```
•Lcom_lcpid195125 | OG0 |
                                 •Codhol_EP00042_Codosiga_hollandica_P035716 | OG0 |
                               -Salkve_EP00050_Salpingoeca_kvevrii_P003060 | OG0 |
                            <sup>100</sup> Salkve_EP00050_Salpingoeca_kvevrii_P003061 | OG0 |
       52
                                     Salinf_EP00049_Salpingoeca_infusionum_P004589 | OG0 |
 82
         59
                               •Microa_EP00043_Microstomoeca_roanoka_P018222 | OG0 |
                       100
                                 •Sros_EGD73991 | OG0 |
           85
                                   •Mbre_EDQ85476 | OG0 |
                              Chofle_EP00730_Choanoeca_flexa_P018056 | OG0 |
                 100
     85
                        100
                                •Choper_EP00045_Choanoeca_perplexa_P003974 | OG0 |
                                 •Codhol_EP00042_Codosiga_hollandica_P050245 | OG0 |
             80
                                Salurc_EP00051_Salpingoeca_urceolata_P002065 | OG0 |
                               •Mylflu_EP00047_Mylnosiga_fluctuans_P005952 | OG0 |
                                      •Salpun_EP00053_Salpingoeca_punica_P015331 | OG0 |
            93
                   100
                                  Salmac EP00052 Salpingoeca macrocollata P008409 | OG0 |
       49
                          Saldol EP00054 Salpingoeca dolichothecata P006192 | OG0 |
                          Didcos_EP00039_Didymoeca_costata_P011688 | OG0 |
                               Diagra_EP00040_Diaphanoeca_grandis_P010939 | OG0 |
             98
                              | Stedip_EP00041_Stephanoeca_diplocostata_P002927 | OG0
               100
                                  Acaspe EP00035 Acanthoeca spectabilis P022187 | OG0 |
                  100
                           100
                                 •Helnan EP00037 Helgoeca nana P038006 | OG0 |
                    Pbac_sb2666842 | OG1 |
                      Horcal_Hcv1.av93.c5.g623.i1 | OG1 |
                           •Pbac_sb2645036 | OG1 |
                      Coemet Cmet scaffold16945 01 | OG1 |
                 100
           100
                          Coeast_Cast_sb810932 | OG1 |
                        <sup>100</sup> Coeast_Cast_sb810934 | OG1 |
                         •Lampan_Lpan_C417119_01 | OG1 |
                               Eupdun Edun sb10624849 | OG1 |
              80
                             Eupdun Edun sb10653038 | OG1 |
                          <sup>100</sup> Eupdun_Edun_sb10653041 | OG1 |
                             rEupdun_Edun_sb10653039 | OG1 |
                           <sup>73</sup> Eupdun_Edun_sb10653042 | OG1 |
                82
                          •Drygla_Dgla_sb284424 | OG1 |
                            Mertsp Mesp sb573649 | OG1 |
                          <sup>80</sup> Mertsp_Mesp_sb573650 | OG1 |
                            Bolinf Binf sb1241294 | OG1 |
                   92
                          <sub>49</sub>• <sub>•</sub>Mertsp_Mesp_sb573651 | OG1 |
                               Bolinf Binf sb1241293 | OG1 |
                     87
                              <sup>1</sup> Mertsp Mesp sb573652 | OG1 |
                           Beraby_Baby_sb325766 | OG1 |
                              Drygla_Dgla_sb278703 | OG1 |
                                 •Vmul_sbMO371531 | OG1 |
                                   •Vmul sbMO377219 | OG1 |
                                 <sup>73</sup> Mlei ML2679.g22.i1 | OG1 |
                                Bolinf_Binf_sb1238051 | OG1 |
                                  Bolinf_Binf_sb1238054 | OG1 |
                                    <sub>_</sub>Bolinf_Binf_sb1238055 | OG1 |
                                  <sup>661</sup>Mertsp_Mesp_sb535751 | OG1 |
                     TrH2 TrispH2 011155-RA | OG1 |
                  <sup>100</sup><sup>1</sup>•Tadh_TriadT64358 | OG1 |
               100
                       •HoiH11_mRNA5476 | OG1 |
                          •HoiH04_mRNA1166 | OG1 |
                           <sub>"</sub>HoiH23_PIH23_007825-RA | OG1 |
     42
                         <sup>1001</sup>•HoiH06_mRNA3583 | OG1 |
                         •Clacor_Ccor_scaffold15288_01 | OG1 |
                       Lcom_lcpid179657 | OG1 |
          100
                    <sup>100</sup>Lcom_lcpid105481 | OG1 |
                 100
                         -Leuniv_Lniv_scaffold25163_01 | OG1 |
                           •Lcom lcpid142160 | OG1 |
                           •Gracom Gcom scaffold14747 01 | OG1 |
                   Stycar_maker-SC_scaffold3782-snap-gene-0.4-mRNA-1 | OG1 |
                       •Plajan_Pjan_scaffold3811_01 | OG1 |
                     <u>-</u>Opea_EP00118_Oscarella_pearsei_P027094 | OG1 |
                       Ocar g2744 | OG1 |
                       Plespi_Pspi_scaffold18310_01 | OG1 |
        79
                    <sup>100</sup>Plespi_Pspi_scaffold18311_01 | OG1 |
   64
                       Stycar maker-SC scaffold687-snap-gene-0.23-mRNA-1 | OG1 |
                        •Tetwil g11874.t1 | OG1 |
               99
          78
                    <sup>1001</sup>Tetwil_g11876.t1 | OG1 |
                         •Emue Em0022g172a.t1 | OG1 |
             35
                    <sup>1001</sup>-Spolac_c101988_g1_i1_m.27510c101988-g1 | OG1 |
                           •Halamb_c43814_g1_i3mm.1348 | OG1 |
                                     -Aque Aqu2.1.02662 001 | OG1 |
               81
                                Aque Aqu2.1.02131 001 | OG1 |
                              46 Aque_Aqu2.1.02220_001 | OG1 |
                    100
                                       -Aque_Aqu2.1.07252_001 | OG1 |
                           <sup>58</sup>-Aque Aqu2.1.16304_001 | OG1 |
                               Ague Agu2.1.32973 001 | OG1 |
     25
                                  •Aque Aqu2.1.11190 001 | OG1 |
                                        Aque_Aqu2.1.15322_001 | OG1 |
                                     <sup>100</sup> - Aque _ Aqu2.1.07577 _ 001 | OG1 |
                     •Skow_XM_006814640.1 | OG1 |
                       •Hsap ENST00000417647 | OG1 |
                        •Spur XM 030980579.1 | OG1 |
                     Bralan_BLAG06001125_1 | OG1 |
          100
                          •Cscu_XM_023377462.1 | OG1 |
                              •Tcas_TC015452_001 | OG1 |
             88
                 100
                                 Dpul mRNA926 | OG1 |
               57
                            •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA225605 | OG1 |
                           •Cgig_XM_034446981.1 | OG1 |
                               •Lcom_lcpid192818 | OG1 |
                       <sup>100</sup><sup>1</sup>-Acagra_model.g13070.t1 | OG1 |
        70
                         •Chem_TCONS_00010526 | OG1 |
                 100
                          •Hvul g32580 1 | OG1 |
                         •Morvir scaffold471.g7.t1 | OG1 |
             100
                          •Morvir_scaffold471.g6.t1 | OG1 |
                              •Sanmal_Sma_011129-T1 | OG1 |
                   100
                             •Aaur_scaffold120.g11.t1 | OG1 |
                      93
                                •Nemnom g7339.t1 | OG1 |
                                 -Nemnom_g7338.t1 | OG1 |
          100
                             <sup>100</sup> Rhoesc_Res_000354-T1 | OG1 |
                         •Xesp_016042-T1 | OG1 |
                         Dgig XM 028563158.1 | OG1 |
                   100
                      <sup>100</sup> Dgig _XM_028541742.1 | OG1 |
                         •Exapal XM 021050598.2 | OG1 |
             100
                  100
                         •Nvec v1g211930 | OG1 |
                       Gfas gfas1.m1.15126.m1 | OG1 |
                99
                           Amil Amillepora06369-RA | OG1 |
                   100
                        <sup>100</sup>1•Adig_XM_015907688.1 | OG1 |
                                •Fspp_ffun1.m4.13924.m1 | OG1 |
                              Gasp gasp1.m3.30502.m1 | OG1 |
                              •Spis_XP_022781293_1 | OG1 |
                           <sup>100</sup> Pocdam XM 027198174.1 | OG1 |
0.416667
```