```
•Mylflu_EP00047_Mylnosiga_fluctuans_P010918 | OG0 |
                 Salpun_EP00053_Salpingoeca_punica_P008676 | OG0 |
    99
                Salmac_EP00052_Salpingoeca_macrocollata_P017359 | OG0 |
             Salurc_EP00051_Salpingoeca_urceolata_P018880 | OG0 |
                    Salurc EP00051 Salpingoeca urceolata P018877 | OG0 |
 85
             Salkve EP00050 Salpingoeca kvevrii P019943 | OG0 |
               -Salkve_EP00050_Salpingoeca_kvevrii_P019944 | OG0 |
                •Codhol_EP00042_Codosiga_hollandica_P021800 | OG0 |
                        Didcos_EP00039_Didymoeca_costata_P005382 | OG0 |
                   Diagra EP00040 Diaphanoeca grandis P012494 | OG0 |
46
                   Stedip EP00041 Stephanoeca diplocostata P029356 | OG0 |
      100
                      Acaspe_EP00035_Acanthoeca_spectabilis_P014073 | OG0 |
                     •Helnan_EP00037_Helgoeca_nana_P028089 | OG0 |
 81
                   •Salinf_EP00049_Salpingoeca_infusionum_P019309 | OG0 |
                Microa EP00043 Microstomoeca roanoka P000100 | OG0 |
               •Sros EGD81575 | OG0 |
    100
                            •Mbre EDQ90846 | OG0 |
                          •Choper_EP00045_Choanoeca_perplexa_P022634 | OG0 |
                100
                         •Chofle_EP00730_Choanoeca_flexa_P002087 | OG0 |
                                •Choper_EP00045_Choanoeca_perplexa_P021707 | OG0 |
        Saldol EP00054 Salpingoeca dolichothecata P018014 | OG1 |
              Saldol_EP00054_Salpingoeca_dolichothecata_P018016 | OG1 |
            Saldol_EP00054_Salpingoeca_dolichothecata_P018015 | OG1 |
               Codhol_EP00042_Codosiga_hollandica_P021802 | OG1 |
                      •Clacor_Ccor_scaffold5040_01 | OG1 |
                       •Gracom Gcom scaffold15184 01 | OG1 |
                        •Gracom_Gcom_scaffold15183_01 | OG1 |
94
              99
                            Lcom_lcpid67216 | OG1 |
                              -Lcom_lcpid92483 | OG1 |
                31
                         100
                            <sup>1001</sup>•Lcom_lcpid77079 | OG1 |
                  32
      100
                          •Scil_scict001279.4 | OG1 |
                                 •Leuniv_Lniv_scaffold9695_01 | OG1 |
                     32
                               Leuniv Lniv scaffold9697 01 | OG1 |
                          100
                                 Leuniv_Lniv_scaffold9693_01 | OG1 |
                               Leuniv_Lniv_scaffold9694_01 | OG1 |
                    •Spolac_c84755_g1_i1_m.3546c84755-g1 | OG1 |
         73
                      Emue Em0020g996a.t1 | OG1 |
                        •Emue_Em0714g3a.t1 | OG1 |
                       Stycar_augustus_masked-SC_scaffold878-processed-gene-0.1-mRNA-1 | OG1 |
              100
                         •Tetwil g5821.t1 | OG1 |
                          Xestes_maker-XT_scaffold5154-augustus-gene-0.39-mRNA-1 | OG1 |
                          •Aque_Aqu2.1.36027_001 | OG1 |
                      <sup>100</sup>1-Halamb_c38058_g1_i1m.10518 | OG1 |
                      •Plajan_Pjan_C567508_01 | OG1 |
                      •Opea_EP00118_Oscarella_pearsei_P014040 | OG1 |
                           •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA134404 | OG1 |
                              •Acagra_model.g30448.t1.1.5d3b8d02 | OG1 |
                    99
                                 •Acagra_model.g30842.t1 | OG1 |
                      100
                                •Cgig_XM_034481962.1 | OG1 |
                             Spur_XM_783494.4 | OG1 |
                           ·Skow XM 006814248.1 | OG1 |
             59
                                  •Hsap_ENST00000375938 | OG1 |
                             -Bralan_BLAG07000087_1 | OG1 |
                          <sup>100</sup> Bralan_BLAG07000089_1 | OG1 |
                           -Dgig_XM_028536065.1 | OG1 |
                               •Xesp 006988-T1 | OG1 |
                             •Exapal_XM_021038468.1 | OG1 |
               96
                   98
                              •Nvec_v1g243308 | OG1 |
                               -Spis_XP_022806653_1 | OG1 |
                            <sup>100</sup> Pocdam XM 027181937.1 | OG1 |
                                •Gasp_gasp1.m3.23882.m1 | OG1 |
                                 Fspp_ffun1.m4.19677.m1 | OG1 |
                                 -Gfas_gfas1.m1.3104.m1 | OG1 |
                              98 --- • Adig_XM_015896253.1 | OG1 |
                             •HoiH11_mRNA7180 | OG1 |
                 86
                                TrH2_TrispH2_001609-RA | OG1 |
                         100
                                 •Tadh TriadT23726 | OG1 |
                                   -HoiH23_PIH23_002777-RA | OG1 |
                                Hhon_g08193.t1 | OG1 |
                                 <sup>1001</sup>•HoiH04_mRNA17168 | OG1 |
                                   •Morvir_scaffold38.g61.t1 | OG1 |
                   85
                                      •Hvul_g24027_1 | OG1 |
                            85
                                      •Chem_TCONS_00065939 | OG1 |
                                         •Hvul_g24025_1 | OG1 |
                         100
                                    •Sanmal Sma 025023-T1 | OG1 |
                                  •Aaur_scaffold601.g8.t1 | OG1 |
                                     -Nemnom_g14839.t1 | OG1 |
                      87
                                 <sup>100</sup><sup>1</sup>•Rhoesc_Res_011165-T1 | OG1 |
                               •Coemet_Cmet_C601699_01 | OG1 |
                                 <sub></sub>--Lampan_Lpan_13855_01 | OG1 |
                                    Mertsp Mesp sb538326 | OG1 |
                          100
                                 <sup>100</sup> Mertsp_Mesp_sb538327 | OG1 |
                                   <sub></sub>-Beraby_Baby_sb333689 | OG1 |
                             89
                                 <sup>98</sup> Mlei_ML0714.g14.i1 | OG1 |
                                    -Eupdun_Edun_sb10620926 | OG1 |
                                      Horcal Hcv1.av93.c5.g1207.i1 | OG1 |
                                   <sup>100</sup>Pbac sb2653768 | OG1 |
```