1) ENSG00000065621
TreeFam-A orthologs: ENSDARG00000033285 ENSDARG00000022183 ENSMUSG00000025069 CG6781 CG6776 CG6662 CG6673
PHOG-T(0.296875) orthologs: ENSMUSG00000025069 ENSMUSG00000025068
PHOG-S orthologs: ENSMUSG00000025069
PHOG-O orthologs: ENSDARG00000022183 ENSMUSG00000000811 ENSMUSG00000027722 ENSMUSG00000025069 CG7975 CG6852
SCIPHY orthologs: ENSDARG00000033285 ENSDARG00000022183 ENSMUSG00000025069 ENSMUSG00000025068 CG6662 CG6776 CG6781 CG6673
OrthoMCL orthologs: ENSMUSG00000025069
InParanoid orthologs: ENSDARG00000033285 ENSDARG00000022183 ENSDARG00000041173 ENSMUSG00000025069 ENSMUSG00000017721 ENSMUSG00000017950 ENSMUSG00000022772 CG6662 CG6673 CG6776 CG5295 CG6781 CG5560
2) ENSG00000168002
TreeFam-A orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
PHOG-T(0.296875) orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
PHOG-S orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
PHOG-O orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
SCIPHY orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
OrthoMCL orthologs: ENSDARG00000056127 ENSMUSG00000071662 CG31155
InParanoid orthologs: ENSDARG00000056127 ENSDARG00000052674 ENSDARG00000023160 ENSDARG00000007993 ENSDARG00000005606 ENSMUSG00000071662 ENSMUSG00000020530 ENSMUSG00000041153 ENSMUSG00000038156 ENSMUSG00000058881 CG10119 CG31155 CG6944 CG7071
3) ENSG00000163093
TreeFam-A orthologs: ENSDARG00000039827 ENSMUSG00000063145 CG1126
PHOG-T(0.296875) orthologs: ENSDARG00000039827 ENSMUSG00000063145 CG1126
PHOG-S orthologs: ENSDARG00000039827 ENSMUSG00000063145 CG1126
PHOG-O orthologs: ENSDARG00000039827 ENSMUSG00000063145 CG1126
SCIPHY orthologs: ENSDARG00000039827 ENSMUSG00000063145
OrthoMCL orthologs: ENSDARG00000039827 ENSMUSG00000063145 CG1126
InParanoid orthologs: ENSDARG00000041665 ENSDARG00000039827 ENSDARG00000026048 ENSMUSG00000040688 ENSMUSG00000020706 ENSMUSG00000030738 ENSMUSG00000063145 CG6751 CG1126 CG12030
4) ENSG00000137547
TreeFam-A orthologs: ENSDARG00000041338 CG5219
PHOG-T(0.296875) orthologs: ENSDARG00000041338 ENSMUSG00000033845 CG5219
PHOG-S orthologs: ENSDARG00000041338 ENSMUSG00000033845 CG5219
PHOG-O orthologs: ENSDARG00000041338 ENSMUSG00000033845 CG5219
SCIPHY orthologs: ENSDARG00000041338 ENSMUSG00000033845 CG5219
OrthoMCL orthologs: ENSDARG00000041338 ENSMUSG00000033845 CG5219
InParanoid orthologs: ENSDARG00000040277 ENSDARG00000004870 ENSDARG00000041338 ENSMUSG00000035107 ENSMUSG00000037300 ENSMUSG00000034247 ENSMUSG00000033845 ENSMUSG00000029020 CG13277 CG32675 CG5219 CG7833
5) ENSG00000104980
TreeFam-A orthologs: ENSDARG00000042712 ENSMUSG00000002949 CG11779
PHOG-T(0.296875) orthologs: ENSDARG00000042712 ENSMUSG00000002949
PHOG-S orthologs: ENSDARG00000042712 ENSMUSG00000002949
PHOG-O orthologs: ENSDARG00000042712 ENSMUSG00000002949 CG11779
SCIPHY orthologs: ENSDARG00000042712 ENSMUSG00000002949 CG11779
OrthoMCL orthologs: ENSDARG00000042712 ENSMUSG00000002949 CG11779
InParanoid orthologs: ENSDARG00000060927 ENSDARG00000042712 ENSDARG00000002332 ENSDARG00000034700 ENSDARG00000009745 ENSMUSG00000025969 ENSMUSG00000024370 ENSMUSG00000003779 ENSMUSG00000023008 ENSMUSG00000049396 ENSMUSG00000002949 CG8967 CG11779 CG31795 CG5489
6) ENSG00000105865
TreeFam-A orthologs: ENSDARG00000006567 ENSMUSG00000020648 CG10495
PHOG-T(0.296875) orthologs: ENSDARG00000006567 ENSMUSG00000020648
PHOG-S orthologs: ENSMUSG00000020648
PHOG-O orthologs: ENSMUSG00000020648 CG10495
SCIPHY orthologs: ENSDARG00000006567 ENSMUSG00000020648
OrthoMCL orthologs: ENSDARG00000006567 ENSMUSG00000020648 CG10495
InParanoid orthologs: ENSDARG00000068588 ENSDARG00000041609 ENSDARG00000006567 ENSDARG00000009534 ENSMUSG00000036959 ENSMUSG00000026674 ENSMUSG00000020648 ENSMUSG00000019254 ENSMUSG00000034906 CG9320 CG33786 CG10495 CG7176
7) ENSG00000141101

TreeFam-A orthologs: ENSDARG00000016080 ENSMUSG00000003848 CG2972
PHOG-T(0.296875) orthologs: ENSDARG00000016080 ENSMUSG00000003848
PHOG-S orthologs: ENSDARG00000016080 ENSMUSG00000003848
PHOG-O orthologs: ENSDARG00000016080 ENSMUSG00000003848
SCIPHY orthologs: ENSDARG00000016080 ENSMUSG00000003848
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000016080 ENSMUSG00000020305 ENSMUSG00000003848
8) ENSG00000198042
TreeFam-A orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
PHOG-T(0.296875) orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
PHOG-S orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
PHOG-O orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
SCIPHY orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
OrthoMCL orthologs: ENSDARG00000003527 ENSMUSG00000031578 CG10648
InParanoid orthologs: ENSDARG00000023815 ENSDARG00000014550 ENSDARG00000030058 ENSDARG00000003
527 ENSMUSG00000038611 ENSMUSG00000048251 ENSMUSG00000022367 ENSMUSG00000031578 ENSMUSG0000003
1665 ENSMUSG00000031577 CG5684 CG9423 CG6845 CG10648
9) ENSG00000143486
TreeFam-A orthologs: ENSDARG00000012929 ENSMUSG00000026427 CG31426
PHOG-T(0.296875) orthologs: ENSMUSG00000026427
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000012929 ENSMUSG00000026427 CG31426
SCIPHY orthologs: ENSDARG00000012929 ENSMUSG00000026427
OrthoMCL orthologs: ENSDARG00000012929 ENSMUSG00000026427 CG31426
InParanoid orthologs: ENSDARG00000053013 ENSDARG00000052738 ENSDARG00000005619 ENSDARG00000021
346 ENSDARG00000012929 ENSMUSG00000014773 ENSMUSG00000049532 ENSMUSG00000045038 ENSMUSG0000002
7905 ENSMUSG00000026427 CG13316 CG3806 CG4889 CG3506 CG31426
10) ENSG00000154415
TreeFam-A orthologs: ENSMUSG00000042717 CG9619
PHOG-T(0.296875) orthologs: ENSMUSG00000042717
PHOG-S orthologs: ENSMUSG00000042717
PHOG-O orthologs: ENSMUSG00000042717
SCIPHY orthologs: ENSMUSG00000042717
OrthoMCL orthologs: ENSMUSG00000042717
InParanoid orthologs: ENSDARG00000016745 ENSMUSG00000042717 CG32775
11) ENSG00000102309
TreeFam-A orthologs: ENSDARG00000004527 ENSMUSG00000056836 CG11858
PHOG-T(0.296875) orthologs: ENSDARG00000004527 ENSMUSG00000079480 ENSMUSG00000056836 CG11858
PHOG-S orthologs: ENSDARG00000004527 ENSMUSG00000079480 ENSMUSG00000056836 CG11858
PHOG-O orthologs: ENSDARG00000004527 ENSMUSG00000079480 ENSMUSG00000056836 CG11858
SCIPHY orthologs: ENSDARG00000004527 ENSMUSG00000079480 ENSMUSG00000056836 CG11858
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000063647 ENSDARG00000004527 ENSDARG00000040838 ENSMUSG00000038
893 ENSMUSG00000079480 ENSMUSG00000031864 ENSMUSG00000056836 ENSMUSG00000058486 CG32031 CG1185
8 CG5144
12) ENSG00000172613
TreeFam-A orthologs: ENSDARG00000056984 ENSMUSG00000024824 CG3945
PHOG-T(0.296875) orthologs: ENSMUSG00000024824
PHOG-S orthologs: ENSMUSG00000024824
PHOG-O orthologs: ENSMUSG00000024824 CG3945
SCIPHY orthologs: ENSMUSG00000024824 ENSMUSG00000038569
OrthoMCL orthologs: ENSDARG00000056984 ENSMUSG00000024824 CG3945
InParanoid orthologs: ENSDARG00000056984 ENSDARG00000055763 ENSMUSG00000028224 ENSMUSG00000027
642 ENSMUSG00000074627 ENSMUSG00000058756 ENSMUSG00000024824 CG11788 CG30420 CG3945
13) ENSG00000176876
TreeFam-A orthologs: ENSDARG00000003144 ENSMUSG00000029499 CG7970
PHOG-T(0.296875) orthologs: ENSDARG00000003144 ENSMUSG00000029499
PHOG-S orthologs: ENSDARG00000003144 ENSMUSG00000029499
PHOG-O orthologs: ENSDARG00000003144 ENSMUSG00000029499 CG7970
SCIPHY orthologs: ENSDARG00000003144 ENSMUSG00000029499
OrthoMCL orthologs: ENSDARG00000003144 ENSDARG00000032431 ENSMUSG00000029499 CG11077
InParanoid orthologs: ENSDARG00000069924 ENSDARG00000003144 ENSDARG00000067749 ENSMUSG00000020
034 ENSMUSG00000029499 ENSMUSG00000004056 CG7970

14) ENSG00000196636
TreeFam-A orthologs: ENSDARG00000036092 ENSMUSG00000042505 CG14898
PHOG-T(0.296875) orthologs: ENSDARG00000036092 ENSMUSG00000042505 CG14898
PHOG-S orthologs: ENSDARG00000036092 ENSMUSG00000042505 CG14898
PHOG-O orthologs: ENSDARG00000036092 ENSMUSG00000042505 CG14898
SCIPHY orthologs: ENSDARG00000036092 ENSMUSG00000042505 CG14898
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000030957 ENSDARG00000036092 ENSDARG00000036076 ENSDARG00000002
190 ENSMUSG00000042505 ENSMUSG00000032577 ENSMUSG00000054720 ENSMUSG00000039198 ENSMUSG0000003
2554 CG10075 CG14898 CG3172
15) ENSG00000100216
TreeFam-A orthologs: ENSDARG00000045146 ENSMUSG00000022427 CG14981
PHOG-T(0.296875) orthologs: ENSMUSG00000022427
PHOG-S orthologs:
PHOG-O orthologs: ENSMUSG00000022427
SCIPHY orthologs: ENSDARG00000045146 ENSMUSG00000022427 CG14981
OrthoMCL orthologs: ENSDARG00000045146 ENSMUSG00000022427 CG14981
InParanoid orthologs: ENSDARG00000058357 ENSDARG00000045416 ENSDARG00000045146 ENSMUSG00000026
824 ENSMUSG00000021216 ENSMUSG00000043702 ENSMUSG00000022427 CG14981 CG18780
16) ENSG00000196683
TreeFam-A orthologs: ENSMUSG00000028998 CG8226
PHOG-T(0.296875) orthologs: ENSDARG00000067717 ENSMUSG00000028998
PHOG-S orthologs: ENSDARG00000067717 ENSMUSG00000028998
PHOG-O orthologs: ENSDARG00000067717 ENSMUSG00000028998
SCIPHY orthologs: ENSDARG00000067717 ENSMUSG00000028998
OrthoMCL orthologs: ENSMUSG00000028998 CG8226
InParanoid orthologs: ENSDARG00000053459 ENSDARG00000007850 ENSDARG00000067717 ENSDARG00000029
291 ENSMUSG00000041849 ENSMUSG00000028998 ENSMUSG00000030306 ENSMUSG00000036856 ENSMUSG0000007
3745 CG8493 CG8226
17) ENSG00000109519
TreeFam-A orthologs: ENSDARG00000010021 ENSMUSG00000029198 CG6155
PHOG-T(0.296875) orthologs: ENSDARG00000010021 ENSMUSG00000029198 CG6155
PHOG-S orthologs: ENSDARG00000010021 ENSMUSG00000029198 CG6155
PHOG-O orthologs: ENSDARG00000010021 ENSMUSG00000029198 CG6155
SCIPHY orthologs: ENSDARG00000010021 ENSMUSG00000024580 ENSMUSG00000029198 CG6155
OrthoMCL orthologs: ENSDARG00000010021 ENSMUSG00000029198 CG6155
InParanoid orthologs: ENSDARG00000010021 ENSDARG00000052695 ENSDARG00000040926 ENSDARG00000040
925 ENSDARG00000020890 ENSMUSG00000035164 ENSMUSG00000032612 ENSMUSG00000029198 ENSMUSG0000004
2099 ENSMUSG00000079057 CG9042 CG6155 CG32672
18) ENSG00000147679
TreeFam-A orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
PHOG-T(0.296875) orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
PHOG-S orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
PHOG-O orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
SCIPHY orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
OrthoMCL orthologs: ENSDARG00000028249 ENSMUSG00000022313 CG17652
InParanoid orthologs: ENSDARG00000036069 ENSDARG00000038475 ENSDARG00000011934 ENSDARG00000059
391 ENSDARG00000028249 ENSMUSG00000027333 ENSMUSG00000031174 ENSMUSG00000044702 ENSMUSG0000000
2957 ENSMUSG00000022313 CG4589 CG17652 CG5966
19) ENSG00000111639
TreeFam-A orthologs: ENSDARG00000041340 ENSMUSG00000030335 CG13098
PHOG-T(0.296875) orthologs: ENSDARG00000041340 ENSMUSG00000030335 CG13098
PHOG-S orthologs: ENSDARG00000041340 ENSMUSG00000030335 CG13098
PHOG-O orthologs: ENSDARG00000041340 ENSMUSG00000030335 CG13098
SCIPHY orthologs: ENSDARG00000041340 ENSMUSG00000030335
OrthoMCL orthologs: ENSDARG00000041754 ENSDARG00000059390 ENSDARG00000057853 ENSDARG0000001170
4 ENSDARG00000040546 ENSDARG00000053439 ENSDARG00000041100 ENSDARG00000036974 ENSDARG000000518
53 ENSDARG00000007406 ENSDARG00000042444 ENSDARG00000058390 ENSDARG00000000837 ENSDARG00000057
053 ENSDARG00000042056 ENSDARG00000056150 ENSDARG00000041340 ENSDARG00000028663 ENSDARG0000000
4219 ENSDARG00000037150 ENSDARG00000018865 ENSDARG00000058028 ENSDARG00000046132 ENSDARG000000
26900 ENSDARG00000045207 ENSDARG00000052695 ENSDARG00000034877 ENSDARG00000057159 ENSDARG00000
059238 ENSDARG00000019828 ENSDARG00000021882 ENSDARG00000005172 ENSDARG00000012990 ENSMUSG0000
0030335 CG13098

InParanoid orthologs: ENSDARG00000041340 ENSDARG00000059127 ENSDARG00000026185 ENSMUSG00000027
540 ENSMUSG00000045409 ENSMUSG00000032496 ENSMUSG00000030335 CG5010 CG13098
20) ENSG00000112096
TreeFam-A orthologs: ENSDARG00000042644 ENSMUSG00000006818 CG8905
PHOG-T(0.296875) orthologs: ENSDARG00000042644 ENSMUSG00000006818 CG8905
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000042644 ENSMUSG00000006818 CG8905
SCIPHY orthologs: ENSDARG00000042644 ENSMUSG00000006818 CG8905
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000008592 ENSDARG00000032218 ENSDARG00000052497 ENSDARG00000042
644 ENSMUSG00000021536 ENSMUSG00000037622 ENSMUSG00000038587 ENSMUSG00000028838 ENSMUSG0000000
6818 CG3214 CG1333 CG8905 CG1911
21) ENSG00000105197
TreeFam-A orthologs: ENSDARG00000031098 ENSMUSG00000003438 CG12313 CG2713
PHOG-T(0.296875) orthologs: ENSDARG00000031098 ENSMUSG00000003438
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000031098 ENSMUSG00000003438
SCIPHY orthologs: ENSDARG00000031098 ENSMUSG00000003438 CG6691
OrthoMCL orthologs: ENSDARG00000031098 ENSMUSG00000003438 CG2713 CG6691 CG12313
InParanoid orthologs: ENSDARG00000031098 ENSDARG00000011312 ENSDARG00000045760 ENSDARG00000038
695 ENSMUSG00000036995 ENSMUSG00000059203 ENSMUSG00000027931 ENSMUSG00000003438 ENSMUSG0000001
5087 CG12313 CG6691 CG10914 CG2713 CG12785 CG5408
22) ENSG00000167641
TreeFam-A orthologs: ENSDARG00000017710 ENSDARG00000011239 ENSMUSG00000037166 CG17124
PHOG-T(0.296875) orthologs: ENSDARG00000017710 ENSMUSG00000037166
PHOG-S orthologs: ENSDARG00000017710 ENSMUSG00000037166
PHOG-O orthologs: ENSDARG00000017710 ENSMUSG00000037166 ENSMUSG00000027317 CG17124
SCIPHY orthologs: ENSDARG00000017710 ENSDARG00000011239 ENSMUSG00000037166
OrthoMCL orthologs: ENSDARG00000017710 ENSDARG00000011239 ENSMUSG00000037166
InParanoid orthologs: ENSDARG00000027078 ENSDARG00000017710 ENSDARG00000011239 ENSMUSG00000037
166 ENSMUSG00000002279 ENSMUSG00000038991 CG17124
23) ENSG00000139318
TreeFam-A orthologs: ENSDARG00000070914 ENSMUSG00000019960 CG14080
PHOG-T(0.296875) orthologs: ENSDARG00000032738 ENSDARG00000070914 ENSMUSG00000031383 ENSMUSG00
000019960 ENSMUSG00000053716 CG14080
PHOG-S orthologs: ENSDARG00000070914 ENSMUSG00000019960
PHOG-O orthologs: ENSDARG00000026338 ENSDARG00000070914 ENSMUSG00000031383 ENSMUSG00000053716
ENSMUSG00000026659 ENSMUSG00000019178 ENSMUSG00000039384 ENSMUSG00000029790 ENSMUSG00000047067
ENSMUSG00000019960 CG14080
SCIPHY orthologs: ENSDARG00000032738 ENSDARG00000070914 ENSMUSG00000031383 ENSMUSG00000019960
ENSMUSG00000053716 CG14080
OrthoMCL orthologs: ENSDARG00000070914 ENSMUSG00000019960
InParanoid orthologs: ENSDARG00000013051 ENSDARG00000044565 ENSDARG00000003693 ENSDARG00000018
496 ENSDARG00000070914 ENSMUSG00000042599 ENSMUSG00000035299 ENSMUSG00000019960 ENSMUSG0000002
1587 ENSMUSG00000023150 CG14080 CG9911 CG7199 CG5714
24) ENSG00000186184
TreeFam-A orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
PHOG-T(0.296875) orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
PHOG-S orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
PHOG-O orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
SCIPHY orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
OrthoMCL orthologs: ENSDARG00000037570 ENSMUSG00000029642 CG10685
InParanoid orthologs: ENSDARG00000062585 ENSDARG00000057272 ENSDARG00000044254 ENSMUSG00000024
201 ENSMUSG00000044296 ENSMUSG00000028018 ENSMUSG00000029642 CG5447 CG2083 CG10685
25) ENSG00000152137
TreeFam-A orthologs: ENSDARG00000058365 ENSMUSG00000041548
PHOG-T(0.296875) orthologs: ENSDARG00000058365 ENSMUSG00000041548
PHOG-S orthologs: ENSDARG00000058365 ENSMUSG00000041548
PHOG-O orthologs: ENSDARG00000058365 ENSMUSG00000041548 CG14207
SCIPHY orthologs: ENSDARG00000058365 ENSMUSG00000041548
OrthoMCL orthologs: ENSDARG00000058365 ENSMUSG00000041548
InParanoid orthologs: ENSDARG00000058391 ENSDARG00000058365 ENSMUSG00000027845 ENSMUSG00000041
548 ENSMUSG00000026858 CG3781

26) ENSG00000145912
TreeFam-A orthologs: ENSDARG00000069422 ENSMUSG00000001056 CG5258
PHOG-T(0.296875) orthologs: ENSDARG00000069422 ENSMUSG00000001056 CG5258
PHOG-S orthologs: ENSDARG00000069422 ENSMUSG00000001056 CG5258
PHOG-O orthologs: ENSDARG00000023299 ENSDARG00000069878 ENSDARG00000069422 ENSMUSG00000001056
ENSMUSG00000021453 ENSMUSG00000066452 ENSMUSG00000063543 ENSMUSG00000063480 ENSMUSG00000062647
CG3949 CG5258 CG3314
SCIPHY orthologs: ENSDARG00000069422 ENSMUSG00000001056 CG5258
OrthoMCL orthologs: ENSDARG00000069422 ENSMUSG00000001056 CG5258
InParanoid orthologs: ENSDARG00000044479 ENSDARG00000042021 ENSDARG00000006409 ENSDARG00000040
505 ENSDARG00000069422 ENSMUSG00000026496 ENSMUSG00000030096 ENSMUSG00000001056 ENSMUSG0000002
1972 ENSMUSG00000022255 ENSMUSG00000078124 CG4272 CG5258 CG3297
27) ENSG00000198074
TreeFam-A orthologs: ENSDARG00000045598 ENSDARG00000006215 ENSMUSG00000052131 ENSMUSG000000297
62 ENSMUSG00000061758 CG6083 CG6084
PHOG-T(0.296875) orthologs: ENSDARG00000045598 ENSDARG00000006215 ENSMUSG00000052131 ENSMUSG00
000029762 ENSMUSG00000061758 ENSMUSG00000045410 ENSMUSG00000001642
PHOG-S orthologs: ENSMUSG00000029762
PHOG-O orthologs: ENSDARG00000045598 ENSDARG00000006215 ENSDARG00000031014 ENSMUSG00000029762
ENSMUSG00000001642 ENSMUSG00000045410 CG2767 CG10863 CG10638 CG12766
SCIPHY orthologs: ENSDARG00000035257 ENSDARG00000052030 ENSDARG00000045598 ENSDARG00000006215
ENSMUSG00000029762 ENSMUSG00000001642 ENSMUSG00000028692 ENSMUSG00000052131 ENSMUSG00000061758
ENSMUSG00000045410 CG10863 CG10638 CG12766 CG6084 CG6083
OrthoMCL orthologs: ENSDARG00000045598 ENSDARG00000006215 ENSDARG00000052030 ENSDARG0000003101
4 ENSDARG00000035257 ENSDARG00000004167 ENSDARG00000054934 ENSMUSG00000029762 ENSMUSG000000016
42 ENSMUSG00000061758 ENSMUSG00000052131 ENSMUSG00000038641 ENSMUSG00000028692 ENSMUSG00000045
410 CG10863 CG6083 CG9436 CG6084 CG2767 CG12766 CG10638
InParanoid orthologs: ENSDARG00000034117 ENSDARG00000011583 ENSDARG00000057452 ENSDARG00000045
768 ENSMUSG00000052131 ENSMUSG00000006276 ENSMUSG00000061758 ENSMUSG00000060212 ENSMUSG0000002
8862 CG1560 CG10667 CG6084
28) ENSG00000104320
TreeFam-A orthologs: ENSDARG00000040303 ENSMUSG00000028224 CG6754
PHOG-T(0.296875) orthologs: ENSDARG00000040303 ENSMUSG00000028224
PHOG-S orthologs: ENSDARG00000040303 ENSMUSG00000028224
PHOG-O orthologs: ENSDARG00000040303 ENSMUSG00000028224 ENSMUSG00000027699 ENSMUSG00000032555
ENSMUSG00000002221 CG32133 CG1960 CG6754 CG11156
SCIPHY orthologs: ENSDARG00000040303 ENSMUSG00000028224 CG6754
OrthoMCL orthologs: ENSDARG00000040303 ENSMUSG00000028224 CG6754
InParanoid orthologs: ENSDARG00000037640 ENSDARG00000036180 ENSMUSG00000028224 ENSMUSG00000074
890 ENSMUSG00000031916 ENSMUSG00000074106 CG3629 CG3945 CG6754
29) ENSG00000113569
TreeFam-A orthologs: ENSMUSG00000022142 CG4579
PHOG-T(0.296875) orthologs: ENSDARG00000001777 ENSMUSG00000022142
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000001777 ENSMUSG00000022142 CG4579
SCIPHY orthologs: ENSDARG00000001777 ENSMUSG00000022142
OrthoMCL orthologs: ENSDARG00000001777 ENSMUSG00000022142 CG4579
InParanoid orthologs: ENSDARG00000001835 ENSDARG00000040625 ENSDARG00000001777 ENSDARG00000040
649 ENSDARG00000004665 ENSMUSG00000048402 ENSMUSG00000022142 ENSMUSG00000022673 ENSMUSG0000005
2727 ENSMUSG00000032485 CG4579 CG1070 CG30372 CG3000 CG2093
30) ENSG00000093000
TreeFam-A orthologs: ENSDARG00000017454 ENSMUSG00000072878 ENSMUSG00000016619 CG2158
PHOG-T(0.296875) orthologs: ENSDARG00000017454 ENSMUSG00000072878 ENSMUSG00000016619
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000017454 ENSMUSG00000016619
SCIPHY orthologs: ENSDARG00000017454 ENSMUSG00000072878 ENSMUSG00000016619
OrthoMCL orthologs: ENSDARG00000017454 ENSMUSG00000016619 CG2158
InParanoid orthologs: ENSDARG00000053110 ENSDARG00000017454 ENSDARG00000020217 ENSMUSG00000031
129 ENSMUSG00000016619 ENSMUSG00000039463 CG15356 CG2158
31) ENSG00000079246
TreeFam-A orthologs: ENSDARG00000015599 ENSMUSG00000026187 CG18801
PHOG-T(0.296875) orthologs: ENSDARG00000068862 ENSDARG00000015599 ENSMUSG00000026187 CG18801
PHOG-S orthologs: ENSDARG00000068862 ENSDARG00000015599 ENSMUSG00000026187 CG18801

PHOG-O orthologs: ENSDARG00000068862 ENSDARG00000015599 ENSMUSG00000026187 CG18801
SCIPHY orthologs: ENSDARG00000068862 ENSDARG00000015599 ENSMUSG00000026187
OrthoMCL orthologs: ENSDARG00000068862 ENSDARG00000015599 ENSMUSG00000026187 CG18801
InParanoid orthologs: ENSDARG00000068862 ENSDARG00000043960 ENSDARG00000042566 ENSDARG00000015
599 ENSMUSG00000030786 ENSMUSG00000026187 ENSMUSG00000050553 ENSMUSG00000029866 CG5362 CG30152
CG18801 CG5474
32) ENSG00000134014
TreeFam-A orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
PHOG-T(0.296875) orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
PHOG-S orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
PHOG-O orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
SCIPHY orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
OrthoMCL orthologs: ENSDARG00000042005 ENSMUSG00000022031 CG15433
InParanoid orthologs: ENSDARG00000055755 ENSDARG00000022251 ENSDARG00000011500 ENSDARG00000026
491 ENSDARG00000042005 ENSDARG00000024694 ENSMUSG00000026640 ENSMUSG00000025064 ENSMUSG0000001
8476 ENSMUSG00000022031 ENSMUSG00000016150 CG8566 CG4006 CG1925 CG8631 CG15433
33) ENSG00000167799
TreeFam-A orthologs: ENSDARG00000007722 ENSMUSG00000024869 CG11095
PHOG-T(0.296875) orthologs: ENSDARG00000007722 ENSMUSG00000024869 CG11095
PHOG-S orthologs: ENSDARG00000007722 ENSMUSG00000024869 CG11095
PHOG-O orthologs: ENSDARG00000007722 ENSMUSG00000024869 CG11095
SCIPHY orthologs: ENSDARG00000007722 ENSMUSG00000024869
OrthoMCL orthologs: ENSDARG00000007722 ENSMUSG00000031767 ENSMUSG00000024869 CG11095
InParanoid orthologs: ENSDARG00000035872 ENSDARG00000007722 ENSDARG00000060983 ENSDARG00000015
709 ENSMUSG00000025268 ENSMUSG00000024976 ENSMUSG00000029123 ENSMUSG00000024869 CG3373 CG11095
CG11833
34) ENSG00000148175
TreeFam-A orthologs: ENSDARG00000003835 ENSMUSG00000026880 CG32245
PHOG-T(0.296875) orthologs: ENSDARG00000057035 ENSDARG00000003835 ENSMUSG00000026880 ENSMUSG00
000027744 CG32245
PHOG-S orthologs: ENSDARG00000003835 ENSMUSG00000026880
PHOG-O orthologs: ENSDARG00000016207 ENSDARG00000003835 ENSMUSG00000026880 ENSMUSG00000027744
CG14736 CG7635 CG33253 CG14644 CG32245
SCIPHY orthologs: ENSDARG00000016207 ENSDARG00000057035 ENSDARG00000003835 ENSMUSG00000026880
ENSMUSG00000027744 CG7635 CG33253 CG32245
OrthoMCL orthologs: ENSDARG00000057035 ENSDARG00000044097 ENSDARG00000003835 ENSMUSG0000002688
0 ENSMUSG00000028455 ENSMUSG00000027744 CG2970 CG7635 CG33253 CG32245
InParanoid orthologs: ENSDARG00000017525 ENSDARG00000069092 ENSDARG00000003835 ENSMUSG00000030
092 ENSMUSG00000026880 ENSMUSG00000038495 ENSMUSG00000032547 CG40293 CG3902 CG32245
35) ENSG00000125656
TreeFam-A orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
PHOG-T(0.296875) orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
PHOG-S orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
PHOG-O orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
SCIPHY orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
OrthoMCL orthologs: ENSDARG00000020679 ENSMUSG00000002660 CG5045
InParanoid orthologs: ENSDARG00000014692 ENSDARG00000058868 ENSDARG00000020679 ENSMUSG00000025
757 ENSMUSG00000002660 ENSMUSG00000026819 ENSMUSG00000029408 CG5045 CG12749 CG9983 CG10809
36) ENSG00000088832
TreeFam-A orthologs: ENSMUSG00000032966 CG11001
PHOG-T(0.296875) orthologs: ENSDARG00000033567 ENSDARG00000022684 ENSDARG00000052625 ENSMUSG00
000020635 ENSMUSG00000032966 CG11001
PHOG-S orthologs: ENSMUSG00000032966
PHOG-O orthologs: ENSDARG00000067738 ENSMUSG00000030357 ENSMUSG00000020949 ENSMUSG00000032966
CG11001
SCIPHY orthologs: ENSDARG00000033567 ENSDARG00000022684 ENSDARG00000052625 ENSMUSG00000020635
ENSMUSG00000032966 CG11001
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000031150 ENSDARG00000041321 ENSDARG00000038075 ENSMUSG00000032
564 ENSMUSG00000029512 ENSMUSG00000032966 ENSMUSG00000079109 CG3085 CG4933 CG11001
37) ENSG00000091651
TreeFam-A orthologs: ENSDARG00000014447 ENSMUSG00000031697 CG1584
PHOG-T(0.296875) orthologs: ENSDARG00000014447 ENSMUSG00000031697 CG1584

PHOG-S orthologs: ENSDARG00000014447 ENSMUSG00000031697 CG1584
PHOG-O orthologs: ENSDARG00000014447 ENSMUSG00000031697 CG1584
SCIPHY orthologs: ENSDARG00000014447 ENSMUSG00000031697
OrthoMCL orthologs: ENSDARG00000014447 ENSMUSG00000031697 CG1584
InParanoid orthologs: ENSDARG00000014447 ENSDARG00000032353 ENSMUSG00000027405 ENSMUSG00000042
189 ENSMUSG00000031697 CG1584
38) ENSG00000125037
TreeFam-A orthologs: ENSDARG00000020607 ENSMUSG00000030286 CG6750
PHOG-T(0.296875) orthologs: ENSDARG00000020607 ENSDARG00000029479 ENSMUSG00000030286
PHOG-S orthologs: ENSDARG00000020607 ENSMUSG00000030286
PHOG-O orthologs: ENSDARG00000020607 ENSMUSG00000030286 CG6750
SCIPHY orthologs: ENSDARG00000020607 ENSDARG00000029479 ENSMUSG00000030286 CG6750
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000020607 ENSDARG00000011837 ENSDARG00000015460 ENSDARG00000031
506 ENSMUSG00000026785 ENSMUSG00000026977 ENSMUSG00000028397 ENSMUSG00000030286 ENSMUSG0000001
1256 CG6750 CG5583 CG31753 CG14940
39) ENSG00000153037
TreeFam-A orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
PHOG-T(0.296875) orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
PHOG-S orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
PHOG-O orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
SCIPHY orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
OrthoMCL orthologs: ENSDARG00000035699 ENSMUSG00000014504 CG4457
InParanoid orthologs: ENSDARG00000033134 ENSDARG00000035699 ENSDARG00000002837 ENSMUSG00000026
554 ENSMUSG00000028576 ENSMUSG00000017764 ENSMUSG00000014504 CG4457 CG2846
40) ENSG00000159186
TreeFam-A orthologs: ENSDARG00000001788 ENSMUSG00000022956 ENSMUSG00000042962 CG4307
PHOG-T(0.296875) orthologs: ENSDARG00000001788 ENSMUSG00000022956 CG4307
PHOG-S orthologs: ENSDARG00000001788 ENSMUSG00000022956 CG4307
PHOG-O orthologs: ENSDARG00000001788 ENSMUSG00000022956 CG4307
SCIPHY orthologs: ENSDARG00000001788 ENSMUSG00000022956 CG4307
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000002798 ENSDARG00000016611 ENSDARG00000001788 ENSDARG00000046
119 ENSMUSG00000021681 ENSMUSG00000058806 ENSMUSG00000022956 ENSMUSG00000021978 ENSMUSG0000003
1889 CG4307 CG12357 CG5214
41) ENSG00000089048
TreeFam-A orthologs: ENSDARG00000008740 ENSMUSG00000045624 CG11417
PHOG-T(0.296875) orthologs:
PHOG-S orthologs:
PHOG-O orthologs:
SCIPHY orthologs:
OrthoMCL orthologs: ENSDARG00000008740 ENSMUSG00000045624 CG11417
InParanoid orthologs: ENSDARG00000054362 ENSDARG00000008740 ENSDARG00000054963 ENSDARG00000042
729 ENSMUSG00000045624 ENSMUSG00000027297 ENSMUSG00000001768 ENSMUSG00000033526 ENSMUSG0000003
6913 CG7012 CG1628 CG3856 CG9210 CG11417
42) ENSG00000135046
TreeFam-A orthologs: ENSDARG00000043936 ENSDARG00000011168 ENSDARG00000014594 ENSDARG000000267
26 ENSMUSG00000024659 CG9579 CG5730 CG33491 CG33487 CG33498 CG9968
PHOG-T(0.296875) orthologs: ENSDARG00000026726 ENSMUSG00000024659
PHOG-S orthologs: ENSMUSG00000024659
PHOG-O orthologs: ENSDARG00000002632 ENSDARG00000053625 ENSDARG00000016470 ENSDARG00000009196
ENSDARG00000039645 ENSDARG00000013613 ENSDARG00000013335 ENSDARG00000014594 ENSDARG00000036456
ENSDARG00000013976 ENSDARG00000026726 ENSDARG00000011168 ENSDARG00000003216 ENSDARG0000004425
4 ENSMUSG00000029994 ENSMUSG00000015702 ENSMUSG00000029484 ENSMUSG00000021950 ENSMUSG000000277
12 ENSMUSG00000021814 ENSMUSG00000031635 ENSMUSG00000021866 ENSMUSG00000018340 ENSMUSG00000024
659 ENSMUSG00000032231 CG5730 CG9968 CG9579
SCIPHY orthologs: ENSDARG00000026726 ENSDARG00000011168 ENSDARG00000003216 ENSDARG00000014594
ENSDARG00000053625 ENSMUSG00000024659 ENSMUSG00000032231
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000026726 ENSMUSG00000020430 ENSMUSG00000024659 CG4005
43) ENSG00000161217
TreeFam-A orthologs: ENSDARG00000004492 ENSDARG00000011233 CG1049 CG18330
PHOG-T(0.296875) orthologs: ENSDARG00000004492 ENSDARG00000011233 ENSDARG00000058162 ENSDARG00

000044456 ENSMUSG00000005615 ENSMUSG00000035246
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000011233 ENSMUSG00000005615 CG18330
SCIPHY orthologs: ENSDARG00000004492 ENSDARG00000011233 ENSDARG00000058162 ENSDARG00000044456 ENSMUSG00000005615 ENSMUSG00000035246 CG18330
OrthoMCL orthologs: ENSDARG00000011233 ENSDARG00000058162 ENSDARG00000044456 ENSMUSG00000005615 ENSMUSG00000035246 CG1049 CG18330
InParanoid orthologs: ENSDARG00000060948 ENSDARG00000011233 ENSDARG00000045156 ENSDARG00000056859 ENSMUSG00000005615 ENSMUSG00000025001 ENSMUSG00000026827 ENSMUSG00000019828 ENSMUSG00000025401 CG11190 CG1049 CG2259 CG18330 CG4785
44) ENSG00000197265
TreeFam-A orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
PHOG-T(0.296875) orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
PHOG-S orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
PHOG-O orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
SCIPHY orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
OrthoMCL orthologs: ENSDARG00000012672 ENSMUSG00000031585 CG1276
InParanoid orthologs: ENSDARG00000012672 ENSDARG00000019489 ENSDARG00000004342 ENSDARG00000058030 ENSMUSG00000028560 ENSMUSG00000031585 ENSMUSG00000043079 ENSMUSG00000020361 ENSMUSG00000040596 CG1276 CG4195 CG4059 CG31954
45) ENSG00000176619
TreeFam-A orthologs: ENSDARG00000009933 ENSMUSG00000062075 CG10119 CG6944
PHOG-T(0.296875) orthologs: ENSDARG00000009933 ENSMUSG00000062075
PHOG-S orthologs: ENSDARG00000009933 ENSMUSG00000062075
PHOG-O orthologs: ENSDARG00000068589 ENSDARG00000007751 ENSDARG00000009933 ENSMUSG00000062075
SCIPHY orthologs: ENSDARG00000013415 ENSDARG00000007751 ENSDARG00000009933 ENSDARG00000044299 ENSMUSG00000028063 ENSMUSG00000024590 ENSMUSG00000062075 CG10119 CG6944
OrthoMCL orthologs: ENSDARG00000044299 ENSDARG00000009933 ENSMUSG00000028063 ENSMUSG00000024590 ENSMUSG00000062075 CG10119 CG6944
InParanoid orthologs: ENSDARG00000052674 ENSDARG00000009933 ENSDARG00000070116 ENSDARG00000007993 ENSDARG00000059939 ENSMUSG00000004043 ENSMUSG00000062075 ENSMUSG00000020919 ENSMUSG00000038156 ENSMUSG00000029163 CG6944 CG11859 CG10119 CG10750 CG1696 CG17564
46) ENSG00000116747
TreeFam-A orthologs: ENSDARG00000020977 ENSMUSG00000018199 CG10803
PHOG-T(0.296875) orthologs: ENSDARG00000020977 ENSMUSG00000018199 CG10803
PHOG-S orthologs: ENSDARG00000020977 ENSMUSG00000018199 CG10803
PHOG-O orthologs: ENSDARG00000020977 ENSMUSG00000018199 CG10803
SCIPHY orthologs: ENSDARG00000020977 ENSMUSG00000018199
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000043323 ENSDARG00000036500 ENSDARG00000041731 ENSDARG00000020977 ENSMUSG00000018199 ENSMUSG00000031311 ENSMUSG00000035898 ENSMUSG00000026469 CG1753 CG9035 CG8058 CG10803
47) ENSG00000114388
TreeFam-A orthologs: ENSDARG00000059613 ENSMUSG00000010057 CG9104
PHOG-T(0.296875) orthologs: ENSDARG00000059613 ENSMUSG00000010057
PHOG-S orthologs: ENSDARG00000059613 ENSMUSG00000010057
PHOG-O orthologs: ENSDARG00000059613 ENSMUSG00000010057 CG9104
SCIPHY orthologs: ENSDARG00000059613 ENSMUSG00000010057 CG9104
OrthoMCL orthologs: ENSDARG00000059613 ENSMUSG00000010057 CG9104
InParanoid orthologs: ENSDARG00000042182 ENSDARG00000059613 ENSDARG00000008637 ENSDARG00000027087 ENSMUSG00000040522 ENSMUSG00000025357 ENSMUSG00000023927 ENSMUSG00000019947 ENSMUSG00000010057 CG8552 CG9104 CG11206 CG33175
48) ENSG00000121073
TreeFam-A orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
PHOG-T(0.296875) orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
PHOG-S orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
PHOG-O orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
SCIPHY orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
OrthoMCL orthologs: ENSDARG00000070689 ENSDARG00000038213 ENSMUSG00000020873 CG5802
InParanoid orthologs: ENSDARG00000022187 ENSDARG00000070689 ENSDARG00000023145 ENSDARG00000038213 ENSMUSG00000029034 ENSMUSG00000047348 ENSMUSG00000002129 ENSMUSG00000046589 ENSMUSG00000020873 ENSMUSG00000078606 ENSMUSG00000073904 ENSMUSG00000045868 CG5802 CG1542 CG9327 CG5745
49) ENSG00000112367

TreeFam-A orthologs: ENSMUSG00000038417 CG17840
PHOG-T(0.296875) orthologs: ENSMUSG00000038417 CG17840
PHOG-S orthologs: ENSMUSG00000038417 CG17840
PHOG-O orthologs: ENSMUSG00000038417 CG17840
SCIPHY orthologs: ENSMUSG00000038417 CG17840
OrthoMCL orthologs: ENSDARG00000037566 ENSMUSG00000038417 CG17840
InParanoid orthologs: ENSDARG00000006396 ENSDARG00000039066 ENSMUSG00000029502 ENSMUSG00000038
417 ENSMUSG00000024960 ENSMUSG00000036523 CG17840 CG2637 CG2244 CG12084
50) ENSG00000144231
TreeFam-A orthologs: ENSMUSG00000024258 CG33520
PHOG-T(0.296875) orthologs: ENSMUSG00000024258 CG33520
PHOG-S orthologs: ENSMUSG00000024258 CG33520
PHOG-O orthologs: ENSMUSG00000024258 CG33520
SCIPHY orthologs: ENSMUSG00000024258 CG33520
OrthoMCL orthologs: ENSMUSG00000024258
InParanoid orthologs: ENSDARG00000016866 ENSDARG00000014101 ENSMUSG00000001773 ENSMUSG00000024
258 ENSMUSG00000073838 ENSMUSG00000028613 CG6811 CG40005 CG17678
51) ENSG00000164258
TreeFam-A orthologs: ENSDARG00000052840 ENSMUSG00000021764 CG12203
PHOG-T(0.296875) orthologs: ENSMUSG00000021764
PHOG-S orthologs: ENSMUSG00000021764
PHOG-O orthologs: ENSMUSG00000021764
SCIPHY orthologs: ENSDARG00000052840 ENSMUSG00000021764 CG12203
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000041062 ENSDARG00000052840 ENSDARG00000054152 ENSMUSG00000025
161 ENSMUSG00000010517 ENSMUSG00000023953 ENSMUSG00000021764 CG16721 CG12203
52) ENSG00000149480
TreeFam-A orthologs: ENSDARG00000013031 ENSMUSG00000071646 CG2244
PHOG-T(0.296875) orthologs: ENSDARG00000054903 ENSDARG00000013031 ENSMUSG00000071646 ENSMUSG00
000055817 ENSMUSG00000021144 CG2244
PHOG-S orthologs: ENSDARG00000013031 ENSMUSG00000071646
PHOG-O orthologs: ENSDARG00000054903 ENSDARG00000013031 ENSMUSG00000071646 ENSMUSG00000055817
ENSMUSG00000005836 ENSMUSG00000021144 ENSMUSG00000031162 CG2244
SCIPHY orthologs: ENSDARG00000054903 ENSDARG00000013031 ENSMUSG00000071646 ENSMUSG00000055817
ENSMUSG00000021144 CG2244
OrthoMCL orthologs: ENSDARG00000054903 ENSDARG00000013031 ENSDARG00000007198 ENSMUSG0000007164
6 ENSMUSG00000055817 ENSMUSG00000021144 CG2244
InParanoid orthologs: ENSDARG00000038835 ENSDARG00000013031 ENSDARG00000042444 ENSMUSG00000029
502 ENSMUSG00000071646 ENSMUSG00000054667 ENSMUSG00000066643 CG5125 CG17807 CG2244 CG11738
53) ENSG00000111684
TreeFam-A orthologs: ENSMUSG00000004270 CG9655
PHOG-T(0.296875) orthologs: ENSMUSG00000004270
PHOG-S orthologs: ENSMUSG00000004270
PHOG-O orthologs: ENSMUSG00000004270
SCIPHY orthologs: ENSMUSG00000004270
OrthoMCL orthologs: ENSMUSG00000004270 CG9655
InParanoid orthologs: ENSDARG00000036868 ENSDARG00000056102 ENSDARG00000013858 ENSMUSG00000027
624 ENSMUSG00000037149 ENSMUSG00000004270 CG9655 CG4406
54) ENSG00000178921
TreeFam-A orthologs: ENSDARG00000003750 CG9127
PHOG-T(0.296875) orthologs: ENSDARG00000003750 ENSMUSG00000020899 CG9127
PHOG-S orthologs: ENSDARG00000003750 ENSMUSG00000020899 CG9127
PHOG-O orthologs: ENSDARG00000003750 ENSMUSG00000020899 CG9127
SCIPHY orthologs: ENSDARG00000003750 ENSMUSG00000020899 CG9127
OrthoMCL orthologs: ENSDARG00000003750 ENSMUSG00000020899 CG9127
InParanoid orthologs: ENSDARG00000004635 ENSDARG00000013000 ENSDARG00000012684 ENSDARG00000011
626 ENSDARG00000003750 ENSMUSG00000062372 ENSMUSG00000035459 ENSMUSG00000020899 ENSMUSG0000001
5468 ENSMUSG00000036273 CG3131 CG32702 CG12149 CG31648 CG9127
55) ENSG00000116903
TreeFam-A orthologs: ENSMUSG00000074030 CG6095
PHOG-T(0.296875) orthologs: ENSDARG00000063211 ENSMUSG00000074030 CG6095
PHOG-S orthologs: ENSDARG00000063211 ENSMUSG00000074030 CG6095
PHOG-O orthologs: ENSDARG00000063211 ENSMUSG00000074030 CG6095

SCIPHY orthologs: ENSDARG00000063211 ENSMUSG00000074030
OrthoMCL orthologs: ENSMUSG00000074030 CG6095
InParanoid orthologs: ENSDARG00000019949 ENSDARG00000008383 ENSDARG00000036911 ENSDARG00000041
991 ENSMUSG00000074030 ENSMUSG00000058388 ENSMUSG00000029169 ENSMUSG00000007440 CG3149 CG6095
CG3008 CG1412
56) ENSG00000099995
TreeFam-A orthologs: ENSDARG00000041887 ENSMUSG00000002129 CG16941
PHOG-T(0.296875) orthologs: ENSDARG00000041887 ENSMUSG00000002129 CG16941
PHOG-S orthologs: ENSDARG00000041887 ENSMUSG00000002129 CG16941
PHOG-O orthologs: ENSDARG00000041887 ENSDARG00000005980 ENSMUSG00000029439 ENSMUSG00000002129
CG16941 CG3019
SCIPHY orthologs: ENSDARG00000041887 ENSMUSG00000002129 CG16941
OrthoMCL orthologs: ENSDARG00000041887 ENSMUSG00000002129 CG16941
InParanoid orthologs: ENSDARG00000024204 ENSDARG00000044491 ENSDARG00000041887 ENSDARG00000061
752 ENSMUSG00000063382 ENSMUSG00000021670 ENSMUSG00000036768 ENSMUSG00000033653 ENSMUSG0000000
2129 CG16941 CG8858 CG10295 CG9327 CG7177
57) ENSG00000139180
TreeFam-A orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
PHOG-T(0.296875) orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
PHOG-S orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
PHOG-O orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
SCIPHY orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
OrthoMCL orthologs: ENSDARG00000070732 ENSDARG00000070723 ENSMUSG00000000399 CG6020
InParanoid orthologs: ENSDARG00000070732 ENSDARG00000007430 ENSDARG00000007443 ENSDARG00000070
723 ENSMUSG00000035476 ENSMUSG00000036782 ENSMUSG00000000399 ENSMUSG00000029419 CG5032 CG6020
CG31472
58) ENSG00000189091
TreeFam-A orthologs: ENSDARG00000003969 ENSMUSG00000033732 CG13900
PHOG-T(0.296875) orthologs: ENSDARG00000003969 ENSMUSG00000033732 CG13900
PHOG-S orthologs: ENSMUSG00000033732
PHOG-O orthologs: ENSDARG00000003969 ENSMUSG00000033732 CG13900
SCIPHY orthologs: ENSDARG00000003969 ENSMUSG00000033732 CG13900
OrthoMCL orthologs: ENSDARG00000003969 ENSMUSG00000033732 CG13900
InParanoid orthologs: ENSDARG00000003969 ENSDARG00000002385 ENSDARG00000004774 ENSDARG00000007
566 ENSDARG00000056800 ENSMUSG00000033732 ENSMUSG00000004821 ENSMUSG00000055204 ENSMUSG0000006
8740 ENSMUSG00000004668 ENSMUSG00000024002 CG13900 CG4943 CG8322 CG10198 CG1945
59) ENSG00000160325
TreeFam-A orthologs: ENSMUSG00000015488 CG6151
PHOG-T(0.296875) orthologs: ENSMUSG00000015488 CG6151
PHOG-S orthologs: ENSMUSG00000015488 CG6151
PHOG-O orthologs: ENSMUSG00000015488 CG6151
SCIPHY orthologs: ENSMUSG00000015488
OrthoMCL orthologs: ENSMUSG00000015488 CG6151
InParanoid orthologs: ENSDARG00000012458 ENSDARG00000069853 ENSMUSG00000050836 ENSMUSG00000059
857 ENSMUSG00000015882 ENSMUSG00000015488 CG4040 CG6151 CG33224
60) ENSG00000143815
TreeFam-A orthologs: ENSDARG00000014013 ENSMUSG00000004880 CG17952
PHOG-T(0.296875) orthologs: ENSDARG00000014013
PHOG-S orthologs: ENSDARG00000014013
PHOG-O orthologs: ENSDARG00000014013 ENSDARG00000056235 ENSMUSG00000021470 CG17952
SCIPHY orthologs: ENSDARG00000032816 ENSDARG00000014013 ENSMUSG00000024799
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000004904 ENSDARG00000024728 ENSDARG00000031930 ENSDARG00000014
013 ENSDARG00000059270 ENSMUSG00000040852 ENSMUSG00000022391 ENSMUSG00000029469 ENSMUSG0000000
4880 ENSMUSG00000028854 CG5842 CG11606 CG17952 CG4536 CG7108 CG4238
61) ENSG00000089163
TreeFam-A orthologs: ENSDARG00000010415 CG3187
PHOG-T(0.296875) orthologs: ENSDARG00000010415 ENSMUSG00000029524 CG3187
PHOG-S orthologs: ENSDARG00000010415 ENSMUSG00000029524 CG3187
PHOG-O orthologs: ENSDARG00000010415 ENSMUSG00000029524 CG3187
SCIPHY orthologs: ENSDARG00000010415 ENSMUSG00000029524 CG3187
OrthoMCL orthologs: ENSDARG00000010415 ENSMUSG00000029524 CG3187
InParanoid orthologs: ENSDARG00000032704 ENSDARG00000010415 ENSDARG00000058358 ENSMUSG00000029

524 ENSMUSG00000021209 ENSMUSG00000033032 ENSMUSG00000002017 CG5028 CG6923 CG3187
62) ENSG00000116120
TreeFam-A orthologs: ENSDARG00000016864 ENSMUSG00000026245 CG5706
PHOG-T(0.296875) orthologs: ENSDARG00000016864 ENSMUSG00000026245 CG5706
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000016864 ENSMUSG00000026245 CG5706
SCIPHY orthologs: ENSDARG00000016864 ENSMUSG00000026245 CG5706
OrthoMCL orthologs: ENSDARG00000016864 ENSMUSG00000026245 CG5706
InParanoid orthologs: ENSDARG00000029172 ENSDARG00000038489 ENSDARG00000038043 ENSDARG00000055
705 ENSMUSG00000030739 ENSMUSG00000022607 ENSMUSG00000026245 ENSMUSG00000026579 ENSMUSG0000007
4740 ENSMUSG00000024991 CG14750 CG5706 CG15087 CG10590 CG17704
63) ENSG00000128602
TreeFam-A orthologs: ENSDARG00000002952 ENSMUSG00000001761 CG11561
PHOG-T(0.296875) orthologs: ENSDARG00000002952 ENSMUSG00000001761 CG11561
PHOG-S orthologs: ENSDARG00000002952 ENSMUSG00000001761 CG11561
PHOG-O orthologs: ENSDARG00000002952 ENSMUSG00000005220 ENSMUSG00000034739 ENSMUSG00000001761
ENSMUSG00000036596 CG16785 CG11561
SCIPHY orthologs: ENSDARG00000002952 ENSMUSG00000001761
OrthoMCL orthologs: ENSDARG00000002952 ENSMUSG00000001761 CG11561
InParanoid orthologs: ENSDARG00000002952 ENSDARG00000032578 ENSDARG00000030938 ENSDARG00000028
148 ENSMUSG00000021275 ENSMUSG00000001761 ENSMUSG00000042489 CG8637 CG11561 CG2245
64) ENSG00000158042
TreeFam-A orthologs: ENSMUSG00000030879 CG13880
PHOG-T(0.296875) orthologs: ENSMUSG00000030879 CG13880
PHOG-S orthologs: ENSMUSG00000030879
PHOG-O orthologs: ENSMUSG00000030879 CG13880
SCIPHY orthologs: ENSMUSG00000030879
OrthoMCL orthologs: ENSMUSG00000030879 CG13880
InParanoid orthologs: ENSDARG00000008140 ENSDARG00000005108 ENSDARG00000001859 ENSMUSG00000028
800 ENSMUSG00000030879 ENSMUSG00000033021 ENSMUSG00000070733 ENSMUSG00000006362 CG14618 CG1388
0 CG3064
65) ENSG00000136197
TreeFam-A orthologs: ENSDARG00000057184 ENSMUSG00000039182 CG13886
PHOG-T(0.296875) orthologs: ENSDARG00000057184 ENSMUSG00000039182 CG13886
PHOG-S orthologs: ENSDARG00000057184 ENSMUSG00000039182 CG13886
PHOG-O orthologs: ENSDARG00000057184 ENSMUSG00000039182 CG13886
SCIPHY orthologs: ENSDARG00000057184 ENSMUSG00000039182
OrthoMCL orthologs: ENSDARG00000057184 ENSMUSG00000039182 CG13886
InParanoid orthologs: ENSDARG00000006710 ENSDARG00000007086 ENSDARG00000028086 ENSDARG00000057
184 ENSMUSG00000020439 ENSMUSG00000039182 ENSMUSG00000022286 ENSMUSG00000030269 CG12338 CG1396
9 CG13886
66) ENSG00000132541
TreeFam-A orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261
PHOG-T(0.296875) orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261
PHOG-S orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261
PHOG-O orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261 CG1578
SCIPHY orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261
OrthoMCL orthologs: ENSDARG00000035882 ENSMUSG00000022323 CG15261
InParanoid orthologs: ENSDARG00000052688 ENSDARG00000035882 ENSDARG00000052170 ENSDARG00000012
025 ENSDARG00000041145 ENSMUSG00000021010 ENSMUSG00000032807 ENSMUSG00000040703 ENSMUSG0000002
2323 ENSMUSG00000025239 CG15261 CG3996 CG5620
67) ENSG00000150768
TreeFam-A orthologs: ENSDARG00000015918 ENSMUSG00000000168 CG5261
PHOG-T(0.296875) orthologs: ENSDARG00000015918 ENSMUSG00000000168 CG5261
PHOG-S orthologs: ENSDARG00000015918 ENSMUSG00000000168 CG5261
PHOG-O orthologs: ENSDARG00000014230 ENSDARG00000015918 ENSMUSG00000004789 ENSMUSG00000000168
CG5214 CG5261
SCIPHY orthologs: ENSDARG00000015918 ENSMUSG00000000340 ENSMUSG00000000168 CG5599 CG5261
OrthoMCL orthologs: ENSDARG00000015918 ENSMUSG00000000168 CG5261
InParanoid orthologs: ENSDARG00000040559 ENSDARG00000015918 ENSDARG00000005834 ENSDARG00000010
744 ENSDARG00000010571 ENSMUSG00000042035 ENSMUSG00000027971 ENSMUSG00000070738 ENSMUSG0000004
5983 ENSMUSG00000000168 CG5261 CG15624 CG1140 CG7008 CG12787 CG31320
68) ENSG00000116729

TreeFam-A orthologs: ENSDARG00000009534 ENSMUSG00000028173 CG6210
PHOG-T(0.296875) orthologs: ENSDARG00000009534 ENSMUSG00000028173
PHOG-S orthologs: ENSMUSG00000028173
PHOG-O orthologs: ENSDARG00000009534 ENSMUSG00000028173 CG6210
SCIPHY orthologs: ENSDARG00000009534 ENSMUSG00000028173
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000040910 ENSDARG00000017696 ENSDARG00000062002 ENSDARG00000009
534 ENSMUSG00000026618 ENSMUSG00000026674 ENSMUSG00000028173 ENSMUSG00000036661 CG9320 CG6210
CG5184 CG12113
69) ENSG00000162384
TreeFam-A orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
PHOG-T(0.296875) orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
PHOG-S orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
PHOG-O orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
SCIPHY orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
OrthoMCL orthologs: ENSDARG00000063341 ENSMUSG00000028608 CG4646
InParanoid orthologs: ENSDARG00000040644 ENSDARG00000017121 ENSDARG00000045025 ENSMUSG00000015
659 ENSMUSG00000020719 ENSMUSG00000022246 ENSMUSG00000028608 CG4646 CG1569 CG7890
70) ENSG00000168496
TreeFam-A orthologs: ENSDARG00000011404 ENSMUSG00000024742 CG8648
PHOG-T(0.296875) orthologs: ENSDARG00000011404 ENSMUSG00000024742
PHOG-S orthologs: ENSDARG00000011404 ENSMUSG00000024742
PHOG-O orthologs: ENSDARG00000011404 ENSMUSG00000024742 ENSMUSG00000051235 CG10670
SCIPHY orthologs: ENSDARG00000012325 ENSDARG00000011404 ENSMUSG00000024742
OrthoMCL orthologs: ENSDARG00000011404 ENSMUSG00000024742 ENSMUSG00000064032 CG8648
InParanoid orthologs: ENSDARG00000070870 ENSDARG00000011404 ENSDARG00000035505 ENSDARG00000019
300 ENSMUSG00000068117 ENSMUSG00000027002 ENSMUSG00000024742 ENSMUSG00000024727 ENSMUSG0000002
1686 CG17520 CG5394 CG8648 CG33517
71) ENSG00000164219
TreeFam-A orthologs: ENSDARG00000058613 ENSMUSG00000024477 CG3469
PHOG-T(0.296875) orthologs: ENSMUSG00000024477 CG3469
PHOG-S orthologs: ENSMUSG00000024477 CG3469
PHOG-O orthologs: ENSMUSG00000038975 ENSMUSG00000024477 CG3469 CG18627
SCIPHY orthologs: ENSMUSG00000024477 CG3469
OrthoMCL orthologs: ENSDARG00000058613 ENSMUSG00000024477 CG3469
InParanoid orthologs: ENSDARG00000052455 ENSDARG00000045755 ENSDARG00000051931 ENSDARG00000028
819 ENSMUSG00000026062 ENSMUSG00000066048 ENSMUSG00000026213 ENSMUSG00000053414 ENSMUSG0000002
4477 CG7872 CG5220 CG3469
72) ENSG00000138604
TreeFam-A orthologs: ENSDARG00000005095 ENSDARG00000068981 ENSMUSG00000032252 CG3194
PHOG-T(0.296875) orthologs: ENSDARG00000005095 ENSDARG00000068981 ENSMUSG00000032252
PHOG-S orthologs: ENSDARG00000068981 ENSMUSG00000032252
PHOG-O orthologs: ENSDARG00000068981 ENSMUSG00000032252
SCIPHY orthologs: ENSDARG00000005095 ENSDARG00000068981 ENSMUSG00000032252
OrthoMCL orthologs: ENSDARG00000005095 ENSDARG00000068981 ENSMUSG00000032252 CG3194
InParanoid orthologs: ENSDARG00000006196 ENSDARG00000063194 ENSDARG00000068981 ENSDARG00000068
301 ENSMUSG00000078571 ENSMUSG00000042105 ENSMUSG00000054808 ENSMUSG00000032252 ENSMUSG0000002
3845 CG33520 CG17484 CG2448 CG3194
73) ENSG00000129187
TreeFam-A orthologs: ENSDARG00000036990 ENSMUSG00000031562 CG6951
PHOG-T(0.296875) orthologs: ENSDARG00000036990 ENSMUSG00000031562
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000036990 ENSMUSG00000031562 CG6951
SCIPHY orthologs: ENSDARG00000036990 ENSMUSG00000031562 CG6951
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000044974 ENSDARG00000036990 ENSDARG00000036825 ENSDARG00000036
834 ENSDARG00000036840 ENSDARG00000036832 ENSDARG00000036830 ENSDARG00000057127 ENSDARG0000002
3082 ENSDARG00000018149 ENSMUSG00000042724 ENSMUSG00000027995 ENSMUSG00000031562 ENSMUSG000000
29407 ENSMUSG00000046947 CG6951 CG4169 CG1965
74) ENSG00000113460
TreeFam-A orthologs: ENSDARG00000024511 ENSMUSG00000022247 CG11583
PHOG-T(0.296875) orthologs: ENSDARG00000024511 ENSMUSG00000022247
PHOG-S orthologs:

PHOG-O orthologs: ENSDARG00000024511 CG11583
SCIPHY orthologs: ENSDARG00000024511 ENSMUSG00000022247 CG11583
OrthoMCL orthologs: ENSDARG00000024511 ENSMUSG00000022247 CG11583
InParanoid orthologs: ENSDARG00000020596 ENSDARG00000041799 ENSDARG00000009208 ENSDARG00000024
511 ENSMUSG00000022247 ENSMUSG00000005640 ENSMUSG00000025995 ENSMUSG00000014791 ENSMUSG0000000
5947 CG11583 CG6372 CG7415 CG6696 CG32351
75) ENSG00000067533
TreeFam-A orthologs: ENSDARG00000013478 ENSMUSG00000001305 CG3817
PHOG-T(0.296875) orthologs: ENSDARG00000013478 ENSMUSG00000001305 CG3817
PHOG-S orthologs: ENSDARG00000013478 ENSMUSG00000001305 CG3817
PHOG-O orthologs: ENSDARG00000013478 ENSMUSG00000001305 CG3817
SCIPHY orthologs: ENSDARG00000013478 ENSMUSG00000001305
OrthoMCL orthologs: ENSDARG00000013478 ENSMUSG00000001305 CG3817
InParanoid orthologs: ENSDARG00000013478 ENSDARG00000044521 ENSDARG00000025220 ENSMUSG00000007
476 ENSMUSG00000006705 ENSMUSG00000044022 ENSMUSG00000001305 ENSMUSG00000041731 ENSMUSG0000007
9484 CG10489 CG5827 CG3817
76) ENSG00000180875
TreeFam-A orthologs: ENSDARG00000056057 ENSMUSG00000050069
PHOG-T(0.296875) orthologs: ENSDARG00000005001 ENSMUSG00000050069
PHOG-S orthologs: ENSDARG00000005001 ENSMUSG00000050069
PHOG-O orthologs: ENSDARG00000005001 ENSMUSG00000050069
SCIPHY orthologs: ENSDARG00000029546 ENSDARG00000005001 ENSMUSG00000050069 ENSMUSG00000074934
OrthoMCL orthologs: ENSDARG00000005001 ENSMUSG00000050069
InParanoid orthologs: ENSDARG00000005001 ENSDARG00000007723 ENSMUSG00000050069 ENSMUSG00000023
267 ENSMUSG00000027843 CG11539
77) ENSG00000125207
TreeFam-A orthologs: ENSDARG00000041699 ENSMUSG00000029423 CG6122
PHOG-T(0.296875) orthologs: ENSDARG00000041699 ENSMUSG00000029423
PHOG-S orthologs: ENSDARG00000041699 ENSMUSG00000029423
PHOG-O orthologs: ENSDARG00000041699 ENSMUSG00000041530 ENSMUSG00000033644 ENSMUSG00000029423
ENSMUSG00000036912 CG7439 CG6122
SCIPHY orthologs: ENSDARG00000041699 ENSDARG00000062601 ENSMUSG00000029423 ENSMUSG00000033644
ENSMUSG00000036912 CG40300 CG6122 CG6137
OrthoMCL orthologs: ENSDARG00000041699 ENSDARG00000062601 ENSMUSG00000033644 ENSMUSG0000002942
3 ENSMUSG00000036912 CG40300 CG6122 CG6137
InParanoid orthologs: ENSDARG00000038870 ENSDARG00000017522 ENSDARG00000017049 ENSDARG00000041
699 ENSMUSG00000042404 ENSMUSG00000029423 ENSMUSG00000036270 ENSMUSG00000022201 CG9262 CG6122
CG33139 CG6137 CG2031
78) ENSG00000146670
TreeFam-A orthologs: ENSDARG00000044437 ENSMUSG00000024791
PHOG-T(0.296875) orthologs: ENSDARG00000044437 ENSMUSG00000024791
PHOG-S orthologs: ENSDARG00000044437 ENSMUSG00000024791
PHOG-O orthologs: ENSDARG00000044437 ENSMUSG00000024791
SCIPHY orthologs: ENSMUSG00000024791
OrthoMCL orthologs: ENSDARG00000044437 ENSMUSG00000024791
InParanoid orthologs: ENSMUSG00000024791
79) ENSG00000164109
TreeFam-A orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
PHOG-T(0.296875) orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
PHOG-S orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
PHOG-O orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
SCIPHY orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
OrthoMCL orthologs: ENSDARG00000004713 ENSMUSG00000029910 CG17498
InParanoid orthologs: ENSDARG00000062305 ENSDARG00000055493 ENSMUSG00000000976 ENSMUSG00000041
075 ENSMUSG00000024830 ENSMUSG00000029910 ENSMUSG00000031278 CG9241 CG8048 CG17498
80) ENSG00000070785
TreeFam-A orthologs: ENSDARG00000018106 CG8190
PHOG-T(0.296875) orthologs: ENSDARG00000018106 ENSMUSG00000028683 CG8190
PHOG-S orthologs: ENSDARG00000018106 CG8190
PHOG-O orthologs: ENSDARG00000018106 ENSMUSG00000028683 CG8190
SCIPHY orthologs: ENSDARG00000018106 ENSMUSG00000028683
OrthoMCL orthologs: ENSDARG00000018106 ENSMUSG00000028683 CG8190
InParanoid orthologs: ENSDARG00000036116 ENSDARG00000055787 ENSDARG00000045542 ENSDARG00000023

712 ENSDARG00000018106 ENSMUSG00000041794 ENSMUSG00000021048 ENSMUSG00000028683 ENSMUSG0000007
3542 ENSMUSG00000026779 CG5938 CG3793 CG4573 CG8190
81) ENSG00000169021
TreeFam-A orthologs: ENSDARG00000007745 ENSMUSG00000038462 CG7361
PHOG-T(0.296875) orthologs: ENSDARG00000007745 ENSMUSG00000038462 CG7361
PHOG-S orthologs: ENSMUSG00000038462 CG7361
PHOG-O orthologs: ENSDARG00000007745 ENSMUSG00000038462 CG7361
SCIPHY orthologs: ENSDARG00000007745 ENSMUSG00000038462 CG7361
OrthoMCL orthologs: ENSDARG00000007745 ENSMUSG00000038462 CG7361
InParanoid orthologs: ENSDARG00000006145 ENSDARG00000007943 ENSDARG00000054344 ENSDARG00000061
231 ENSDARG00000007745 ENSMUSG00000054065 ENSMUSG00000038462 ENSMUSG00000039844 ENSMUSG0000001
3584 ENSMUSG00000039298 CG7361 CG6665 CG10706 CG15438
82) ENSG00000105141
TreeFam-A orthologs: ENSMUSG00000005355 CG7486 CG8091
PHOG-T(0.296875) orthologs: ENSMUSG00000005355
PHOG-S orthologs: ENSMUSG00000005355
PHOG-O orthologs: ENSDARG00000055966 ENSDARG00000058325 ENSMUSG00000026031 ENSMUSG00000005355
ENSMUSG00000026029 ENSMUSG00000028914 CG5370 CG14902 CG7788
SCIPHY orthologs: ENSMUSG00000005355
OrthoMCL orthologs: ENSMUSG00000005355
InParanoid orthologs: ENSMUSG00000005355
83) ENSG00000196510
TreeFam-A orthologs: ENSDARG00000063005 ENSMUSG00000029466 CG14444
PHOG-T(0.296875) orthologs: ENSMUSG00000029466 CG14444
PHOG-S orthologs: ENSMUSG00000029466 CG14444
PHOG-O orthologs: ENSMUSG00000029466 CG14444
SCIPHY orthologs: ENSMUSG00000029466
OrthoMCL orthologs: ENSDARG00000063005 ENSMUSG00000029466 CG14444
InParanoid orthologs: ENSDARG00000004130 ENSDARG00000021607 ENSMUSG00000029466 ENSMUSG00000048
720 CG14444 CG3461
84) ENSG00000124383
TreeFam-A orthologs: ENSDARG00000012495 ENSMUSG00000030521 CG13097
PHOG-T(0.296875) orthologs: ENSMUSG00000030521 CG13097
PHOG-S orthologs: ENSMUSG00000030521 CG13097
PHOG-O orthologs: ENSMUSG00000030521 CG13097
SCIPHY orthologs: ENSMUSG00000030521 CG13097
OrthoMCL orthologs: ENSDARG00000012495 ENSMUSG00000030521 CG13097
InParanoid orthologs: ENSDARG00000059129 ENSDARG00000029307 ENSDARG00000053019 ENSDARG00000019
345 ENSMUSG00000024817 ENSMUSG00000030521 ENSMUSG00000047735 ENSMUSG00000030789 CG12162 CG1309
7 CG12153 CG2328
85) ENSG00000100307
TreeFam-A orthologs: ENSDARG00000038025 ENSMUSG00000053411 CG32443
PHOG-T(0.296875) orthologs: ENSDARG00000038025 ENSMUSG00000053411
PHOG-S orthologs: ENSMUSG00000053411
PHOG-O orthologs: ENSDARG00000070807 ENSDARG00000044938 ENSDARG00000070802 ENSMUSG00000053411
ENSMUSG00000039989 ENSMUSG00000025577 CG8289 CG8120 CG32443
SCIPHY orthologs: ENSDARG00000070329 ENSDARG00000071051 ENSDARG00000044938 ENSDARG00000038025
ENSDARG00000070804 ENSDARG00000070807 ENSDARG00000070802 ENSDARG00000026781 ENSMUSG00000053411
ENSMUSG00000039989 ENSMUSG00000025578 ENSMUSG00000025577 ENSMUSG00000022421 CG32443
OrthoMCL orthologs: ENSDARG00000038025 ENSMUSG00000053411
InParanoid orthologs: ENSDARG00000038025 ENSDARG00000056862 ENSDARG00000004794 ENSMUSG00000053
411 ENSMUSG00000030802 ENSMUSG00000024862 ENSMUSG00000032583 ENSMUSG00000075264 CG4427 CG32443

86) ENSG00000063660
TreeFam-A orthologs: ENSDARG00000012153 ENSDARG00000019341 CG32146
PHOG-T(0.296875) orthologs: ENSDARG00000012153 ENSDARG00000019341 ENSMUSG00000034220
PHOG-S orthologs: ENSDARG00000012153 ENSDARG00000019341 ENSMUSG00000034220
PHOG-O orthologs: ENSDARG00000012153 ENSDARG00000019341 ENSMUSG00000022112 ENSMUSG00000034220
ENSMUSG00000055653
SCIPHY orthologs: ENSDARG00000012153 ENSDARG00000019341 ENSMUSG00000034220
OrthoMCL orthologs: ENSDARG00000019341 ENSMUSG00000034220
InParanoid orthologs: ENSDARG00000012153 ENSDARG00000013704 ENSDARG00000019341 ENSDARG00000015
156 ENSDARG00000026561 ENSMUSG00000001151 ENSMUSG00000040729 ENSMUSG00000034220 ENSMUSG0000002

4507 ENSMUSG00000020739 CG8900 CG32146 CG7048 CG4593
87) ENSG00000167797
TreeFam-A orthologs: ENSMUSG00000024856 CG18292 CG30377 CG15142 CG12650
PHOG-T(0.296875) orthologs: ENSDARG00000069700 ENSMUSG00000024856
PHOG-S orthologs: ENSDARG00000069700 ENSMUSG00000024856
PHOG-O orthologs: ENSDARG00000069700 ENSMUSG00000024856 CG18292
SCIPHY orthologs: ENSDARG00000069700 ENSMUSG00000024856 ENSMUSG00000078154 ENSMUSG00000029394
OrthoMCL orthologs: ENSMUSG00000024856 ENSMUSG00000029394 CG18292
InParanoid orthologs: ENSDARG00000033489 ENSDARG00000069700 ENSDARG00000009862 ENSMUSG00000026
103 ENSMUSG00000024856 ENSMUSG00000050108 ENSMUSG00000020436 CG18292 CG1044
88) ENSG00000099341
TreeFam-A orthologs: ENSDARG00000020454 ENSMUSG00000030591 CG4157
PHOG-T(0.296875) orthologs: ENSDARG00000020454 ENSMUSG00000030591
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000020454 ENSMUSG00000030591
SCIPHY orthologs: ENSDARG00000020454 ENSMUSG00000030591 CG11552 CG4157
OrthoMCL orthologs: ENSDARG00000020454 ENSMUSG00000030591 CG11552 CG4157
InParanoid orthologs: ENSDARG00000037260 ENSDARG00000017842 ENSDARG00000052121 ENSDARG00000020
454 ENSMUSG00000024501 ENSMUSG00000032468 ENSMUSG00000030591 ENSMUSG00000001507 ENSMUSG0000000
5267 CG9531 CG5202 CG14941 CG1587 CG4157
89) ENSG00000113575
TreeFam-A orthologs: ENSMUSG00000020349 CG7109
PHOG-T(0.296875) orthologs: ENSDARG00000053020 ENSDARG00000030224 ENSDARG00000053404 ENSMUSG00
000020349 ENSMUSG00000009630 CG7109
PHOG-S orthologs: ENSMUSG00000020349
PHOG-O orthologs: ENSDARG00000002949 ENSDARG00000053020 ENSDARG00000053404 ENSMUSG00000026753
ENSMUSG00000009630 ENSMUSG00000020349 CG12217 CG7109 CG11597
SCIPHY orthologs: ENSDARG00000053020 ENSDARG00000070570 ENSDARG00000030224 ENSDARG00000053404
ENSMUSG00000026753 ENSMUSG00000009630 ENSMUSG00000020349 ENSMUSG00000030697 CG12217 CG7109 CG1
1597 CG32505
OrthoMCL orthologs: ENSDARG00000007098 ENSDARG00000000638 ENSDARG00000006487 ENSDARG0000003158
6 ENSDARG00000053344 ENSDARG00000056515 ENSDARG00000034117 ENSDARG00000030349 ENSDARG000000530
20 ENSDARG00000016855 ENSMUSG00000020349 ENSMUSG00000009630 CG7109
InParanoid orthologs: ENSDARG00000041129 ENSDARG00000031795 ENSDARG00000016153 ENSMUSG00000044
433 ENSMUSG00000039419 ENSMUSG00000028399 ENSMUSG00000020349 ENSMUSG00000078356 CG7109 CG2069
CG8977
90) ENSG00000134153
TreeFam-A orthologs: ENSDARG00000012144 ENSMUSG00000055943 CG8397
PHOG-T(0.296875) orthologs: ENSDARG00000012144 ENSMUSG00000055943
PHOG-S orthologs: ENSDARG00000012144 ENSMUSG00000055943
PHOG-O orthologs: ENSDARG00000012144 ENSMUSG00000055943
SCIPHY orthologs: ENSDARG00000012144 ENSMUSG00000055943
OrthoMCL orthologs: ENSDARG00000012144 ENSMUSG00000055943 CG8397
InParanoid orthologs: ENSDARG00000057011 ENSDARG00000012144 ENSDARG00000042344 ENSMUSG00000026
692 ENSMUSG00000028226 ENSMUSG00000066148 ENSMUSG00000055943 CG8397 CG8578
91) ENSG00000103035
TreeFam-A orthologs: ENSMUSG00000039067 CG3416
PHOG-T(0.296875) orthologs: ENSDARG00000068076 ENSMUSG00000039067 CG3416
PHOG-S orthologs: ENSMUSG00000039067
PHOG-O orthologs: ENSDARG00000068076 ENSMUSG00000039067 CG3416
SCIPHY orthologs: ENSDARG00000068076 ENSMUSG00000039067 CG3416
OrthoMCL orthologs: ENSMUSG00000039067 CG3416
InParanoid orthologs: ENSDARG00000053468 ENSDARG00000015860 ENSDARG00000067639 ENSDARG00000015
502 ENSDARG00000068076 ENSMUSG00000031537 ENSMUSG00000024392 ENSMUSG00000025555 ENSMUSG0000002
3088 ENSMUSG00000078245 ENSMUSG00000039067 CG8174 CG3416 CG6734 CG5772
92) ENSG00000151247
TreeFam-A orthologs: ENSDARG00000013274 ENSMUSG00000028156 CG8277 CG1442 CG4035 CG8023 CG10124

PHOG-T(0.296875) orthologs: ENSDARG00000013274 ENSMUSG00000028156
PHOG-S orthologs: ENSMUSG00000028156
PHOG-O orthologs: ENSDARG00000014565 ENSDARG00000013274 ENSMUSG00000028156 CG8277 CG1442 CG403
5 CG8023 CG32859 CG10124
SCIPHY orthologs: ENSDARG00000014565 ENSDARG00000013274 ENSMUSG00000028156

OrthoMCL orthologs: ENSDARG00000013274 ENSMUSG00000028156 CG8277 CG1442 CG4035 CG8023 CG32859 CG10124
InParanoid orthologs: ENSDARG00000033953 ENSDARG00000035506 ENSDARG00000019231 ENSDARG00000003311 ENSMUSG00000028156 ENSMUSG00000052488 ENSMUSG00000027487 ENSMUSG00000039117 ENSMUSG00000024078 CG8277 CG16944 CG7423 CG4035 CG8023 CG32859 CG14542 CG31715 CG10124
93) ENSG00000103245
TreeFam-A orthologs: ENSDARG00000062216 ENSMUSG00000002280 CG17683
PHOG-T(0.296875) orthologs: ENSDARG00000062216 CG17683
PHOG-S orthologs: CG17683
PHOG-O orthologs: ENSDARG00000062216 CG17683
SCIPHY orthologs: ENSDARG00000024184 ENSDARG00000062216 ENSMUSG00000000056 CG17683
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000041754 ENSDARG00000062216 ENSDARG00000055151 ENSDARG00000026170 ENSDARG00000059357 ENSMUSG00000053626 ENSMUSG00000035877 ENSMUSG00000061313 ENSMUSG00000023079 CG17683 CG6359 CG32169 CG3280
94) ENSG00000138495
TreeFam-A orthologs: ENSDARG00000067747 ENSDARG00000069920 ENSMUSG00000046516 CG9065
PHOG-T(0.296875) orthologs: ENSDARG00000067747 ENSDARG00000069920 ENSMUSG00000046516 CG9065
PHOG-S orthologs: ENSDARG00000067747 ENSDARG00000069920 ENSMUSG00000046516
PHOG-O orthologs: ENSDARG00000067747 ENSDARG00000069920 ENSMUSG00000046516 CG9065
SCIPHY orthologs: ENSDARG00000067747 ENSDARG00000069920 ENSMUSG00000046516 CG9065
OrthoMCL orthologs: ENSDARG00000045898 ENSDARG00000070065 ENSDARG00000061083 ENSDARG00000027161 ENSDARG00000043746 ENSDARG00000008937 ENSDARG00000044332 ENSDARG00000053800 ENSDARG00000040911 ENSDARG00000057548 ENSDARG00000067819 ENSDARG00000013174 ENSDARG00000019591 ENSDARG00000038006 ENSDARG00000028979 ENSDARG00000057969 ENSDARG00000069920 ENSDARG00000067747 ENSDARG00000004658 ENSDARG00000059059 ENSDARG00000055271 ENSDARG00000036149 ENSDARG00000051760 ENSMUSG00000046516 CG9065
InParanoid orthologs: ENSDARG00000068401 ENSDARG00000068115 ENSDARG00000069920 ENSDARG00000067747 ENSDARG00000017272 ENSMUSG00000029510 ENSMUSG00000022545 ENSMUSG00000015747 ENSMUSG00000046516 ENSMUSG00000026343 CG10465 CG32754 CG32750 CG32751 CG3599 CG9065
95) ENSG00000165271
TreeFam-A orthologs: ENSDARG00000059711 ENSMUSG00000028430 CG12785
PHOG-T(0.296875) orthologs: ENSMUSG00000028430
PHOG-S orthologs: ENSMUSG00000028430
PHOG-O orthologs: ENSMUSG00000028430
SCIPHY orthologs: ENSMUSG00000028430
OrthoMCL orthologs: ENSDARG00000059711 ENSMUSG00000028430 CG12785
InParanoid orthologs: ENSDARG00000011312 ENSDARG00000010727 ENSDARG00000018162 ENSMUSG00000028430 ENSMUSG00000060716 ENSMUSG00000027931 ENSMUSG00000031673 CG3848 CG9398 CG12785 CG3093
96) ENSG00000183093
TreeFam-A orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
PHOG-T(0.296875) orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
PHOG-S orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
PHOG-O orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
SCIPHY orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
OrthoMCL orthologs: ENSDARG00000038768 ENSMUSG00000039640 CG5012
InParanoid orthologs: ENSDARG00000059672 ENSDARG00000070278 ENSDARG00000038768 ENSDARG00000063076 ENSMUSG00000039640 ENSMUSG00000032015 ENSMUSG00000045252 ENSMUSG00000056952 ENSMUSG00000031511 CG4813 CG10988 CG5012
97) ENSG00000047315
TreeFam-A orthologs: ENSDARG00000012592 ENSMUSG00000029250 CG3180
PHOG-T(0.296875) orthologs: ENSDARG00000012592 ENSMUSG00000029250 CG3180
PHOG-S orthologs: ENSDARG00000012592 ENSMUSG00000029250 CG3180
PHOG-O orthologs: ENSDARG00000012592 ENSMUSG00000029250 CG3180
SCIPHY orthologs: ENSDARG00000012592 ENSMUSG00000029250 CG3180
OrthoMCL orthologs: ENSDARG00000012592 ENSDARG00000062915 ENSMUSG00000029250 ENSMUSG00000034453 CG8344 CG3180
InParanoid orthologs: ENSDARG00000012592 ENSDARG00000037905 ENSDARG00000034264 ENSDARG00000017354 ENSDARG00000005479 ENSMUSG00000069833 ENSMUSG00000029250 ENSMUSG00000023473 ENSMUSG00000025194 ENSMUSG00000025261 CG33087 CG3861 CG3180 CG5931 CG17998
98) ENSG00000104472
TreeFam-A orthologs: ENSDARG00000042337 ENSMUSG00000068391
PHOG-T(0.296875) orthologs: ENSDARG00000042337 ENSMUSG00000068391 CG15736

PHOG-S orthologs: ENSDARG00000042337 ENSMUSG00000068391 CG15736
PHOG-O orthologs: ENSDARG00000042337 ENSDARG00000013016 ENSMUSG00000068391 ENSMUSG00000030042 CG15736
SCIPHY orthologs: ENSDARG00000042337 ENSMUSG00000068391 CG15736
OrthoMCL orthologs: ENSDARG00000042337 ENSMUSG00000068391 CG15736
InParanoid orthologs: ENSDARG00000037350 ENSDARG00000042337 ENSMUSG00000033544 ENSMUSG00000068391 CG15736
99) ENSG00000153879
TreeFam-A orthologs: ENSDARG00000036073 ENSMUSG00000056216 CG4354 CG6272
PHOG-T(0.296875) orthologs: ENSDARG00000036073 ENSMUSG00000056216
PHOG-S orthologs: ENSDARG00000036073 ENSMUSG00000056216
PHOG-O orthologs: ENSDARG00000036073 ENSMUSG00000056216
SCIPHY orthologs: ENSDARG00000042725 ENSDARG00000036073 ENSDARG00000071464 ENSDARG00000036074 ENSDARG00000045240 ENSMUSG00000034957 ENSMUSG00000052435 ENSMUSG00000056216 ENSMUSG00000056501 CG4354
OrthoMCL orthologs: ENSDARG00000036073 ENSMUSG00000056216 CG6272
InParanoid orthologs: ENSDARG00000036073 ENSDARG00000041736 ENSDARG00000031102 ENSMUSG00000056216 ENSMUSG00000031828 ENSMUSG00000000384 ENSMUSG00000032323 CG6272 CG17785
100) ENSG00000012061
TreeFam-A orthologs: ENSDARG00000031680 ENSMUSG00000003549 CG10215
PHOG-T(0.296875) orthologs: ENSDARG00000031680 ENSMUSG00000003549 CG10215
PHOG-S orthologs:
PHOG-O orthologs: ENSDARG00000031680 ENSMUSG00000003549 CG10215
SCIPHY orthologs: ENSDARG00000031680 ENSMUSG00000003549 CG10215
OrthoMCL orthologs:
InParanoid orthologs: ENSDARG00000036158 ENSDARG00000038018 ENSDARG00000014840 ENSDARG00000031680 ENSMUSG00000025209 ENSMUSG00000028382 ENSMUSG00000047228 ENSMUSG00000003549 ENSMUSG00000041073 ENSMUSG00000041046 CG10215 CG6461 CG6764
# of TreeFam-A Orthologs in fruitfly: 117
# of TreeFam-A Orthologs in zebrafish: 98
# of TreeFam-A Orthologs in mouse: 98
Total # of TreeFam-A Orthologs: 313
Method: phogs
    Species: fruitfly TP: 44 FP1: 1 FP2: 0 FN: 73 Precision1: 0.98 Precision2: 1.00 Sensitivity: 0.38
    Species: zebrafish TP: 61 FP1: 5 FP2: 2 FN: 37 Precision1: 0.92 Precision2: 0.97 Sensitivity: 0.62
    Species: mouse TP: 80 FP1: 5 FP2: 1 FN: 18 Precision1: 0.94 Precision2: 0.99 Sensitivity: 0.82
  Total: # Predictions: 196 TP: 185 FP1: 11 FP2: 3 FN: 128 Precision1: 0.94 Precision2: 0.98 Sensitivity: 0.59
Method: sciphy
    Species: fruitfly TP: 63 FP1: 14 FP2: 13 FN: 54 Precision1: 0.82 Precision2: 0.83 Sensitivity: 0.54
    Species: zebrafish TP: 89 FP1: 45 FP2: 33 FN: 9 Precision1: 0.66 Precision2: 0.73 Sensitivity: 0.91
    Species: mouse TP: 94 FP1: 41 FP2: 34 FN: 4 Precision1: 0.70 Precision2: 0.73 Sensitivity: 0.96
  Total: # Predictions: 346 TP: 246 FP1: 100 FP2: 80 FN: 67 Precision1: 0.71 Precision2: 0.75 Sensitivity: 0.79
Method: phogo
    Species: fruitfly TP: 82 FP1: 32 FP2: 30 FN: 35 Precision1: 0.72 Precision2: 0.73 Sensitivity: 0.70
    Species: zebrafish TP: 82 FP1: 40 FP2: 29 FN: 16 Precision1: 0.67 Precision2: 0.74 Sensitivity: 0.84
    Species: mouse TP: 90 FP1: 65 FP2: 57 FN: 8 Precision1: 0.58 Precision2: 0.61 Sensitivity: 0.92
  Total: # Predictions: 391 TP: 254 FP1: 137 FP2: 116 FN: 59 Precision1: 0.65 Precision2: 0.69 Sensitivity: 0.81
Method: phogt at 0.296875
    Species: fruitfly TP: 56 FP1: 1 FP2: 0 FN: 61 Precision1: 0.98 Precision2: 1.00 Sensitivity: 0.48
    Species: zebrafish TP: 82 FP1: 19 FP2: 8 FN: 16 Precision1: 0.81 Precision2: 0.91 Sensitiv

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ity: 0.84
    Species: mouse TP: 94 FP1: 18 FP2: 11 FN: 4 Precision1: 0.84 Precision2: 0.90 Sensitivity:
 0.96
  Total:  # Predictions: 270 TP: 232 FP1: 38 FP2: 19 FN: 81 Precision1: 0.86 Precision2: 0.92
Sensitivity: 0.74
Method: orthomcl
    Species: fruitfly TP: 80 FP1: 16 FP2: 15 FN: 37 Precision1: 0.83 Precision2: 0.84 Sensitiv
ity: 0.68
    Species: zebrafish TP: 76 FP1: 82 FP2: 70 FN: 22 Precision1: 0.48 Precision2: 0.52 Sensiti
vity: 0.78
    Species: mouse TP: 81 FP1: 24 FP2: 17 FN: 17 Precision1: 0.77 Precision2: 0.83 Sensitivity
: 0.83
  Total:  # Predictions: 359 TP: 237 FP1: 122 FP2: 102 FN: 76 Precision1: 0.66 Precision2: 0.7
0 Sensitivity: 0.76
Method: inparanoid
    Species: fruitfly TP: 100 FP1: 240 FP2: 237 FN: 17 Precision1: 0.29 Precision2: 0.30 Sensi
tivity: 0.85
    Species: zebrafish TP: 79 FP1: 284 FP2: 244 FN: 19 Precision1: 0.22 Precision2: 0.24 Sensi
tivity: 0.81
    Species: mouse TP: 94 FP1: 346 FP2: 317 FN: 4 Precision1: 0.21 Precision2: 0.23 Sensitivit
y: 0.96
  Total:  # Predictions: 1143 TP: 273 FP1: 870 FP2: 798 FN: 40 Precision1: 0.24 Precision2: 0.
25 Sensitivity: 0.87
# Inparanoid & PHOG-S & OrthoMCL: 204
# Inparanoid & PHOG-S & Not OrthoMCL: 48
# Inparanoid & Not PHOG-S & OrthoMCL: 29
# Inparanoid & Not PHOG-S & Not OrthoMCL: 862
# Not Inparanoid & PHOG-S & OrthoMCL: 28
# Not Inparanoid & PHOG-S & Not OrthoMCL: 111
# Not Inparanoid & Not PHOG-S & OrthoMCL: 98
Used a total of 455 trees
```