```
Stedip EP00041 Stephanoeca diplocostata P024967 | OG0 |
                                 | Stedip_EP00041_Stephanoeca_diplocostata_P024964 | OG0
         Stedip_EP00041_Stephanoeca_diplocostata_P039481 | OG0 |
          •Stedip_EP00041_Stephanoeca_diplocostata_P039477 | OG0 |
      100<sup>1</sup>-Stedip EP00041 Stephanoeca_diplocostata_P039482 | OG0 |
     Acaspe EP00035 Acanthoeca spectabilis P039657 | OG1 |
     -Helnan_EP00037_Helgoeca_nana_P033777 | OG1 |
              Stedip_EP00041_Stephanoeca_diplocostata_P024961 | OG1 |
97
                          Stedip_EP00041_Stephanoeca_diplocostata_P024965 | OG1 |
           100
                             Stedip_EP00041_Stephanoeca_diplocostata_P024966 | OG1 |
          Stedip EP00041 Stephanoeca diplocostata P006381 | OG1 |
 64
               Diagra_EP00040_Diaphanoeca_grandis_P028634 | OG1 |
                     •Didcos_EP00039_Didymoeca_costata_P026663 | OG1 |
    73
                         Salmac_EP00052_Salpingoeca_macrocollata_P000598 | OG1 |
      97
                       Salpun EP00053 Salpingoeca punica P008302 | OG1 |
                          Mylflu EP00047 Mylnosiga fluctuans P017563 | OG1 |
                      <sup>100</sup> Mylflu_EP00047_Mylnosiga_fluctuans_P017564 | OG1 |
        96
                         Salurc_EP00051_Salpingoeca_urceolata_P005838 | OG1 |
                            ·Saldol_EP00054_Salpingoeca_dolichothecata_P019068 | OG1 |
                           Salkve EP00050 Salpingoeca kvevrii P010926 | OG1 |
                               Salinf EP00049 Salpingoeca infusionum P001069 | OG1
                                •Microa_EP00043_Microstomoeca_roanoka_P007967 | OG1 |
                     96
                         100
                                   •Sros EGD74124 | OG1 |
                  100
                              •Mbre_EDQ85908 | OG1 |
                              Chofle EP00730 Choanoeca flexa P018272 | OG1 |
             84
                               •Choper EP00045 Choanoeca perplexa P003184 | OG1 |
                             -Codhol_EP00042_Codosiga_hollandica_P041583 | OG1 |
                                •Skow_XM_006812763.1 | OG1 |
                                     TrH2_TrispH2_005949-RA | OG1 |
                         57
                                  <sup>1001</sup>-Tadh_TriadT59063 | OG1 |
                                     •HoiH11 mRNA5845 | OG1 |
                               100
               59
                                          •HoiH23_PIH23_000677-RA | OG1 |
                                  96
                                       <sup>100</sup> HoiH06_mRNA1902 | OG1 |
                                          <sub>f</sub>Hhon_g02659.t1 | OG1 |
                                       <sup>100</sup> HoiH04 mRNA13250 | OG1 |
                      75
                                        Vmul SimC394060 | OG1 |
                                       Coemet Cmet scaffold7830 01 | OG1 |
                                 100
                                          Coeast_Cast_sb780565 | OG1 |
                                    100
                                       <sup>100</sup> Coeast_Cast_sb780566 | OG1 |
                  58
                                        Mertsp Mesp sb565246 | OG1 |
                                          Bolinf Binf sb1214176 | OG1 |
                              100
                                        69 Bolinf Binf sb1214177 | OG1 |
                                          •Lampan_Lpan_C412993_01 | OG1 |
                                            Eupdun_Edun_sb10638683 | OG1 |
                                          <sup>100</sup> Eupdun Edun sb10638684 | OG1 |
                                        -Mlei ML2732.g16.i1 | OG1 |
                                          Bolinf_Binf_sb1243087 | OG1 |
                                     98
                                            Mertsp_Mesp_sb558226 | OG1 |
                                          <sup>70</sup> Bolinf_Binf_sb1243085 | OG1 |
                                          Beraby Baby sb338546 | OG1 |
                                            Drygla Dgla sb307708 | OG1 |
                    99
                                              Horcal_Hcv1.av93.c3.g719.i1 | OG1 |
                                           <sup>100</sup> Pbac sb2643651 | OG1 |
                                 Spur_XM_030998702.1 | OG1 |
                              <sup>1001</sup>Spur XM 790415.5 | OG1 |
                                    •Cgig XM 034468172.1 | OG1 |
                        32
                             26
                                        Ctel gnl WGS AMQN CAPTEDRAFT mRNA171865 | OG1 |
                                         •Acagra model.g17579.t1 | OG1 |
                           39
                                        Bralan_BLAG04000347_1 | OG1 |
                                        •Hsap ENST00000642195 | OG1 |
                             31
                                              Lcom lcpid232491 | OG1 |
                                                              Acagra model.g17580.t1 | OG1 |
                                            Lcom_icpid191388 | OG1 |
                                            •Cscu_XM_023375418.1 | OG1 |
                                   76
                                                    -Tcas_TC014519_001 | OG1 |
                                                  •Dpul_mRNA20081 | OG1 |
                                               <sup>100</sup> Dpul_mRNA26906 | OG1 |
                                 •Clacor_Ccor_C534853_01 | OG1 |
                                   •Lcom_lcpid82558 | OG1 |
                                     Scil scict010810.1 | OG1 |
                              100
                                        Gracom Gcom scaffold3587 01 | OG1 |
                                        Leuniv Lniv C798852 01 | OG1 |
                                     Dgig_XM_028540220.1 | OG1 |
                                      •Xesp_011907-T1 | OG1 |
                                      •Exapal_XM_028659002.1 | OG1 |
                             80
                                         •Nvec v1g122262 | OG1 |
                                      •Pocdam_XM_027196842.1 | OG1 |
                               86
                                                         •Spis_Spis_16450_1 | OG1 |
                                        Gasp_gasp1.m3.18580.m1 | OG1 |
                                 86
                                        •Fspp_ffun1.m4.20565.m1 | OG1 |
                                              •Gfas_gfas1.m1.10544.m1 | OG1 |
                                             Adig_XM_015913817.1 | OG1 |
                           84
                                                Amil_Amillepora15188-RA | OG1 |
                                              -Opea_EP00118_Oscarella_pearsei_P009285 | OG1 |
                                         •Opea_EP00118_Oscarella_pearsei_P009286 | OG1 |
                                              •Ocar_g5689 | OG1 |
                                           •Hvul_g247_1 | OG1 |
                                    100
                                             Chem_TCONS_00011470 | OG1 |
                                           •Morvir_scaffold258.g31.t1 | OG1 |
                             84
                                          Sanmal_Sma_026927-T1 | OG1 |
                                             •Aaur_scaffold668.g3.t1 | OG1 |
                                               -Nemnom_g16043.t1 | OG1 |
                                           <sup>100</sup>-Rhoesc_Res_001277-T1 | OG1 |
                                                 •Plespi_Pspi_scaffold6261_01 | OG1 |
                                           •Xestes_maker-XT_scaffold190689-augustus-gene-0.5-mRNA-1 | OG1 |
                                              •Halamb_c7368_g1_i1m.1182 | OG1 |
                                                  •Aque_Aqu2.1.32257_001 | OG1 |
                                 88
                                               ·Stycar_maker-SC_scaffold3716-augustus-gene-0.68-mRNA-1 | OG1 |
                                              •Tetwil_g17318.t2 | OG1 |
                                             •Emue_Em0019g355a.t1 | OG1 |
                                              Spolac_c99891_g1_i3_m.20878c99891-g1 | OG1 |
                                        100
                                                 <sub>!</sub>Spolac_c99891_g1_i1_m.20874c99891-g1 | OG1 |
                                           100
                                              <sup>100</sup> Spolac_c99891_g1_i2_m.20876c99891-g1 | OG1 |
```