 0.168 | 0.0154 | 10.91107 |
| vnz_26350 | 0.3363 | 0.230433333333333 | 1.46801666666667 |
| vnz_26355 | 0.1737 | 0.0971 | 1.788 |
| vnz_26360 | 0.3924 | 0.3243 | 1.20991 |
| vnz_26365 | 0.2231 | 0.0985 | 2.26606 |
| vnz_26370 | 31.334 | 0.0314 | 999 |
| vnz_26375 | 0.79406 | 0.71882 | 1.136534 |
| vnz_26380 | 0.4505 | 0.332675 | 1.3742875 |
| vnz_26385 | 0.54265 | 1.63095 | 0.16636 |
| vnz_26390 | 2.70542222222222 | 0.638777777777778 | 111.898233333333 |
| vnz_26395 | 0.32835 | NA | 1.36361 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_26400 | 7.06058571428571 | 212.063433333333 | 97.2752566666667 |
| vnz_26405 | 0.2721 | 0.1756 | 1.54948 |
| vnz_26410 | 0.2351 | 0.1523 | 1.54383 |
| vnz_26415 | 14.2845916666667 | 3.882275 | 2.44423166666667 |
| vnz_26420 | 0.6557 | 0.46585 | 1.655465 |
| vnz_26430 | 0.4885 | 0.353 | 1.38369 |
| vnz_26435 | 0.2815 | 0.1476 | 1.90675 |
| vnz_26440 | 0.783933333333333 | 1.31745 | 1.20426833333333 |
| vnz_26450 | 1.18916666666667 | 14.9505833333333 | 0.83497 |
| vnz_26455 | 0.650866666666667 | 0.390666666666667 | 2.20924 |
| vnz_26460 | 0.47195 | 1.07401666666667 | 1.03011 |
| vnz_26480 | 0.42492 | NA | 1.36887 |
| vnz_26485 | 0.48145 | 1.52635 | 0.95641 |
| vnz_26490 | 0.3479 | 0.1825 | 1.90665 |
| vnz_26495 | 0.3845 | 0.2358 | 1.63083 |
| vnz_26500 | 0.866425 | 0.650875 | 2.75742 |
| vnz_26505 | 0.36765 | 0.2411 | 1.5675 |
| vnz_26515 | 11.51414 | 40.55064 | 205.793586 |
| vnz_26600 | 0.8144 | 0.6196 | 1.24970666666667 |
| vnz_26605 | 8.83575 | 10.472225 | 1.3875475 |
| vnz_26625 | 1.52209166666667 | 0.987566666666667 | 168.687391666667 |
| vnz_26630 | 2.07622 | 26.74218 | 10.452193 |
| vnz_26640 | 10.120325 | 0.433175 | 10.17952 |
| vnz_26645 | 0.17595 | 0.06385 | 2.745335 |
| vnz_26650 | 0.2063 | 0.082 | 2.5159 |
| vnz_26655 | 15.5472 | 0.95505 | 9.799995 |
| vnz_26660 | 0.3675 | 0.1516 | 2.42409 |
| vnz_26670 | 0.8332 | 0.6414 | 1.29911 |
| vnz_26675 | 13.5222 | 0.921833333333333 | 15.7262566666667 |
| vnz_26680 | 0.311657142857143 | NA | 286.276982857143 |
| vnz_26705 | 0.515385714285714 | 2998.48911428571 | 1.16198571428571 |
| vnz_26710 | NA | 1.87562941176471 | 2.35751411764706 |
| vnz_26715 | 0.1896 | 0.0908 | 2.08674 |
| vnz_26720 | 2.14606666666667 | 0.5261 | 4.40407 |
| vnz_26725 | 58.77745 | 6.0759125 | 20.08901 |
| vnz_26730 | 0.2441 | 0.124666666666667 | 2.51107 |
| vnz_26735 | 0.3177 | 0.2405 | 1.32072 |
| vnz_26740 | 0.702166666666667 | 0.359233333333333 | 2.35577 |
| vnz_26745 | 0.4583 | 0.1758 | 2.60632 |
| vnz_26755 | 0.48325 | 0.24625 | 2.041425 |
| vnz_26760 | 0.374842857142857 | 0.940471428571429 | 0.959955714285714 |
| vnz_26775 | 2.2044 | NA | 0.22645 |
| vnz_26780 | 0.1175 | 0.01165 | 5.04771 |
| vnz_26785 | 0.1656 | 0.069 | 2.40002 |
| vnz_26790 | 0.2139 | 0.1098 | 1.94867 |
| vnz_26820 | 0.249675 | 0.101 | 2.510415 |
| vnz_26825 | 2.26125 | NA | 1.0318925 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_26840 | 0.1919 | 0.099 | 1.93844 |
| vnz_26845 | 0.53705 | 0.0889 | 5.424525 |
| vnz_26870 | 0.3318 | 0.3513 | 0.94446 |
| vnz_26875 | 0.539466666666667 | 0.415233333333333 | 1.45584333333333 |
| vnz_26880 | 22.34025 | 2.054025 | 136.431725 |
| vnz_26885 | NA | NA | NA |
| vnz_26890 | 9.3972 | 0.8315 | 8.87484 |
| vnz_26895 | 0.2214 | 0.1067 | 2.07575 |
| vnz_26900 | 1.7721 | 0.84855 | 2.712685 |
| vnz_26905 | 0.2592 | 0.1406 | 1.84337 |
| vnz_26910 | 0.1823 | 0.1122 | 1.62513 |
| vnz_26935 | 7.028175 | 0.6666375 | 134.03917125 |
| vnz_26960 | 0.0003 | 2.8624 | 0.0001 |
| vnz_26965 | 0.3122 | 0.1582 | 1.97315 |
| vnz_26970 | 0.3517 | 0.133 | 2.64348 |
| vnz_26975 | 6.5445 | 1.09371666666667 | 168.631511666667 |
| vnz_26980 | 0.59645 | 0.46035 | 1.27971 |
| vnz_26985 | 0.43905 | 0.1642 | 3.10264 |
| vnz_26995 | 0.4432625 | 0.51255 | 1.45665875 |
| vnz_27000 | 0.2133 | 0.0708 | 3.01314 |
| vnz_27005 | 0.64395 | 0.30755 | 2.11235 |
| vnz_27010 | 0.44625 | 0.43915 | 1.400775 |
| vnz_27015 | 0.4375 | 0.2564 | 1.70597 |
| vnz_27020 | 0.362433333333333 | 0.3144 | 1.39661333333333 |
| vnz_27025 | 0.2618 | 0.1183 | 2.21258 |
| vnz_27030 | 12.791065 | 189.068545 | 56.948512 |
| vnz_27035 | 0.3994 | 0.4285 | 0.93217 |
| vnz_27040 | 0.3016 | 0.178 | 1.69416 |
| vnz_27050 | 0.780133333333333 | 7.96323333333333 | 0.838795 |
| vnz_27065 | 0.324 | 0.2183 | 1.48471 |
| vnz_27070 | 8.20348333333333 | 3298.27856666667 | 1.43681666666667 |
| vnz_27075 | 0.3142 | 0.224 | 1.40282 |
| vnz_27100 | 0.512333333333333 | 0.278566666666667 | 2.02055666666667 |
| vnz_27105 | 0.315366666666667 | 0.211666666666667 | 2.25426 |
| vnz_27110 | 3.02567142857143 | 4.94942857142857 | 1.53371142857143 |
| vnz_27115 | 10.55335 | 7.402825 | 1.40656 |
| vnz_27125 | 32.61466875 | NA | 116.79243 |
| vnz_27130 | 0.186 | 0.0865 | 2.14997 |
| vnz_27135 | 0.2335 | 0.10375 | 2.65753 |
| vnz_27140 | 0.2294 | 0.1256 | 1.82565 |
| vnz_27145 | 0.209 | 0.1411 | 1.48172 |
| vnz_27150 | 0.27365 | 0.1176 | 2.46894 |
| vnz_27155 | 1.5232 | 27.371025 | 0.7199175 |
| vnz_27160 | 0.2147 | 0.249 | 0.86221 |
| vnz_27165 | 0.5407 | 0.3424 | 1.5352 |
| vnz_27170 | 0.4948 | 0.5099 | 0.97054 |
| vnz_27180 | 0.3605 | 0.2952 | 1.22123 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_27185 | 0.57075 | 0.2643 | 1.999715 |
| vnz_27190 | 21.6092 | 4.49632 | 38.40722 |
| vnz_27195 | 0.30695 | 0.19575 | 1.56478 |
| vnz_27200 | 0.2099 | 0.1092 | 1.92242 |
| vnz_27205 | 18.00073333333333 | 0.3033666666666667 | 33.37674333333333 |
| vnz_27210 | 10.8973 | 4.3661 | 2.213965 |
| vnz_27215 | 0.7519 | 0.4412 | 1.7044 |
| vnz_27225 | 3.0733 | 0.24835 | 8.2078875 |
| vnz_27230 | 0.2335 | 0.1463 | 1.59637 |
| vnz_27235 | 0.40315 | 6.4818 | 0.801085 |
| vnz_27240 | 0.4562 | 0.2956 | 1.54339 |
| vnz_27245 | 0.2097 | 0.0652 | 3.21559 |
| vnz_27250 | 2.3333 | 5.104333333333333 | 0.35159 |
| vnz_27255 | 0.25225 | 0.281275 | 65.5546025 |
| vnz_27260 | 0.4692333333333333 | 73.73963333333333 | 0.9977433333333333 |
| vnz_27265 | 0.3405 | 0.20715 | 1.645075 |
| vnz_27270 | 13.8195571428571 | NA | 285.957358095238 |
| vnz_27275 | 1.3911 | 1.73245 | 0.78187 |
| vnz_27290 | 2.047025 | NA | 2.26789 |
| vnz_27295 | 0.36 | 0.1779 | 2.02411 |
| vnz_27300 | 0.38395 | 0.2232 | 1.8711875 |
| vnz_27315 | 0.3972 | 0.1372 | 2.8954 |
| vnz_27320 | 0.1729 | 0.076 | 2.27613 |
| vnz_27325 | 0.0937 | 0.0618 | 0.75824 |
| vnz_27330 | 0.2012 | 0.083 | 2.42577 |
| vnz_27335 | 0.1671333333333333 | 0.5883666666666667 | 1.4479033333333333 |
| vnz_27340 | 6.857025 | 14.957225 | 0.78980625 |
| vnz_27355 | 0.1974 | 0.0737 | 2.67916 |
| vnz_27360 | 0.1802 | 0.0924 | 1.9504 |
| vnz_27365 | 0.1227 | 0.0247 | 4.95852 |
| vnz_27370 | 0.1916 | 0.2303 | 1.229625 |
| vnz_27375 | 13.2057 | 2.0775 | 4.08208 |
| vnz_27380 | 0.3652 | 0.1407 | 2.59578 |
| vnz_27395 | 0.28555 | 0.1525 | 2.059535 |
| vnz_27400 | 0.3854 | 8.895 | 0.04332 |
| vnz_27405 | 0.352 | 45.84163333333333 | 16.95042333333333 |
| vnz_27415 | 0.65194 | NA | 0.749714 |
| vnz_27420 | 0.47245 | 0.3262 | 1.51674 |
| vnz_27425 | 2.2661 | 1.3374666666666667 | 666.0401 |
| vnz_27435 | 20.27573333333333 | 3.4752666666666667 | 2.88345 |
| vnz_27440 | 0.5521 | 0.34 | 1.6237 |
| vnz_27450 | 0.21 | 0.0683 | 3.07493 |
| vnz_27460 | 0.2254 | 0.0361 | 6.25171 |
| vnz_27465 | 4.38258235294118 | NA | 178.634776470588 |
| vnz_27470 | 3.41542 | 5.18106 | 3.51462 |
| vnz_27475 | 2.34068 | 0.90888 | 6.26735 |
| vnz_27480 | 0.2001 | 0.26745 | 2.137735 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_27485 | 0.161 | 0.05195 | 4.26712 |
| vnz_27505 | 0.335666666666667 | 0.176766666666667 | 334.02795 |
| vnz_27510 | 0.2179 | 0.1873 | 1.16311 |
| vnz_27520 | 0.2093 | 0.0171 | 12.26313 |
| vnz_27530 | 0.1438 | 0.0581 | 2.47541 |
| vnz_27535 | 0.2192 | 0.1791 | 1.22407 |
| vnz_27540 | NA | 0.49035 | NA |
| vnz_27545 | 0.3848 | 0.1948 | 1.970005 |
| vnz_27550 | 0.124775 | NA | 0.87064 |
| vnz_27555 | 0.2365 | 0.0454 | 5.21458 |
| vnz_27560 | 0.281666666666667 | 0.137133333333333 | 2.29723666666667 |
| vnz_27565 | 0.0955 | 0.0573 | 1.66568 |
| vnz_27575 | NA | 0.0896 | NA |
| vnz_27580 | 0.11185 | 0.0581 | 0.96238 |
| vnz_27585 | 0.3381 | 0.153233333333333 | 3.43102333333333 |
| vnz_27590 | 0.2198 | 0.14135 | 1.55753 |
| vnz_27595 | 7.0945125 | NA | 251.09657 |
| vnz_27600 | 3.77078571428571 | 6.6736 | 0.950315714285714 |
| vnz_27605 | 0.3396 | 0.2009 | 1.69023 |
| vnz_27610 | 0.4544 | 0.1982 | 2.29252 |
| vnz_27615 | 0.2541 | 0.1294 | 1.96456 |
| vnz_27620 | 0.48465 | 0.425 | 1.15697 |
| vnz_27625 | 0.33655 | 0.1822 | 2.06421 |
| vnz_27630 | 0.22075 | 0.1313 | 1.72159 |
| vnz_27635 | 0.2628 | 0.8769 | 0.29967 |
| vnz_27640 | 0.3382 | 0.2036 | 1.66138 |
| vnz_27650 | 0.3545 | 0.1109 | 3.19509 |
| vnz_27655 | 1.73335 | 0.214975 | 253.53106 |
| vnz_27680 | 0.2071 | 0.1225 | 1.69054 |
| vnz_27685 | 32.02322 | NA | 4.695656 |
| vnz_27690 | 0.2772 | 0.1373 | 2.0188 |
| vnz_27700 | 0.972728571428571 | 1.20324285714286 | 1.21145571428571 |
| vnz_27715 | 0.390957142857143 | 0.234185714285714 | 287.054662857143 |
| vnz_27720 | 0.622266666666667 | 0.622566666666667 | 1.88831333333333 |
| vnz_27730 | 0.1516 | 0.0979 | 1.54909 |
| vnz_27740 | 0.3004 | 0.2197 | 1.36772 |
| vnz_27745 | 17.4008 | 0.543 | 22.29464 |
| vnz_27750 | 1.6842 | 28.07485 | 0.622715 |
| vnz_27755 | 0.786533333333333 | 0.358111111111111 | 1.86360777777778 |
| vnz_27760 | 16.6782 | 10462.22295 | 0.95782 |
| vnz_27770 | 0.8192 | 0.464 | 1.712145 |
| vnz_27845 | 0.7405 | 0.5019 | 1.4753 |
| vnz_27855 | 0.25475 | 0.1053 | 2.65716 |
| vnz_27860 | 1.5979 | 2.531 | 0.63132 |
| vnz_27865 | NA | 1227.44091428571 | 143.534782857143 |
| vnz_27870 | 0.1245 | 0.1084 | 1.14842 |
| vnz_27880 | 0.32775 | NA | 1.87925 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|--------------------|-------------------|
| vnz_27885 | 0.132 | 0.0285 | 4.63821 |
| vnz_27890 | 0.2789 | 0.653375 | 252.25176 |
| vnz_27900 | 0.2781 | 0.1135 | 2.45099 |
| vnz_27975 | 0.2612 | 0.0822 | 3.1792 |
| vnz_27980 | 1.01853333333333 | 1.4666 | 0.967896666666667 |
| vnz_27985 | 0.2885 | 0.2074 | 1.39124 |
| vnz_27995 | 0.300066666666667 | 0.147566666666667 | 2.09253 |
| vnz_28000 | 0.1546 | 0.11265 | 0.686335 |
| vnz_28005 | 0.7828 | 0.5254 | 1.4899 |
| vnz_28025 | 0.4301 | 2.8625 | 0.15025 |
| vnz_28030 | 0.08705 | 0.0423 | 1.02911 |
| vnz_28035 | 0.2004 | 0.0764 | 2.62356 |
| vnz_28040 | 9.0991 | 0.0916333333333333 | 333.85059 |
| vnz_28045 | 0 | 0 | 0 |
| vnz_28050 | 0.48805 | 0.2756 | 1.72029 |
| vnz_28055 | 1.3515 | 2.8556 | 0.47329 |
| vnz_28060 | 10.09378 | 0.35988 | 194.242957 |
| vnz_28065 | 27.9131 | 0.4062 | 52.136915 |
| vnz_28080 | 0.248 | 0.1068 | 2.32137 |
| vnz_28085 | 17.9968142857143 | 2.56034285714286 | 6.84890714285714 |
| vnz_28090 | 0.6767 | 0.382433333333333 | 1.15876666666667 |
| vnz_28095 | 4.1053 | 698.96158 | 0.686374 |
| vnz_28105 | 0.2918 | 0.1909 | 1.52801 |
| vnz_28110 | 11.2696666666667 | 2098.74146666667 | 0.87702 |
| vnz_28115 | 0.50116 | 380.20768 | 1.34588 |
| vnz_28125 | 6.18437142857143 | 0.173985714285714 | 429.316597142857 |
| vnz_28130 | 0.4628 | 0.2238 | 2.06753 |
| vnz_28135 | 0.1783 | 0.0996 | 1.79015 |
| vnz_28150 | 0.1781 | 0.1178 | 1.51203 |
| vnz_28160 | 0.36845 | 0.1577 | 2.385695 |
| vnz_28165 | 17.6186 | 4.3544 | 1.7851475 |
| vnz_28170 | 0.2263 | 0.1367 | 1.65581 |
| vnz_28210 | 0.4626 | 0.3026 | 1.52861 |
| vnz_28215 | 0.3441 | 0.37255 | 1.051455 |
| vnz_28220 | 13.13694 | 18.9919 | 10.68265 |
| vnz_28225 | 0.3384 | 0.2118 | 1.59781 |
| vnz_28230 | 0.450975 | 0.1801 | 251.127545 |
| vnz_28235 | 2.3286 | NA | 0.802685 |
| vnz_28245 | 0.5867 | 0.27415 | 2.01042 |
| vnz_28250 | 0.43938 | 0.3163 | 1.549348 |
| vnz_28255 | 1.1752 | 0.9628 | 1.22065 |
| vnz_28260 | 0.49055 | 0.43885 | 1.350135 |
| vnz_28270 | 0.4325 | 0.3852 | 1.12326 |
| vnz_28275 | 28.1599 | 6.4826 | 501.66415 |
| vnz_28280 | 0.2263 | 0.1121 | 2.0188 |
| vnz_28285 | 0.389 | 0.2135 | 1.82211 |
| vnz_28290 | 0.94545 | 0.67055 | 3.3822625 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_28295 | 0.366 | 0.1975 | 1.85265 |
| vnz_28300 | 0.439 | 0.3287 | 1.33544 |
| vnz_28310 | 0.32365 | 0.246775 | 1.3755175 |
| vnz_28315 | 0.2482 | 0.1431 | 1.85427 |
| vnz_28325 | 0.3839 | 0.3201 | 1.19917 |
| vnz_28330 | 0.37845 | 0.2696 | 1.39481 |
| vnz_28340 | 0.242466666666667 | 0.165366666666667 | 1.78247666666667 |
| vnz_28345 | 0.3049 | 0.1359 | 2.24358 |
| vnz_28360 | NA | NA | NA |
| vnz_28365 | 0.2936 | 0.1498 | 1.95973 |
| vnz_28370 | 0.885666666666667 | 0.937433333333333 | 1.39088333333333 |
| vnz_28385 | 1.18293333333333 | 25.9530333333333 | 0.343713333333333 |
| vnz_28405 | 0.6007 | 0.4927 | 1.21929 |
| vnz_28410 | 3.48115185185185 | 5.55487777777778 | 1.32280111111111 |
| vnz_28415 | 2.73948 | 2.1858 | 1.208568 |
| vnz_28460 | 0.6123 | 0.563 | 1.08768 |
| vnz_28465 | 0.98454 | 0.8132 | 1.187166 |
| vnz_28470 | 2.926675 | 0.578125 | 6.90341 |
| vnz_28475 | 0.52545 | 0.49615 | 1.03972 |
| vnz_28480 | 3.9113 | 1.10445 | 2.70032 |
| vnz_28485 | 42.8196666666667 | 1.0853 | 21.7618266666667 |
| vnz_28490 | 0.1306 | 0.0837 | 1.55993 |
| vnz_28495 | 0.8579 | 0.1677 | 3.92997 |
| vnz_28500 | 0.2316 | 0.1171 | 1.97762 |
| vnz_28510 | 0.3912 | 0.267 | 1.473735 |
| vnz_28520 | 0.2175 | 0.1074 | 2.02478 |
| vnz_28525 | 0.1853 | 0.1059 | 1.74889 |
| vnz_28530 | 0.1967 | 0.1065 | 1.84652 |
| vnz_28575 | 0.2484 | 0.1563 | 1.58933 |
| vnz_28585 | 0.2445 | 0.1492 | 1.63917 |
| vnz_28590 | 0.5537 | 0.3013 | 1.83765 |
| vnz_28595 | 3.52145 | 0.22485 | 16.625 |
| vnz_28615 | 0.138 | 0.0308 | 4.48642 |
| vnz_28620 | 16.839 | 28.0584 | 1.25699 |
| vnz_28625 | 17.1899923076923 | 20.5893076923077 | 9.75294692307692 |
| vnz_28630 | 0.681285714285714 | 0.439371428571429 | 144.362642857143 |
| vnz_28635 | 0.2173 | 0.1153 | 1.88536 |
| vnz_28640 | 0.95025 | NA | 2.39186166666667 |
| vnz_28645 | 0.467428571428571 | 0.292085714285714 | 1.75367142857143 |
| vnz_28650 | 0.365133333333333 | 0.1529 | 2.29858 |
| vnz_28655 | 15.6302 | 407.543425 | 258.4833275 |
| vnz_28660 | 6.80191428571429 | 1.23495714285714 | 2.33464571428571 |
| vnz_28665 | 5.63298 | 12.24392 | 200.504394 |
| vnz_28670 | 0.1291 | 0.0767 | 1.68251 |
| vnz_28675 | 0.4923 | 0.3064 | 1.577725 |
| vnz_28680 | 0.44645 | 0.1779 | 2.465565 |
| vnz_28685 | 0.70205 | 73.30755 | 0.32911 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_28690 | 0.855525 | 27.4274 | 0.8536075 |
| vnz_28695 | 0.32655 | 0.1813 | 1.923955 |
| vnz_28700 | 0.26655 | 0.2032 | 1.31961 |
| vnz_28705 | 0.19955 | 0.834975 | 1.399645 |
| vnz_28720 | 3.66837272727273 | NA | 182.103645454545 |
| vnz_28730 | 0.398375 | 0.27325 | 1.85453 |
| vnz_28735 | 7.27918888888889 | NA | 168.701249444444 |
| vnz_28745 | NA | 18.82594 | 104.323924 |
| vnz_28750 | 0.5471 | 0.26 | 2.05517 |
| vnz_28755 | 12.80114 | 12.7517 | 3.589618 |
| vnz_28760 | 0.521883333333333 | 0.692333333333333 | 1.23542333333333 |
| vnz_28765 | 0.62238 | 0.38864 | 200.72346 |
| vnz_28770 | 0.73245 | 0.40065 | 1.838785 |
| vnz_28775 | 0.1988 | 0.0902 | 2.20486 |
| vnz_28780 | 12.2898833333333 | 3.48756666666667 | 167.880271666667 |
| vnz_28785 | 0.963983333333333 | 0.2745 | 3.993515 |
| vnz_28790 | 14.2629 | 2100.96012 | 0.888266 |
| vnz_28800 | 10.49188 | 4.46152 | 1.321156 |
| vnz_28805 | 0.2689 | 0.1152 | 2.33377 |
| vnz_28810 | 0.5193 | 0.0466 | 335.266913333333 |
| vnz_28815 | 0.4505 | 0.249625 | 2.3067875 |
| vnz_28820 | 0.1008 | 0.0485 | 2.07984 |
| vnz_28830 | 0.31925 | 0.25415 | 2.363035 |
| vnz_28835 | NA | 1.0979 | 2.2351675 |
| vnz_28840 | 0.3186 | 0.1721 | 1.85105 |
| vnz_28845 | 0.3643 | 0.2229 | 1.63417 |
| vnz_28850 | 0.2356 | 0.4278 | 0.55069 |
| vnz_28855 | 0.474433333333333 | 0.206466666666667 | 2.92921 |
| vnz_28860 | 1.75775 | 0.4317 | 3.37696 |
| vnz_28865 | 5.441 | 14.75245 | 1.218095 |
| vnz_28870 | 0.4896 | 0.324 | 1.51089 |
| vnz_28875 | 8.6667 | 3.0486 | 1.47774 |
| vnz_28880 | 0.957525 | 0.366075 | 3.57188 |
| vnz_28885 | 11.88855 | 127.4051 | 1.51341 |
| vnz_28890 | 1.73816666666667 | 0.450116666666667 | 335.111296666667 |
| vnz_28895 | 2.662 | NA | 0.86354 |
| vnz_28905 | 0.914054545454545 | 5.03157272727273 | 95.1246881818182 |
| vnz_28920 | 0.2344 | 0.09245 | 2.65196 |
| vnz_28935 | NA | 1.28107 | 9.291275 |
| vnz_28940 | 0.4004 | 0.2345 | 1.70735 |
| vnz_28945 | 0.251 | 0.1668 | 1.50488 |
| vnz_28965 | 0.2414 | 0.141 | 1.71181 |
| vnz_28980 | 0.1891 | 0.0961 | 1.96644 |
| vnz_28985 | 0.6903 | 1.0841 | 0.6367 |
| vnz_28990 | 0.2953 | 0.1686 | 1.75138 |
| vnz_29000 | 0.546316666666667 | 0.402933333333333 | 1.50710166666667 |
| vnz_29005 | 0.43085 | 0.2863 | 1.87863 |

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| Gene | dN | dS | ω |
|-----------|-------------------|--------------------|-------------------|
| vnz_29025 | 0.2021 | 0.0935333333333333 | 1.4452 |
| vnz_29030 | 0.3134 | 0.18 | 1.74052 |
| vnz_29035 | 1.48885 | 0.7202 | 2.726353333333333 |
| vnz_29040 | 1.70725714285714 | 0.798085714285714 | 144.924141428571 |
| vnz_29045 | 0.4609 | 0.9391 | 0.49074 |
| vnz_29050 | 0.6501 | 0.9551 | 0.68065 |
| vnz_29060 | 3.92779230769231 | 8.9481 | 82.6586515384615 |
| vnz_29065 | 2.39925 | 0.882475 | 2.6486925 |
| vnz_29070 | 10.6242833333333 | 3.70253333333333 | 8.81831166666667 |
| vnz_29075 | 9.24464 | 5.41852 | 1.04445 |
| vnz_29080 | 5.53129 | 1.80045 | 102.392752 |
| vnz_29085 | 3.03881428571429 | NA | 1.33025142857143 |
| vnz_29090 | 12.83456 | 21.00614 | 202.84514 |
| vnz_29095 | 12.19035 | 3.198775 | 106.8968375 |
| vnz_29105 | 7.72695 | 4.65278333333333 | 167.7679 |
| vnz_29110 | 20.808 | 2.5891 | 53.2647966666667 |
| vnz_29115 | NA | 10.2646454545455 | 8.78098272727273 |
| vnz_29120 | 0.326 | 0.1312 | 2.48554 |
| vnz_29125 | 0.3536 | 0.2455 | 1.44057 |
| vnz_29130 | 0.37655 | 0.1648 | 2.68728 |
| vnz_29135 | 0.358266666666667 | 0.182466666666667 | 1.97999666666667 |
| vnz_29145 | 0.474225 | 0.21205 | 253.54969 |
| vnz_29150 | 0.2603 | 0.1543 | 1.68631 |
| vnz_29160 | 11.1030333333333 | 0.190233333333333 | 168.293346666667 |
| vnz_29165 | 3.5059 | NA | 1.030382 |
| vnz_29170 | 0.3175 | 0.2115 | 1.51205333333333 |
| vnz_29175 | 0.2957 | 0.1487 | 1.98862 |
| vnz_29180 | 0.36448 | 0.07068 | 316.324878 |
| vnz_29185 | 0.10915 | 0.0618 | 0.883645 |
| vnz_29190 | 0.2588 | 0.1048 | 2.46903 |
| vnz_29370 | 0.21522 | 0.21722 | 1.17388 |
| vnz_29375 | 13.03335 | 1.24711666666667 | 20.7740083333333 |
| vnz_29390 | 1.15246666666667 | 3.01353333333333 | 0.804236666666667 |
| vnz_29400 | 1.69226666666667 | 0.624933333333333 | 4.30847666666667 |
| vnz_29405 | 1.6772 | 0.3063 | 5.4756 |
| vnz_29410 | 2.67157142857143 | 9.79561428571429 | 5.53299142857143 |
| vnz_29435 | 0.7722 | 0.02865 | 502.081285 |
| vnz_29440 | 15.6235285714286 | 2.60911428571429 | 181.828615714286 |
| vnz_29450 | 0.1107 | 0.0496 | 2.23172 |
| vnz_29490 | 1.202975 | 2.324425 | 0.721915 |
| vnz_29495 | 0.874266666666667 | 25.5353 | 1.11870666666667 |
| vnz_29500 | 9.6407 | 1400.07025333333 | 138.668560666667 |
| vnz_29505 | 0.1717 | 0.1047 | 1.63957 |
| vnz_29510 | 0.7049 | 0.934 | 0.75471 |
| vnz_29520 | 4.49267647058824 | 1.06027647058824 | 144.719098823529 |
| vnz_29525 | 9.25037 | 0.91022 | 11.05956 |
| vnz_29535 | 1.31936 | 1.99692 | 1.214414 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_29540 | 8.52691428571429 | 485.918542857143 | 169.981312857143 |
| vnz_29545 | 14.7886944444444 | NA | 141.848143333333 |
| vnz_29550 | 5.02314210526316 | 4.18025263157895 | 108.226154210526 |
| vnz_29555 | 1.91428571428571 | 57.9633285714286 | 286.103004285714 |
| vnz_29560 | 4.85141818181818 | 5.90450909090909 | 121.39768 |
| vnz_29565 | 10.05301 | 8.16222 | 30.514049 |
| vnz_29570 | 10.6116615384615 | 8.32026923076923 | 122.553611538462 |
| vnz_29575 | 7.5678 | 1.58285714285714 | 6.22483714285714 |
| vnz_29580 | 1.27056428571429 | 8.7081 | 72.2939157142857 |
| vnz_29660 | 0.36805 | 0.17115 | 2.304775 |
| vnz_29705 | 9.25013 | NA | 1.603609 |
| vnz_29710 | 0.29865 | 0.14295 | 2.140525 |
| vnz_29715 | 0.393 | 0.224 | 1.75439 |
| vnz_29720 | 15.7427 | 5.5439 | 2.83966 |
| vnz_29725 | 0.3025 | 0.1759 | 1.72009 |
| vnz_29730 | 0.36735 | 0.21445 | 1.82339 |
| vnz_29740 | 0.2767 | 0.1121 | 2.843625 |
| vnz_29745 | 0.2962 | 0.0003 | 999 |
| vnz_29750 | 0.2502 | 0.1508 | 1.65964 |
| vnz_29760 | 1.88905 | NA | 0.799685 |
| vnz_29765 | 0.48922 | 0.39884 | 1.839686 |
| vnz_29770 | 0.31135 | 0.16625 | 1.90382 |
| vnz_29775 | 0.3401 | 0.1129 | 3.01243 |
| vnz_29785 | 0.3415 | 0.2005 | 1.70299 |
| vnz_29790 | 1.40104444444444 | 6.22827777777778 | 2.68662333333333 |
| vnz_29795 | 5.475675 | 15.590125 | 1.07489 |
| vnz_29800 | 11.5998555555556 | 0.589233333333333 | 348.949518888889 |
| vnz_29805 | 0.42805 | 0.21405 | 2.4475 |
| vnz_29815 | 0.5819 | 1.91565 | 0.30837 |
| vnz_29850 | 0.1802 | 0.0571 | 3.15543 |
| vnz_29860 | 0.06565 | 0.03515 | 0.93415 |
| vnz_29865 | 0.1398 | 0.0616 | 2.27031 |
| vnz_29880 | 0.483533333333333 | 30.4897333333333 | 0.384386666666667 |
| vnz_29885 | 12.698525 | 2.788775 | 251.8248275 |
| vnz_29890 | 2.22520909090909 | 34.9436 | 46.3691531818182 |
| vnz_29895 | 7.0636625 | 7.7999 | 49.7545975 |
| vnz_29900 | 0.61895 | 0.5314 | 1.647585 |
| vnz_29905 | 21.4695285714286 | 5.90301428571429 | 286.298362857143 |
| vnz_29910 | 6.34249333333333 | 1255.51594666667 | 20.3016306666667 |
| vnz_29915 | 0.5131 | 0.588333333333333 | 1.29223 |
| vnz_29920 | 1.09266666666667 | 0.5998 | 1.78879666666667 |
| vnz_29925 | 0.714975 | 0.563825 | 1.28497 |
| vnz_29930 | 0.4665 | 0.3153 | 1.47957 |
| vnz_29955 | 0.6104 | 1.521 | 0.40131 |
| vnz_29990 | 0.1502 | 0.1142 | 1.31571 |
| vnz_29995 | 0.1546 | 0.0795 | 1.94416 |
| vnz_30000 | 1.2686 | NA | 4.40805 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_30005 | 0.1411 | 0.0697 | 2.02565 |
| vnz_30010 | 0.3218 | 0.1901 | 1.935395 |
| vnz_30015 | 0.31865 | 0.29445 | 3.3481575 |
| vnz_30020 | 0.7031 | 0.7049 | 0.99749 |
| vnz_30025 | 0.2043 | 0.0977 | 2.09159 |
| vnz_30035 | 0.3632 | 0.2017 | 1.80117 |
| vnz_30040 | 0.7728 | 0.485 | 1.54223 |
| vnz_30045 | 3.01834 | 11.1706 | 6.555773 |
| vnz_30075 | 3.6136 | NA | 1.93301 |
| vnz_30080 | 0.4067 | 0.6086 | 0.6682 |
| vnz_30085 | 0.5057 | 0.3011 | 1.67926 |
| vnz_30090 | 0.3631 | 0.0325 | 500.85802 |
| vnz_30095 | 22.93323333333333 | 9.133483333333333 | 10.63085166666667 |
| vnz_30100 | 10.9327 | NA | 78.3866307692308 |
| vnz_30105 | 0.75665 | 0.32665 | 168.4386883333333 |
| vnz_30115 | 0.6893 | 0.4732 | 1.45672 |
| vnz_30120 | 0.62705 | 0.51565 | 1.250485 |
| vnz_30125 | 3.145944444444444 | 1.345933333333333 | 2.86111 |
| vnz_30130 | 0.3076 | 0.1939 | 1.58605 |
| vnz_30135 | 3.865133333333333 | 0.7914 | 2.831196666666667 |
| vnz_30140 | 3.58606 | 3.09072 | 1.102776 |
| vnz_30145 | 1.453 | 3.18115 | 0.53152 |
| vnz_30150 | 3.811 | 7.0205 | 0.54285 |
| vnz_30155 | 0.4153 | 41.60126666666667 | 2.039523333333333 |
| vnz_30160 | 0.425166666666667 | 0.4887 | 1.288483333333333 |
| vnz_30165 | 0.3712 | 0.3383 | 1.09744 |
| vnz_30170 | 0.32705 | 0.1097 | 2.933155 |
| vnz_30175 | 0.28 | 0.1018 | 2.74938 |
| vnz_30225 | 0.802766666666667 | 2.4031 | 0.599916666666667 |
| vnz_30235 | 7.972733333333333 | 35.58506666666667 | 5.737184444444444 |
| vnz_30240 | 6.17178181818182 | NA | 95.65176 |
| vnz_30245 | 5.35265714285714 | 1959.77802857143 | 1.53321714285714 |
| vnz_30250 | 1.0788 | 53.24323333333333 | 0.20728 |
| vnz_30260 | 0.3127 | 0.1297 | 2.41061 |
| vnz_30265 | 0.494233333333333 | 0.340633333333333 | 1.630653333333333 |
| vnz_30270 | 0.4067 | 0.231433333333333 | 2.49472 |
| vnz_30275 | 5.99190909090909 | 1.59864545454545 | 51.0748754545454 |
| vnz_30280 | 4.066041666666667 | 1.626516666666667 | 13.14574833333333 |
| vnz_30285 | 26.4486 | 52.91913333333333 | 2.04124 |
| vnz_30290 | 0.40348 | 0.39666 | 1.515072 |
| vnz_30300 | 0.412033333333333 | 0.2515 | 1.627866666666667 |
| vnz_30305 | 2.21132 | 2.05632 | 1.410464 |
| vnz_30315 | 0.968914285714286 | 1.05464285714286 | 1.58280571428571 |
| vnz_30330 | 26.67296666666667 | NA | 49.15800166666667 |
| vnz_30335 | 1.19929 | 0.37103 | 100.660023 |
| vnz_30340 | 2.79685 | NA | 1.097385 |
| vnz_30345 | 10.236425 | 0.4014 | 258.143225 |

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| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_30350 | 14.995 | 4.3661 | 2.60636 |
| vnz_30370 | 0.49805 | 0.27245 | 1.81116 |
| vnz_30380 | 0.5183 | 0.3017 | 1.71785 |
| vnz_30385 | 0.4373 | 0.3631 | 1.286695 |
| vnz_30390 | 0.3633 | 0.141666666666667 | 3.27206666666667 |
| vnz_30395 | 0.3568 | 0.189 | 1.88773 |
| vnz_30400 | 26.5760666666667 | 0.485933333333333 | 353.092703333333 |
| vnz_30440 | 21.946625 | 0.975925 | 18.56769 |
| vnz_30445 | 1.51915 | 0.9358 | 1.608195 |
| vnz_30450 | 0.6315 | 0.9109 | 0.69324 |
| vnz_30495 | 0.627728571428571 | 0.534285714285714 | 1.46694857142857 |
| vnz_30500 | 0.35975 | 52.78785 | 0.614285 |
| vnz_30505 | 0.574033333333333 | 0.329466666666667 | 2.31983666666667 |
| vnz_30535 | 4.59440833333333 | 13.502125 | 167.242458333333 |
| vnz_30540 | 9.55723571428572 | 1.85208571428571 | 146.756336428571 |
| vnz_30545 | 2.96588 | 0.82034 | 3.25194 |
| vnz_30565 | 11.99668 | 30.49054 | 202.215424 |
| vnz_30595 | 5.2205 | 7.192 | 0.72587 |
| vnz_30600 | 0.4289 | 0.2117 | 2.03314666666667 |
| vnz_30605 | 0.54384 | 4.24958 | 1.221538 |
| vnz_30615 | 0.2454 | 0.1118 | 2.19533 |
| vnz_30620 | 0.4521 | 0.37715 | 1.23431 |
| vnz_30675 | 0.6573 | 0.5406 | 1.997478 |
| vnz_30680 | 0.49925 | 0.28295 | 1.93284 |
| vnz_30685 | 0.2357 | 0.1129 | 2.08775 |
| vnz_30690 | 0.2176 | 0.0612 | 3.55561 |
| vnz_30695 | 0.43502 | 0.69184 | 200.78853 |
| vnz_30700 | 0.2341 | 0.1244 | 1.88195 |
| vnz_30705 | 0.76785 | 0.2199 | 3.04194 |
| vnz_30710 | 0.344566666666667 | 0.312333333333333 | 1.16269666666667 |
| vnz_30720 | 0.5894 | 1.5878 | 0.37123 |
| vnz_30725 | 5.47331428571429 | 17.6101428571429 | 1.64781428571429 |
| vnz_30735 | 12.3351833333333 | 2.2961 | 3.12010333333333 |
| vnz_30820 | 0.648085714285714 | 2.60408571428571 | 1.23426 |
| vnz_30825 | 0.6276 | 0.4908 | 1.27861 |
| vnz_30845 | 18.0425 | 0.455133333333333 | 18.5439633333333 |
| vnz_30850 | 0.34165 | 0.2414 | 1.523645 |
| vnz_30855 | 10.244225 | 6.2445 | 1.039385 |
| vnz_30900 | 0.1975 | 0.1278 | 1.5448 |
| vnz_30905 | 0.1994 | 0.1456 | 1.3694 |
| vnz_30915 | 5.67537727272727 | NA | 2.08011909090909 |
| vnz_30955 | 0.599671428571429 | 0.361928571428571 | 144.88018 |
| vnz_30960 | 5.72805 | 0.289683333333333 | 168.34941 |
| vnz_31025 | 10.7489 | 0.6153 | 15.57912 |
| vnz_31030 | 1.9444 | 1.00205 | 5.177225 |
| vnz_31045 | 1.3387 | 0.91905 | 2.447675 |
| vnz_31060 | 10.238075 | NA | 13.3816075 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_31065 | 0.40275 | 0.1593 | 4.16801 |
| vnz_31070 | 0.27315 | 0.14265 | 1.931045 |
| vnz_31075 | 0.3579 | 0.1966 | 1.82081 |
| vnz_31080 | NA | 1.6351 | 167.502058333333 |
| vnz_31085 | 4.9259 | 8.00476363636364 | 273.179804545455 |
| vnz_31090 | 16.81445 | 0.894625 | 12.7199125 |
| vnz_31095 | 1.27666 | 9.81146 | 1.20701 |
| vnz_31100 | 0.4664 | 0.3635 | 1.28324 |
| vnz_31105 | 0.431 | 0.2663 | 1.61838 |
| vnz_31110 | 0.488975 | 1.0264 | 1.066925 |
| vnz_31115 | 0.6399 | 0.379 | 1.705165 |
| vnz_31120 | 0.1782 | 0.1275 | 1.39749 |
| vnz_31125 | 0.535525 | 0.47505 | 1.4090025 |
| vnz_31130 | 13.000725 | 14.037525 | 1.587545 |
| vnz_31135 | 0.3194 | 0.1557 | 2.05079 |
| vnz_31140 | 0.2502 | 0.1659 | 1.56216 |
| vnz_31145 | 0.5939 | 0.4167 | 1.86523666666667 |
| vnz_31150 | 0.46405 | 0.16445 | 2.950435 |
| vnz_31155 | 4.82929 | 3.71733 | 1.849693 |
| vnz_31330 | 3.62365 | 4.2364 | 499.54888 |
| vnz_31335 | 17.395325 | 115.197975 | 19.3455925 |
| vnz_31340 | 0.4366 | 0.2254 | 1.93679 |
| vnz_31345 | 6.11224 | 0.93364 | 203.436362 |
| vnz_31375 | 0.60886 | 0.84686 | 0.750962 |
| vnz_31380 | 8.12429166666667 | 69.3555333333333 | 104.233735833333 |
| vnz_31385 | 0.451 | 0.8042 | 0.56073 |
| vnz_31405 | 0.74342 | 0.8618 | 1.100482 |
| vnz_31410 | NA | 2.47304 | 1.065344 |
| vnz_31415 | 0.64925 | 0.51855 | 1.372025 |
| vnz_31420 | 0.43025 | 0.1863 | 500.18388 |
| vnz_31425 | 0.51495 | 0.2426 | 2.148325 |
| vnz_31430 | 3.93714 | 1.86914 | 2.962779 |
| vnz_31460 | 19.4844 | 14.5023 | 1.34354 |
| vnz_31485 | 11.83164 | 8.57854 | 3.646172 |
| vnz_31585 | 3.2331 | 2.6691 | 1.13593 |
| vnz_31590 | 1.7055 | 2.341 | 1.47859 |
| vnz_31595 | 7.41655 | NA | 1.28212833333333 |
| vnz_31605 | 10.105175 | 26.9603 | 250.3177175 |
| vnz_31610 | 1.0023 | 0.40415 | 2.406255 |
| vnz_31615 | 0.7349 | 0.274366666666667 | 334.235386666667 |
| vnz_31655 | 0.275 | 0.1034 | 2.65844 |
| vnz_31660 | 0.6015 | 0.4106 | 1.80325 |
| vnz_31690 | 46.0368333333333 | 24.7069666666667 | 11.1781233333333 |
| vnz_31695 | 1.08945 | 61.254125 | 250.529405 |
| vnz_31700 | 1.7066 | 0.87452 | 2.515722 |
| vnz_31710 | 3.795312 | 5.01962 | 83.4084824 |
| vnz_31715 | 0.508733333333333 | 0.393466666666667 | 2.43698666666667 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_31975 | 0.943421428571429 | NA | 1.95857 |
| vnz_31980 | 1.25133 | 4.04914 | 1.378754 |
| vnz_31990 | 1.0565 | 1.06495 | 0.98816 |
| vnz_31995 | 2.2537 | 0.7346 | 2.78896 |
| vnz_32000 | 0.2409 | 0.1727 | 1.39473 |
| vnz_32020 | 0.40578 | 0.23586 | 1.977372 |
| vnz_32195 | 12.31135 | 0.1308 | 500.568135 |
| vnz_32205 | 3.1783 | 0.206 | 15.42735 |
| vnz_32215 | 0.3078 | 0.1733 | 1.77614 |
| vnz_32220 | 0.1511 | 0.14045 | 1.69868 |
| vnz_32225 | 18.7496142857143 | 2.7742 | 286.647525714286 |
| vnz_32230 | 7.35085 | 8.36513333333333 | 57.1159788888889 |
| vnz_32235 | 7.02730178571429 | 6.90355 | 26.4236767857143 |
| vnz_32245 | 13.58274375 | 8.44318125 | 194.0753175 |
| vnz_32250 | 4.5082375 | 51.98245 | 125.15642125 |
| vnz_32255 | 40.0123 | 82.5685 | 0.4846 |
| vnz_32260 | 7.17582727272727 | 0.659872727272727 | 274.100380909091 |
| vnz_32270 | 2.53742666666667 | 11.2443 | 19.2785406666667 |
| vnz_32275 | 1.72894285714286 | 1.40745714285714 | 1.42091571428571 |
| vnz_32285 | 1.364625 | NA | 1.5802975 |
| vnz_32290 | 0.9541 | 0.576633333333333 | 1.73614 |
| vnz_32310 | 0.1823 | 0.0399 | 4.57362 |
| vnz_32315 | 39.90225 | 0.1097 | 222.17158 |
| vnz_32320 | 0.164666666666667 | 0.715266666666667 | 1.84224666666667 |
| vnz_32330 | 0.1815 | 0.0942 | 1.92679 |
| vnz_32335 | 0.1516 | 0.0661 | 2.29102 |
| vnz_32340 | 0.44495 | 23.8262 | 0.44385 |
| vnz_32345 | 0.1941 | 0.12945 | 1.50125 |
| vnz_32350 | 0.2292 | 0.1297 | 1.76659 |
| vnz_32355 | 0.680766666666667 | 0.1189 | 666.47199 |
| vnz_32360 | 7.57696 | 12549.99608 | 2.868932 |
| vnz_32365 | 0.8529 | 0.12795 | 500.273245 |
| vnz_32370 | 0.7449 | 0.712333333333333 | 1.56220333333333 |
| vnz_32375 | 0.4813 | 0.2434 | 1.97767 |
| vnz_32380 | 12.334175 | 13.83095 | 250.75478 |
| vnz_32385 | 0.2422 | 0.1269 | 1.90814 |
| vnz_32390 | 0.4498 | 0.52835 | 1.00571 |
| vnz_32395 | 0.2366 | 0.1358 | 1.74263 |
| vnz_32415 | 3.00163333333333 | 3.18553333333333 | 1.74436333333333 |
| vnz_32420 | 0.386075 | 0.2862 | 1.723475 |
| vnz_32430 | 0.35 | 0.1787 | 1.95836 |
| vnz_32435 | 0.3537 | 0.2417 | 1.46348 |
| vnz_32445 | 0.5954375 | 0.4871 | 1.9506825 |
| vnz_32480 | 24.5685 | 36.46275 | 1.82226166666667 |
| vnz_32485 | 1.8146 | 1.8482 | 0.983485 |
| vnz_32490 | 44.81115 | 2.45175 | 18.529475 |
| vnz_32495 | 1.283025 | NA | 0.420115 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|------------------|
| vnz_32500 | 22.49375 | 0.05955 | 684.016595 |
| vnz_32505 | 0.4873 | 0.2439 | 1.99816 |
| vnz_32510 | 4.01245625 | 23.30100625 | 188.12156375 |
| vnz_32515 | 1.73531428571429 | 20.8402142857143 | 143.208515714286 |
| vnz_32520 | NA | 0.730954545454545 | 183.541247272727 |
| vnz_32535 | 0.2225 | 0.1381 | 1.658785 |
| vnz_32540 | 0.30675 | 0.14965 | 2.089205 |
| vnz_32545 | 17.15156 | NA | 1.3238 |
| vnz_32555 | 0.391 | 0.2273 | 2.17010666666667 |
| vnz_32565 | 0.39122 | 0.69822 | 1.404506 |
| vnz_32570 | 0.627366666666667 | 0.407533333333333 | 1.46119 |
| vnz_32575 | 11.09195 | 20.0649916666667 | 6.27857416666667 |
| vnz_32580 | 2.12258888888889 | NA | 222.422126666667 |
| vnz_32585 | 21.1248666666667 | 1.48833333333333 | 35.7495 |
| vnz_32605 | 24.8206 | 89.7294 | 499.504455 |
| vnz_32610 | 12.1093666666667 | 0.835066666666667 | 338.06365 |
| vnz_32615 | 1.95365 | NA | 249.9378175 |
| vnz_32620 | 11.58185 | 4.92485 | 1.0474775 |
| vnz_32625 | 2.0087 | 1.7789 | 1.12918 |
| vnz_32630 | 4.77480833333333 | 4.59818333333333 | 265.8711425 |
| vnz_32635 | 0.70435 | 0.650316666666667 | 1.69073666666667 |
| vnz_32640 | 0.36665 | 0.2745 | 1.521955 |
| vnz_32645 | 3.50736666666667 | 1.95115 | 1.216225 |
| vnz_32675 | 0.2611 | 0.1487 | 1.75613 |
| vnz_32680 | 0.943325 | 0.470225 | 1.5660775 |
| vnz_32690 | 19.9886714285714 | NA | 181.602048571429 |
| vnz_32705 | 0.3491 | 0.186633333333333 | 1.89034333333333 |
| vnz_32715 | 0.466 | 0.3106 | 1.5005 |
| vnz_32720 | 0.2896 | 0.1889 | 1.53312 |
| vnz_32765 | 10.1966315789474 | NA | 56.3749484210526 |
| vnz_32770 | 0.2618 | 0.1391 | 1.88184 |
| vnz_32775 | 0.3684 | 0.3913 | 1.27164666666667 |
| vnz_32780 | 10.0829 | 7.9335 | 1.14503 |
| vnz_32785 | 27.0221 | 36.7359 | 14.761655 |
| vnz_32790 | 0.2036 | 0.1895 | 1.0743 |
| vnz_32795 | 0.74435 | 0.902425 | 1.53653 |
| vnz_32800 | 0.273 | 0.1076 | 2.53715 |
| vnz_32835 | 0.2939 | 0.1255 | 2.34169 |
| vnz_32845 | 0.43695 | 0.4158 | 1.170235 |
| vnz_32850 | 0.2664 | 0.1139 | 2.33958 |
| vnz_32855 | 0.3358 | 0.213 | 1.57655 |
| vnz_32860 | 16.79535 | 0.854335714285714 | 20.5842192857143 |
| vnz_32925 | 0.60845 | 1.45025 | 0.545765 |
| vnz_32930 | 0.2911 | 0.1481 | 1.96593 |
| vnz_32935 | NA | 4539.51472 | 5.742532 |
| vnz_32965 | 22.5847 | 6.90275625 | 199.62699 |
| vnz_32975 | 2.51775714285714 | 0.322 | 4.39495142857143 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_32985 | 0.315566666666667 | 0.102733333333333 | 1.95475 |
| vnz_32990 | 0.21615 | 0.664325 | 1.5165525 |
| vnz_33250 | 10.814 | 11.1932 | 11.55881 |
| vnz_33255 | 7.77556428571429 | 0.896214285714286 | 158.096353571429 |
| vnz_33260 | 5.25573333333333 | 2.5845 | 84.7392291666667 |
| vnz_33300 | 1.6197 | 2.63906666666667 | 1.05623666666667 |
| vnz_33305 | 6.42658333333333 | NA | 167.16655 |
| vnz_33310 | 3.6694 | 132.2332 | 0.02775 |
| vnz_33315 | 9.87258 | 0.87558 | 5.588642 |
| vnz_33360 | 0.484 | 0.2749 | 1.76081 |
| vnz_33365 | 14.6661 | 49.0461 | 0.29903 |
| vnz_33370 | 14.15845 | NA | 254.8722875 |
| vnz_33510 | 0.4561 | 0.3152 | 1.44695 |
| vnz_33515 | 0.3799 | 0.2215 | 1.71486 |
| vnz_33520 | 0.675033333333333 | 0.901766666666667 | 1.18464333333333 |
| vnz_33525 | 7.506505 | 4.705 | 159.065598 |
| vnz_33580 | 0.3524 | 0.2545 | 1.38457 |
| vnz_33585 | 0.3281 | 0.191 | 1.71721 |
| vnz_33610 | 7.00806923076923 | 2.75149230769231 | 6.61397615384615 |
| vnz_33640 | 0.75605 | 0.4531 | 1.98008 |
| vnz_33655 | 1.73018 | 1.52004 | 1.140768 |
| vnz_33660 | 11.5690444444444 | 1.55865555555556 | 224.950532222222 |
| vnz_33670 | 0.6755 | 0.4101 | 1.64704 |
| vnz_33675 | 0.35975 | 0.3589 | 1.079055 |
| vnz_33680 | 0.55572 | 47.42578 | 1.218542 |
| vnz_33685 | 0.3854 | 0.2587 | 1.49005 |
| vnz_33690 | 1.52155 | 75.8072 | 1.39826 |
| vnz_33695 | 0.5281 | 1.9514 | 0.909135 |
| vnz_33700 | 0.3171 | 0.1601 | 1.98107 |
| vnz_33705 | 0.1833 | 0.0703 | 2.60649 |
| vnz_33710 | 0.2768 | 0.1393 | 1.98642 |
| vnz_33720 | 12.784375 | 1.204525 | 4.1480425 |
| vnz_33725 | 2.89856666666667 | 0.514233333333333 | 87.3305691666667 |
| vnz_33730 | 0.3451 | 0.1882 | 1.83318 |
| vnz_33740 | 0.4959 | 0.29475 | 1.697205 |
| vnz_33745 | 3.41257777777778 | NA | 0.762531111111111 |
| vnz_33765 | 0.2166 | 0.1238 | 1.75001 |
| vnz_33770 | 0.4511 | 0.27265 | 1.76627 |
| vnz_33780 | 0.2443 | 0.125 | 1.95413 |
| vnz_33790 | 0.2227 | 0.1283 | 1.73555 |
| vnz_33800 | 0.4765 | 0.2221 | 2.14606 |
| vnz_33805 | 0.465025 | 50.94795 | 1.569215 |
| vnz_33810 | 0.3131 | 0.1444 | 2.16891 |
| vnz_33815 | 0.4328 | 0.2952 | 1.46599 |
| vnz_33825 | 0.3202 | 0.2348 | 1.36347 |
| vnz_33830 | 1.48675 | 0.1507 | 8.292295 |
| vnz_33835 | 0.3487 | 0.1609 | 2.421895 |

Continued on next page

Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_33840 | 0.2954 | 0.1773 | 1.66602 |
| vnz_33845 | 0.82434 | 1.221 | 400.31218 |
| vnz_33850 | 0.1546 | 0.1116 | 1.3858 |
| vnz_33855 | 0.3211 | 0.2257 | 1.4225 |
| vnz_33860 | 0.288 | 0.15605 | 1.924865 |
| vnz_33865 | 0.3077 | 0.1948 | 1.5798 |
| vnz_33870 | 26.50115 | 1.2529 | 12.13515 |
| vnz_33875 | 0.3024 | 0.1804 | 1.67617 |
| vnz_33880 | 0.297 | 0.1206 | 2.46324 |
| vnz_33885 | 24.7859 | 55.9134 | 0.44329 |
| vnz_33890 | 30.6206 | 1.25224 | 210.94202 |
| vnz_33900 | 5.6983 | 1.156225 | 3.3012 |
| vnz_33905 | 0.30835 | 0.138 | 2.462335 |
| vnz_33910 | 0.3093 | 0.24735 | 1.270415 |
| vnz_33915 | 0.2096 | 0.0445 | 4.70738 |
| vnz_33935 | 0.2344 | 0.1638 | 1.43153 |
| vnz_33940 | 18.2817 | 0.13055 | 500.414705 |
| vnz_33945 | 1.0641875 | 7.504325 | 125.910265 |
| vnz_33950 | 0.28185 | 0.16715 | 1.824365 |
| vnz_33955 | 0.3192 | 0.1343 | 2.37681 |
| vnz_33965 | 0.2672 | 0.3221 | 0.82967 |
| vnz_33970 | 0.5958 | 0.3561 | 1.67295 |
| vnz_33995 | 1.0549 | 2.2773 | 0.46322 |
| vnz_34000 | 0.13815 | 0.08395 | 0.82283 |
| vnz_34005 | 0.2481 | 0.0154 | 16.14183 |
| vnz_34045 | 0.7917333333333333 | 0.6463 | 1.1528733333333333 |
| vnz_34050 | 0.2653 | 0.221 | 1.20051 |
| vnz_34055 | 9.400983333333333 | 22.08243333333333 | 167.2413416666667 |
| vnz_34060 | 7.962055555555556 | NA | 0.9808144444444444 |
| vnz_34065 | 0.6740333333333333 | 1.0476833333333333 | NA |
| vnz_34070 | 0.209 | 0.1759 | 1.18761 |
| vnz_34075 | 0.1432 | 0.0641 | 2.239025 |
| vnz_34080 | 1.5676 | 0.9270666666666667 | 2.0364866666666667 |
| vnz_34085 | 6.729375 | 19.9425625 | 1.2915025 |
| vnz_34785 | 13.1715105263158 | 1211.94367894737 | 96.6895168421053 |
| vnz_34795 | 12.5772125 | 7.1653375 | 5.96599625 |
| vnz_34800 | 36.8556 | 0.28325 | 86.399145 |
| vnz_34810 | 13.705433333333333 | 0.5072666666666667 | 13.701886666666667 |
| vnz_34815 | 5.003933333333333 | 46466.14203333333 | 1.0962833333333333 |
| vnz_34820 | 0.27435 | 8.264 | 0.6265525 |
| vnz_34845 | 0.4165 | 0.1786 | 2.33143 |
| vnz_34850 | 7.2064 | 0.9468 | 7.61101 |
| vnz_34855 | 0.72792 | 33.39256 | 200.138122 |
| vnz_34860 | 3.0521 | 3.90405 | 50.85807 |
| vnz_34875 | 0.7315333333333333 | 1.8035666666666667 | 333.33544 |
| vnz_34880 | 1.4046 | 3.25965 | 1.022065 |
| vnz_34885 | 1.9070111111111111 | 29.575 | 112.52434 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|--------------------|--------------------|--------------------|
| vnz_34895 | 8.73584 | NA | 400.832008 |
| vnz_34930 | 0.2944 | 0.1789666666666667 | 1.578913333333333 |
| vnz_34940 | 0.8623 | 130.9781 | 0.87922 |
| vnz_34945 | 0.3028 | 0.0969 | 3.1245 |
| vnz_34950 | 0.538275 | 0.327925 | 1.66893 |
| vnz_34955 | 1.14795 | 35.45315 | 0.91252 |
| vnz_34960 | 0.63805 | 0.3841 | 1.9765 |
| vnz_34965 | 0.4523 | 0.2758 | 1.63973 |
| vnz_34970 | 3.73615 | 17.64105 | 1.243711666666667 |
| vnz_34975 | 1.002625 | 1.961575 | 0.762855 |
| vnz_34980 | 1.249616666666667 | 198.1132666666667 | 167.7108433333333 |
| vnz_35010 | 0.3201 | 0.137 | 2.33624 |
| vnz_35015 | 0.2772 | 0.1857 | 1.49228 |
| vnz_35025 | 0.3254 | 0.1695 | 1.91994 |
| vnz_35030 | 0.5118 | 0.08195 | 500.28535 |
| vnz_35035 | 0.41925 | 0.2598 | 1.771035 |
| vnz_35040 | 0.426 | 0.24875 | 1.712525 |
| vnz_35050 | 1.036388888888889 | 14.74096666666667 | 111.9855866666667 |
| vnz_35055 | 1.1483 | 1.9599 | 0.58587 |
| vnz_35070 | 0.2727 | 0.1371 | 1.98848 |
| vnz_35075 | 93.907 | 0.905 | 103.7646 |
| vnz_35080 | 1.23044 | 11.05422 | 1.357894 |
| vnz_35085 | 0.4604 | 0.2389 | 1.9277 |
| vnz_35145 | 4.57702857142857 | 0.978542857142857 | 2.40655857142857 |
| vnz_35150 | 0.3477 | 0.2392 | 1.45355 |
| vnz_35175 | 0.1993 | 0.0597 | 3.33944 |
| vnz_35180 | 5.79020769230769 | 32.3676769230769 | 232.145147692308 |
| vnz_35185 | 13.30668 | 2.12322 | 37.299778 |
| vnz_35200 | 0.3471 | 0.1744 | 1.99011 |
| vnz_35210 | 2.689233333333333 | 0.9872 | 334.7139333333333 |
| vnz_35220 | 0.4127 | 0.3325 | 1.24128 |
| vnz_35225 | 1.719233333333333 | 0.485666666666667 | 2.715556666666667 |
| vnz_35230 | 1.5475 | 0.0015 | 999 |
| vnz_35235 | 0.3841 | 0.1952 | 1.96741 |
| vnz_35265 | 0.2395 | NA | 0.39501 |
| vnz_35270 | 0.3027 | 0.1614 | 1.87581 |
| vnz_35280 | 22.130925 | 19.498175 | 6.0827725 |
| vnz_35290 | 0.4495 | 0.4152 | 1.25674 |
| vnz_35295 | 0.3229 | 0.1847 | 1.74835 |
| vnz_35345 | 0.2537 | 0.1933 | 1.31256 |
| vnz_35445 | 0.8911333333333333 | 4.423333333333333 | 0.810141666666667 |
| vnz_35450 | 0.492616666666667 | 1.2698 | 0.3916033333333333 |
| vnz_35455 | 0.65128 | 33.39934 | 200.191078 |
| vnz_35460 | 4.7749 | 0.845228571428571 | 145.95708 |
| vnz_35465 | 1.13697 | 15.4533 | 400.221725 |
| vnz_35525 | 15.5091 | 20.13465 | 0.89367 |
| vnz_35530 | 14.8634114285714 | 13.1049971428571 | 129.557601142857 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_35535 | 11.0482 | 1.17432 | 204.285622 |
| vnz_35540 | 4.57953333333333 | 4.63386666666667 | 112.553976666667 |
| vnz_35545 | 4.70933333333333 | NA | 86.8603641666667 |
| vnz_35550 | 17.5660333333333 | 2.24303333333333 | 5.19510666666667 |
| vnz_35565 | 5.77518 | NA | 67.9984513333333 |
| vnz_35570 | 0.602 | 1.5668 | 0.3842 |
| vnz_35575 | 13.2153666666667 | 9.14218333333333 | 172.9849 |
| vnz_35580 | 0.60615 | 0.86685 | 2.82023 |
| vnz_35585 | 20.57264 | 16.95292 | 4.213238 |
| vnz_35590 | 22.64505 | 6.33355 | 2.89124 |
| vnz_35610 | 1.6874 | 0.5296 | 3.18586 |
| vnz_35645 | 0.5478 | 0.2799 | 1.95689 |
| vnz_35655 | 0.582 | 0.4947 | 1.17641 |
| vnz_35700 | 0.4482 | 0.9276 | 0.48317 |
| vnz_35705 | 3.92755 | 0.285333333333333 | 61.5136416666667 |
| vnz_35710 | 2.2604 | 63.6395 | 0.03552 |
| vnz_35715 | 0.49175 | 1.61345 | 0.59215 |
| vnz_35725 | 0.3516 | 0.0004 | 999 |
| vnz_35735 | 0.878025 | 1.057425 | 250.4041975 |
| vnz_35740 | 0.3417 | 0.6984 | 0.48923 |
| vnz_35770 | 7.42631 | 79.48236 | 201.352111 |
| vnz_35775 | 2.17095 | 0.35325 | 252.5196375 |
| vnz_35780 | 0.5525 | 0.9331 | 0.59212 |
| vnz_35785 | 0.7781 | 2.246825 | 0.576655 |
| vnz_35805 | 0.3137 | 0.0003 | 999 |
| vnz_35815 | 0.8686 | 1.346575 | 0.842815 |
| vnz_35960 | 1.8415 | 87.5863333333333 | 0.805243333333333 |
| vnz_35965 | 23.7098 | 46.901 | 0.50553 |
| vnz_36030 | 16.7444473684211 | 4.34568421052632 | 87.4632552631579 |
| vnz_36035 | 52.3165 | 0.7243 | 525.86245 |
| vnz_36080 | 0.456 | 0.2268 | 2.01107 |
| vnz_36095 | 0.4048 | 0.5593 | 0.72387 |
| vnz_36100 | 0.403266666666667 | 0.436433333333333 | 1.25975333333333 |
| vnz_36105 | 0.4819 | 0.297475 | 250.70667 |
| vnz_36110 | 19.1462181818182 | 1.01642727272727 | 171.00621 |
| vnz_36115 | 6.825955 | NA | 53.43216 |
| vnz_36120 | 0.6672 | 0.77154 | 200.57137 |
| vnz_36135 | 0.12035 | 0.0436 | 500.53555 |
| vnz_36155 | 0.2791 | 0.1645 | 1.69723 |
| vnz_36160 | 2.1506 | NA | 0.976195 |
| vnz_36165 | 6.13034 | 0.86943 | 3.960136 |
| vnz_36170 | 15.35818 | 58.36916 | 3.875674 |
| vnz_36175 | 2.60965 | 1.318475 | 1.7014125 |
| vnz_36180 | 0.531 | 0.5064 | 1.0485 |
| vnz_36185 | 28.37475 | 4.14045 | 74.098075 |
| vnz_36190 | 15.0063 | 874.713985714286 | 12.7308285714286 |
| vnz_36205 | 16.94875 | 3.003875 | 8.2446675 |

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Table S3 – continued from previous page

| Gene | dN | dS | ω |
|-----------|-------------------|-------------------|-------------------|
| vnz_36210 | NA | 24.4144 | 0.74231 |
| vnz_36220 | 5.3740875 | 1.4970625 | 2.82329 |
| vnz_36225 | 0.53325 | 0.3817 | 1.40787 |
| vnz_36240 | 3.81213333333333 | 3.57926666666667 | 0.957223333333333 |
| vnz_36245 | 14.5884571428571 | 3.61067142857143 | 286.986324285714 |
| vnz_36250 | 0.457975 | 1.17035 | 1.73024 |
| vnz_36255 | 0.3819 | 0.2548 | 1.49873 |
| vnz_36345 | 0.4363 | 0.5259 | 0.82961 |
| vnz_36350 | 0.4597 | 0.3652 | 1.25887 |
| vnz_36355 | 0.9294 | 0.556633333333333 | 1.78364333333333 |
| vnz_36370 | 0.40485 | 1.6564 | 499.597715 |
| vnz_36375 | 0.3898 | 0.245 | 1.59077 |
| vnz_36485 | 0.3723 | 0.208 | 1.78967 |
| vnz_36495 | 0.4945 | 0.34 | 1.45434 |
| vnz_36500 | 4.1416625 | 13.350525 | 125.9249475 |
| vnz_36525 | 1.02565 | 2.24941666666667 | 2.49767333333333 |
| vnz_36530 | 3.23396 | 42.55938 | 399.793946 |
| vnz_36565 | 13.6197470588235 | 3.52297058823529 | 285.149581764706 |
| vnz_36610 | 0.36205 | 0.2116 | 1.788195 |
| vnz_36615 | 1.3073 | 0.5885 | 2.22125 |
| vnz_36680 | 14.6928764705882 | 4.21295882352941 | 129.844788235294 |
| vnz_36685 | 0.210233333333333 | 0.189133333333333 | 1.31423666666667 |
| vnz_36720 | 2.94875 | 0.7596 | 3.970035 |
| vnz_36730 | 4.93134166666667 | 1.801 | 7.87893916666667 |
| vnz_36740 | 2.52095 | 31.7036 | 0.902535 |
| vnz_36745 | 0.6017 | 0.4292 | 1.40171 |

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

| <i>Sinorhizobium meliloti</i> Chromosome | | | |
|------------------------------------------|--------|---------|----------|
| Gene | dN | dS | ω |
| SinmeB_0001 | 0 | 0.0065 | 0 |
| SinmeB_0003 | 0.0008 | 0.00005 | NA |
| SinmeB_0004 | 0 | 0.0001 | 0 |
| SinmeB_0005 | 0 | 0.0001 | 0 |
| SinmeB_0006 | 0 | 0 | 0 |
| SinmeB_0007 | 0 | 0.0197 | 0 |
| SinmeB_0008 | 0 | 0 | 0 |
| SinmeB_0009 | 0 | 0 | 0 |
| SinmeB_0010 | 0 | 0 | 0 |
| SinmeB_0011 | 0 | 0 | 0 |
| SinmeB_0013 | 0.0022 | 0 | NA |
| SinmeB_0014 | 0.0008 | 0 | NA |
| SinmeB_0017 | 0.0016 | 0.0059 | 0.27267 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|----------|
| SinmeB_0019 | 0 | 0 | 0 |
| SinmeB_0022 | 0 | 0.0001 | 0 |
| SinmeB_0023 | 0.0024 | 0 | NA |
| SinmeB_0025 | 0 | 0 | 0 |
| SinmeB_0027 | 0 | 0 | 0 |
| SinmeB_0028 | 0 | 0.000033333333333333 | 0 |
| SinmeB_0029 | 0 | 0.00375 | 0 |
| SinmeB_0030 | 0 | 0.0001 | 0 |
| SinmeB_0032 | 0.0004 | 0.0013 | 0.27407 |
| SinmeB_0037 | 0.0004 | 0.003 | 0.1347 |
| SinmeB_0039 | 0 | 0 | 0 |
| SinmeB_0040 | 0.0018 | 0 | NA |
| SinmeB_0042 | 0.0005 | 0 | NA |
| SinmeB_0044 | 0 | 0.01595 | 0 |
| SinmeB_0045 | 0 | 0.0101 | 0 |
| SinmeB_0049 | 0 | 0.00005 | 0 |
| SinmeB_0050 | 0 | 0 | 0 |
| SinmeB_0051 | 0 | 0 | 0 |
| SinmeB_0053 | 0 | 0 | 0 |
| SinmeB_0054 | 0 | 0 | 0 |
| SinmeB_0056 | 0 | 0 | 0 |
| SinmeB_0057 | 0 | 0 | 0 |
| SinmeB_0058 | 0.001266666666666667 | 0 | NA |
| SinmeB_0059 | 0.0018 | 0 | NA |
| SinmeB_0061 | 0.0006 | 0 | NA |
| SinmeB_0063 | 0.0012 | 0 | NA |
| SinmeB_0066 | 0 | 0.0087 | 0 |
| SinmeB_0067 | 0 | 0.00005 | 0 |
| SinmeB_0069 | 0 | 0 | 0 |
| SinmeB_0071 | 0 | 0.0019 | 0 |
| SinmeB_0072 | 0 | 0.0001 | 0 |
| SinmeB_0076 | 0 | 0.0001 | 0 |
| SinmeB_0083 | 0 | 0 | 0 |
| SinmeB_0084 | 0.0022 | 0 | NA |
| SinmeB_0085 | 0 | 0 | 0 |
| SinmeB_0086 | 0 | 0 | 0 |
| SinmeB_0087 | 0 | 0.0037 | 0 |
| SinmeB_0088 | 0.001733333333333333 | 0.001133333333333333 | NA |
| SinmeB_0089 | 0.00025 | 0.00045 | NA |
| SinmeB_0093 | 0 | 0 | 0 |
| SinmeB_0094 | 0 | 0 | 0 |
| SinmeB_0095 | 0 | 0 | 0 |
| SinmeB_0099 | 0.001066666666666667 | 0.000066666666666667 | NA |
| SinmeB_0100 | 0.0017 | 0 | NA |
| SinmeB_0101 | 0.000875 | 0.00405 | NA |
| SinmeB_0103 | 0.0012 | 0.0046 | 0.27071 |
| SinmeB_0109 | 0 | 0.0038 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------|----------|
| SinmeB_0111 | 0.001 | 0.0025 | 0.39609 |
| SinmeB_0112 | 0 | 0 | 0 |
| SinmeB_0114 | 0.0007 | 0.0034 | 0.21444 |
| SinmeB_0115 | 0 | 0.0001 | 0 |
| SinmeB_0116 | 0 | 0.0001 | 0 |
| SinmeB_0117 | 0 | 0.0001 | 0 |
| SinmeB_0118 | 0.0012 | 0.00005 | NA |
| SinmeB_0119 | 0.0019 | 0.00445 | NA |
| SinmeB_0120 | 0 | 0.0001 | 0 |
| SinmeB_0121 | 0 | 0.0001 | 0 |
| SinmeB_0122 | 0 | 0.0001 | 0 |
| SinmeB_0123 | 0.0011 | 0.005 | 0.21383 |
| SinmeB_0126 | 0.001 | 0 | NA |
| SinmeB_0127 | 0 | 0.0113 | 0 |
| SinmeB_0129 | 0.0012 | 0.0038 | 0.31696 |
| SinmeB_0131 | 0.0016 | 0.0037 | 0.42645 |
| SinmeB_0132 | 0.0021 | 0 | NA |
| SinmeB_0133 | 0.0013 | 0.006 | 0.20813 |
| SinmeB_0134 | 0.00135 | 0 | NA |
| SinmeB_0136 | 0 | 0 | 0 |
| SinmeB_0137 | 0 | 0.0026 | 0 |
| SinmeB_0139 | 0 | 0 | 0 |
| SinmeB_0143 | 0 | 0 | 0 |
| SinmeB_0145 | 0 | 0 | 0 |
| SinmeB_0147 | 0.0018 | 0 | NA |
| SinmeB_0148 | 0.001 | 0 | NA |
| SinmeB_0150 | 0 | 0 | 0 |
| SinmeB_0152 | 0.0019 | 0 | NA |
| SinmeB_0153 | 0.001 | 0.0192 | 0.05278 |
| SinmeB_0154 | 0.00045 | 0.00675 | 0.056215 |
| SinmeB_0155 | 0 | 0.001325 | 0 |
| SinmeB_0156 | 0 | 0 | 0 |
| SinmeB_0157 | 0 | 0.0064 | 0 |
| SinmeB_0160 | 0 | 0.00005 | 0 |
| SinmeB_0161 | 0 | 0 | 0 |
| SinmeB_0162 | 0.0013 | 0.0095 | 0.13238 |
| SinmeB_0164 | 0 | 0 | 0 |
| SinmeB_0167 | 0 | 0 | 0 |
| SinmeB_0172 | 0 | 0.00482 | 0 |
| SinmeB_0173 | 0 | 0 | 0 |
| SinmeB_0174 | 0 | 0.00005 | 0 |
| SinmeB_0175 | 0.0012 | 0 | NA |
| SinmeB_0179 | 0.0016 | 0.0214 | 0.07532 |
| SinmeB_0180 | 0 | 0.0929 | 0 |
| SinmeB_0181 | 0.0045 | 0.0404 | 0.11048 |
| SinmeB_0183 | 0 | 0.0397 | 0 |
| SinmeB_0184 | 0 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|----------|
| SinmeB_0185 | 0 | 0 | 0 |
| SinmeB_0187 | 0 | 0.0029 | 0 |
| SinmeB_0189 | 0 | 0.0001 | 0 |
| SinmeB_0192 | 0 | 0.0001 | 0 |
| SinmeB_0193 | 0 | 0.0036 | 0 |
| SinmeB_0194 | 0.0014 | 0 | NA |
| SinmeB_0195 | 0.0028 | 0 | NA |
| SinmeB_0196 | 0 | 0.0001 | 0 |
| SinmeB_0197 | 0.0007 | 0.000783333333333333 | NA |
| SinmeB_0198 | 0 | 0.0001 | 0 |
| SinmeB_0199 | 0 | 0 | 0 |
| SinmeB_0200 | 0 | 0.0001 | 0 |
| SinmeB_0202 | 0.0017 | 0.0135 | 0.12367 |
| SinmeB_0204 | 0.0013 | 0 | NA |
| SinmeB_0205 | 0.0011 | 0 | NA |
| SinmeB_0206 | 0 | 0 | 0 |
| SinmeB_0207 | 0 | 0 | 0 |
| SinmeB_0209 | 0 | 0.0001 | 0 |
| SinmeB_0210 | 0 | 0.0001 | 0 |
| SinmeB_0211 | 0 | 0 | 0 |
| SinmeB_0213 | 0.0009 | 0 | NA |
| SinmeB_0215 | 0 | 0.0035 | 0 |
| SinmeB_0218 | 0.0011 | 0.0061 | 0.17951 |
| SinmeB_0222 | 0.0006 | 0.0032 | 0.19881 |
| SinmeB_0224 | 0 | 0 | 0 |
| SinmeB_0229 | 0.0015 | 0 | NA |
| SinmeB_0230 | 0 | 0.0001 | 0 |
| SinmeB_0232 | 0 | 0.0001 | 0 |
| SinmeB_0233 | 0.000366666666666667 | 0.000033333333333333 | NA |
| SinmeB_0234 | 0 | 0 | 0 |
| SinmeB_0235 | 0 | 0 | 0 |
| SinmeB_0236 | 0 | 0.00915 | 0 |
| SinmeB_0237 | 0 | 0.0151 | 0 |
| SinmeB_0238 | 0.0014 | 0.0028 | 0.48311 |
| SinmeB_0240 | 0 | 0.0001 | 0 |
| SinmeB_0242 | 0.002 | 0.0043 | 0.47411 |
| SinmeB_0245 | 0.00035 | 0.0052 | 0.104185 |
| SinmeB_0246 | 0 | 0.0056 | 0 |
| SinmeB_0248 | 0 | 0 | 0 |
| SinmeB_0250 | 0 | 0.0001 | 0 |
| SinmeB_0252 | 0 | 0 | 0 |
| SinmeB_0253 | 0 | 0.0027 | 0 |
| SinmeB_0255 | 0.0006 | 0.0026 | 0.21799 |
| SinmeB_0258 | 0 | 0.0072 | 0 |
| SinmeB_0260 | 0 | 0 | 0 |
| SinmeB_0261 | 0 | 0.0001 | 0 |
| SinmeB_0262 | 0.0027 | 0 | NA |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|------------------------|--------------------|
| SinmeB_0263 | 0.0018 | 0 | NA |
| SinmeB_0264 | 0 | 0 | 0 |
| SinmeB_0268 | 0 | 0.0001 | 0 |
| SinmeB_0270 | 0.0008 | 0 | NA |
| SinmeB_0273 | 0 | 0.0001 | 0 |
| SinmeB_0275 | 0 | 0 | 0 |
| SinmeB_0278 | 0 | 0.00265 | 0 |
| SinmeB_0281 | 0.00215 | 0 | NA |
| SinmeB_0282 | 0 | 0 | 0 |
| SinmeB_0283 | 0 | 0 | 0 |
| SinmeB_0284 | 0 | 0.0038 | 0 |
| SinmeB_0286 | 0 | 0.00215 | 0 |
| SinmeB_0287 | 0.00125 | 0 | NA |
| SinmeB_0288 | 0 | 0 | 0 |
| SinmeB_0290 | 0.0012 | 0 | NA |
| SinmeB_0293 | 0 | 0.0098 | 0 |
| SinmeB_0294 | 0.002 | 0 | NA |
| SinmeB_0296 | 0 | 0.0001 | 0 |
| SinmeB_0298 | 0 | 0.016 | 0 |
| SinmeB_0299 | 0 | 0 | 0 |
| SinmeB_0300 | 0 | 0 | 0 |
| SinmeB_0301 | 0 | 0 | 0 |
| SinmeB_0302 | 0.0005 | 0.0026 | 0.18927 |
| SinmeB_0304 | 0.0008 | 0.004 | 0.10225 |
| SinmeB_0305 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_0306 | 0.0018 | 0.005 | 0.36701 |
| SinmeB_0308 | 0.0028 | 0 | NA |
| SinmeB_0309 | 0.0011 | 0.005966666666666667 | 0.1869066666666667 |
| SinmeB_0311 | 0 | 0.0032 | 0 |
| SinmeB_0312 | 0 | 0.00005 | 0 |
| SinmeB_0313 | 0.001 | 0 | NA |
| SinmeB_0314 | 0 | 0.0076 | 0 |
| SinmeB_0316 | 0 | 0.001566666666666667 | 0 |
| SinmeB_0318 | 0 | 0 | 0 |
| SinmeB_0320 | 0 | 0.00745 | 0 |
| SinmeB_0321 | 0 | 0.0001 | 0 |
| SinmeB_0322 | 0.00245 | 0.0118 | 0.22062 |
| SinmeB_0323 | 0 | 0.0051 | 0 |
| SinmeB_0324 | 0.0012 | 0 | NA |
| SinmeB_0326 | 0 | 0 | 0 |
| SinmeB_0327 | 0 | 0 | 0 |
| SinmeB_0328 | 0 | 0 | 0 |
| SinmeB_0329 | 0 | 0.000025 | 0 |
| SinmeB_0330 | 0 | 0 | 0 |
| SinmeB_0331 | 0 | 0.0001 | 0 |
| SinmeB_0332 | 0 | 0.00005 | 0 |
| SinmeB_0333 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|--------------------|--------------------|
| SinmeB_0334 | 0.0022 | 0 | NA |
| SinmeB_0335 | 0 | 0 | 0 |
| SinmeB_0336 | 0 | 0.0001 | 0 |
| SinmeB_0337 | 0.0009 | 0 | NA |
| SinmeB_0339 | 0.0011 | 0.0063 | NA |
| SinmeB_0340 | 0 | 0.0079 | 0 |
| SinmeB_0341 | 0.0015 | 0 | NA |
| SinmeB_0342 | 0 | 0 | 0 |
| SinmeB_0344 | 0 | 0.0001 | 0 |
| SinmeB_0346 | 0.0014 | 0 | NA |
| SinmeB_0347 | 0 | 0 | 0 |
| SinmeB_0350 | 0 | 0 | 0 |
| SinmeB_0352 | 0 | 0.00005 | 0 |
| SinmeB_0355 | 0 | 0 | 0 |
| SinmeB_0358 | 0.0019 | 0 | NA |
| SinmeB_0360 | 0.0014 | 0 | NA |
| SinmeB_0361 | 0 | 0.0001 | 0 |
| SinmeB_0364 | 0 | 0 | 0 |
| SinmeB_0365 | 0 | 0 | 0 |
| SinmeB_0368 | 0.0021 | 0.0158 | 0.13353 |
| SinmeB_0369 | 0 | 0 | 0 |
| SinmeB_0370 | 0 | 0 | 0 |
| SinmeB_0372 | 0 | 0 | 0 |
| SinmeB_0373 | 0.0052 | 0 | NA |
| SinmeB_0374 | 0 | 0.0052 | 0 |
| SinmeB_0376 | 0 | 0.007 | 0 |
| SinmeB_0377 | 0 | 0 | 0 |
| SinmeB_0378 | 0 | 0.00005 | 0 |
| SinmeB_0379 | 0 | 0 | 0 |
| SinmeB_0380 | 0 | 0 | 0 |
| SinmeB_0382 | 0 | 0.0001 | 0 |
| SinmeB_0384 | 0 | 0.0059 | 0 |
| SinmeB_0385 | 0 | 0.0088 | 0 |
| SinmeB_0386 | 0 | 0.0001 | 0 |
| SinmeB_0388 | 0 | 0 | 0 |
| SinmeB_0389 | 0 | 0.00005 | 0 |
| SinmeB_0390 | 0 | 0 | 0 |
| SinmeB_0391 | 0 | 0.0160666666666667 | 0 |
| SinmeB_0392 | 0.0004 | 0.0067 | 0.0203566666666667 |
| SinmeB_0393 | 0.00125 | 0.00005 | NA |
| SinmeB_0395 | 0 | 0.0021 | 0 |
| SinmeB_0397 | 0.0016 | 0 | NA |
| SinmeB_0399 | 0 | 0.0027 | 0 |
| SinmeB_0401 | 0 | 0.0024 | 0 |
| SinmeB_0404 | 0 | 0.0023 | 0 |
| SinmeB_0405 | 0.0008 | 0.0028 | 0.28666 |
| SinmeB_0407 | 0 | 0.0042 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-----------------------|----------------------|----------|
| SinmeB_0408 | 0 | 0 | 0 |
| SinmeB_0409 | 0 | 0.0001 | 0 |
| SinmeB_0410 | 0.0003 | 0.003633333333333333 | NA |
| SinmeB_0412 | 0 | 0 | 0 |
| SinmeB_0413 | 0.0028 | 0 | NA |
| SinmeB_0414 | 0 | 0.0091 | 0 |
| SinmeB_0415 | 0.0017 | 0.0024 | 0.72754 |
| SinmeB_0419 | 0.0026 | 0.01395 | 0.108705 |
| SinmeB_0420 | 0.0004333333333333333 | 0.01126666666666667 | 0.01318 |
| SinmeB_0423 | 0.0021 | 0.0438 | 0.04873 |
| SinmeB_0425 | 0 | 0.0048 | 0 |
| SinmeB_0426 | 0.002 | 0.0101 | 0.19791 |
| SinmeB_0427 | 0 | 0.0105 | 0 |
| SinmeB_0428 | 0.005 | 0.02635 | 0.17225 |
| SinmeB_0429 | 0 | 0.008 | 0 |
| SinmeB_0430 | 0.0063 | 0.0537 | 0.11742 |
| SinmeB_0432 | 0.0004 | 0.0643 | 0.00571 |
| SinmeB_0434 | 0.0005 | 0.0142 | 0.029295 |
| SinmeB_0435 | 0.0015 | 0.0102 | 0.14393 |
| SinmeB_0437 | 0.0033 | 0.0173 | 0.18931 |
| SinmeB_0439 | 0 | 0.00005 | 0 |
| SinmeB_0440 | 0 | 0.0306 | 0 |
| SinmeB_0441 | 0.0034 | 0.0177 | 0.19259 |
| SinmeB_0442 | 0.0028 | 0 | NA |
| SinmeB_0443 | 0.0033 | 0.0608 | 0.05498 |
| SinmeB_0444 | 0 | 0.0307 | 0 |
| SinmeB_0445 | 0 | 0.02885 | 0 |
| SinmeB_0447 | 0 | 0.0189 | 0 |
| SinmeB_0449 | 0 | 0.0454 | 0 |
| SinmeB_0451 | 0 | 0.00865 | 0 |
| SinmeB_0452 | 0.0012 | 0.0601 | 0.02032 |
| SinmeB_0454 | 0.0069 | 0.0097 | 0.71251 |
| SinmeB_0455 | 0.0037 | 0.0635 | 0.05775 |
| SinmeB_0457 | 0.0014 | 0.0117 | 0.19217 |
| SinmeB_0458 | 0.0029 | 0.034 | 0.08478 |
| SinmeB_0459 | 0.0042 | 0.0569 | 0.07293 |
| SinmeB_0463 | 0.1141 | 0.43185 | 0.281695 |
| SinmeB_0465 | 0.0034 | 0.0073 | 0.46948 |
| SinmeB_0473 | 0.00335 | 0.0099 | 0.402225 |
| SinmeB_0474 | 0.0021 | 0.037 | 0.041745 |
| SinmeB_0475 | 0.012 | 0.0464 | 0.25917 |
| SinmeB_0476 | 0.0062 | 0.0278 | 0.22373 |
| SinmeB_0477 | 0.0021 | 0.0098 | 0.21771 |
| SinmeB_0478 | 0.0023 | 0.0311 | 0.07553 |
| SinmeB_0480 | 0.00075 | 0.0453 | 0.017415 |
| SinmeB_0481 | 0.0092 | 0.0243 | 0.37952 |
| SinmeB_0482 | 0.0022 | 0.0597 | 0.03641 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------------------|--------------------|--------------------|
| SinmeB_0484 | 0.0017 | 0.0451 | 0.03792 |
| SinmeB_0486 | 0.001 | 0.0043 | 0.24094 |
| SinmeB_0487 | 0 | 0.0057 | 0 |
| SinmeB_0488 | 0 | 0.0306 | 0 |
| SinmeB_0489 | 0.0018 | 0.0297 | 0.0695833333333333 |
| SinmeB_0490 | 0.0069 | 0.0181 | 0.38247 |
| SinmeB_0491 | 0.004 | 0.0785 | 0.05111 |
| SinmeB_0492 | 0.0037 | 0.064 | 0.05841 |
| SinmeB_0493 | 0.008 | 0.0559 | 0.14232 |
| SinmeB_0495 | 0 | 0.0001 | 0 |
| SinmeB_0496 | 0.0026 | 0.0091 | 0.28626 |
| SinmeB_0498 | 0.00205 | 0.0363 | 0.03971 |
| SinmeB_0499 | 0.00815 | 0.06205 | 0.127675 |
| 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 | 0.0468333333333333 | 0.107806666666667 |
| SinmeB_0532 | 0 | 0.0466 | 0 |
| SinmeB_0533 | 0 | 0.0341 | 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 | 0.0191 | 0 |
| SinmeB_0541 | 0 | 0.0112 | 0 |
| SinmeB_0542 | 0.0022 | 0 | NA |
| SinmeB_0545 | 0.0008 | 0.0178 | 0.0312925 |
| SinmeB_0546 | 0.00273333333333333 | 0.0533333333333333 | 0.04064 |
| 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 | 0.23331 |
| SinmeB_0560 | 0.0005 | 0.0039 | 0.12994 |
| SinmeB_0561 | 0 | 0.0001 | 0 |
| SinmeB_0562 | 0 | 0 | 0 |
| SinmeB_0563 | 0.0035 | 0.0312 | 0.218723333333333 |
| SinmeB_0566 | 0.00223333333333333 | 0.0203666666666667 | 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|---------------------|---------------------|
| 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_0597 | 0 | 0 | 0 |
| SinmeB_0605 | 0 | 0.0476 | 0 |
| SinmeB_0606 | 0.0022 | 0.0138 | 0.16253 |
| 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 | 0.005233333333333333 | 0.03903333333333333 | 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 | 0.01355 | 0 |
| SinmeB_0655 | 0.0008 | 0.0268 | 0.03028 |
| 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 | 0.006566666666666667 | 0.06023333333333333 | 0.10760333333333333 |
| SinmeB_0681 | 0.0065 | 0.077 | 0.08403 |
| SinmeB_0686 | 0.0095 | 0.1339 | 0.0709 |
| SinmeB_0687 | 0.008733333333333333 | 0.13123333333333333 | 0.08777 |
| SinmeB_0689 | 0.0765 | 0.9186 | 0.08329 |
| SinmeB_0691 | 0.023 | 1.2495 | 0.01837 |
| SinmeB_0692 | 0.0678 | 0.7975 | 0.08498 |
| SinmeB_0693 | 2.05306 | 11.05694 | 0.49904 |
| SinmeB_0696 | 0.0114 | 0.2875 | 0.0397 |
| SinmeB_0698 | 0.021 | 0.1536 | 0.13683 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| SinmeB_0700 | 0.008 | 0.1199 | 0.06669 |
| SinmeB_0701 | 0.0447 | 0.0911 | 0.49122 |
| SinmeB_0702 | 0.00475 | 0.0954 | 0.04591 |
| SinmeB_0703 | 2.4497 | 20.9353 | 499.5042 |
| SinmeB_0704 | 0.02415 | 0.24725 | 0.077135 |
| SinmeB_0705 | 0.0107 | 0.125 | 0.08583 |
| SinmeB_0706 | 0.0088 | 0.0921 | 0.09528 |
| 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 | 0.0046666666666667 | 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 |
| 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 | 1.06169 |
| 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 | 0.0001 | 0 |
| SinmeB_0769 | 0 | 0.0055 | 0 |
| SinmeB_0774 | 0.0035 | 0 | NA |
| SinmeB_0775 | 0 | 0.0078 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|-----------------------|-----------------------|----------|
| SinmeB_0776 | 0.0033 | 0 | NA |
| SinmeB_0777 | 0 | 0.0015 | 0 |
| SinmeB_0778 | 0 | 0.0001 | 0 |
| SinmeB_0779 | 0.0033 | 0.00395 | NA |
| SinmeB_0780 | 0 | 0.004833333333333333 | 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 | 0.0001 | 0 |
| SinmeB_0792 | 0 | 0 | 0 |
| SinmeB_0794 | 0.0026 | 0 | NA |
| SinmeB_0797 | 0.001033333333333333 | 0.0000666666666666667 | NA |
| SinmeB_0800 | 0.0016 | 0.0081 | 0.2025 |
| SinmeB_0802 | 0 | 0 | 0 |
| SinmeB_0803 | 0 | 0 | 0 |
| SinmeB_0804 | 0 | 0.0000666666666666667 | 0 |
| SinmeB_0806 | 0.0005666666666666667 | 0.0104 | NA |
| SinmeB_0807 | 0.002 | 0 | NA |
| SinmeB_0809 | 0.001 | 0.004 | 0.2514 |
| SinmeB_0810 | 0 | 0 | 0 |
| SinmeB_0811 | 0 | 0.0001 | 0 |
| SinmeB_0812 | 0 | 0 | 0 |
| SinmeB_0813 | 0.00145 | 0 | NA |
| SinmeB_0814 | 0 | 0 | 0 |
| SinmeB_0815 | 0 | 0 | 0 |
| SinmeB_0816 | 0 | 0 | 0 |
| SinmeB_0817 | 0 | 0.0001 | 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 | 0.07687 |
| 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 | 0.00005 | NA |
| SinmeB_0835 | 0 | 0 | 0 |
| SinmeB_0836 | 0 | 0.0126 | 0 |
| SinmeB_0837 | 0.0021 | 0.0027 | 0.76098 |
| SinmeB_0839 | 0.0009 | 0 | NA |
| SinmeB_0841 | 0 | 0 | 0 |
| SinmeB_0842 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|----------|
| SinmeB_0843 | 0.001 | 0 | NA |
| SinmeB_0844 | 0.00065 | 0.00005 | 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 | 0.00005 | 0 |
| SinmeB_0862 | 0.0008 | 0.0069 | 0.059445 |
| SinmeB_0863 | 0 | 0.0001 | 0 |
| SinmeB_0865 | 0 | 0.0042 | 0 |
| SinmeB_0867 | 0.0014 | 0 | NA |
| SinmeB_0869 | 0 | 0.0001 | 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 | 0.000066666666666667 | 0 |
| SinmeB_0886 | 0.000466666666666667 | 0.0056 | 0.02714 |
| SinmeB_0888 | 0.0013 | 0 | NA |
| SinmeB_0889 | 0.001 | 0.003166666666666667 | 0.13615 |
| SinmeB_0891 | 0 | 0 | 0 |
| SinmeB_0894 | 0 | 0.0001 | 0 |
| SinmeB_0896 | 0 | 0.0091 | 0 |
| SinmeB_0897 | 0 | 0.0001 | 0 |
| SinmeB_0898 | 0.0019 | 0.0038 | 0.48906 |
| SinmeB_0899 | 0 | 0.0001 | 0 |
| SinmeB_0900 | 0.0022 | 0 | NA |
| SinmeB_0904 | 0.00045 | 0.0023 | NA |
| SinmeB_0905 | 0 | 0.0001 | 0 |
| SinmeB_0906 | 0.0011 | 0 | NA |
| SinmeB_0907 | 0.0023 | 0 | NA |
| SinmeB_0908 | 0 | 0 | 0 |
| SinmeB_0910 | 0 | 0.0001 | 0 |
| SinmeB_0913 | 0.0007 | 0 | NA |
| SinmeB_0914 | 0 | 0.0067 | 0 |
| SinmeB_0915 | 0.0012 | 0 | NA |
| SinmeB_0916 | 0 | 0.005266666666666667 | 0 |
| SinmeB_0918 | 0 | 0.0001 | 0 |
| SinmeB_0921 | 0 | 0 | 0 |
| SinmeB_0923 | 0.0009 | 0 | NA |
| SinmeB_0924 | 0 | 0.0079 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|--------------------|
| 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 | 0.0001 | 0 |
| SinmeB_0933 | 0 | 0.0042 | 0 |
| SinmeB_0935 | 0.0011 | 0 | NA |
| SinmeB_0938 | 0 | 0.0001 | 0 |
| SinmeB_0940 | 0.0013 | 0 | NA |
| SinmeB_0941 | 0 | 0 | 0 |
| SinmeB_0942 | 0 | 0.0001 | 0 |
| SinmeB_0943 | 0 | 0.0083 | 0 |
| SinmeB_0944 | 0 | 0.0001 | 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 | 0.00325 | 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 | 0.0001 | 0 |
| SinmeB_0975 | 0.0005 | 0 | NA |
| SinmeB_0976 | 0.000266666666666667 | 0.002966666666666667 | 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 | 0.00005 | 0 |
| SinmeB_1009 | 0 | 0.0001 | 0 |
| SinmeB_1011 | 0 | 0 | 0 |
| SinmeB_1012 | 0 | 0.0001 | 0 |
| SinmeB_1013 | 0 | 0.0001 | 0 |
| SinmeB_1015 | 0 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|------------------------|----------|
| 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 | 0.0001 | 0 |
| SinmeB_1025 | 0 | 0.006 | 0 |
| SinmeB_1026 | 0.0007 | 0.003 | 0.22139 |
| SinmeB_1027 | 0.00275 | 0 | NA |
| SinmeB_1029 | 0 | 0.0001 | 0 |
| SinmeB_1031 | 0.0006 | 0.01 | 0.05933 |
| SinmeB_1034 | 0.0015 | 0 | NA |
| SinmeB_1035 | 0 | 0 | 0 |
| SinmeB_1037 | 0 | 0.00555 | 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 | 0.0034 | 0.178385 |
| SinmeB_1056 | 0 | 0.0001 | 0 |
| SinmeB_1058 | 0.003 | 0 | NA |
| SinmeB_1059 | 0 | 0 | 0 |
| SinmeB_1060 | 0 | 0.00005 | 0 |
| SinmeB_1063 | 0 | 0.00455 | 0 |
| SinmeB_1065 | 0 | 0.0047 | 0 |
| SinmeB_1066 | 0 | 0.0001 | 0 |
| SinmeB_1068 | 0 | 0.0001 | 0 |
| SinmeB_1069 | 0 | 0.0057 | 0 |
| SinmeB_1070 | 0 | 0.0001 | 0 |
| SinmeB_1072 | 0.0013 | 0.0016 | 0.82459 |
| 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 | 0.0001 | 0 |
| SinmeB_1088 | 0 | 0 | 0 |
| SinmeB_1089 | 0.0017 | 0.00005 | NA |
| SinmeB_1090 | 0.004233333333333333 | 0.002533333333333333 | NA |
| SinmeB_1091 | 0 | 0.0001 | 0 |
| SinmeB_1092 | 0.0014 | 0 | NA |
| SinmeB_1095 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_1096 | 0.00175 | 0 | NA |
| SinmeB_1097 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|------------------------|----------|
| 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 | 0.0005 | 2.69536 |
| SinmeB_1123 | 0 | 0.0001 | 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 | 0.0014 | 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 | 0.00005 | NA |
| SinmeB_1149 | 0.00055 | 0 | NA |
| SinmeB_1151 | 0 | 0.0058 | 0 |
| SinmeB_1152 | 0 | 0.0035 | 0 |
| SinmeB_1154 | 0.00085 | 0.00005 | NA |
| SinmeB_1155 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_1156 | 0.001166666666666667 | 0.004166666666666667 | NA |
| SinmeB_1157 | 0.0007 | 0.00245 | 0.140765 |
| 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 | 0.0001 | 0 |
| SinmeB_1171 | 0 | 0.00005 | 0 |
| SinmeB_1173 | 0 | 0 | 0 |
| SinmeB_1175 | 0 | 0 | 0 |
| SinmeB_1178 | 0.0025 | 0.0029 | 0.85885 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|------------------------|--------------------|
| SinmeB_1179 | 0.0004 | 0.00003333333333333333 | NA |
| SinmeB_1180 | 0 | 0.0001 | 0 |
| SinmeB_1181 | 0 | 0.0306 | 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 | 0.00005 | 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 | 0.004633333333333333 | 0.013133333333333333 | 0.3714366666666667 |
| SinmeB_1215 | 0.0024 | 0.0124 | 0.16888 |
| SinmeB_1216 | 0.0019 | 0.01045 | 0.18729 |
| SinmeB_1217 | 0 | 0.0001 | 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 | 0.002166666666666667 | 0.0335 | 0.06725 |
| SinmeB_1224 | 0.0031 | 0.0219 | 0.14152 |
| SinmeB_1225 | 0.003533333333333333 | 0.0405 | 0.1215566666666667 |
| SinmeB_1227 | 0.0068 | 0.0124 | 0.55142 |
| SinmeB_1228 | 0.004933333333333333 | 0.063733333333333333 | 0.08425 |
| SinmeB_1230 | 0.0005 | 0.0677 | 0.00795 |
| SinmeB_1232 | 0.00215 | 0.0238 | 0.04535 |
| SinmeB_1233 | 0.0028 | 0.0436 | 0.06376 |
| SinmeB_1234 | 0.0025 | 0.0072 | 0.35495 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|---------|--------------------|
| SinmeB_1240 | 0 | 0.0001 | 0 |
| SinmeB_1242 | 0.00205 | 0 | NA |
| SinmeB_1244 | 0.00208 | 0.00612 | 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 | 0.0001 | 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 | 0.0071 | 0.0221 | 0.32333 |
| 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 | 0.00005 | 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 | 0.0017 | 0.0357 | 0.04631 |
| SinmeB_1286 | 0 | 0.0351 | 0 |
| SinmeB_1290 | 0 | 0 | 0 |
| SinmeB_1291 | 0.003 | 0.0339 | 0.08932 |
| SinmeB_1292 | 0.0013 | 0.0157 | 0.1113333333333333 |
| 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 | 0.003833333333333333 | 0.0161 | 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 | 0.0001 | 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 | 0.33751 |
| SinmeB_1324 | 0 | 0.0672 | 0 |
| SinmeB_1326 | 0.0096 | 0.0239 | 0.39951 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|--------------------|-------------------|
| SinmeB_1327 | 0.0046 | 0.0695 | 0.0663 |
| SinmeB_1328 | 0 | 0.0283 | 0 |
| SinmeB_1330 | 0.00095 | 0.02205 | 0.133135 |
| SinmeB_1333 | 0.0018 | 0.0319 | 0.05498 |
| SinmeB_1335 | 0.0186 | 0.0856 | 0.241475 |
| 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 | 0.3134 |
| SinmeB_1362 | 0.0044 | 0.044 | 0.09982 |
| 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 |
| SinmeB_1384 | 0.0282 | 0 | NA |
| SinmeB_1385 | 0.0045 | 0.0076 | 0.58936 |
| SinmeB_1387 | 0 | 0.0276 | 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 | 0.00726 | 0.03478 | 0.225132 |
| SinmeB_1399 | 0.002 | 0.0411 | 0.028655 |
| SinmeB_1400 | 0 | 0 | 0 |
| 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 | 0.00225 | 0 |
| SinmeB_1417 | 0 | 0.0095 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|---------|----------|
| 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 | 0.0001 | 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 | 0.0126 | 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 | 0.87502 |
| SinmeB_1456 | 0.0018 | 0.0356 | 0.05127 |
| SinmeB_1457 | 0.00405 | 0.01605 | 0.12679 |
| SinmeB_1459 | 0 | 0 | 0 |
| SinmeB_1460 | 0 | 0.0513 | 0 |
| SinmeB_1464 | 0 | 0.0001 | 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 | 0.004633333333333333 | 0.0496 | 0.09703 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|--------------------|--------------------|
| SinmeB_1484 | 0.0096 | 0.0177 | 0.54037 |
| SinmeB_1485 | 0.003 | 0.0164 | 0.18259 |
| SinmeB_1486 | 0.0189 | 0.0949 | 0.19952 |
| SinmeB_1488 | 0.0033 | 0.0723 | 0.04617 |
| SinmeB_1489 | 0 | 0 | 0 |
| SinmeB_1490 | 0 | 0.0131666666666667 | 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 |
| SinmeB_1533 | 0.0022 | 0.0255 | 0.082365 |
| SinmeB_1535 | 0.0034 | 0.0296 | 0.11454 |
| 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 | 0.02345 | 0.042125 |
| SinmeB_1540 | 0 | 0.0001 | 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 | 0.0027666666666667 | 0.0214666666666667 | 0.0859833333333333 |
| SinmeB_1549 | 0.0012 | 0.0196 | 0.05961 |
| SinmeB_1550 | 0.0016 | 0.0424 | 0.03879 |
| SinmeB_1552 | 0.0015666666666667 | 0.0233666666666667 | 0.0793366666666667 |
| SinmeB_1553 | 0.0035 | 0.0329 | 0.10545 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|--------------------|-------------------|
| 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 | 0.0322333333333333 | 0.200243333333333 |
| SinmeB_1567 | 0.0016 | 0.0184 | 0.08889 |
| SinmeB_1568 | 0.0018 | 0.0251 | 0.0708 |
| SinmeB_1569 | 0 | 0.0001 | 0 |
| SinmeB_1570 | 0.0011 | 0.0145 | 0.07455 |
| SinmeB_1571 | 0.0015 | 0.014 | 0.10419 |
| SinmeB_1572 | 0.0038 | 0.0125 | 0.30136 |
| 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 |
| SinmeB_1601 | 0 | 0 | 0 |
| SinmeB_1604 | 0.0081 | 0.0152 | 0.53236 |
| 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 | 0.00305 | 0.03495 | 0.0951 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------------------|----------|
| SinmeB_1641 | 0.0053 | 0.0637 | 0.08289 |
| SinmeB_1646 | 0.0016 | 0.01215 | 0.065215 |
| 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 | 0.0092 | 0.0391 | 0.23483 |
| SinmeB_1656 | 0.0022 | 0.0159 | 0.14165 |
| SinmeB_1657 | 0.0075 | 0.0299 | 0.25016 |
| 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 | 0.0001 | 0 |
| SinmeB_1668 | 0.0016 | 0 | NA |
| SinmeB_1672 | 0.00105 | 0.00195 | NA |
| SinmeB_1673 | 0.0025 | 0 | NA |
| SinmeB_1674 | 0 | 0.0001 | 0 |
| SinmeB_1676 | 0 | 0.0001 | 0 |
| SinmeB_1677 | 0 | 0 | 0 |
| SinmeB_1678 | 0 | 0.0001 | 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 |
| SinmeB_1691 | 0 | 0.0067 | 0 |
| SinmeB_1692 | 0 | 0 | 0 |
| SinmeB_1693 | 0 | 0.002866666666666667 | 0 |
| SinmeB_1695 | 0.0029 | 0 | NA |
| SinmeB_1696 | 0.0006 | 0.0025 | 0.26094 |
| SinmeB_1698 | 0 | 0.0001 | 0 |
| SinmeB_1699 | 0.001 | 0 | NA |
| SinmeB_1702 | 0 | 0.0001 | 0 |
| SinmeB_1705 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_1716 | 0 | 0.001366666666666667 | 0 |
| SinmeB_1717 | 0 | 0 | 0 |
| SinmeB_1718 | 0 | 0.0001 | 0 |
| SinmeB_1722 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------|---------|----------|
| SinmeB_1724 | 0.0016 | 0 | NA |
| SinmeB_1727 | 0.0012 | 0 | NA |
| SinmeB_1730 | 0 | 0 | 0 |
| SinmeB_1733 | 0 | 0.0001 | 0 |
| SinmeB_1734 | 0 | 0.0026 | 0 |
| SinmeB_1735 | 0 | 0.00005 | 0 |
| SinmeB_1737 | 0.00035 | 0.00275 | 0.14528 |
| SinmeB_1738 | 0 | 0 | 0 |
| SinmeB_1741 | 0.0013 | 0 | NA |
| SinmeB_1742 | 0.0016 | 0.0054 | 0.30072 |
| SinmeB_1743 | 0 | 0.0102 | 0 |
| SinmeB_1744 | 0.0023 | 0 | NA |
| SinmeB_1745 | 0 | 0 | 0 |
| SinmeB_1746 | 0 | 0 | 0 |
| SinmeB_1748 | 0 | 0.0001 | 0 |
| SinmeB_1749 | 0 | 0.0001 | 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 |
| SinmeB_1770 | 0.000725 | 0.00005 | NA |
| SinmeB_1771 | 0.0007 | 0.0058 | 0.11548 |
| SinmeB_1774 | 0 | 0.0014 | 0 |
| SinmeB_1776 | 0 | 0.0001 | 0 |
| SinmeB_1778 | 0 | 0.0001 | 0 |
| SinmeB_1783 | 0 | 0 | 0 |
| SinmeB_1784 | 0 | 0.0001 | 0 |
| SinmeB_1786 | 0 | 0.005 | 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 | 0.0241 | 0 |
| SinmeB_1798 | 0 | 0.0001 | 0 |
| SinmeB_1799 | 0 | 0 | 0 |
| SinmeB_1800 | 0 | 0 | 0 |
| SinmeB_1803 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|---------|----------|
| SinmeB_1806 | 0.001 | 0.0037 | 0.2597 |
| SinmeB_1808 | 0 | 0 | 0 |
| SinmeB_1810 | 0 | 0 | 0 |
| SinmeB_1811 | 0 | 0.0001 | 0 |
| SinmeB_1812 | 0 | 0 | 0 |
| SinmeB_1814 | 0.00075 | 0.00005 | NA |
| SinmeB_1816 | 0 | 0.0001 | 0 |
| SinmeB_1817 | 0 | 0 | 0 |
| SinmeB_1818 | 0 | 0 | 0 |
| SinmeB_1821 | 0 | 0.0001 | 0 |
| SinmeB_1822 | 0 | 0.0001 | 0 |
| SinmeB_1824 | 0 | 0.00005 | 0 |
| SinmeB_1829 | 0.0008 | 0 | NA |
| SinmeB_1831 | 0 | 0.0001 | 0 |
| SinmeB_1832 | 0.0013 | 0.00725 | NA |
| SinmeB_1833 | 0.0021 | 0 | NA |
| SinmeB_1836 | 0 | 0.0001 | 0 |
| SinmeB_1837 | 0 | 0 | 0 |
| SinmeB_1838 | 0 | 0.0001 | 0 |
| SinmeB_1839 | 0 | 0.0001 | 0 |
| SinmeB_1842 | 0 | 0.0149 | 0 |
| SinmeB_1843 | 0 | 0 | 0 |
| SinmeB_1845 | 0 | 0 | 0 |
| SinmeB_1846 | 0 | 0.0001 | 0 |
| SinmeB_1848 | 0 | 0.0001 | 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 |
| SinmeB_1853 | 0 | 0.0001 | 0 |
| SinmeB_1854 | 0 | 0.0001 | 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 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_1866 | 0.0006 | 0 | NA |
| SinmeB_1867 | 0 | 0.0001 | 0 |
| SinmeB_1868 | 0 | 0.0001 | 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 | 0.150085 |
| SinmeB_1875 | 0 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------------------|----------|
| 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 | 0.00005 | 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 | 0.0001 | 0 |
| SinmeB_1904 | 0 | 0.0079 | 0 |
| SinmeB_1905 | 0.0017 | 0 | NA |
| SinmeB_1907 | 0 | 0.00005 | 0 |
| SinmeB_1908 | 0 | 0 | 0 |
| SinmeB_1913 | 0.0006 | 0.0017 | 0.36325 |
| SinmeB_1917 | 0 | 0.001733333333333333 | 0 |
| SinmeB_1918 | 0 | 0.0059 | 0 |
| SinmeB_1919 | 0 | 0.0028 | 0 |
| SinmeB_1920 | 0 | 0.0001 | 0 |
| SinmeB_1922 | 0 | 0.0081 | 0 |
| SinmeB_1923 | 0 | 0 | 0 |
| SinmeB_1925 | 0.0012 | 0 | NA |
| SinmeB_1926 | 0 | 0.0001 | 0 |
| SinmeB_1927 | 0 | 0 | 0 |
| SinmeB_1928 | 0.005 | 0 | NA |
| SinmeB_1929 | 0 | 0 | 0 |
| SinmeB_1931 | 0 | 0.0031 | 0 |
| SinmeB_1933 | 0 | 0.0068 | 0 |
| SinmeB_1934 | 0 | 0 | 0 |
| SinmeB_1935 | 0.0014 | 0 | NA |
| SinmeB_1936 | 0 | 0.0001 | 0 |
| SinmeB_1938 | 0 | 0 | 0 |
| SinmeB_1940 | 0 | 0.0001 | 0 |
| SinmeB_1942 | 0.0012 | 0.0019 | 0.31756 |
| SinmeB_1943 | 0 | 0 | 0 |
| SinmeB_1945 | 0.0016 | 0 | NA |
| SinmeB_1948 | 0.0013 | 0.004 | 0.33284 |
| SinmeB_1958 | 0.0016 | 0 | NA |
| SinmeB_1959 | 0.00075 | 0.000025 | NA |
| SinmeB_1962 | 0 | 0.004133333333333333 | 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|----------------------|
| SinmeB_1969 | 0 | 0.0001 | 0 |
| SinmeB_1970 | 0 | 0 | 0 |
| SinmeB_1974 | 0.012075 | 0.0675 | 0.0589225 |
| SinmeB_1977 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_1991 | 0 | 0.0124 | 0 |
| SinmeB_1992 | 0 | 0.0001 | 0 |
| SinmeB_1993 | 0.0011 | 0 | NA |
| SinmeB_1994 | 0 | 0 | 0 |
| SinmeB_1997 | 0 | 0 | 0 |
| SinmeB_1999 | 0 | 0.0001 | 0 |
| SinmeB_2000 | 0 | 0.0213 | 0 |
| SinmeB_2001 | 0.002 | 0.00435 | 0.23022 |
| SinmeB_2002 | 0 | 0 | 0 |
| SinmeB_2003 | 0 | 0.0001 | 0 |
| SinmeB_2004 | 0.0088 | 13.6704 | 0.000108333333333333 |
| SinmeB_2005 | 0 | 0.00005 | 0 |
| SinmeB_2006 | 0 | 0.003633333333333333 | 0 |
| SinmeB_2008 | 0 | 0.0001 | 0 |
| SinmeB_2009 | 0 | 0.0001 | 0 |
| SinmeB_2010 | 0.0033 | 0 | NA |
| 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 | 0.72999 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------------------|----------|
| SinmeB_2035 | 0 | 0.004 | 0 |
| SinmeB_2036 | 0.00135 | 0.00005 | 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 | 0.000066666666666667 | 0 |
| SinmeB_2048 | 0 | 0.0001 | 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 | 0.00005 | 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 | 0.0001 | 0 |
| SinmeB_2073 | 0 | 0.0001 | 0 |
| SinmeB_2074 | 0.0009 | 0.000033333333333333 | NA |
| SinmeB_2075 | 0 | 0 | 0 |
| SinmeB_2076 | 0 | 0 | 0 |
| SinmeB_2077 | 0 | 0 | 0 |
| SinmeB_2078 | 0 | 0.005833333333333333 | 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 | 0.00005 | NA |
| SinmeB_2089 | 0 | 0.0001 | 0 |
| SinmeB_2091 | 0 | 0.0001 | 0 |
| SinmeB_2092 | 0 | 0.0001 | 0 |
| SinmeB_2094 | 0.0033 | 0 | NA |
| SinmeB_2095 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|---------|----------|
| SinmeB_2097 | 0 | 0 | 0 |
| SinmeB_2098 | 0.001833333333333333 | 0 | NA |
| SinmeB_2099 | 0.00185 | 0 | NA |
| SinmeB_2102 | 0.00225 | 0 | NA |
| SinmeB_2104 | 0 | 0 | 0 |
| SinmeB_2105 | 0.00405 | 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 | 0.00005 | 0 |
| SinmeB_2123 | 0 | 0 | 0 |
| SinmeB_2124 | 0 | 0.0001 | 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 | 0.27439 |
| 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 | 0.0001 | 0 |
| SinmeB_2151 | 0.0028 | 0 | NA |
| 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 | 0.0001 | 0 |
| SinmeB_2170 | 0 | 0 | 0 |
| SinmeB_2171 | 0.00135 | 0 | NA |
| SinmeB_2172 | 0 | 0.0001 | 0 |
| SinmeB_2173 | 0 | 0.005 | 0 |
| SinmeB_2176 | 0 | 0 | 0 |
| SinmeB_2177 | 0 | 0 | 0 |
| SinmeB_2178 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------|------------------------|----------|
| SinmeB_2179 | 0.0006 | 0.00003333333333333333 | NA |
| SinmeB_2180 | 0.0012 | 0 | NA |
| SinmeB_2181 | 0 | 0.0001 | 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 | 0.001916666666666667 | 0 |
| SinmeB_2196 | 0 | 0.00005 | 0 |
| SinmeB_2197 | 0 | 0.0061 | 0 |
| SinmeB_2198 | 0 | 0 | 0 |
| SinmeB_2200 | 0 | 0 | 0 |
| SinmeB_2202 | 0 | 0.0001 | 0 |
| SinmeB_2205 | 0.0012 | 0.0052 | 0.23566 |
| SinmeB_2207 | 0 | 0 | 0 |
| SinmeB_2208 | 0.0015 | 0 | NA |
| SinmeB_2212 | 0 | 0.0001 | 0 |
| SinmeB_2213 | 0 | 0 | 0 |
| SinmeB_2214 | 0 | 0.0092 | 0 |
| SinmeB_2215 | 0 | 0 | 0 |
| SinmeB_2216 | 0.0017 | 0.00003333333333333333 | 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 |
| SinmeB_2231 | 0 | 0.0001 | 0 |
| SinmeB_2232 | 0 | 0.00005 | 0 |
| SinmeB_2233 | 0.0012 | 0 | NA |
| SinmeB_2235 | 0 | 0 | 0 |
| SinmeB_2236 | 0 | 0.0001 | 0 |
| SinmeB_2237 | 0.0013 | 0.0038 | 0.34079 |
| SinmeB_2238 | 0 | 0.0001 | 0 |
| SinmeB_2239 | 0 | 0.00005 | 0 |
| SinmeB_2243 | 0 | 0.0001 | 0 |
| SinmeB_2246 | 0 | 0 | 0 |
| SinmeB_2247 | 0 | 0.0001 | 0 |
| SinmeB_2248 | 0 | 0.0001 | 0 |
| SinmeB_2251 | 0 | 0.0001 | 0 |
| SinmeB_2253 | 0 | 0.0001 | 0 |
| SinmeB_2255 | 0.0012 | 0 | NA |
| SinmeB_2257 | 0 | 0.0024 | 0 |
| SinmeB_2259 | 0 | 0 | 0 |
| SinmeB_2260 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|---------|----------|
| 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 | 0.0001 | 0 |
| SinmeB_2272 | 0 | 0 | 0 |
| SinmeB_2273 | 0 | 0 | 0 |
| SinmeB_2274 | 0 | 0.0001 | 0 |
| SinmeB_2275 | 0 | 0 | 0 |
| SinmeB_2276 | 0.0018 | 0 | NA |
| SinmeB_2278 | 0 | 0 | 0 |
| SinmeB_2280 | 0 | 0.00005 | 0 |
| SinmeB_2282 | 0.0012 | 0.0035 | 0.33219 |
| SinmeB_2283 | 0 | 0.0001 | 0 |
| SinmeB_2285 | 0 | 0.0001 | 0 |
| SinmeB_2286 | 0 | 0 | 0 |
| SinmeB_2287 | 0 | 0.0001 | 0 |
| SinmeB_2288 | 0.0007 | 0.00205 | 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 | 0.0001 | 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 |
| SinmeB_2312 | 0 | 0.0001 | 0 |
| SinmeB_2313 | 0.001 | 0 | NA |
| SinmeB_2314 | 0 | 0 | 0 |
| SinmeB_2316 | 0 | 0.0001 | 0 |
| SinmeB_2317 | 0 | 0.0001 | 0 |
| SinmeB_2318 | 0 | 0.0001 | 0 |
| SinmeB_2319 | 0.0008 | 0 | NA |
| SinmeB_2321 | 0 | 0 | 0 |
| SinmeB_2322 | 0 | 0.0067 | 0 |
| SinmeB_2323 | 0 | 0.0001 | 0 |
| SinmeB_2324 | 0 | 0 | 0 |
| SinmeB_2325 | 0 | 0.0001 | 0 |
| SinmeB_2326 | 0 | 0 | 0 |
| SinmeB_2328 | 0 | 0 | 0 |
| SinmeB_2331 | 0.0036 | 0.0302 | 0.11851 |
| SinmeB_2332 | 0 | 0.077 | 0 |
| SinmeB_2333 | 0 | 0.00555 | 0 |
| SinmeB_2335 | 0 | 0.00375 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------------------|----------|
| SinmeB_2336 | 0 | 0 | 0 |
| SinmeB_2339 | 0.0008 | 0 | NA |
| SinmeB_2340 | 0 | 0.0027 | 0 |
| SinmeB_2342 | 0 | 0 | 0 |
| SinmeB_2343 | 0 | 0 | 0 |
| SinmeB_2346 | 0 | 0.0001 | 0 |
| SinmeB_2347 | 0 | 0.0038 | 0 |
| SinmeB_2349 | 0 | 0 | 0 |
| SinmeB_2350 | 0.0023 | 0.0029 | NA |
| SinmeB_2353 | 0.00075 | 0.00005 | NA |
| SinmeB_2354 | 0 | 0.0001 | 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 | 0.0033 | 0 |
| SinmeB_2372 | 0.0024 | 0.0022 | NA |
| SinmeB_2373 | 0 | 0 | 0 |
| SinmeB_2374 | 0 | 0.005 | 0 |
| SinmeB_2375 | 0 | 0.0001 | 0 |
| SinmeB_2377 | 0.0013 | 0 | NA |
| SinmeB_2378 | 0 | 0.0001 | 0 |
| SinmeB_2383 | 0 | 0 | 0 |
| SinmeB_2385 | 0 | 0 | 0 |
| SinmeB_2386 | 0 | 0.0001 | 0 |
| SinmeB_2387 | 0 | 0 | 0 |
| SinmeB_2390 | 0.001 | 0 | NA |
| SinmeB_2392 | 0.0005 | 0 | NA |
| SinmeB_2393 | 0 | 0.0001 | 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 | 0.00505 | 0.13355 |
| SinmeB_2400 | 0 | 0 | 0 |
| SinmeB_2401 | 0 | 0.0001 | 0 |
| SinmeB_2402 | 0 | 0.0049 | 0 |
| SinmeB_2406 | 0.0073 | 0.000666666666666667 | NA |
| SinmeB_2408 | 0.0014 | 0 | NA |
| SinmeB_2409 | 0 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|------------------------|----------|
| SinmeB_2410 | 0 | 0.0001 | 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 | 0.0426 | 0.22516 |
| SinmeB_2421 | 0 | 0 | 0 |
| SinmeB_2422 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_2423 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_2425 | 0 | 0.0024 | 0 |
| SinmeB_2427 | 0.00115 | 0 | NA |
| SinmeB_2429 | 0 | 0 | 0 |
| SinmeB_2432 | 0 | 0.0001 | 0 |
| SinmeB_2433 | 0 | 0.0001 | 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 | 0.0020333333333333333 | NA |
| SinmeB_2440 | 0 | 0.0001 | 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 |
| 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 | 0.0018 | 0 |
| SinmeB_2459 | 0 | 0.01375 | 0 |
| SinmeB_2460 | 0.00105 | 0.00005 | 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 | 0.0001 | 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|---------|----------|
| SinmeB_2478 | 0.0008 | 0 | NA |
| SinmeB_2481 | 0.0021 | 0 | NA |
| SinmeB_2484 | 0.0014 | 0 | NA |
| SinmeB_2486 | 0.0006 | 0.0025 | 0.23297 |
| SinmeB_2489 | 0.0006 | 0.0019 | 0.3266 |
| SinmeB_2491 | 0.0015 | 0 | NA |
| SinmeB_2492 | 0 | 0.0035 | 0 |
| SinmeB_2494 | 0 | 0.0001 | 0 |
| SinmeB_2495 | 0 | 0.0001 | 0 |
| SinmeB_2497 | 0 | 0.0065 | 0 |
| SinmeB_2498 | 0 | 0.0001 | 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 | 0.1492 |
| SinmeB_2521 | 0 | 0.0033 | 0 |
| SinmeB_2523 | 0 | 0.00305 | 0 |
| SinmeB_2526 | 0.00048 | 0.00002 | NA |
| SinmeB_2527 | 0.00155 | 0 | NA |
| SinmeB_2528 | 0.00136 | 0.00004 | NA |
| SinmeB_2529 | 0 | 0 | 0 |
| SinmeB_2530 | 0 | 0.0053 | 0 |
| SinmeB_2531 | 0 | 0.0001 | 0 |
| SinmeB_2532 | 0.0017 | 0 | NA |
| SinmeB_2533 | 0 | 0 | 0 |
| SinmeB_2534 | 0 | 0.0001 | 0 |
| SinmeB_2535 | 0 | 0 | 0 |
| SinmeB_2536 | 0 | 0.0052 | 0 |
| SinmeB_2543 | 0 | 0.0001 | 0 |
| SinmeB_2544 | 0.0008 | 0 | NA |
| SinmeB_2545 | 0 | 0.0001 | 0 |
| SinmeB_2547 | 0 | 0.0086 | 0 |
| SinmeB_2551 | 0 | 0 | 0 |
| SinmeB_2553 | 0 | 0.0044 | 0 |
| SinmeB_2554 | 0 | 0 | 0 |
| SinmeB_2556 | 0 | 0.0001 | 0 |
| SinmeB_2557 | 0 | 0 | 0 |
| SinmeB_2558 | 0 | 0.00265 | 0 |
| SinmeB_2559 | 0.001 | 0 | NA |
| SinmeB_2561 | 0 | 0.0001 | 0 |
| SinmeB_2562 | 0 | 0.0001 | 0 |
| SinmeB_2564 | 0.0012 | 0.0056 | 0.22366 |
| SinmeB_2565 | 0 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------|----------------------|----------|
| 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 | 0.0001 | 0 |
| SinmeB_2573 | 0 | 0 | 0 |
| SinmeB_2574 | 0 | 0.002333333333333333 | 0 |
| SinmeB_2576 | 0.0013 | 0 | NA |
| SinmeB_2577 | 0.0012 | 0 | NA |
| SinmeB_2578 | 0 | 0 | 0 |
| SinmeB_2579 | 0 | 0.0001 | 0 |
| SinmeB_2580 | 0.00085 | 0.00005 | 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 | 0.00005 | NA |
| SinmeB_2588 | 0 | 0 | 0 |
| SinmeB_2594 | 0.00085 | 0.00275 | 0.15713 |
| SinmeB_2595 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_2604 | 0 | 0.0001 | 0 |
| SinmeB_2606 | 0 | 0.0039 | 0 |
| SinmeB_2607 | 0 | 0 | 0 |
| 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 | 0.0023 | NA |
| SinmeB_2623 | 0 | 0.0047 | 0 |
| SinmeB_2626 | 0 | 0.00005 | 0 |
| SinmeB_2627 | 0.0022 | 0 | NA |
| SinmeB_2628 | 0.00055 | 0.00005 | NA |
| SinmeB_2630 | 0.0013 | 0 | NA |
| SinmeB_2631 | 0.0007 | 0 | NA |
| SinmeB_2632 | 0 | 0.0001 | 0 |
| SinmeB_2633 | 0 | 0.0046 | 0 |
| SinmeB_2634 | 0.0052 | 0 | NA |
| SinmeB_2635 | 0.0009 | 0.0035 | 0.24893 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|----------------------|----------|
| 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 | 0.00005 | NA |
| SinmeB_2655 | 0 | 0.0072 | 0 |
| SinmeB_2657 | 0.002 | 0.004266666666666667 | 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 | 0.0001 | 0 |
| SinmeB_2669 | 0.002466666666666667 | 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 | 0.0026 | 0 |
| SinmeB_2678 | 0 | 0.0081 | 0 |
| SinmeB_2680 | 0 | 0.0001 | 0 |
| SinmeB_2682 | 0.00045 | 0.0014 | NA |
| SinmeB_2684 | 0.0027 | 0 | NA |
| SinmeB_2686 | 0 | 0.0001 | 0 |
| SinmeB_2687 | 0 | 0 | 0 |
| SinmeB_2688 | 0 | 0 | 0 |
| SinmeB_2689 | 0 | 0.00005 | 0 |
| SinmeB_2691 | 0.0009 | 0 | NA |
| SinmeB_2693 | 0 | 0.0001 | 0 |
| SinmeB_2696 | 0.0039 | 0.0006 | 6.22481 |
| SinmeB_3062 | 0.0014 | 0.0048 | 0.28712 |
| SinmeB_3063 | 0.001 | 0 | NA |
| SinmeB_3064 | 0 | 0.0001 | 0 |
| SinmeB_3065 | 0.0009 | 0 | NA |
| SinmeB_3066 | 0 | 0.0001 | 0 |
| SinmeB_3068 | 0 | 0.0001 | 0 |
| SinmeB_3072 | 0 | 0.0031 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|----------------------|----------|
| SinmeB_3074 | 0 | 0 | 0 |
| SinmeB_3075 | 0 | 0 | 0 |
| SinmeB_3078 | 0.0042 | 0 | NA |
| SinmeB_3079 | 0 | 0.00005 | 0 |
| SinmeB_3080 | 0 | 0.0044 | 0 |
| SinmeB_3082 | 0 | 0.0001 | 0 |
| SinmeB_3083 | 0.0005 | 0 | NA |
| SinmeB_3085 | 0.0026 | 0 | NA |
| SinmeB_3086 | 0 | 0.000066666666666667 | 0 |
| SinmeB_3089 | 0.0011 | 0.0018 | 0.62472 |
| SinmeB_3090 | 0 | 0 | 0 |
| SinmeB_3091 | 0 | 0.0001 | 0 |
| SinmeB_3092 | 0 | 0.0001 | 0 |
| SinmeB_3093 | 0 | 0.00295 | 0 |
| SinmeB_3095 | 0.0007 | 0.0063 | 0.11016 |
| SinmeB_3096 | 0 | 0.0001 | 0 |
| SinmeB_3097 | 0.0015 | 0.00125 | NA |
| SinmeB_3100 | 0.0016 | 0 | NA |
| SinmeB_3101 | 0 | 0.0001 | 0 |
| SinmeB_3102 | 0.0029 | 0 | NA |
| SinmeB_3103 | 0.0008 | 0.00005 | NA |
| SinmeB_3104 | 0.0017 | 0 | NA |
| SinmeB_3105 | 0.0012 | 0 | NA |
| SinmeB_3106 | 0.0022 | 0 | NA |
| SinmeB_3107 | 0 | 0.0001 | 0 |
| SinmeB_3108 | 0.00075 | 0.00005 | NA |
| SinmeB_3110 | 0 | 0 | 0 |
| SinmeB_3112 | 0 | 0 | 0 |
| SinmeB_3115 | 0.0009 | 0 | NA |
| SinmeB_3116 | 0 | 0 | 0 |
| SinmeB_3117 | 0 | 0 | 0 |
| SinmeB_3119 | 0.0007 | 0.00005 | NA |
| SinmeB_3120 | 0 | 0 | 0 |
| SinmeB_3121 | 0 | 0.00305 | 0 |
| SinmeB_3122 | 0.0011 | 0.0068 | 0.15871 |
| SinmeB_3123 | 0 | 0.0001 | 0 |
| SinmeB_3124 | 0 | 0.0034 | 0 |
| SinmeB_3125 | 0 | 0 | 0 |
| SinmeB_3126 | 0 | 0 | 0 |
| SinmeB_3127 | 0 | 0.00005 | 0 |
| SinmeB_3128 | 0.0011 | 0 | NA |
| SinmeB_3130 | 0 | 0 | 0 |
| SinmeB_3133 | 0 | 0 | 0 |
| SinmeB_3134 | 0 | 0.0001 | 0 |
| SinmeB_3135 | 0 | 0.0001 | 0 |
| SinmeB_3136 | 0 | 0 | 0 |
| SinmeB_3137 | 0.0013 | 0 | NA |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|----------------------|-----------------------|----------|
| SinmeB_3139 | 0.0009 | 0 | NA |
| SinmeB_3140 | 0 | 0.00005 | 0 |
| SinmeB_3141 | 0.0004 | 0.0039 | 0.10489 |
| SinmeB_3143 | 0 | 0.0035 | 0 |
| SinmeB_3144 | 0.00165 | 0 | NA |
| SinmeB_3145 | 0.001933333333333333 | 0 | NA |
| SinmeB_3147 | 0.0011 | 0.0062 | 0.18162 |
| SinmeB_3149 | 0 | 0.00005 | 0 |
| SinmeB_3150 | 0 | 0.0034 | 0 |
| SinmeB_3151 | 0 | 0 | 0 |
| SinmeB_3153 | 0.0038 | 0 | NA |
| SinmeB_3154 | 0 | 0.0001 | 0 |
| SinmeB_3155 | 0 | 0 | 0 |
| SinmeB_3157 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_3165 | 0 | 0 | 0 |
| SinmeB_3166 | 0 | 0.0097 | 0 |
| SinmeB_3167 | 0.0032 | 0 | NA |
| SinmeB_3168 | 0 | 0.0000666666666666667 | 0 |
| SinmeB_3169 | 0 | 0 | 0 |
| SinmeB_3171 | 0 | 0.0001 | 0 |
| SinmeB_3172 | 0 | 0.0001 | 0 |
| SinmeB_3173 | 0 | 0.0041 | 0 |
| SinmeB_3175 | 0.0004 | 0.00165 | 0.122245 |
| SinmeB_3176 | 0.001 | 0.0041 | 0.239 |
| SinmeB_3248 | 0 | 0 | 0 |
| SinmeB_3249 | 0.0036 | 0 | NA |
| SinmeB_3250 | 0 | 0.00005 | 0 |
| SinmeB_3251 | 0 | 0.0029 | 0 |
| SinmeB_3252 | 0 | 0.0001 | 0 |
| SinmeB_3253 | 0 | 0 | 0 |
| SinmeB_3254 | 0 | 0.00565 | 0 |
| SinmeB_3255 | 0 | 0.0031 | 0 |
| SinmeB_3256 | 0 | 0.0001 | 0 |
| SinmeB_3258 | 0.0011 | 0.0036 | 0.31317 |
| SinmeB_3259 | 0 | 0.0001 | 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 | 0.00005 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|------------------------|----------|
| SinmeB_3267 | 0.0025 | 0 | NA |
| SinmeB_3268 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_3279 | 0 | 0.00005 | 0 |
| SinmeB_3281 | 0 | 0 | 0 |
| SinmeB_3282 | 0 | 0.0001 | 0 |
| SinmeB_3283 | 0 | 0 | 0 |
| SinmeB_3284 | 0 | 0 | 0 |
| SinmeB_3285 | 0 | 0.00005 | 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 | 0.00003333333333333333 | 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 | 0.0001 | 0 |
| SinmeB_3302 | 0 | 0 | 0 |
| SinmeB_3304 | 0.0005 | 0.0057 | 0.0858 |
| SinmeB_3306 | 0 | 0.0001 | 0 |
| SinmeB_3307 | 0 | 0.0019 | 0 |
| SinmeB_3308 | 0.00175 | 0.00005 | NA |
| SinmeB_3309 | 0.0031 | 0 | NA |
| SinmeB_3310 | 0 | 0.0127 | 0 |
| SinmeB_3311 | 0 | 0.0001 | 0 |
| SinmeB_3314 | 0 | 0.0001 | 0 |
| SinmeB_3315 | 0 | 0.0001 | 0 |
| SinmeB_3316 | 0 | 0 | 0 |
| SinmeB_3317 | 0 | 0.00005 | 0 |
| SinmeB_3318 | 0 | 0.00005 | 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 | 0.0001 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------|------------------------|----------|
| SinmeB_3324 | 0 | 0.0103 | 0 |
| SinmeB_3325 | 0 | 0.0041 | 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 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_3341 | 0 | 0.000166666666666667 | 0 |
| SinmeB_3343 | 0.001 | 0 | NA |
| SinmeB_3344 | 0 | 0.0001 | 0 |
| SinmeB_3345 | 0 | 0.0049 | 0 |
| SinmeB_3346 | 0 | 0.00005 | 0 |
| SinmeB_3348 | 0 | 0.00003333333333333333 | 0 |
| SinmeB_3351 | 0.001 | 0.009 | 0.05461 |
| SinmeB_3352 | 0.002 | 0.0045 | 0.43194 |
| SinmeB_3354 | 0.0023 | 0 | NA |
| SinmeB_3355 | 0 | 0.0118 | 0 |
| SinmeB_3356 | 0 | 0 | 0 |
| SinmeB_3358 | 0 | 0.0001 | 0 |
| SinmeB_3359 | 0 | 0.0076 | 0 |
| SinmeB_3361 | 0.0007 | 0 | NA |
| SinmeB_3363 | 0.0023 | 0 | NA |
| SinmeB_3364 | 0 | 0 | 0 |
| SinmeB_3365 | 0.0007 | 0 | NA |
| SinmeB_3367 | 0 | 0 | 0 |
| SinmeB_3368 | 0 | 0.0001 | 0 |
| SinmeB_3376 | 0.0004 | 0.0007 | 0.65336 |
| SinmeB_3383 | 0 | 0 | 0 |
| SinmeB_3384 | 0 | 0.008 | 0 |
| SinmeB_3385 | 0.0008 | 0 | NA |
| SinmeB_3391 | 0 | 0.0001 | 0 |
| SinmeB_3393 | 0.0008 | 0.00005 | 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|-------------|---------|---------|----------|
| SinmeB_3411 | 0 | 0 | 0 |
| SinmeB_3413 | 0.00055 | 0.003 | 0.09082 |
| SinmeB_3415 | 0.0013 | 0.0028 | 0.46835 |
| SinmeB_3419 | 0 | 0 | 0 |
| SinmeB_3420 | 0 | 0.00005 | 0 |
| SinmeB_3421 | 0.0015 | 0 | NA |
| SinmeB_3423 | 0 | 0.0001 | 0 |
| SinmeB_3424 | 0 | 0 | 0 |
| SinmeB_3427 | 0.001 | 0.0012 | 0.85613 |
| SinmeB_3429 | 0 | 0.0033 | 0 |
| SinmeB_3432 | 0.0008 | 0 | NA |
| SinmeB_3434 | 0.0011 | 0.005 | 0.21714 |
| SinmeB_3436 | 0.0013 | 0.0053 | 0.25056 |
| SinmeB_3439 | 0 | 0.0001 | 0 |
| SinmeB_3441 | 0.0019 | 0 | NA |
| SinmeB_3442 | 0 | 0.0026 | 0 |
| SinmeB_3444 | 0 | 0.0001 | 0 |
| SinmeB_3445 | 0 | 0.0001 | 0 |
| SinmeB_3446 | 0 | 0 | 0 |
| SinmeB_3447 | 0 | 0.0001 | 0 |
| SinmeB_3448 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SinmeB_3457 | 0.0023 | 0 | NA |
| SinmeB_3458 | 0.0014 | 0 | NA |
| SMc00010 | 0.0007 | 0.0119 | 0.05943 |
| SMc00018 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SMc00073 | 0.0016 | 0.0055 | 0.2862 |
| SMc00074 | 0 | 0.0034 | 0 |
| SMc00077 | 0 | 0.004 | 0 |
| SMc00081 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|----------|
| SMc00083 | 0 | 0 | 0 |
| SMc00086 | 0 | 0.0047 | 0 |
| SMc00092 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SMc00138 | 0 | 0.0001 | 0 |
| SMc00139 | 0 | 0.0001 | 0 |
| SMc00141 | 0.0009 | 0 | NA |
| SMc00142 | 0.0024 | 0 | NA |
| SMc00154 | 0 | 0.0041 | 0 |
| SMc00161 | 0.0008 | 0 | NA |
| SMc00162 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SMc00261 | 0 | 0.0024 | 0 |
| SMc00273 | 0 | 0 | 0 |
| SMc00276 | 0.0014 | 0 | NA |
| SMc00297 | 0 | 0 | 0 |
| SMc00302 | 0.0036 | 0 | NA |
| SMc00321 | 0 | 0 | 0 |
| SMc00323 | 0 | 0 | 0 |
| SMc00325 | 0 | 0.0102 | 0 |
| SMc00329 | 0 | 0.0001 | 0 |
| SMc00333 | 0.0009 | 0.005 | 0.17494 |
| SMc00339 | 0.0007 | 0 | NA |
| SMc00342 | 0 | 0.0088 | 0 |
| SMc00343 | 0.0011 | 0 | NA |
| SMc00364 | 0 | 0 | 0 |
| SMc00373 | 0 | 0.0096 | 0 |
| SMc00379 | 0 | 0.0076 | 0 |
| SMc00384 | 0 | 0.0001 | 0 |
| SMc00388 | 0.0036 | 0 | NA |
| SMc00390 | 0 | 0.0001 | 0 |
| SMc00395 | 0 | 0 | 0 |
| SMc00400 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|----------|
| SMc00403 | 0.001 | 0 | NA |
| SMc00410 | 0.0013 | 0 | NA |
| SMc00430 | 0 | 0.0046 | 0 |
| SMc00452 | 0 | 0 | 0 |
| SMc00454 | 0 | 0 | 0 |
| SMc00471 | 0.0005 | 0 | NA |
| SMc00478 | 0 | 0.0026 | 0 |
| SMc00485 | 0 | 0.0001 | 0 |
| SMc00492 | 0.0033 | 0.0205 | 0.16144 |
| SMc00518 | 0 | 0 | 0 |
| SMc00531 | 0.0016 | 0 | NA |
| SMc00534 | 0 | 0 | 0 |
| SMc00537 | 0 | 0.0001 | 0 |
| SMc00560 | 0 | 0 | 0 |
| SMc00561 | 0.0008 | 0.0089 | 0.09019 |
| SMc00562 | 0 | 0.0001 | 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 | 0.0001 | 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 | 0.0001 | 0 |
| SMc00919 | 0.0016 | 0 | NA |
| SMc00922 | 0.0025 | 0 | NA |
| SMc00929 | 0.0013 | 0 | NA |
| SMc00939 | 0 | 0.0001 | 0 |
| SMc00945 | 0 | 0 | 0 |
| SMc00951 | 0 | 0 | 0 |
| SMc00955 | 0.0011 | 0.0039 | 0.2853 |
| SMc00956 | 0 | 0 | 0 |
| SMc00966 | 0.0035 | 0.0037 | 0.93697 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|---------|----------|
| SMc00968 | 0.0013 | 0 | NA |
| 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 | 0.0042 | 0.01685 | 0.12483 |
| SMc01028 | 0.0019 | 0.0708 | 0.02708 |
| SMc01110 | 0 | 0 | 0 |
| SMc01118 | 0 | 0 | 0 |
| SMc01122 | 0 | 0.0133 | 0 |
| SMc01139 | 0 | 0 | 0 |
| SMc01143 | 0 | 0.0001 | 0 |
| SMc01151 | 0 | 0.0172 | 0 |
| SMc01157 | 0.0017 | 0.0055 | 0.31205 |
| SMc01159 | 0 | 0 | 0 |
| SMc01161 | 0 | 0 | 0 |
| SMc01190 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SMc01306 | 0 | 0.0263 | 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|----------|
| SMc01457 | 0 | 0 | 0 |
| SMc01488 | 0 | 0.0094 | 0 |
| SMc01491 | 0.0004 | 0.0043 | 0.09976 |
| SMc01496 | 0 | 0.0001 | 0 |
| SMc01497 | 0.0014 | 0 | NA |
| SMc01500 | 0 | 0.0076 | 0 |
| SMc01503 | 0 | 0.0001 | 0 |
| SMc01513 | 0.0012 | 0.0044 | 0.28053 |
| SMc01525 | 0.0016 | 0 | NA |
| SMc01531 | 0 | 0.0001 | 0 |
| SMc01534 | 0 | 0.0045 | 0 |
| SMc01542 | 0 | 0 | 0 |
| SMc01559 | 0 | 0.0001 | 0 |
| SMc01578 | 0 | 0.0001 | 0 |
| SMc01580 | 0 | 0.0001 | 0 |
| SMc01581 | 0.005 | 0 | NA |
| SMc01583 | 0.0021 | 0 | NA |
| SMc01584 | 0 | 0 | 0 |
| SMc01585 | 0 | 0.0001 | 0 |
| SMc01586 | 0 | 0 | 0 |
| SMc01587 | 0 | 0 | 0 |
| SMc01609 | 0 | 0.0001 | 0 |
| SMc01611 | 0.0006 | 0 | NA |
| SMc01613 | 0 | 0.0001 | 0 |
| SMc01619 | 0.0013 | 0 | NA |
| SMc01625 | 0 | 0.0001 | 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 |
| SMc01711 | 0.005 | 0.0231 | 0.21753 |
| SMc01712 | 0 | 0.0191 | 0 |
| SMc01725 | 0.0018 | 0.0066 | 0.27841 |
| SMc01728 | 0.0011 | 0.018 | 0.06341 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|-----------|
| SMc01823 | 0 | 0 | 0 |
| SMc01825 | 0.0014 | 0.0123 | 0.11463 |
| SMc01826 | 0 | 0.0001 | 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 | 0.0001 | 0 |
| SMc01961 | 0.0013 | 0 | NA |
| SMc01981 | 0 | 0.0001 | 0 |
| SMc02048 | 0 | 0.0171 | 0 |
| SMc02070 | 0.0015 | 0.0347 | 0.04433 |
| SMc02078 | 0 | 0.031 | 0 |
| SMc02082 | 0.0138 | 0.2012 | 0.06874 |
| 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 |
| SMc02173 | 0 | 0.0529 | 0 |
| SMc02174 | 0.0029 | 0.034 | 0.08584 |
| 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 | 0.0074 | 0.0001 | 106.68707 |
| 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 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|----------|
| 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 | 0.0001 | 0 |
| SMc02396 | 0 | 0.0042 | 0 |
| SMc02407 | 0 | 0.0001 | 0 |
| SMc02418 | 0 | 0.0001 | 0 |
| SMc02469 | 0.0011 | 0 | NA |
| SMc02488 | 0.0012 | 0 | NA |
| SMc02494 | 0 | 0.0023 | 0 |
| SMc02509 | 0 | 0 | 0 |
| SMc02564 | 0 | 0 | 0 |
| SMc02570 | 0 | 0 | 0 |
| SMc02572 | 0 | 0.0001 | 0 |
| SMc02575 | 0 | 0 | 0 |
| SMc02588 | 0 | 0.0027 | 0 |
| SMc02592 | 0 | 0 | 0 |
| SMc02599 | 0.0008 | 0.0065 | 0.12004 |
| SMc02603 | 0.001 | 0 | NA |
| SMc02609 | 0 | 0 | 0 |
| SMc02610 | 0 | 0 | 0 |
| SMc02611 | 0 | 0.0059 | 0 |
| SMc02612 | 0 | 0.0001 | 0 |
| SMc02616 | 0 | 0 | 0 |
| SMc02634 | 0 | 0.0027 | 0 |
| SMc02646 | 0.0026 | 0.0048 | 0.54043 |
| SMc02655 | 0 | 0.0071 | 0 |
| SMc02658 | 0 | 0.0001 | 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 |
| SMc02753 | 0 | 0 | 0 |
| SMc02770 | 0 | 0.0001 | 0 |
| SMc02773 | 0 | 0.0033 | 0 |
| SMc02777 | 0.0014 | 0 | NA |
| SMc02792 | 0.0024 | 0 | NA |
| SMc02813 | 0 | 0 | 0 |
| SMc02818 | 0 | 0.0001 | 0 |
| SMc02837 | 0 | 0 | 0 |
| SMc02859 | 0 | 0 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|----------|-----------|-----------|
| SMc02892 | 0 | 0 | 0 |
| SMc02898 | 0.0034 | 0 | NA |
| SMc02908 | 0 | 0.0095 | 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 | 1.462325 | 40.601575 | 0.0615525 |
| SMc03043 | 0.0102 | 0.0916 | 0.11187 |
| SMc03047 | 0.0133 | 0.3602 | 0.03706 |
| 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 | 0.0001 | 0 |
| SMc03882 | 0 | 0.0001 | 0 |
| SMc04088 | 0 | 0.0071 | 0 |
| SMc04092 | 0 | 0 | 0 |
| SMc04112 | 0 | 0.0001 | 0 |
| SMc04115 | 0 | 0.0117 | 0 |
| SMc04117 | 0 | 0 | 0 |
| SMc04119 | 0 | 0 | 0 |
| SMc04130 | 0 | 0 | 0 |
| SMc04132 | 0 | 0 | 0 |
| SMc04148 | 0 | 0.0019 | 0 |
| SMc04149 | 0 | 0.0001 | 0 |
| SMc04178 | 0.0017 | 0 | NA |
| SMc04179 | 0 | 0.0001 | 0 |
| SMc04183 | 0 | 0 | 0 |
| SMc04194 | 0 | 0 | 0 |
| SMc04204 | 0 | 0 | 0 |
| SMc04208 | 0 | 0.0056 | 0 |

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Table S4 – continued from previous page

| Gene | dN | dS | ω |
|----------|--------|--------|----------|
| SMc04219 | 0 | 0.0001 | 0 |
| SMc04221 | 0 | 0 | 0 |
| SMc04227 | 0 | 0 | 0 |
| SMc04228 | 0 | 0.0001 | 0 |
| SMc04240 | 0 | 0.0001 | 0 |
| SMc04252 | 0.0012 | 0.0062 | 0.19134 |
| SMc04254 | 0 | 0 | 0 |
| SMc04256 | 0 | 0 | 0 |
| SMc04266 | 0 | 0.0001 | 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 | 0.0001 | 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 | 0.0001 | 0 |
| SMc04398 | 0 | 0.0001 | 0 |
| SMc04440 | 0 | 0.0001 | 0 |
| SMc04446 | 0.0007 | 0.0033 | 0.20701 |
| SMc04450 | 0 | 0.0026 | 0 |
| SMc04463 | 0.0043 | 0 | NA |
| SMc04882 | 0 | 0 | 0 |

Table S5: Per gene dN , dS , and ω values calculated for *S. meliloti* pSymA.

| <i>Sinorhizobium meliloti</i> pSymA | | | |
|-------------------------------------|---------|--------|----------|
| Gene | dN | dS | ω |
| DU99_18040 | 0.0233 | 0.1227 | 0.18971 |
| DU99_18060 | 0.0215 | 0.1028 | 0.20968 |
| DU99_18090 | 0.0485 | 0.2451 | 0.19805 |
| DU99_18105 | 0.0162 | 0.1801 | 0.08976 |
| DU99_18175 | 0.04505 | 0.2577 | 0.157155 |
| DU99_18180 | 0.006 | 0.0952 | 0.06262 |
| DU99_18185 | 0.04605 | 0.1862 | 0.27531 |
| DU99_18205 | 0.0108 | 0.0906 | 0.11948 |
| DU99_18220 | 0.0069 | 0.0743 | 0.09266 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|-------------------|--------------------|-------------------|
| DU99_18230 | 0.003 | 0.1891 | 0.01578 |
| DU99_18260 | 0.005 | 0.0087 | 0.57387 |
| DU99_18265 | 0 | 0 | 0 |
| DU99_18280 | 0 | 0.00005 | 0 |
| DU99_18285 | 0 | 0.0001 | 0 |
| DU99_18375 | 0.0048 | 0.0366 | 0.13014 |
| DU99_18420 | 0.0087 | 0.1054 | 0.0829 |
| DU99_18450 | 0 | 0 | 0 |
| DU99_18535 | 0.0063 | 0.1388 | 0.04514 |
| DU99_18570 | 0 | 0.0324 | 0 |
| DU99_18655 | 0.0132 | 0.0946 | 0.13943 |
| DU99_18825 | 0.0027 | 0.016 | 0.08507 |
| DU99_18915 | 0.00305 | 0.00005 | NA |
| DU99_19155 | 0.0229 | 0.0983 | 0.23329 |
| DU99_19275 | 0.0114 | 0.0925 | 0.12341 |
| DU99_19470 | 4.24255 | 15.1161 | 0.260595 |
| DU99_20050 | 8.278075 | 12.37925 | 252.2989775 |
| DU99_20080 | 0.0007 | 0.0557 | 0.01328 |
| DU99_20085 | 0.0087 | 0.0159 | 0.54644 |
| DU99_20100 | 4.50585 | 18.13752 | 300.04434 |
| DU99_20105 | 3.89075 | 3.5728 | 126.4636875 |
| DU99_20165 | 0.0127 | 0.0479 | 0.26562 |
| DU99_20245 | 0.0043 | 0.0226 | 0.18912 |
| DU99_20295 | 0 | 0.0255 | 0 |
| DU99_20300 | 0 | 0.0001 | 0 |
| DU99_20305 | 0.0413 | 0.1026 | 0.40231 |
| DU99_20350 | 0 | 0.0255 | 0 |
| DU99_20505 | 0.041 | 0.1784 | 0.22973 |
| DU99_20570 | 0.0042 | 0.0887 | 0.04732 |
| DU99_20640 | 0.0161 | 0.1102 | 0.14597 |
| DU99_20655 | 0.0246 | 0.0997 | 0.24651 |
| DU99_20795 | 5.172616666666667 | 11.702133333333333 | 1.241963333333333 |
| DU99_20800 | 1.9147 | 73.827 | 0.02593 |
| DU99_20805 | 7.7744 | 18.9984 | 1.630815 |
| DU99_20840 | NA | NA | NA |
| DU99_20875 | 0.008 | 0.0753 | 0.10642 |
| DU99_20885 | 5.53978 | 12.0677 | 200.335422 |
| DU99_20975 | 0.15465 | 0.00015 | 499.5 |
| DU99_20980 | 3.9869 | 30.144 | 0.23116 |
| DU99_21445 | 0.0208 | 0.1161 | 0.1794 |
| DU99_21450 | 0.0349 | 0.1639 | 0.21313 |
| DU99_21495 | 0.0156 | 0 | NA |
| DU99_21680 | 0.0525 | 0.6483 | 0.08092 |
| DU99_21775 | 0.0118 | 0.0609 | 0.1938 |
| DU99_21805 | 0.0638 | 0.0784 | 0.81441 |
| DU99_21825 | 0.0068 | 0.0448 | 0.15174 |
| DU99_21920 | 0.008 | 0.0154 | 0.5215 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| DU99_21930 | 0.0012 | 0.021 | 0.05873 |
| DU99_21950 | 0.0017 | 0 | NA |
| DU99_21970 | 0.0026 | 0.021 | 0.12365 |
| DU99_21975 | 0 | 0 | 0 |
| DU99_21980 | 0 | 0.0454 | 0 |
| DU99_21995 | 0.002 | 0.0217 | 0.09013 |
| DU99_22005 | 0 | 0 | 0 |
| DU99_22040 | 0.0014 | 0.0171 | 0.08186 |
| DU99_22045 | 0 | 0.0064 | 0 |
| DU99_22050 | 0 | 0.0225 | 0 |
| DU99_22080 | 0.00775 | 0.0058 | NA |
| DU99_22105 | 0 | 0.0345 | 0 |
| DU99_22115 | 0.0048 | 0.0373 | 0.12832 |
| DU99_22120 | 0.0039 | 0.0217 | 0.18151 |
| DU99_22200 | 0.0014 | 0.0428 | 0.03195 |
| DU99_22205 | 0.0074 | 0.0339 | 0.21775 |
| DU99_22210 | 0.0033 | 0.0272 | 0.11969 |
| DU99_22235 | 0.0013 | 0.0308 | 0.0414 |
| DU99_22260 | 0.0073 | 0.2318 | 0.0316 |
| DU99_22270 | 0 | 0.021 | 0 |
| DU99_22285 | 0 | 0.0797 | 0 |
| DU99_22290 | 0 | 0.0241 | 0 |
| DU99_22300 | 0.0052 | 0.047 | 0.10992 |
| DU99_22305 | 0.0089 | 0.048 | 0.18646 |
| DU99_22315 | 0.0027 | 0.0476 | 0.05604 |
| DU99_22320 | 0.0026 | 0.0725 | 0.03608 |
| DU99_22415 | 0.0071 | 0.0637 | 0.1119 |
| DU99_22490 | 0.043 | 0 | NA |
| DU99_22610 | 0.0015 | 0.0047 | 0.30829 |
| DU99_22620 | 0.0026 | 0 | NA |
| DU99_22630 | 0 | 0.0118 | 0 |
| DU99_22640 | 0 | 0 | 0 |
| DU99_22665 | 0.0019 | 0.0064 | 0.30194 |
| DU99_22680 | 0 | 0.003 | 0 |
| DU99_22690 | 0.0102 | 0.0252 | 0.40497 |
| DU99_22705 | 0.0033 | 0.0169 | 0.19675 |
| DU99_22775 | 0.0117 | 0.228 | 0.05144 |
| DU99_22805 | 0 | 0.0062 | 0 |
| DU99_22920 | 0.0099 | 0 | NA |
| DU99_23090 | 0.0066 | 0.0226 | 0.29249 |
| DU99_23100 | 0.0058 | 0.04 | 0.207525 |
| DU99_23115 | 0.012 | 0.0631 | 0.18999 |
| DU99_23135 | 0.0081 | 0.0586 | 0.13772 |
| DU99_23155 | 0 | 0.00005 | 0 |
| DU99_23175 | 0.0015 | 0.0049 | 0.30457 |
| DU99_23260 | 0.0026 | 0.0118 | 0.22288 |
| DU99_23270 | 0.0044 | 0.0084 | 0.51885 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|--------------------|--------------------|
| DU99_23275 | 0.00095 | 0.00455 | 0.105525 |
| DU99_23330 | 0.0072 | 0.0565 | 0.12672 |
| DU99_23360 | 0.0081 | 0.0724 | 0.11441 |
| DU99_23445 | 0.009 | 0.0914 | 0.09807 |
| DU99_23465 | 0.0003 | 2.8736 | 0.0001 |
| DU99_23480 | 24.79956 | 5.88308 | 601.377544 |
| DU99_23515 | 0.01395 | 0.13335 | 0.109065 |
| DU99_23560 | 0.0358 | 0.0699 | 0.51195 |
| DU99_23565 | 0.0099 | 0.1115 | 0.08867 |
| DU99_23625 | 0.0125 | 0.0688 | 0.18188 |
| DU99_24505 | 0.0141 | 0.0626 | 0.22579 |
| DU99_24715 | 0.007966666666666667 | 0.1260333333333333 | 0.03965 |
| DU99_24720 | 0.0257 | 0.2113 | 0.12166 |
| DU99_24725 | 0.036566666666666667 | 0.1587333333333333 | 0.2581566666666667 |
| DU99_24730 | 0.0245 | 0.3146 | 0.07792 |
| DU99_24740 | 0.014 | 0.2527 | 0.05556 |
| DU99_24745 | 0.0217 | 0.0809 | 0.26778 |
| DU99_24760 | 0.0113 | 0.2494 | 0.045285 |
| DU99_24775 | 0.0282 | 0.1517 | 0.18586 |
| DU99_24780 | 0.016 | 0.143 | 0.11187 |
| DU99_24785 | 0.0013 | 0.0514 | 0.02605 |
| DU99_24800 | 0.0064 | 0.0122 | 0.52829 |
| DU99_24805 | 0.0158 | 0.0873 | 0.18054 |
| DU99_24810 | 0.0094 | 0.1643 | 0.05723 |
| DU99_24825 | 0.0266 | 0.1604 | 0.17104 |
| DU99_24830 | 0.0342 | 0.107 | 0.31942 |
| DU99_24835 | 0.0269 | 0.2524 | 0.21339 |
| DU99_24840 | 0.0267 | 0.2317 | 0.11519 |
| DU99_24865 | 0.0011 | 0.1264 | 0.00908 |
| Sinme_5277 | 0.0068 | 0.0267 | 0.25556 |
| Sinme_5279 | 0.0051 | 0.1163 | 0.04392 |
| Sinme_5281 | 0.0039 | 0.1419 | 0.02718 |
| Sinme_5282 | 0.0145 | 0.1396 | 0.10371 |
| Sinme_5283 | 0.02105 | 0.139 | 0.150315 |
| Sinme_5288 | 0.0293 | 0.0743 | 0.39492 |
| Sinme_5295 | 0.0631 | 0.1849 | 0.34137 |
| Sinme_5296 | 0.0142 | 0.1678 | 0.08438 |
| Sinme_5298 | 0.0254 | 0.1478 | 0.17203 |
| Sinme_5300 | 0.022 | 0.2171 | 0.10113 |
| Sinme_5306 | 1.1927 | 10.9629 | 334.216413333333 |
| Sinme_5308 | 0.01 | 0.2096 | 0.04791 |
| Sinme_5310 | 0.02015 | 0.1922 | 0.10548 |
| Sinme_5311 | 0.034 | 0.3264 | 0.10425 |
| Sinme_5312 | 0.0179 | 0.1372 | 0.13032 |
| Sinme_5313 | 0.0031 | 0.3213 | 0.00955 |
| Sinme_5315 | 0.0413 | 0.3298 | 0.12515 |
| Sinme_5316 | 0.0088 | 0.1307 | 0.06717 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|-------------------|-----------|
| Sinme_5317 | 0.04895 | 0.4695 | 0.1250325 |
| Sinme_5321 | 0.0161666666666667 | 0.183333333333333 | 0.09105 |
| Sinme_5323 | 0.01 | 0.105 | 0.09557 |
| Sinme_5324 | 0.0396 | 0.1068 | 0.37043 |
| Sinme_5325 | 0.0221 | 0.1151 | 0.19231 |
| Sinme_5328 | 0.0027 | 0.0465 | 0.05839 |
| Sinme_5332 | 0.0064 | 0.1643 | 0.03908 |
| Sinme_5333 | 0.00425 | 0.23785 | 0.024535 |
| Sinme_5334 | 0.0041 | 0.0142 | 0.28963 |
| Sinme_5341 | 0.0015 | 0.013 | 0.11488 |
| Sinme_5342 | 0.0037 | 0.00005 | NA |
| Sinme_5345 | 0.0008 | 0.0088 | 0.08901 |
| Sinme_5348 | 0 | 0 | 0 |
| Sinme_5349 | 0 | 0.0001 | 0 |
| Sinme_5350 | 0 | 0.018 | 0 |
| Sinme_5351 | 0.0155 | 0.0209 | 0.7397 |
| Sinme_5352 | 0 | 0.0079 | 0 |
| Sinme_5354 | 0.0056 | 0.02 | 0.28205 |
| Sinme_5356 | 0.0273 | 0.1365 | 0.19996 |
| Sinme_5357 | 0.00485 | 0.0056 | 0.782515 |
| Sinme_5358 | 0.0074 | 0.0062 | 1.19104 |
| Sinme_5359 | 0.0027 | 0 | NA |
| Sinme_5360 | 0.012 | 0.0483 | 0.24784 |
| Sinme_5361 | 0.0109 | 0.0713 | 0.15286 |
| Sinme_5363 | 0.001 | 0.0321 | 0.03075 |
| Sinme_5365 | 0.0016 | 0.02525 | 0.06401 |
| Sinme_5366 | 0.0022 | 0.0862 | 0.02551 |
| Sinme_5367 | 0 | 0.0339 | 0 |
| Sinme_5368 | 0.015075 | 0.029525 | 0.6639675 |
| Sinme_5369 | 0.016 | 0.0459 | 0.3486 |
| Sinme_5370 | 0.0014 | 0.1015 | 0.01354 |
| Sinme_5372 | 0.0134 | 0.1757 | 0.07639 |
| Sinme_5373 | 0.0132 | 0.0245 | 0.53859 |
| Sinme_5374 | 0.0066 | 0.02 | 0.32991 |
| Sinme_5376 | 0.0046 | 0.0269 | 0.16986 |
| Sinme_5377 | 0.0027 | 0.0212 | 0.12667 |
| Sinme_5378 | 0.0063 | 0.1134 | 0.05562 |
| Sinme_5379 | 0.0166 | 0.0417 | 0.39904 |
| Sinme_5380 | 0.00965 | 0.0858 | 0.11989 |
| Sinme_5381 | 0.0028 | 0.0344 | 0.08027 |
| Sinme_5386 | 0.0115 | 0.0576 | 0.20013 |
| Sinme_5387 | 0 | 0.0372 | 0 |
| Sinme_5388 | 0.003 | 0.02495 | 0.117085 |
| Sinme_5390 | 0.0056 | 0.0121 | 0.46824 |
| Sinme_5391 | 0.0075 | 0.0481 | 0.15624 |
| Sinme_5394 | 0.0051 | 0.0081 | 0.63184 |
| Sinme_5397 | 0.0026 | 0.0793 | 0.03267 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|------------------|--------------------|-------------------|
| Sinme_5398 | 0.0091 | 0.0519 | 0.17607 |
| Sinme_5399 | 0.0011 | 0.00325 | 0.173735 |
| Sinme_5401 | 0 | 0 | 0 |
| Sinme_5402 | 0.004 | 0.0227 | 0.17399 |
| Sinme_5404 | 0.0042 | 0.0132 | 0.386915 |
| Sinme_5406 | 0.001 | 0.0288 | 0.03501 |
| Sinme_5408 | 0.0028 | 0.0186 | 0.15003 |
| Sinme_5409 | 0.0123 | 0.0538 | 0.229 |
| Sinme_5410 | 0.0066 | 0.0192 | 0.34291 |
| Sinme_5413 | 0.0064 | 0.1012 | 0.06303 |
| Sinme_5415 | 0.008 | 0.18615 | 0.04133 |
| Sinme_5417 | 0.0042 | 0.1973 | 0.02152 |
| Sinme_5418 | 0.01315 | 0.09735 | 0.118125 |
| Sinme_5419 | 0.0057 | 0.0442 | 0.12859 |
| Sinme_5423 | 0.0152 | 0.0807 | 0.1883 |
| Sinme_5425 | 0.0072 | 0.0359 | 0.20131 |
| Sinme_5427 | 0.0055 | 0.0362 | 0.14242 |
| Sinme_5428 | 0.0045 | 0.0989 | 0.078485 |
| Sinme_5429 | 0.0026 | 0.0416 | 0.06359 |
| Sinme_5431 | 0.004 | 0.1693 | 0.02388 |
| Sinme_5432 | 0.0175 | 0.0892 | 0.19646 |
| Sinme_5436 | 0.0158 | 0.1128 | 0.1404 |
| Sinme_5437 | 0.032 | 0.0642 | 0.49897 |
| Sinme_5442 | 0.0214 | 0.2169 | 0.0987 |
| Sinme_5444 | 4.87586666666667 | 7.44833333333333 | 0.32305 |
| Sinme_5445 | 0.0034 | 0.0095666666666667 | 0.462113333333333 |
| Sinme_5446 | 0.0027 | 0.0215 | 0.12535 |
| Sinme_5448 | 0.0132 | 0.2207 | 0.05968 |
| Sinme_5449 | 0.1563 | 1.0995 | 0.140365 |
| Sinme_5451 | 0.022 | 0.2835 | 0.07747 |
| Sinme_5452 | 0.0015 | 0.0038 | 0.39269 |
| Sinme_5453 | 0.0019 | 0.006 | NA |
| Sinme_5454 | 0.0024 | 0.0189 | 0.12766 |
| Sinme_5455 | 0.0049 | 0 | NA |
| Sinme_5457 | 0.0043 | 0 | NA |
| Sinme_5460 | 0.0167 | 0.00655 | NA |
| Sinme_5461 | 0.0039 | 0 | NA |
| Sinme_5462 | 0.0085 | 0.0083 | 1.01812 |
| Sinme_5463 | 0 | 0 | 0 |
| Sinme_5464 | 0.0125 | 0.0236 | 0.53109 |
| Sinme_5465 | 0.00335 | 0.00475 | NA |
| Sinme_5466 | 0.0036 | 0.0048 | 0.75666 |
| Sinme_5467 | 0.0024 | 0.0056 | 0.41905 |
| Sinme_5468 | 0.0077 | 0.019 | 0.40564 |
| Sinme_5469 | 0.0022 | 0 | NA |
| Sinme_5470 | 0.0071 | 0 | NA |
| Sinme_5471 | 0.0047 | 0.0081 | 0.57565 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|----------------------|--------------------|
| Sinme_5472 | 0.0016 | 0.0077 | 0.20032 |
| Sinme_5473 | 0 | 0.0001 | 0 |
| Sinme_5477 | 0.0066 | 0.0071 | 0.93459 |
| Sinme_5517 | 0.0167 | 0.0293 | 0.56871 |
| Sinme_5520 | 0.0394 | 0.0437 | 0.90202 |
| Sinme_5536 | 0.006933333333333333 | 0.003166666666666667 | NA |
| Sinme_5570 | 5.786683333333333 | 89.6912 | 5.47925 |
| Sinme_5571 | 9.64245 | 0.00965 | 999 |
| Sinme_5572 | 6.7991 | 0.44955 | 13.910805 |
| Sinme_5574 | 17.71825 | NA | 2.332746666666667 |
| Sinme_5580 | 0.0243 | 0.06235 | 0.368165 |
| Sinme_5645 | 0.1 | 1.3117 | 0.07627 |
| Sinme_5692 | 2.9652 | 0.6737 | 4.40145 |
| Sinme_5696 | 0.034 | 0.1768 | 0.19216 |
| Sinme_5698 | 0.1898666666666667 | 0.8378 | 0.2126533333333333 |
| Sinme_5701 | 0.0322 | 0.8051 | 0.04001 |
| Sinme_5702 | 0.0691 | 1.24575 | 0.052035 |
| Sinme_5703 | 0.0418 | 0.3151 | 0.13276 |
| Sinme_5705 | 0.0072 | 0.0376 | 0.1902 |
| Sinme_5706 | 0.0188 | 0.0698 | 0.26979 |
| Sinme_5714 | 0.006 | 0.0537 | 0.11235 |
| Sinme_5717 | 0.0162 | 0.09245 | 0.20389 |
| Sinme_5718 | 0.013 | 0.0599 | 0.21779 |
| Sinme_5719 | 0.0037 | 0.1033 | 0.0355 |
| Sinme_5720 | 0.0018 | 0.0493 | 0.03653 |
| Sinme_5724 | 0.0078 | 0.1184 | 0.06593 |
| Sinme_5725 | 0.00575 | 0.0277 | 0.20734 |
| Sinme_5726 | 0.0025 | 0.0247 | 0.09933 |
| Sinme_5728 | 0.0079 | 0.0447 | 0.17744 |
| Sinme_5729 | 0.0238 | 0.03585 | 0.67062 |
| Sinme_5730 | 0.0163 | 0.0238 | 0.68474 |
| Sinme_5734 | 0.0055 | 0.0326 | 0.17019 |
| Sinme_5739 | 0.0028 | 0.0148 | 0.1948966666666667 |
| Sinme_5746 | 0.0058 | 0.0488 | 0.1189 |
| Sinme_5748 | 0.0027 | 0.035 | 0.07829 |
| Sinme_5750 | 0.00525 | 0.02115 | 0.25203 |
| Sinme_5752 | 0.0202 | 0.0075 | 2.68793 |
| Sinme_5753 | 0.0136 | 0 | NA |
| Sinme_5754 | 0 | 0.0374 | 0 |
| Sinme_5756 | 0.008 | 0.0309 | 0.25748 |
| Sinme_5759 | 0.0029 | 0.021 | 0.14031 |
| Sinme_5760 | 0.0094 | 0.0318 | 0.29657 |
| Sinme_5762 | 0 | 0.0189 | 0 |
| Sinme_5763 | 0.0046 | 0.0064 | 0.72282 |
| Sinme_5764 | 0.0052 | 0.0067 | 0.78141 |
| Sinme_5765 | 0.0158 | 0.2124 | 0.07421 |
| Sinme_5767 | 0.0046 | 0.0902 | 0.05142 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|-------------------|-------------------|
| Sinme_5769 | 0.0035 | 0.0097 | 0.36458 |
| Sinme_5771 | 0.0363 | 0.145 | 0.25013 |
| Sinme_5773 | 0.0235 | 0.1767 | 0.13319 |
| Sinme_5774 | 0.0214 | 0.0922 | 0.23218 |
| Sinme_5776 | 0.0135 | 0.1636 | 0.08275 |
| Sinme_5778 | 0.0022 | 0.0052 | 0.42262 |
| Sinme_5779 | 0.0111 | 0.032 | 0.34781 |
| Sinme_5781 | 0.0025 | 0.0103 | 0.32877 |
| Sinme_5788 | 0.016 | 0.066 | 0.24191 |
| Sinme_5789 | 0.0247 | 0.06015 | 0.38995 |
| Sinme_5794 | 0.0159 | 0.0509 | 0.31345 |
| Sinme_5795 | 0.0213 | 0.1539 | 0.13866 |
| Sinme_5798 | 0.0397 | 0.0506 | 0.7843 |
| Sinme_5799 | 0.0295 | 0.1049 | 0.279945 |
| Sinme_5800 | 0.0177 | 0.0943 | 0.1872 |
| Sinme_5808 | 0.0165 | 0.1057 | 0.15614 |
| Sinme_5810 | 0.1221 | 0.0715 | 1.70702 |
| Sinme_5812 | 0.0094 | 0.07985 | 0.20034 |
| Sinme_5814 | 0.0208 | 0.0874 | 0.2381 |
| Sinme_5815 | 0.0237 | 0.1435 | 0.16541 |
| Sinme_5816 | 0 | 0.1377 | 0 |
| Sinme_5817 | 0.0545 | 0.281566666666667 | 0.34062 |
| Sinme_5820 | 3.34631785714286 | NA | 1.92378428571429 |
| Sinme_5821 | 14.39581 | NA | 104.383042 |
| Sinme_5822 | 5.9592 | 48.0522 | 0.12402 |
| Sinme_5823 | 9.242266666666667 | 25.3538888888889 | 11.3345544444444 |
| Sinme_5834 | 0.0419 | 0.0328 | 1.27827 |
| Sinme_5864 | 1.9787 | 0.002 | 999 |
| Sinme_5865 | 1.06055 | 5.7001 | 0.1155 |
| Sinme_5866 | 0.4114 | 28.6866 | 499.50493 |
| Sinme_5943 | 3.2991 | 0.480966666666667 | 342.408483333333 |
| Sinme_5952 | 0.0063 | 0 | NA |
| Sinme_5953 | 0 | 0 | 0 |
| Sinme_5954 | 0.0039 | 0.0065 | 0.60601 |
| Sinme_5956 | 0.0056 | 0.0155 | 0.36275 |
| Sinme_5957 | 0.0548 | 0.3328 | 0.1648 |
| Sinme_5958 | 0.0149 | 0.1433 | 0.10393 |
| Sinme_5960 | 0.3916 | 56.3938 | 1.346065 |
| Sinme_5961 | 0.0403333333333333 | 0.171233333333333 | 0.07854 |
| Sinme_5962 | 0.0121 | 0.1455 | 0.0832 |
| Sinme_5963 | 0.0047 | 0.094266666666667 | 0.025976666666667 |
| Sinme_5964 | 0.0084 | 0.1451 | 0.05788 |
| Sinme_5966 | 0.009 | 0.1732 | 0.05202 |
| Sinme_5967 | 0.0112 | 0.02225 | 0.507005 |
| Sinme_5968 | 0.0021 | 0.0336 | 0.06238 |
| Sinme_5969 | 0.0027 | 0.0167 | 0.16254 |
| Sinme_5971 | 0.00475 | 0.19025 | 0.03211 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|---------------------|---------------------|
| Sinme_5974 | 0.0676 | 0.1817 | 0.371835 |
| Sinme_5975 | 0.052 | 0.8965 | 0.05803 |
| Sinme_6001 | 0.0129 | 0.0536 | 0.23988 |
| Sinme_6003 | 0.0103 | 0.0251 | 0.41269 |
| Sinme_6005 | 0.008766666666666667 | 0.03713333333333333 | 0.22130666666666667 |
| Sinme_6007 | 0.0262 | 0.04395 | 0.548445 |
| Sinme_6009 | 0.0305 | 0.1405 | 0.21726 |
| Sinme_6010 | 0.0085 | 0.0959 | 0.08868 |
| Sinme_6011 | 0.01405 | 0.04855 | 0.301015 |
| Sinme_6012 | 0.00835 | 0.0788 | 0.13408 |
| Sinme_6013 | 0.0073 | 0.0362 | 0.20065 |
| Sinme_6014 | 0 | 0.0001 | 0 |
| Sinme_6015 | 0.0079 | 0.0146 | 0.54345 |
| Sinme_6016 | 0.0023 | 0.0056 | 0.39972 |
| Sinme_6018 | 0.0115 | 0.0547 | 0.2098 |
| Sinme_6019 | 0.0098 | 0.0591 | 0.16579 |
| Sinme_6020 | 0.0092 | 0.0568 | 0.16223 |
| Sinme_6021 | 0.0045 | 0.0246 | 0.18189 |
| Sinme_6023 | 0.00315 | 0.0497 | 0.09253 |
| Sinme_6024 | 0.00215 | 0.04745 | 0.050455 |
| Sinme_6026 | 0.0035 | 0.0297 | 0.11876 |
| Sinme_6027 | 0.0124 | 0.0547 | 0.22613 |
| Sinme_6030 | 0.0039 | 0.0598 | 0.06551 |
| Sinme_6031 | 0.00675 | 0.05875 | 0.111905 |
| Sinme_6032 | 0.0031 | 0.0573 | 0.05435 |
| Sinme_6034 | 0.0385 | 0.0823 | 0.46757 |
| Sinme_6037 | 0.0075 | 0.023 | 0.32528 |
| Sinme_6038 | 0.0101 | 0.02215 | 0.523335 |
| Sinme_6040 | 0.02515 | 0.03045 | NA |
| Sinme_6042 | 0.0014 | 0.02075 | 0.054835 |
| Sinme_6043 | 0.0061 | 0.05025 | 0.148935 |
| Sinme_6044 | 0.0015 | 0.0182 | 0.08012 |
| Sinme_6045 | 0.0026 | 0.045 | 0.05674 |
| Sinme_6046 | 0.0041 | 0.0198 | 0.20603 |
| Sinme_6047 | 0.0036 | 0.0184 | 0.1937 |
| Sinme_6050 | 0.003066666666666667 | 0.01166666666666667 | NA |
| Sinme_6052 | 0.0045 | 0.0095 | 0.47458 |
| Sinme_6053 | 0.0093 | 0.0796 | 0.11654 |
| Sinme_6054 | 0.0045 | 0.024 | 0.18659 |
| Sinme_6055 | 0 | 0.0112 | 0 |
| Sinme_6056 | 0.00175 | 0.0188 | 0.086735 |
| Sinme_6059 | 0.00235 | 0.00135 | NA |
| Sinme_6063 | 0.009566666666666667 | 0.01683333333333333 | NA |
| Sinme_6064 | 0.0026 | 0.0159 | 0.16273 |
| Sinme_6068 | 0 | 0.0099 | 0 |
| Sinme_6069 | 0.0023 | 0.0213 | 0.10894 |
| Sinme_6070 | 0.0031 | 0.0124 | 0.24821 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| Sinme_6072 | 0.0031 | 0.0261 | 0.11961 |
| Sinme_6073 | 0.0014 | 0.0308 | 0.04606 |
| Sinme_6074 | 0.0041 | 0.0586 | 0.07019 |
| Sinme_6077 | 0.0016 | 0.0039 | 0.40966 |
| Sinme_6083 | 0.0041 | 0.0427 | 0.09692 |
| Sinme_6085 | 0.0099 | 0.0537 | 0.184 |
| Sinme_6086 | 0.0051 | 0.0402 | 0.12805 |
| Sinme_6088 | 0.0042 | 0.0298 | 0.14213 |
| Sinme_6090 | 0.0167 | 0.0278 | 0.59919 |
| Sinme_6091 | 0.0034 | 0.0169 | 0.20464 |
| Sinme_6092 | 0.0014 | 0.019 | 0.07258 |
| Sinme_6093 | 0.0034 | 0.0308 | 0.11119 |
| Sinme_6094 | 0.0045 | 0.029 | 0.15534 |
| Sinme_6095 | 0.0103 | 0.0168 | 0.6109 |
| Sinme_6098 | 0.0016 | 0.0262 | 0.06124 |
| Sinme_6099 | 0.0025 | 0.0407 | 0.061905 |
| Sinme_6100 | 0.0075 | 0.0293 | 0.25453 |
| Sinme_6102 | 0.0194 | 0.031 | 0.62746 |
| Sinme_6103 | 0.01165 | 0.07 | 0.171395 |
| Sinme_6104 | 0.0058 | 0.0808 | 0.07132 |
| Sinme_6108 | 0.0049 | 0.0427 | 0.11551 |
| Sinme_6109 | 0.0021 | 0.0064 | 0.32141 |
| Sinme_6110 | 0.0122 | 0.0811 | 0.15022 |
| Sinme_6113 | 0.0044 | 0.0226 | 0.19597 |
| Sinme_6114 | 0.0017 | 0.0364 | 0.0467 |
| Sinme_6115 | 0.0007 | 0.0551 | 0.025295 |
| Sinme_6116 | 0.0041 | 0.0546 | 0.07429 |
| Sinme_6117 | 0.0051 | 0.0808 | 0.0627 |
| Sinme_6119 | 0.0133 | 0.06745 | 0.22898 |
| Sinme_6121 | 0.005 | 0.0438 | 0.11475 |
| Sinme_6123 | 0.0005 | 0.03735 | 0.01464 |
| Sinme_6125 | 0.0045 | 0.0595 | 0.07515 |
| Sinme_6132 | 0 | 0.0678 | 0 |
| Sinme_6134 | 0.0021 | 0.0379 | 0.05523 |
| Sinme_6138 | 0.0085 | 0.0799 | 0.10639 |
| Sinme_6140 | 0.002 | 0.0307 | 0.06438 |
| Sinme_6141 | 0.01395 | 0.0372 | 0.406725 |
| Sinme_6142 | 0.0049 | 0.0164 | 0.30194 |
| Sinme_6143 | 0.0073 | 0.0211 | 0.34521 |
| Sinme_6146 | 0.0062 | 0.0339 | 0.18229 |
| Sinme_6147 | 0.0013 | 0.0102 | 0.12915 |
| Sinme_6148 | 0.0037 | 0.0386 | 0.096 |
| Sinme_6149 | 0.0026 | 0.0341 | 0.07641 |
| Sinme_6150 | 0.00315 | 0.0403 | 0.05655 |
| Sinme_6153 | 0.0112 | 0.034 | 0.32902 |
| Sinme_6154 | 0.013 | 0.0411 | 0.31702 |
| Sinme_6156 | 0.0053 | 0.0679 | 0.07835 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| Sinme_6158 | 0.009 | 0.0474 | 0.18932 |
| Sinme_6160 | 0.006 | 0.0178 | 0.33421 |
| Sinme_6161 | 0.01 | 0.0374 | 0.254325 |
| Sinme_6162 | 0.0062 | 0 | NA |
| Sinme_6164 | 0.0025 | 0.0095 | 0.26815 |
| Sinme_6169 | 0 | 0.0135 | 0 |
| Sinme_6171 | 0.0009 | 0.0121 | 0.0779 |
| Sinme_6172 | 0.0016 | 0.0043 | 0.37545 |
| Sinme_6196 | 0.0011 | 0.01555 | 0.410035 |
| Sinme_6201 | 0.00455 | 0.03035 | 0.3828 |
| Sinme_6203 | 0.0109 | 0.0093 | 1.16883 |
| Sinme_6204 | 0.0036 | 0.0129 | 0.2793 |
| Sinme_6205 | 0.006 | 0.0176 | 0.34098 |
| Sinme_6207 | 0.0092 | 0.0669 | 0.13799 |
| Sinme_6209 | 0.0092 | 0.135 | 0.06812 |
| Sinme_6211 | 0.0607 | 0.2038 | 0.2978 |
| Sinme_6212 | 0.0054 | 0.1529 | 0.03538 |
| Sinme_6213 | 0.0162 | 0.1488 | 0.10902 |
| Sinme_6217 | 0.0266 | 0.329 | 0.08093 |
| Sinme_6218 | 0.0387 | 0.2794 | 0.13865 |
| Sinme_6219 | 0.0063 | 0.006 | 1.05997 |
| Sinme_6220 | 0.0013 | 0.004 | 0.31858 |
| Sinme_6225 | 0.0186 | 0.0969 | 0.19149 |
| Sinme_6226 | 0.0008 | 0.0055 | 0.14435 |
| Sinme_6228 | 0.0057 | 0.0023 | 2.50396 |
| Sinme_6229 | 0.00125 | 0 | NA |
| Sinme_6231 | 0.0036 | 0.0137 | 0.26085 |
| Sinme_6233 | 0 | 0 | 0 |
| Sinme_6234 | 0.00235 | 0.0024 | NA |
| Sinme_6235 | 0 | 0 | 0 |
| Sinme_6236 | 0.0087 | 0.0159 | NA |
| Sinme_6238 | 0 | 0.0082 | 0 |
| Sinme_6240 | 0.0057 | 0.0049 | 1.17041 |
| Sinme_6244 | 0.0039 | 0.0122 | 0.31705 |
| Sinme_6245 | 0 | 0.0037 | 0 |
| Sinme_6246 | 0.0014 | 0.0081 | 0.17387 |
| Sinme_6248 | 0.00065 | 0.00005 | NA |
| Sinme_6249 | 0.01165 | 0.00785 | NA |
| Sinme_6250 | 0.0023 | 0.0062 | 0.36902 |
| Sinme_6251 | 0.0016 | 0.0114 | 0.14395 |
| Sinme_6252 | 0.0058 | 0.0142 | 0.40524 |
| Sinme_6254 | 0.0051 | 0.0067 | 0.83207 |
| Sinme_6258 | 0.0075 | 0.0079 | 0.95144 |
| Sinme_6259 | 0.0015 | 0.0046 | 0.3311 |
| Sinme_6262 | 0 | 0.0001 | 0 |
| Sinme_6264 | 0.0038 | 0.01005 | NA |
| Sinme_6265 | 0.0041 | 0.0172 | 0.23943 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|------------|------------------|--------------------|------------------|
| Sinme_6267 | 0.0014 | 0.0138 | 0.10273 |
| Sinme_6270 | 0.0063 | 0.0316 | 0.20108 |
| Sinme_6272 | 0.0088 | 0.02805 | 0.31304 |
| Sinme_6275 | 0.0113 | 0.0563 | 0.20139 |
| Sinme_6280 | 0.0089 | 0.0363 | 0.24543 |
| Sinme_6291 | 0 | 0.0201 | 0 |
| Sinme_6293 | 0.0041 | 0.0226 | 0.18354 |
| Sinme_6298 | 0 | 0.0077 | 0 |
| Sinme_6300 | 0.0043 | 0 | NA |
| Sinme_6301 | 0.0042 | 0.0638 | 0.06634 |
| Sinme_6307 | 0.0034 | 0.009 | 0.37582 |
| Sinme_6308 | 0.0014 | 0 | NA |
| Sinme_6315 | 0 | 0.0201 | 0 |
| Sinme_6316 | 0.0059 | 0.0368 | 0.16112 |
| Sinme_6317 | 0.0077 | 0.0083 | 0.93072 |
| Sinme_6319 | 0.0119 | 0.0335 | 0.35481 |
| Sinme_6321 | 0.00825 | 0.02545 | 0.30464 |
| Sinme_6323 | 0.0034 | 0.0791 | 0.04319 |
| Sinme_6325 | 0.0102 | 0.0371 | 0.27555 |
| Sinme_6326 | 0.0121 | 0.0404 | 0.29823 |
| Sinme_6330 | 0.0061 | 0.0228 | 0.26769 |
| Sinme_6331 | 0.0091 | 0.0515 | 0.17582 |
| Sinme_6334 | 0.0054 | 0.0967 | 0.05564 |
| Sinme_6335 | 0.0014 | 0.0329 | 0.04143 |
| Sinme_6336 | 0.0029 | 0.0633 | 0.04616 |
| Sinme_6337 | 0.0107 | 0.0774 | 0.13766 |
| Sinme_6344 | 8.3723 | NA | 2.72948 |
| Sinme_6345 | 10.3595333333333 | 2.1724 | 2.95965333333333 |
| Sinme_6348 | NA | NA | NA |
| Sinme_6349 | 9.36935 | 44.3851277777778 | 224.709041666667 |
| Sinme_6350 | 19.4365466666667 | NA | 69.4903553333333 |
| Sinme_6351 | 34.1019 | 29.0715 | 1.17303 |
| Sinme_6352 | 0.0124 | 0.0121666666666667 | NA |
| Sinme_6353 | 0.0072 | 0.0594 | 0.1213 |
| Sinme_6356 | 0.009 | 0.0142 | 0.63638 |
| Sinme_6357 | 0.0056 | 0.0198 | 0.28374 |
| Sinme_6359 | 0.0243 | 0.1689 | 0.14403 |
| Sinme_6364 | 0.0084 | 0.0506 | 0.16555 |
| Sinme_6365 | 0.0116 | 0.0665 | 0.17408 |
| Sinme_6367 | 0.0108 | 0.0235 | 0.46022 |
| Sinme_6368 | 0 | 0.0121 | 0 |
| Sinme_6369 | 0.0118 | 0.0123 | 0.95337 |
| Sinme_6371 | 0.0233 | 0.0158 | 1.4759 |
| Sinme_6372 | 0.007 | 0.0234 | 0.29768 |
| Sinme_6373 | 0.0158 | 0.0944 | 0.16723 |
| Sinme_6376 | 0.0194 | 0.0545 | 0.35643 |
| Sinme_6380 | 0.015 | 0.0215 | 0.860715 |

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Table S5 – continued from previous page

| Gene | dN | dS | ω |
|-------------|--------------------|-------------------|-------------------|
| Sinme_6381 | 0.0037 | 0.018 | 0.20716 |
| Sinme_6386 | 0.0128 | 0.0513 | 0.24855 |
| Sinme_6387 | 0.0209 | 0.0527 | 0.39704 |
| Sinme_6390 | 0.01035 | 0.052 | 0.204365 |
| Sinme_6392 | 0.0466 | 0.1704 | 0.27331 |
| Sinme_6555 | 0.0688 | 0.5831 | 0.11797 |
| Sinme_6559 | 0.0169 | 0.0818 | 0.20628 |
| Sinme_6566 | 0.0058 | 0.0527 | 0.11085 |
| Sinme_6567 | 0.007 | 0.0207 | 0.33806 |
| Sinme_6569 | 0.0046 | 0.0173 | 0.2673 |
| Sinme_6577 | 0.0035 | 0.0359 | 0.09666 |
| Sinme_6579 | 0.0064 | 0.0235 | 0.27438 |
| Sinme_6582 | 0.0104 | 0.086 | 0.12117 |
| Sinme_6587 | 0.0155 | 0.0852 | 0.182 |
| Sinme_6590 | 0.0251 | 0.0887 | 0.28252 |
| Sinme_6591 | 0.0382 | 0.0995 | 0.38363 |
| Sinme_6592 | 0.0201 | 0.191 | 0.10514 |
| Sinme_6595 | 0.0131 | 0.3199 | 0.04093 |
| Sinme_6597 | 0.0196 | 0.153 | 0.12812 |
| Sinme_6598 | 0.0238 | 0.1862 | 0.1279 |
| Sinme_6600 | 0.0562 | 0.2411 | 0.23334 |
| Sinme_6602 | 0.0197 | 0.3009 | 0.06545 |
| Sinme_6604 | 0.0319 | 0.2835 | 0.11249 |
| SinmeB_5095 | 0.0348 | 0.244 | 0.14249 |
| SinmeB_5121 | 0.0042 | 0.0146 | 0.28645 |
| SinmeB_5155 | 0.0206 | 0.0125 | 1.64658 |
| SinmeB_5168 | 0.0039 | 0.078 | 0.0501 |
| SinmeB_5421 | 0.0853 | 1.596 | 0.05347 |
| SinmeB_5473 | 26.5882 | 3.0688 | 8.66397 |
| SinmeB_5520 | 0.0098 | 0.0234 | 0.42119 |
| SinmeB_5521 | 0.0021 | 0.0222 | 0.09277 |
| SinmeB_5566 | 0.0433 | 0.5673 | 0.07639 |
| SinmeB_5584 | 0.0347 | 0 | NA |
| SinmeB_5590 | 0.0336 | 0.1107 | 0.30393 |
| SinmeB_5617 | 15.1766 | 0.3296 | 46.03897 |
| SinmeB_5622 | 0.9564333333333333 | 2.4364 | 333.6314666666667 |
| SinmeB_5957 | 0.0132 | 0.0158 | 0.83322 |
| SinmeB_6087 | 0.0048 | 0.073 | 0.06642 |
| SinmeB_6147 | 0 | 0.0506 | 0 |
| SinmeB_6152 | 1.4813 | 5.68485 | 0.255015 |
| SinmeB_6153 | 15.6373 | 21.75306666666667 | 6.627326666666667 |
| SinmeB_6361 | 0.016 | 0.1002 | 0.15976 |
| SinmeB_6378 | 0.0034 | 0.1587 | 0.02119 |
| SinmeB_6416 | 0.0013 | 0.1635 | 0.00767 |
| SinmeB_6419 | 0.0129 | 0.1374 | 0.09396 |
| SinmeB_6422 | 0.0037 | 0.0833 | 0.04473 |
| SinmeB_6434 | 0.3565 | 0.0004 | 999 |

Continued on next page

Table S5 – continued from previous page

| Gene | dN | dS | ω |
|--------------|--------|--------|----------|
| SinmeB_6439 | 0.0412 | 0.1619 | 0.25454 |
| SM11_pC0894 | 0.0212 | 0.0179 | 1.18742 |
| SM11_pC0990 | 0.0041 | 0 | NA |
| SM2011_a0041 | 0.0333 | 0.3237 | 0.10283 |
| SM2011_a0198 | 0.0027 | 0.0707 | 0.03819 |
| SM2011_a0246 | 0.0075 | 0.042 | 0.17912 |
| SM2011_a0302 | 0.0924 | 0.1925 | 0.48013 |
| SM2011_a0359 | 0 | 0.0001 | 0 |
| SM2011_a1236 | 0.0069 | 0.4575 | 0.01514 |
| SM2011_a1576 | 0.0053 | 0.0072 | 0.3684 |
| SM2011_a1769 | 0 | 0.0001 | 0 |

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

| <i>Sinorhizobium meliloti</i> pSymB | | | |
|-------------------------------------|---------|---------|----------|
| Gene | dN | dS | ω |
| Sinme_3699 | 0.001 | 0.0689 | 0.01381 |
| Sinme_3701 | 0 | 0.007 | 0 |
| Sinme_3704 | 0.0117 | 0.0595 | 0.19636 |
| Sinme_3705 | 0.01545 | 0.06995 | 0.207905 |
| Sinme_3706 | 0.0072 | 0.0765 | 0.09392 |
| Sinme_3707 | 0.0242 | 0.1194 | 0.20289 |
| Sinme_3709 | 0.00375 | 0.0757 | 0.04964 |
| Sinme_3710 | 0.0046 | 0.033 | 0.13927 |
| Sinme_3711 | 0.0226 | 0.0595 | 0.38007 |
| Sinme_3712 | 0.005 | 0.1202 | 0.04143 |
| Sinme_3713 | 0.0064 | 0.0344 | 0.18472 |
| Sinme_3715 | 0.0071 | 0.0999 | 0.07113 |
| Sinme_3718 | 0.0025 | 0.1536 | 0.01599 |
| Sinme_3719 | 0.0072 | 0.0567 | 0.1276 |
| Sinme_3721 | 0.0024 | 0.0446 | 0.05312 |
| Sinme_3723 | 0.0088 | 0.0504 | 0.17532 |
| Sinme_3724 | 0.0024 | 0.0509 | 0.04741 |
| Sinme_3725 | 0.0056 | 0.0791 | 0.07109 |
| Sinme_3726 | 0.0023 | 0.0166 | 0.13934 |
| Sinme_3727 | 0.0016 | 0.0583 | 0.02736 |
| Sinme_3731 | 0.0052 | 0.0424 | 0.12257 |
| Sinme_3733 | 0.0024 | 0.0196 | 0.12421 |
| Sinme_3734 | 0 | 0.00655 | 0 |
| Sinme_3735 | 0.006 | 0.0186 | 0.32033 |
| Sinme_3737 | 0.009 | 0.018 | NA |
| Sinme_3738 | 0.00275 | 0.0513 | 0.052865 |
| Sinme_3739 | 0.0042 | 0.0477 | 0.08905 |
| Sinme_3740 | 0.0009 | 0.0251 | 0.03688 |

Continued on next page

Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------|---------|-----------|
| Sinme_3741 | 0.006 | 0.0892 | 0.06734 |
| Sinme_3742 | 0.0117 | 0.1018 | 0.1149 |
| Sinme_3744 | 0.0074 | 0.0932 | 0.07888 |
| Sinme_3745 | 0.00555 | 0.0632 | 0.087885 |
| Sinme_3746 | 0.0081 | 0.0546 | 0.14776 |
| Sinme_3747 | 0.0081 | 0.1263 | 0.0639 |
| Sinme_3749 | 0.0107 | 0.0195 | 0.5479 |
| Sinme_3751 | 0.0104 | 0.0413 | 0.25038 |
| Sinme_3752 | 0.001 | 0.0237 | 0.04348 |
| 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 | 0.1543 | 0.09651 |
| Sinme_3761 | 0 | 0.0359 | 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 | 0.0881 | 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 | 0.0181 | 0.1844 | 0.09823 |
| Sinme_3780 | 0.017 | 0.0617 | 0.27512 |
| Sinme_3783 | 0.0236 | 0.166 | 0.142 |
| Sinme_3784 | 0.0184 | 0.1926 | 0.09572 |
| 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 | 0.06395 | 0.207225 |
| 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 | 0.01075 | 0.0503 | 0.10704 |
| 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 | 0.0379 | 0.14081 |
| Sinme_3809 | 0.014 | 0.026 | 0.53841 |
| Sinme_3810 | 0.0008 | 0.0237 | 0.03392 |

Continued on next page

Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|--------------------|--------------------|
| 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 |
| Sinme_3820 | 0.0034 | 0.0459 | 0.0751 |
| Sinme_3822 | 0.0042 | 0.0082 | NA |
| Sinme_3823 | 0.0025 | 0.0312 | 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 | 0.007666666666666667 | 0.1181333333333333 | 0.0521833333333333 |
| Sinme_3834 | 0.0082 | 0.0473 | 0.17352 |
| Sinme_3836 | 0.003566666666666667 | 0.0856333333333333 | 0.0426233333333333 |
| Sinme_3837 | 0.0082 | 0.037 | 0.22157 |
| Sinme_3841 | 0.0045 | 0.0973 | 0.04586 |
| 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 | 1.01388 |
| 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 | 0.031 | 0.23695 | 0.11341 |
| 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 | 0.008633333333333333 | 0.0772666666666667 | 0.1226666666666667 |
| Sinme_3882 | 0.0043 | 0.0292 | 0.14783 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| 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 |
| 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 | 0.29821 |
| Sinme_3910 | 0.0018 | 0.0122 | 0.1443 |
| Sinme_3911 | 0.0029 | 0 | NA |
| Sinme_3912 | 0 | 0.0001 | 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 | 0.5421 |
| 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 | 0.0459 | 0.2215 |
| Sinme_3932 | 0.0069 | 0.0908 | 0.07604 |
| Sinme_3933 | 0 | 0.0045 | 0 |
| Sinme_3934 | 0.0025 | 0.0047 | 0.53632 |
| Sinme_3935 | 0.003 | 0.0131 | 0.2285 |
| Sinme_3938 | 0.0035 | 0.0266 | 0.13109 |
| Sinme_3939 | 0 | 0 | 0 |
| Sinme_3940 | 0 | 0.0001 | 0 |
| Sinme_3941 | 0.001 | 0.0073 | 0.1392 |
| Sinme_3942 | 0 | 0.01475 | 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 |

Continued on next page

Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| 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 |
| Sinme_3957 | 0.0093 | 0.0606 | 0.15377 |
| Sinme_3959 | 0.0037 | 0.0574 | 0.06356 |
| Sinme_3960 | 0.0059 | 0.0857 | 0.06854 |
| Sinme_3961 | 0.0022 | 0.0069 | 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 | 0.00205 | 0.11315 | 0.024305 |
| Sinme_3973 | 0.0034 | 0.1303 | 0.02575 |
| Sinme_3974 | 0.0095 | 0.0361 | 0.26191 |
| 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 | 0.1062 | 0.0386 |
| 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 | 0.1798 | 0.04265 |
| Sinme_3991 | 0.0155 | 0.1232 | 0.12581 |
| Sinme_3993 | 0.02835 | 0.15815 | 0.205905 |
| 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 | 0.0329 | 0.3143 | 0.10458 |
| Sinme_4014 | 0.00295 | 0.0885 | 0.020565 |
| Sinme_4015 | 0.004 | 0.0456 | 0.0873 |
| Sinme_4016 | 0.0038 | 0.0272 | 0.139 |
| Sinme_4017 | 0 | 0.0237 | 0 |
| Sinme_4018 | 0.0072 | 0.0229 | 0.3118 |

Continued on next page

Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|---------|--------------------|
| Sinme_4019 | 0.0033 | 0.2744 | 0.01191 |
| Sinme_4020 | 0.006 | 0.3128 | 0.01908 |
| Sinme_4021 | 0 | 0.1474 | 0 |
| Sinme_4025 | 0.0467 | 0.5084 | 0.09191 |
| Sinme_4026 | 0.0242 | 9.18275 | 0.04198 |
| Sinme_4027 | 0.0729 | 0.5347 | 0.13636 |
| Sinme_4028 | 0.0111 | 0.1953 | 0.05664 |
| Sinme_4029 | 0.0261 | 0.2472 | 0.1056 |
| Sinme_4030 | 0.02785 | 0.10615 | 0.338745 |
| Sinme_4031 | 0.0076 | 0.0409 | 0.18512 |
| 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_4037 | 0.0534 | 0.1605 | 0.33284 |
| Sinme_4038 | 0.0206 | 0.067 | 0.30807 |
| Sinme_4040 | 0.0052 | 0.0915 | 0.05656 |
| Sinme_4041 | 0.0062 | 0.0529 | 0.11788 |
| 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 | 0.087335 |
| Sinme_4054 | 0.0109 | 0.0425 | 0.2559 |
| Sinme_4055 | 0.0164 | 0.4093 | 0.04014 |
| Sinme_4056 | 0.02145 | 0.4725 | 0.04513 |
| Sinme_4058 | 0.0374 | 0.4352 | 0.08588 |
| Sinme_4059 | 0.0111 | 0.2668 | 0.04144 |
| Sinme_4060 | 0.04195 | 0.42155 | 0.09223 |
| Sinme_4065 | 0.0102 | 0.25745 | 0.04875 |
| Sinme_4066 | 0.0052 | 0.0142 | 0.36674 |
| Sinme_4067 | 0.0036 | 0.0368 | 0.065705 |
| Sinme_4068 | 0.02095 | 0.18105 | 0.121345 |
| Sinme_4070 | 0.0198 | 0.224 | 0.08824 |
| Sinme_4072 | 0.01525 | 0.3606 | 0.04561 |
| Sinme_4073 | 0.0126 | 0.20305 | 0.06428 |
| 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 | 0.1475 | 0.13884 |
| Sinme_4085 | 0.0121 | 0.137 | 0.08837 |
| Sinme_4087 | 0.0044 | 0.199 | 0.02188 |
| Sinme_4088 | 0.002833333333333333 | 0.048 | 0.1907766666666667 |
| Sinme_4091 | 0.0071 | 0.0686 | 0.10339 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|--------------------|--------------------|
| Sinme_4092 | 0.0093 | 0.0428 | 0.21753 |
| Sinme_4095 | 0.0095 | 0.0524 | 0.18057 |
| Sinme_4097 | 0.0076 | 0.0644 | 0.11773 |
| Sinme_4098 | 0.0182 | 0.1367 | 0.13296 |
| Sinme_4112 | 0.0059 | 0.0193 | 0.30694 |
| Sinme_4113 | 0.01885 | 0.1301 | 0.152935 |
| Sinme_4115 | 0.00475 | 0.1527 | 0.031815 |
| Sinme_4116 | 0.0043 | 0.2795 | 0.01544 |
| Sinme_4117 | 0.0107 | 0.177 | 0.06065 |
| 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 | 0.0171 | 0.1007 | 0.16948 |
| Sinme_4140 | 0.0086 | 0.0997 | 0.08659 |
| Sinme_4142 | 0.0086 | 0.0823 | 0.10489 |
| Sinme_4143 | 0.0104 | 0.0412 | 0.25152 |
| Sinme_4144 | 0.0046 | 0.153 | 0.02998 |
| Sinme_4146 | 0.0055 | 0.1242 | 0.04445 |
| Sinme_4147 | 0.0124666666666667 | 0.1135666666666667 | 0.0938416666666667 |
| Sinme_4148 | 0.0222 | 0.3388 | 0.06561 |
| Sinme_4149 | 0.0131 | 0.1433 | 0.0912 |
| Sinme_4150 | 0.0174 | 0.3044 | 0.05701 |
| Sinme_4151 | 0.0084 | 0.0905 | 0.09289 |
| Sinme_4152 | 0.0152 | 0.169 | 0.08977 |
| Sinme_4153 | 0.03345 | 0.1809 | 0.169255 |
| Sinme_4154 | 0.0049 | 0.0302 | 0.16283 |
| Sinme_4155 | 0.0051 | 0.0842 | 0.06078 |
| Sinme_4156 | 0.0067 | 0.1606 | 0.04173 |
| Sinme_4163 | 0.0199333333333333 | 0.1250333333333333 | 0.1691233333333333 |
| 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 | 0.0154 | 0.1928 | 0.07976 |
| Sinme_4175 | 0 | 0.1202 | 0 |
| Sinme_4176 | 0.0135 | 0.3056 | 0.04419 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|----------|-----------|
| Sinme_4177 | 0.00625 | 0.12245 | 0.051565 |
| Sinme_4178 | 0.01425 | 0.08385 | 0.158765 |
| Sinme_4179 | 0.0107 | 0.0171 | 0.62548 |
| Sinme_4180 | 0.0094 | 0.0623 | 0.15071 |
| 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_4209 | 0.0391 | 0.2762 | 0.14148 |
| Sinme_4210 | 0.0364 | 0.3347 | 0.10877 |
| Sinme_4211 | 0.0559 | 0.1938 | 0.28856 |
| Sinme_4217 | 0.0041 | 0.0485 | 0.055555 |
| Sinme_4220 | 0.023 | 0.07295 | 0.307055 |
| Sinme_4221 | 0.0227 | 0.0462 | 0.49259 |
| Sinme_4222 | 0.0239 | 0.059025 | 0.4365725 |
| Sinme_4224 | 0.0232 | 0.1185 | 0.19556 |
| Sinme_4226 | 0.0207 | 0.0935 | 0.22124 |
| Sinme_4227 | 0.0241 | 0.1309 | 0.18452 |
| Sinme_4228 | 0.0069 | 0.0671 | 0.10276 |
| 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 | 0.0307 | 0.0446 | 0.68677 |
| 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 | 0.0335 | 0.4079 | 0.08212 |
| Sinme_4250 | 0.0505 | 0.2146 | 0.23525 |
| Sinme_4252 | 0.0205 | 0.1834 | 0.11165 |
| Sinme_4253 | 0.0056 | 0.1251 | 0.0445 |
| Sinme_4254 | 0.0253 | 0.1084 | 0.23377 |
| Sinme_4255 | 0 | 0.0126 | 0 |
| Sinme_4256 | 0.0153 | 0.06535 | 0.23573 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------------------|---------------------|---------------------|
| Sinme_4257 | 0.0154 | 0.16 | 0.09637 |
| Sinme_4259 | 0.0193 | 0.1469 | 0.13148 |
| Sinme_4261 | 0.0252 | 0.1649 | 0.15274 |
| Sinme_4263 | 0.0157 | 0.2016 | 0.07787 |
| Sinme_4264 | 0.0202 | 0.1827 | 0.11082 |
| Sinme_4265 | 0.3054 | 1.175 | 0.25988 |
| Sinme_4266 | 0.0958 | 0.5569 | 0.17202 |
| Sinme_4267 | 0.084 | 0.2966 | 0.27126 |
| Sinme_4268 | 0.02404 | 0.249 | 0.097858 |
| Sinme_4269 | 0.0286 | 0.4972 | 0.05754 |
| Sinme_4271 | 0.0741 | 1.5047 | 0.04927 |
| Sinme_4282 | 0.1527 | 2.6488 | 0.05764 |
| Sinme_4283 | 0.0709 | 2.1566 | 0.03286 |
| Sinme_4285 | 0.06203333333333333 | 1.0679 | 0.06399333333333333 |
| Sinme_4288 | 0.0118 | 0.08265 | 0.071265 |
| 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 | 0.5369 | 0.00948 |
| Sinme_4297 | 0.0277 | 0.1721 | 0.16088 |
| Sinme_4300 | 0.0169 | 0.1566 | 0.10762 |
| Sinme_4301 | 0.0054 | 0.1704 | 0.03183 |
| Sinme_4303 | 0.032 | 0.3614 | 0.08854 |
| Sinme_4304 | 0.0081 | 0.1387 | 0.0583 |
| Sinme_4307 | 0.035 | 0.2176 | 0.16089 |
| Sinme_4309 | 0 | 0 | 0 |
| Sinme_4310 | 0.2078 | 0.3768 | 0.55145 |
| Sinme_4311 | 0.033 | 0.2041 | 0.16186 |
| Sinme_4312 | 0.0147 | 0.1048 | 0.14002 |
| Sinme_4314 | 0.0085 | 0.2263 | 0.03777 |
| Sinme_4315 | 0.0464 | 0.405 | 0.11458 |
| Sinme_4316 | 0.0397 | 0.2425 | 0.16371 |
| 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 | 0.2148 | 0.04042 |
| Sinme_4393 | 0.01935 | 0.2484 | 0.08403 |
| Sinme_4394 | 0.0165 | 0.1595 | 0.10369 |
| Sinme_4397 | 0.0588 | 0.1326 | 0.4431 |
| 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 | 0.01275 | 0.14375 | 0.09135 |
| Sinme_4405 | 0.0109 | 0.03323333333333333 | NA |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------------------|----------|
| Sinme_4406 | 0.0049 | 0.03706666666666667 | 0.16955 |
| Sinme_4407 | 0 | 0.2001 | 0 |
| 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 | 0.09169 |
| Sinme_4417 | 0.01135 | 0.0511 | 0.24579 |
| Sinme_4418 | 0.0186 | 0.1367 | 0.132215 |
| Sinme_4419 | 0.04335 | 0.1799 | 0.234025 |
| 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 | 0.0486 | 0.07031 |
| Sinme_4437 | 0.0028 | 0.0095 | 0.29574 |
| Sinme_4438 | 0.0092 | 0.0284 | 0.33857 |
| Sinme_4439 | 0.0091 | 0.0193 | 0.47398 |
| 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 | 0.0205 | 0.0582 | 0.35194 |
| Sinme_4456 | 0.0031 | 0.1497 | 0.02082 |
| Sinme_4457 | 0.0193 | 0.1736 | 0.11135 |
| 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_4466 | 0.0097 | 0.0983 | 0.09826 |
| Sinme_4468 | 0.0931 | 0.0001 | 999 |
| Sinme_4469 | 0.0141 | 0.0775 | 0.18165 |
| Sinme_4472 | 0.0262 | 0.4081 | 0.06419 |
| Sinme_4474 | 0.0218 | 0.2788 | 0.07812 |
| 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 | 0.05235 | 0.07533 |
| Sinme_4489 | 0.0026 | 0.0311 | 0.08519 |
| Sinme_4491 | 0.0007 | 0.0705 | 0.00965 |
| Sinme_4495 | 0 | 0.0283 | 0 |
| Sinme_4504 | 0.0173 | 0.0364 | 0.47492 |
| Sinme_4509 | 0.0012 | 0.0511 | 0.02402 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------------------|---------------------|--------------------|
| Sinme_4512 | 0.0101 | 0.0823 | 0.12256 |
| Sinme_4513 | 0.25945 | 31.5386 | 0.004115 |
| Sinme_4514 | 0.006 | 0.1355 | 0.04391 |
| Sinme_4518 | 0.0049 | 0.0805 | 0.06112 |
| Sinme_4520 | 0.044 | 0.221 | 0.19927 |
| Sinme_4522 | 0.0392 | 0.2341 | 0.16764 |
| Sinme_4524 | 0.0012 | 0.0302 | 0.0383 |
| Sinme_4525 | 0.0079 | 0 | NA |
| Sinme_4527 | 0.004 | 0.0162 | 0.2466 |
| 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 | 0.0422 | 0.09116 |
| Sinme_4538 | 0.00245 | 0.06195 | 0.031445 |
| 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 | 0.71588 |
| Sinme_4556 | 0.0089 | 0.0677 | 0.13175 |
| Sinme_4558 | 0.007266666666666667 | 0.03046666666666667 | 0.2397766666666667 |
| 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 | 0.0165 | 0.1192 | 0.13845 |
| Sinme_4580 | 0.001833333333333333 | 0.01293333333333333 | 0.10533 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|----------|----------|----------|
| Sinme_4592 | 0.0093 | 0.0647 | 0.14385 |
| Sinme_4593 | 0.0022 | 0.0158 | 0.1383 |
| Sinme_4595 | 0.0027 | 0.0106 | 0.25377 |
| Sinme_4597 | 0.0089 | 0.0152 | 0.58314 |
| Sinme_4598 | 0.0034 | 0.0149 | 0.2258 |
| 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 | 0.151905 |
| Sinme_4608 | 0.00055 | 0.0144 | 0.030135 |
| 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 | 0.75828 |
| Sinme_4619 | 0.00285 | 0.01425 | 0.201575 |
| Sinme_4621 | 0.0037 | 0.0293 | 0.12459 |
| Sinme_4622 | 0 | 0.01575 | 0 |
| Sinme_4623 | 0 | 0.0196 | 0 |
| Sinme_4624 | 0 | 0.0084 | 0 |
| Sinme_4627 | 0.0018 | 0.0038 | 0.47005 |
| 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 | 0.0175 | 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 | 0.11124 |
| Sinme_4658 | 0.0037 | 0.0102 | 0.36775 |
| Sinme_4659 | 0.0017 | 0.0273 | 0.06181 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|--------------------|------------------|
| Sinme_4661 | 0.0013 | 0.0171 | 0.07368 |
| Sinme_4663 | 0 | 0.01 | 0 |
| Sinme_4664 | 0.00475 | 0.01295 | 0.37276 |
| 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 | 0.0217 | 0.06405 | 0.27114 |
| Sinme_4672 | 0.0388 | 0.1321 | 0.29648 |
| Sinme_4674 | 0.0031 | 0 | NA |
| Sinme_4675 | 0.008 | 0.0656 | 0.12244 |
| Sinme_4676 | 0.0072 | 0.0123 | 0.58444 |
| Sinme_4677 | 0.0102666666666667 | 0.0069666666666667 | NA |
| Sinme_4678 | 0.0106 | 0.0041 | 2.62074 |
| Sinme_4679 | 0.0013 | 0.0252 | 0.05208 |
| Sinme_4680 | 0.0049 | 0.0082 | 0.59694 |
| Sinme_4682 | 0.0025 | 0.03 | 0.08359 |
| Sinme_4684 | 0.0051 | 0.0381 | 0.124565 |
| Sinme_4685 | 0.0051 | 0.0353 | 0.14398 |
| Sinme_4686 | 0.0078 | 0.079 | 0.09928 |
| Sinme_4687 | 0.0037 | 0.05235 | 0.07181 |
| Sinme_4691 | 0.0246 | 0.0941 | 0.26187 |
| Sinme_4692 | 15.8422 | 3893.7737 | 0.00407 |
| Sinme_4694 | 1.65103333333333 | 0.6975 | 9.23939666666667 |
| 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 | 0.12829 |
| 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 | 0.0716 | 0.08463 |
| Sinme_4716 | 0.0078 | 0.0289 | 0.27005 |
| Sinme_4717 | 0.00375 | 0.04525 | 0.072035 |
| Sinme_4720 | 0.005 | 0.0437 | 0.11428 |
| Sinme_4723 | 0.0056 | 0.0596 | 0.0946 |
| Sinme_4724 | 0.007475 | 0.0533 | NA |
| Sinme_4725 | 0.0142 | 0.1669 | 0.08505 |
| Sinme_4728 | 0.00225 | 0.0277 | 0.11043 |
| Sinme_4729 | 0.0182 | 0.083 | 0.21968 |
| Sinme_4732 | 0.0012 | 0.0119 | 0.09882 |
| Sinme_4733 | 0 | 0.0028 | 0 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| Sinme_4734 | 0 | 0 | 0 |
| Sinme_4735 | 0.0031 | 0.0034 | 0.92804 |
| Sinme_4736 | 0.0018 | 0.0037 | 0.2434 |
| Sinme_4737 | 0.00255 | 0 | NA |
| Sinme_4738 | 0.0038 | 0.0099 | 0.38523 |
| 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 | 0.04935 | 0.57681 |
| Sinme_4757 | 0.0046 | 0.029 | 0.15998 |
| Sinme_4758 | 0.008 | 0.0385 | 0.20825 |
| Sinme_4759 | 0.0024 | 0.0206 | 0.11634 |
| Sinme_4760 | 0 | 0.1082 | 0 |
| Sinme_4761 | 0.005 | 0.108 | 0.04607 |
| 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 | 0.75615 |
| Sinme_4771 | 0.0012 | 0.0046 | 0.26732 |
| Sinme_4773 | 0.0022 | 0.0038 | 0.58759 |
| 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 | 0.11668 |
| Sinme_4780 | 0.0008 | 0.0241 | 0.03321 |
| Sinme_4782 | 0.0033 | 0.0252 | 0.13062 |
| Sinme_4783 | 0.0114 | 0.0142 | 0.80501 |
| 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 | 0.26122 |
| Sinme_4792 | 0.0024 | 0.0199 | NA |
| Sinme_4794 | 0.0042 | 0.0285 | 0.14912 |
| Sinme_4795 | 0.0055 | 0.0349 | 0.15698 |
| Sinme_4796 | 0.00285 | 0.01895 | 0.1017 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| 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 | 0.0422 | 0.2093 | 0.20185 |
| 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 | 0.0169 | 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 | 0.0001 | 0 |
| Sinme_4822 | 0 | 0.0001 | 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 | 0.0013 | 0.0908 | 0.01426 |
| 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 | 0.0407 | 0.29553 |
| Sinme_4839 | 0.00245 | 0.06095 | 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 | 0.0144 | 0.1079 | 0.13346 |
| Sinme_4845 | 0.0366 | 0.1425 | 0.25661 |
| Sinme_4846 | 0.0016 | 0.1389 | 0.01168 |
| Sinme_4847 | 0.0085 | 0.131 | 0.06516 |
| Sinme_4848 | 0.023 | 0.1215 | 0.18934 |
| 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 | 0.0611 | 1.5407 | 0.03969 |
| Sinme_4856 | 0.0152 | 0.1264 | 0.12 |
| Sinme_4857 | 0.0083 | 0.1714 | 0.04831 |
| Sinme_4858 | 0.0088 | 0.1194 | 0.07404 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|--------------------|--------------------|-------------------|
| Sinme_4863 | 0.0165 | 0.089 | 0.18519 |
| Sinme_4864 | 0.3588 | 1.9541 | 0.18362 |
| 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 |
| 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 | 0.097 | 0.05488 |
| Sinme_4900 | 0.0112666666666667 | 0.0849 | 0.150406666666667 |
| Sinme_4901 | 0 | 0.0528 | 0 |
| Sinme_4903 | 0.0064833333333333 | 0.11335 | 0.069965 |
| 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 | 0.0532 |
| 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 | 0.35656 |
| Sinme_4921 | 0.0012 | 0.0365 | 0.03275 |
| Sinme_4922 | 0.0035 | 0.0873 | 0.03975 |
| Sinme_4923 | 0 | 0.0231 | 0 |
| Sinme_4929 | 0.098 | 0.3784 | 0.25884 |
| Sinme_4937 | 0.0334 | 0.0693 | 0.48229 |
| Sinme_4938 | 0.0466 | 0.0968 | 0.4812 |
| Sinme_4939 | 0.005 | 0.0151 | 0.33232 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|--------------------|--------------------|
| Sinme_4946 | 0.0129 | 0.0548 | 0.23568 |
| Sinme_4948 | 0.00835 | 0.10435 | 0.08017 |
| Sinme_4949 | 0.0248 | 0.1355 | 0.18328 |
| 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 |
| 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 | 0.0095 | 0.1922 | 0.04944 |
| 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 | 0.0193 | 0.1484 | 0.1301 |
| 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 | 0.1000666666666667 | 0.0389866666666667 |
| Sinme_4993 | 0.0459 | 0.24815 | 0.13241 |
| Sinme_4994 | 0.0396 | 0.1798 | 0.22007 |
| Sinme_4995 | 0.0139 | 0.2557 | 0.05447 |
| Sinme_4997 | 0.0277 | 0.0926 | 0.29918 |
| Sinme_4998 | 0 | 0.0381 | 0 |
| Sinme_4999 | 0.0019 | 0.0387666666666667 | 0.0282833333333333 |
| 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 | 0.0176 | 0.038 | 0.46436 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------------------|---------------------|----------|
| Sinme_5019 | 0.0141 | 0.0626 | 0.22433 |
| Sinme_5021 | 0.0074 | 0.0611 | 0.12138 |
| Sinme_5022 | 0.0255 | 0.0456 | 0.56063 |
| 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 |
| Sinme_5033 | 0.00175 | 0.02105 | 0.0648 |
| Sinme_5036 | 0.0068 | 0.0427 | 0.15836 |
| Sinme_5038 | 0.0009 | 0.0129 | 0.07157 |
| Sinme_5045 | 0.0091 | 0.02303333333333333 | NA |
| Sinme_5055 | 0.00975 | 0.04895 | 0.35514 |
| Sinme_5058 | 0.0013 | 0.0128 | 0.10236 |
| Sinme_5059 | 0.0009 | 0.0222 | 0.04241 |
| Sinme_5060 | 0.01033333333333333 | 0.07176666666666667 | 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 | 0.0947 | 0.05874 |
| Sinme_5080 | 0.0054 | 0.046 | 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 | 0.2055 |
| 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 | 0.0284 | 0.1832 | 0.15511 |
| 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 | 0.0079 | 0.14281 |
| Sinme_5113 | 0.0012 | 0.01205 | 0.049725 |
| 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 | 0.15304 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|------------|---------|---------|----------|
| Sinme_5126 | 0.0008 | 0.0359 | 0.02208 |
| Sinme_5127 | 0 | 0.0364 | 0 |
| Sinme_5128 | 0 | 0.0382 | 0 |
| Sinme_5129 | 0.0055 | 0.0413 | 0.13385 |
| Sinme_5130 | 0.0039 | 0.0186 | 0.21191 |
| Sinme_5131 | 0 | 0.027 | 0 |
| Sinme_5132 | 0.0026 | 0.0127 | 0.20253 |
| Sinme_5133 | 0 | 0.0201 | 0 |
| 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 | 0.0165 | 0.11 | 0.15 |
| Sinme_5145 | 0.0067 | 0.0276 | 0.24135 |
| Sinme_5148 | 0.0038 | 0.0191 | 0.2005 |
| Sinme_5149 | 0.003 | 0.0275 | 0.10925 |
| Sinme_5152 | 0.0039 | 0.0619 | 0.06338 |
| Sinme_5153 | 0.0141 | 0.0869 | 0.16243 |
| 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_5170 | NA | NA | NA |
| Sinme_5174 | 0.0338 | 0.2032 | 0.16629 |
| 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_5189 | 0.0255 | 0.1042 | 0.24484 |
| 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 | 0.0135 | 0.053 | 0.2552 |
| Sinme_5194 | 0.0094 | 0.0488 | 0.1909 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|---------------|---------|--------------------|--------------------|
| Sinme_5206 | 0.0039 | 0.1278 | 0.03022 |
| Sinme_5207 | 0.005 | 0.0032 | 1.57685 |
| Sinme_5208 | 0.0061 | 0.057 | 0.10742 |
| Sinme_5209 | 0 | 0.0611 | 0 |
| Sinme_5210 | 0.0126 | 0.0828 | 0.15175 |
| Sinme_5211 | 0.006 | 0.034 | 0.17704 |
| Sinme_5212 | 0.0049 | 0.0911 | 0.05332 |
| Sinme_5213 | 0.0222 | 0.1091 | 0.20356 |
| 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 | 0.1064666666666667 | 0.1276066666666667 |
| Sinme_5238 | 0.0094 | 0.2018 | 0.04677 |
| 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_b20005 | 0.0063 | 0.0544 | 0.11663 |
| SM2011_b20014 | 0.005 | 0.0639 | 0.07786 |
| SM2011_b20015 | 0 | 0.1022 | 0 |
| SM2011_b20023 | 0.0062 | 0.0465 | 0.13311 |
| SM2011_b20047 | 0.0135 | 0 | NA |
| SM2011_b20049 | 0.0013 | 0.01 | 0.13117 |
| SM2011_b20055 | 0 | 0.0551 | 0 |
| SM2011_b20082 | 0.0015 | 0.0454 | 0.03397 |
| SM2011_b20097 | 0.0131 | 0.0559 | 0.23405 |
| SM2011_b20102 | 0.0034 | 0.0096 | 0.35868 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|---------------|--------|--------|----------|
| 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 | 0.18293 |
| SM2011_b20184 | 0 | 0.022 | 0 |
| SM2011_b20185 | 0 | 0.0109 | 0 |
| SM2011_b20186 | 0 | 0 | 0 |
| SM2011_b20212 | 0.0037 | 0.0317 | 0.11732 |
| SM2011_b20222 | 0.0037 | 0.0153 | 0.24306 |
| SM2011_b20256 | 0 | 0.0099 | 0 |
| 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 | 0.0057 | 0.2061 | 0.02782 |
| 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_b20402 | 0.0096 | 0.091 | 0.10506 |
| 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_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_b20548 | 0.0502 | 3.6219 | 0.01387 |
| SM2011_b20568 | 0.0074 | 0.1826 | 0.04053 |
| SM2011_b20569 | 0.0088 | 0.0814 | 0.10755 |
| SM2011_b20570 | 0.0067 | 0.1094 | 0.06085 |
| SM2011_b20582 | 0.0082 | 0.034 | 0.24038 |
| SM2011_b20586 | 0.0053 | 0.0227 | 0.23231 |
| SM2011_b20594 | 0.0321 | 0.099 | 0.32452 |
| 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 | 0.0132 | 0.1411 | 0.09373 |
| 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 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|---------------|---------|---------|----------|
| SM2011_b20634 | 0.0039 | 0.1326 | 0.02909 |
| SM2011_b20649 | 0.0062 | 0.0694 | 0.08892 |
| SM2011_b20650 | 0.0041 | 0.0508 | 0.08068 |
| SM2011_b20651 | 0.0051 | 0 | NA |
| SM2011_b20652 | 0.0045 | 0.0454 | 0.10012 |
| SM2011_b20655 | 0.0077 | 0.0265 | 0.28889 |
| SM2011_b20658 | 0.0027 | 0.0535 | 0.05093 |
| 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 | 0.0001 | 0 |
| 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 | 0.28978 |
| 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_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 | 0.349 | 4.71036 | 0.076542 |
| SM2011_b20785 | 0.0083 | 0.0232 | 0.36006 |
| SM2011_b20786 | 0.0332 | 0.2532 | 0.13127 |
| SM2011_b20846 | 0.0114 | 0.1138 | 0.10064 |
| SM2011_b20849 | 0.0056 | 0.0443 | 0.12681 |
| SM2011_b20863 | 0.01555 | 0.0224 | NA |
| 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_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 | 0.0217 | 0.1522 | 0.14283 |
| SM2011_b21004 | 0.037 | 0.1732 | 0.21356 |
| SM2011_b21007 | 0.0094 | 0.1222 | 0.07724 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|---------------|---------|---------|----------|
| SM2011_b21016 | 0.0439 | 0.5799 | 0.07573 |
| SM2011_b21018 | 0.0052 | 0.2036 | 0.02545 |
| SM2011_b21044 | 0.0354 | 0.2189 | 0.16154 |
| SM2011_b21090 | 0.0091 | 0.0592 | 0.1529 |
| 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 | 0.0029 | 0.2455 | 0.01195 |
| SM2011_b21116 | 0.0284 | 0.1238 | 0.22955 |
| SM2011_b21117 | 0 | 0.0307 | 0 |
| SM2011_b21130 | 0.0106 | 0.2322 | 0.04579 |
| SM2011_b21131 | 0.0108 | 0.1434 | 0.07527 |
| 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 | 0.77483 |
| 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 | 0.0282 | 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 | 0.0269 | 0.2056 | 0.13087 |
| SM2011_b21236 | 0.0276 | 0.1386 | 0.19928 |
| SM2011_b21237 | 0.0103 | 0.1168 | 0.08845 |
| SM2011_b21241 | 0.0054 | 0.0911 | 0.05949 |
| SM2011_b21243 | 0.0129 | 0.1078 | 0.11967 |
| SM2011_b21246 | 0.0126 | 0.1236 | 0.10185 |
| SM2011_b21248 | 0.0076 | 0.1442 | 0.05285 |
| SM2011_b21250 | 0.0041 | 0.02905 | 0.070335 |
| SM2011_b21252 | 0.0475 | 0.1303 | 0.36479 |
| SM2011_b21256 | 0.0019 | 0.0044 | 0.42529 |
| SM2011_b21257 | 0.00145 | 0.01965 | 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 | 0.1299 | 0.05998 |
| SM2011_b21279 | 0.0032 | 0.0387 | 0.08385 |
| SM2011_b21280 | 0.0206 | 0.1213 | 0.16992 |
| SM2011_b21281 | 0 | 0 | 0 |

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Table S6 – continued from previous page

| Gene | dN | dS | ω |
|---------------|----------|--------------------|-------------|
| 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 | 0.0935 | 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 |
| SM2011_b21327 | 0.0062 | 0.0083 | 0.74448 |
| SM2011_b21336 | 0.003 | 0.0097 | 0.3106 |
| SM2011_b21346 | 0.0051 | 0.02 | 0.25374 |
| SM2011_b21355 | 0.0091 | 0.0168 | 0.54146 |
| SM2011_b21356 | 0.0026 | 0.0418 | 0.06301 |
| SM2011_b21377 | 0.0014 | 0.0169 | 0.08354 |
| SM2011_b21378 | 0.0182 | 0.092 | 0.19788 |
| SM2011_b21385 | 2.742525 | 0.577725 | 499.7802775 |
| SM2011_b21405 | 0.0049 | 0 | NA |
| SM2011_b21412 | 0.0068 | 0.0318 | 0.21507 |
| SM2011_b21418 | 0.0111 | 0.0434 | 0.25574 |
| SM2011_b21428 | 0.0234 | 0.0722 | 0.32378 |
| SM2011_b21486 | 0.005 | 0.042 | 0.11855 |
| SM2011_b21497 | 0.0058 | 0.0504 | 0.11466 |
| SM2011_b21508 | 0.0502 | 0.2448 | 0.20513 |
| 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 | 0.003 | 0.0554666666666667 | 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 | 0.0079 | 0.0767 | 0.10246 |
| SM2011_b21555 | 0 | 0.0106 | 0 |
| SM2011_b21575 | 0.0161 | 0.0126 | 1.28127 |
| SM2011_b21578 | 0.0038 | 0.0289 | 0.13228 |
| SM2011_b21599 | 0 | 0.0119 | 0 |
| SM2011_b21644 | 0.0073 | 0.1777 | 0.04116 |
| SM2011_b21649 | 0.0095 | 0.0316 | 0.30074 |
| SM2011_b21650 | 0.0093 | 0.0621 | 0.15035 |
| SM2011_b21651 | 0.0068 | 0 | NA |
| SM2011_b21655 | 0.006 | 0.0595 | 0.09998 |
| SM2011_b21696 | 0.0506 | 0.1114 | 0.45404 |
| SM2011_b22017 | 0.0127 | 0.0714 | 0.17807 |