```
•Hsap_ENST00000370508 | OG3 |
                       -Hsap ENST00000307599 | OG0 |
 94
       98
                                •Bralan BLAG03000986 1 | OG0 |
            Spur_XM_030986282.1 | OG1 |
                -Lcom | lcpid167082 | OG1 |
              <sup>1001</sup>-Lcom_lcpid171974 | OG1 |
   53
                •Tcas_TC014364_002 | OG1 |
                •Dpul_mRNA28584 | OG1 |
                       Cscu_XM_023387859.1 | OG1 |
       99
                     <sup>100</sup>L-Cscu_XM_023357065.1 | OG1 |
                  Cscu XM 023382832.1 | OG1 |
                         •Cscu_XM_023354287.1 | OG1 |
           •Bralan_BLAG03001194_1 | OG2 |
            •Skow_XM_002732018.2 | OG2 |
                 Lcom | lcpid146678 | OG2 |
              <sup>1001</sup>--Lcom_lcpid230246 | OG2 |
                 •Acagra_model.g683.t1 | OG2 |
       85
                   •Cgig_XM_011431792.3 | OG2 |
                    •Lcom_lcpid169220 | OG2 |
                   *Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA31454 | OG2 |
                Tool Ctel gnl WGS_AMQN_CAPTEDRAFT_mRNA21487 | OG2 |
                      •Plajan_Pjan_scaffold11002_01 | OG2 |
   54
                     Opea_EP00118_Oscarella_pearsei_P026075 | OG2 |
             100
                   100 Ocar_g5092 | OG2 |
                        •Stycar_maker-SC_scaffold986-snap-gene-0.29-mRNA-1 | OG2 |
                     Emue Em0013g825a.t1 | OG2 |
                      -Spolac_c102899_g1_i1_m.31537c102899-g1 | OG2 |
           100
                     Stycar_maker-SC_scaffold986-snap-gene-0.30-mRNA-1 | OG2 |
                       ·Xestes_maker-XT_scaffold2697-augustus-gene-0.13-mRNA-1 | OG2 |
                         •Halamb_c39858_g1_i1m.12141 | OG2 |
                100
     70
                          •Ague Agu2.1.12654 001 | OG2 |
                             -Aque_Aqu2.1.12653_001 | OG2 |
                       100
                                      -Aque_Aqu2.1.31062_001 | OG2 |
                          100
                                       •Aque_Aqu2.1.31054_001 | OG2 |
                        •Lcom lcpid84950 | OG2 |
                         •Scil scict025615.1 | OG2 |
                 100
                             •Gracom_Gcom_C542720_01 | OG2 |
                              •Leuniv_Lniv_scaffold393_01 | OG2 |
             89
                        TrH2 TrispH2 003573-RA | OG2 |
                     <sup>100</sup> Tadh TriadT51058 | OG2 |
                          -HoiH23 PIH23 004199-RA | OG2 |
                 100
                           •HoiH06_mRNA6177 | OG2 |
                          Hhon_g09185.t1 | OG2 |
                       84
                         •Exapal_XM_028658911.1 | OG2 |
                         •Nvec v1g246662 | OG2 |
           25
                         •Gfas_gfas1.m1.14477.m1 | OG2 |
                           •Gfas_gfas1.m1.14481.m1 | OG2 |
                100
                     99
                            Amil_Amillepora01044-RA | OG2 |
                          <sup>100</sup> Adig _XM_015907529.1 | OG2 |
                   100
                            •Spis XP 022786012 1 | OG2 |
                        <sup>100</sup><sup>1</sup>•Pocdam_XM_027185761.1 | OG2 |
                           •Gasp_gasp1.m3.27995.m1 | OG2 |
             56
                              Fspp_ffun1.m4.8287.m1 | OG2 |
                              -Gasp_gasp1.m3.27994.m1 | OG2 |
                           •Xesp 013902-T1 | OG2 |
                           Dgig XM 028535453.1 | OG2 |
                     100
                              •Dgig_XM_028535216.1 | OG2 |
                        100
                           <sup>100</sup>l<sub>•</sub>Dgig_XM_028535454.1 | OG2 |
               60
                              •Hvul g13934 1 | OG2 |
                    100
                              Chem TCONS 00030748 | OG2 |
                             •Morvir_scaffold5.g129.t1 | OG2 |
                 99
                              •Aaur_scaffold134.g12.t1 | OG2 |
                    95
                         981
                              •Sanmal_Sma_028507-T1 | OG2 |
                                 Aaur scaffold134.g13.t1 | OG2 |
                      100
                                 Nemnom g5966.t1 | OG2 |
                         96
                              <sup>100</sup>Nemnom g13431.t1 | OG2 |
                           100
                                    •Rhoesc_Res_003227-T1 | OG2 |
                              <sup>100</sup>-Rhoesc Res 003228-T1 | OG2 |
                              Acagra model.g684.t1.1.5d3b8267 | OG2 |
                             Saldol EP00054 Salpingoeca dolichothecata P015816 | OG2 |
                                 Salmac EP00052 Salpingoeca macrocollata P001776 | OG2 |
                    100
                       100
                                 Salpun EP00053 Salpingoeca punica P020529 | OG2 |
                 99
                             Didcos EP00039 Didymoeca costata P015112 | OG2 |
                                 Diagra EP00040 Diaphanoeca grandis P005063 | OG2 |
                    100
                                  -Acaspe EP00035 Acanthoeca spectabilis P021317 | OG2 |
                       100
                             100
                                   •Helnan EP00037 Helgoeca nana P005403 | OG2 |
                                      Stedip_EP00041_Stephanoeca_diplocostata_P023329 | OG2 |
                          88
                                     Stedip EP00041 Stephanoeca diplocostata P023332 | OG2 |
           56
               96
                                100
                                         -Stedip_EP00041_Stephanoeca_diplocostata_P023333 | OG2 |
                                   99
                                          -Stedip EP00041 Stephanoeca diplocostata P023330 | OG2 |
                                  •Salurc_EP00051_Salpingoeca_urceolata_P000139 | OG2 |
                                        •Codhol_EP00042_Codosiga_hollandica_P003445 | OG2 |
                                      Salkve_EP00050_Salpingoeca_kvevrii_P021143 | OG2 |
                       93
                 95
                                Salkve EP00050 Salpingoeca kvevrii P021144 | OG2 |
                                        Salinf EP00049 Salpingoeca infusionum P000585 | OG2 |
                    96
                          100
                                      -Salinf_EP00049_Salpingoeca_infusionum_P010501 | OG2 |
             95
                                    •Microa_EP00043_Microstomoeca_roanoka_P007316 | OG2 |
                      99
                             100
                                        •Sros_EGD77935 | OG2 |
                                     Mbre EDQ89565 | OG2 |
                        98
                                     Chofle EP00730 Choanoeca flexa P020367 | OG2 |
                             100
                                      •Choper_EP00045_Choanoeca_perplexa_P007029 | OG2 |
                             •Codhol_EP00042_Codosiga_hollandica_P027509 | OG2 |
                                •Vmul_SimC398762 | OG2 |
                                  •Coemet_Cmet_scaffold11131_01 | OG2 |
                          100
                                     Coeast Cast sb823309 | OG2 |
                97
                             99
                                  <sup>1001</sup>Coeast Cast_sb823310 | OG2 |
                                    Coeast_Cast_sb823308 | OG2 |
                                      Coeast_Cast_sb823306 | OG2 |
                        100
                                    75 Coeast Cast sb823307 | OG2 |
                               •Lampan Lpan C412921 01 | OG2 |
                                  -Mertsp_Mesp_sb544322 | OG2 |
                                     Eupdun_Edun_sb10667087 | OG2 |
                               70
                          92
                                       Eupdun_Edun_sb10667084 | OG2 |
                                     <sup>1</sup>Eupdun Edun sb10667085 | OG2 |
                             78
                                     •Mertsp_Mesp_sb544321 | OG2 |
                                      Drygla Dgla sb293553 | OG2 |
                               75
                                         •Beraby_Baby_sb325190 | OG2 |
                                           Horcal Hcv1.av93.c11.g161.i1 | OG2 |
                                 88
                                        <sup>100</sup> Pbac_sb2651093 | OG2 |
                                   79
                                           •Mlei ML0001.g24.i1 | OG2 |
                                          Mertsp_Mesp_sb552877 | OG2 |
                                            Bolinf_Binf_sb1246311 | OG2 |
                                          <sup>79</sup> Bolinf Binf sb1246312 | OG2 |
0.416667
```