```
Mylflu EP00047 Mylnosiga fluctuans P002454 | OG0 |
                     •Codhol_EP00042_Codosiga_hollandica_P030873 | OG0 |
              Salmac EP00052 Salpingoeca macrocollata P033602 | OG0 |
      93
              Salpun_EP00053_Salpingoeca_punica_P002511 | OG0 |
                Salurc EP00051 Salpingoeca urceolata P027405 | OG0 |
        84
                  Salkve EP00050 Salpingoeca kvevrii P007030 | OG0 |
                 Didcos_EP00039_Didymoeca_costata_P018356 | OG0 |
     80
                  Stedip_EP00041_Stephanoeca_diplocostata_P004273 | OG0 |
       96
            90
                      Diagra_EP00040_Diaphanoeca_grandis_P001797 | OG0 |
          96
                             Acaspe EP00035 Acanthoeca spectabilis P000072 | OG0 |
                   100
                            Helnan EP00037 Helgoeca nana P024377 | OG0 |
                    Saldol_EP00054_Salpingoeca_dolichothecata_P016540 | OG0 |
                     Salinf_EP00049_Salpingoeca_infusionum_P023280 | OG0 |
     67
                        Lcom_lcpid216783 | OG0 |
       90
                        Microa EP00043 Microstomoeca roanoka P030157 | OG0 |
            60
                   100
                          Sros EGD80223 | OG0 |
          93
                         •Mbre_EDQ87211 | OG0 |
                          •Chofle_EP00730_Choanoeca_flexa_P017634 | OG0 |
               100
                     Tool-Choper EP00045 Choanoeca_perplexa_P008017 | OG0 |
              -Lcom lcpid227521 | OG1 |
                     -Tetwil g10954.t2 | OG1 |
                   •Stycar maker-SC_scaffold142926-snap-gene-0.25-mRNA-1 | OG1 |
        99
   22
                      <sub>f</sub>Spolac_c88900_g1_i1_m.5301c88900-g1 | OG1 |
            100
                   <sup>1001</sup>•Emue_Em0009g1156a.t1 | OG1 |
      84
                         Eupdun Edun sb10608994 | OG1 |
                            -Vmul_sbMO461630 | OG1 |
                              100
                           <sup>100</sup>1-Coemet_Cmet_C573034_01 | OG1 |
                              Bolinf_Binf_sb1247553 | OG1 |
                      80
                              •Drygla_Dgla_sb275586 | OG1 |
                               Bolinf Binf sb1271001 | OG1 |
                        86
                            <sup>100</sup>Bolinf Binf sb1271002 | OG1 |
                                 Beraby Baby sb343434 | OG1 |
                               <sup>1001</sup>Beraby_Baby_sb343435 | OG1 |
                                    Pbac_sb2664256 | OG1 |
                                    Horcal Hcv1.av93.c4.g668.i1 | OG1 |
                                       Pbac_sb2664254 | OG1 |
                                    <sup>100</sup>l-Pbac sb2664253 | OG1 |
               Gracom_Gcom_C533986_01 | OG2 |
                   •Lcom lcpid130955 | OG2 |
         100
                  Leuniv Lniv scaffold19365_01 | OG2 |
                   Lcom_lcpid249940 | OG2 |
                <sup>100]</sup>Scil _scict015983.1 | OG2 |
                  Clacor_Ccor_scaffold11535_01 | OG2 |
                 •Plajan_Pjan_C537550_01 | OG2 |
       46
             99
                      Opea_EP00118_Oscarella_pearsei_P028690 | OG2 |
                    •HoiH11_mRNA6939 | OG2 |
                         TrH2_TrispH2_008003-RA | OG2 |
                 100
                      <sup>100</sup>lTadh TriadT63736 | OG2 |
                          <sub>e</sub>HoiH23 PIH23 000932-RA|OG2|
                        <sup>95</sup>-HoiH06 mRNA1917 | OG2 |
                          Hhon_g00665.t1 | OG2 |
                        <sup>59</sup> HoiH04_mRNA17925 | OG2 |
                         Xestes_maker-XT_scaffold62908-snap-gene-0.26-mRNA-1 | OG2 |
                            -Aque Aqu2.1.28239_001 | OG2 |
     57
                           Halamb c40189 g1 i1mm.798 | OG2 |
                    •Hsap ENST00000583313 | OG2 |
         73
              53
                          -Tcas_TC005086_001 | OG2 |
                       Skow XM 006818058.1 | OG2 |
                       Spur XM 782434.5 | OG2 |
           82
                     <sup>1001</sup>Spur_XM_030976899.1 | OG2 |
                      Bralan_BLAG14000309_1 | OG2 |
                            scu_XM_023381813.1 | OG2 |
                          •Dpul mRNA11719 | OG2 |
                        Cgig_XM_011458322.3 | OG2 |
       26
                           Acagra_model.g9066.t1 | OG2 |
                               Ctel gnl WGS AMQN CAPTEDRAFT mRNA222447 | OG2 |
                      •Hvul g25852 1 | OG2 |
                         •Chem_TCONS_00009614 | OG2 |
                    •Morvir_scaffold34.g39.t4 | OG2 |
                      •Nemnom_g11639.t1 | OG2 |
                       •Rhoesc_Res_011852-T1 | OG2 |
                100
                        -Aaur_scaffold264.g18.t1 | OG2 |
         98
                           Sanmal_Sma_007481-T1 | OG2 |
                      •Fspp ffun1.m4.6881.m1 | OG2 |
                Pocdam_XM_027199479.1 | OG2 |
                  Spis_XP_022809325_1 | OG2 |
                     •Gasp_gasp1.m3.8954.m1 | OG2 |
                         <sub>J</sub>Amil_Amillepora02692-RA | OG2 |
                       <sup>1001</sup>-Adig_XM_015908463.1 | OG2 |
                               •Dgig_XM_028551138.1 | OG2 |
                               •Xesp_003073-T1 | OG2 |
                               •Exapal_XM_021051944.2 | OG2 |
                                 Nvec_v1g56293 | OG2 |
                                  <sub>]</sub>•Nvec_v1g38262 | OG2 |
                                <sup>52</sup>¹•Nvec_v1g91495 | OG2 |
0.416667
```