```
Lcom Icpid126758 | OG0 |
                                      -Salkve_EP00050_Salpingoeca_kvevrii_P006959 | OG0 |
                             ·Salurc_EP00051_Salpingoeca_urceolata_P010587 | OG0 |
                              •Mylflu_EP00047_Mylnosiga_fluctuans_P019131 | OG0 |
                           Salmac_EP00052_Salpingoeca_macrocollata_P005392 | OG0 |
              91
                          Salpun_EP00053_Salpingoeca_punica_P014241 | OG0 |
                                         •Didcos_EP00039_Didymoeca_costata_P005757 | OG0 |
                                  Saldol_EP00054_Salpingoeca_dolichothecata_P011192 | OG0 |
                 84
    99
                           1001Saldol_EP00054_Salpingoeca_dolichothecata_P011193 | OG0 |
                               Diagra EP00040 Diaphanoeca grandis P012786 | OG5 |
                                         •Chofle EP00730 Choanoeca flexa P003917 | OG2 |
                             100
                                       •Choper_EP00045_Choanoeca_perplexa_P009718 | OG2 |
                                       Salinf_EP00049_Salpingoeca_infusionum_P023426 | OG2 |
            89
       45
                                   Microa_EP00043_Microstomoeca_roanoka_P011121 | OG2 |
                 99
                            100
                                        Sros EGD83054 | OG2 |
                                       Diagra EP00040 Diaphanoeca grandis P012787 | OG2 |
         39
                                       •Stedip_EP00041_Stephanoeca_diplocostata_P011345 | OG2 |
                     100
                                             •Acaspe_EP00035_Acanthoeca_spectabilis_P025258 | OG2 |
                        100
                                             •Helnan_EP00037_Helgoeca_nana_P018286 | OG2 |
           29
                                                                      Lcom lcpid65800 | OG2 |
                                       Codhol EP00042 Codosiga hollandica P054552 | OG2 |
                                                        •Plajan_Pjan_scaffold23168_01 | OG2 |
               75
                                                               •Plespi_Pspi_scaffold20776_01 | OG2 |
                     90
                                                              •Spolac_c87273_g1_i2_m.4159c87273-g1 | OG2 |
                              99
                                                                •Emue Em0020g773a.t1 | OG2 |
                                                             <sup>100</sup>•Emue_Em0020g776a.t1 | OG2 |
                        •Plespi_Pspi_C599716_01 | OG1 |
                    Tetwil_g12820.t2 | OG1 |
                 100 -Tetwil g13350.t2 | OG1 |
        75
                   <sub>r</sub>Stycar_maker-SC_scaffold6290-snap-gene-0.51-mRNA-1 | OG1 |
                      •Stycar snap masked-SC scaffold51024-processed-gene-0.1-mRNA-1 | OG1 |
                            Xestes maker-XT scaffold4356-augustus-gene-0.40-mRNA-1 | OG1 |
          27
                            •Aque_Aqu2.1.26024_001 | OG1 |
                     100
                              <sub>e</sub>Halamb_c51431_g1_i1m.30581 | OG1 |
                           <sup>100</sup> Halamb c50529_g1_i1m.28541 | OG1 |
            21
                       •Emue Em0015g1010a.t1 | OG1 |
                        -Spolac_c102628_g2_i1_m.30255c102628-g2 | OG1 |
                  100
                          <sub>|</sub>Spolac_c102628_g2_i2_m.30256c102628-g2 | OG1 |
                        93 Spolac_c102628_g2_i3_m.30257c102628-g2 | OG1 |
                           •Clacor_Ccor_scaffold15457_01 | OG3 |
                            •Lcom lcpid37733 | OG3 |
    99
           100
                            •Leuniv_Lniv_scaffold24270_01 | OG3 |
                100
                              •Gracom_Gcom_scaffold7458_01 | OG3 |
         79
                                      •Scil_scict002159.2 | OG3 |
                         •Plajan_Pjan_scaffold22203_01 | OG3 |
                                 Opea_EP00118_Oscarella_pearsei_P012071 | OG3 |
                100
                             Opea_EP00118_Oscarella_pearsei_P012070 | OG3 |
                        100
                                •Ocar_g7629 | OG3 |
                         TrH2_TrispH2_000168-RA | OG4 |
                       <sup>1001</sup>Tadh TriadT49777 | OG4 |
                          -HoiH11_mRNA1845 | OG4 |
                    100
       20
                                •HoiH23_PIH23_000783-RA | OG4 |
                       100
                             <sup>100</sup> HoiH06_mRNA2916 | OG4 |
                                Hhon g04461.t1 | OG4 |
                             <sup>100</sup> HoiH04 mRNA1340 | OG4 |
                       Eupdun_Edun_sb10624697 | OG4 |
                           Eupdun Edun sb10624699 | OG4 |
                        <sup>100</sup> Eupdun_Edun_sb10624698 | OG4 |
                           •Vmul Simscaffold12228 01 | OG4 |
                  100
                             •Coeast Cast sb788460 | OG4 |
         18
                         100 Coemet Cmet_scaffold22341_01 | OG4 |
                            .ampan_Lpan_C408791_01 | OG4 |
                              Horcal_Hcv1.av93.c2.g441.i1 | OG4 |
                       98
                           <sup>100</sup> Pbac sb2637643 | OG4 |
                                Drygla_Dgla_sb282536 | OG4 |
                         99
                                  •Bolinf_Binf_sb1225738 | OG4 |
                                  -Beraby_Baby_sb329531 | OG4 |
                       •Dgig_XM_028536238.1 | OG4 |
           17
                           •Xesp 006862-T1 | OG4 |
                         Exapal XM 028657044.1 | OG4 |
               98
                    <sup>100</sup> Nvec_v1g216004 | OG4 |
                          Amil Amillepora10833-RA | OG4 |
                 100
                       <sup>100</sup><sup>_</sup>•Adig_XM_015899304.1 | OG4 |
                          •Gfas gfas1.m1.2681.m1 | OG4 |
                             -Gasp_gasp1.m3.14849.m1 | OG4 |
                              Fspp_ffun1.m4.3518.m1 | OG4 |
                                 Spis_XP_022803290_1 | OG4 |
                              <sup>100</sup>L-Pocdam_XM_027191779.1 | OG4 |
             20
                                                                       •Xesp 028533-T1 | OG4 |
                                                                     <sup>921</sup>•Xesp 007072-T1 | OG4 |
                                                                       •Xesp_028511-T1 | OG4 |
                                                                  100
                                                                         •Xesp_028526-T1 | OG4 |
                                                                           Xesp_028537-T1 | OG4 |
                                                                             -Xesp 028508-T1 | OG4 |
                                                                           <sup>911</sup>•Xesp 028550-T1 | OG4 |
               18
                       Bralan BLAG07000446 1 | OG4 |
                   20
                                         -Stycar_maker-SC_scaffold17623-snap-gene-0.2-mRNA-1 | OG4 |
                            Skow_XM_002741211.2 | OG4 |
                                Hsap ENST00000219139 | OG4 |
                 18
                                   •Spur XM 030975510.1 | OG4 |
                               -Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA124552 | OG4 |
                   28
                                    •Lcom_lcpid245239 | OG4 |
                        100
                                   •Acagra_model.g29098.t1 | OG4 |
                           100
                              100
                                    •Cgig XM 034483033.1 | OG4 |
                      92
                                      •Tcas TC009295 001 | OG4 |
                           100
                                      •Dpul_mRNA14127 | OG4 |
                        92
                                  •Cscu_XM_023367572.1 | OG4 |
                                   <sub>r</sub>Cscu_XM_023380587.1 | OG4 |
                          100
                                1001-Cscu XM_023358059.1 | OG4 |
0.416667
```