```
•Morvir scaffold113.g40.t1 | OG0 |
              Hvul g16369 1 | OG0 |
        100
              Chem TCONS 00055985 | OG0 |
   100
             •Morvir_scaffold113.g37.t1 | OG0 |
               •Sanmal Sma 021482-T1 | OG0 |
               •Aaur_scaffold110.g2.t1 | OG0 |
        100
                   •Aaur_scaffold110.g4.t1 | OG0 |
           100
                    -Nemnom g10400.t1 | OG0 |
              100
                 <sup>1001</sup>-Rhoesc_Res_015629-T1 | OG0 |
             •Exapal XM 021059620.2 | OG0 |
            Nvec NVE21692 | OG0 |
88
          99 Nvec NVE4171 | OG0 |
               •Gfas_gfas1.m1.6883.m1 | OG0 |
      99
                 •Amil_Amillepora01133-RA | OG0 |
                   -Adig XM 015897662.1 | OG0 |
                <sup>100</sup>1—•Adig XM 015894636.1 | OG0 |
        100
             Fspp ffun1.m4.18277.m1 | OG0 |
               Fspp_ffun1.m4.31409.m1 | OG0 |
   100
                   •Gasp_gasp1.m3.10919.m1 | OG0 |
                    -Spis_XP_022801834_1 | OG0 |
                  <sup>1001</sup>•Pocdam XM_027193738.1 | OG0 |
          •Dgig XM 028538918.1 | OG0 |
            Xesp 007887-T1 | OG0 |
      100
                        •Xesp 007889-T1|OG0|
                                •Xesp 003509-T1 | OG0 |
         100
                100 Xesp 003515-T1 | OG0 |
                    •Xesp_003492-T1 | OG0 |
            94
                     -Xesp_003505-T1 | OG0 |
                       •Xesp 003490-T1 | OG0 |
                    •Xesp 003501-T1|OG0|
                    Xesp 003494-T1 | OG0 |
                       -Xesp 003517-T1 | OG0 |
                         -Xesp 003499-T1|OG0|
            •Skow_XM_006813162.1 | OG0 |
               •Hsap ENST00000358368 | OG0 |
               •Bralan BLAG08000419 1 | OG0 |
     96
                    Skow XM 002732547.2 | OG0 |
                   <sub>|</sub>Spur_XM_030997091.1 | OG0 |
       61
                <sup>1001</sup>Spur XM_030997474.1 | OG0 |
                    •Cscu XM 023385429.1 | OG0 |
         67
                        •Tcas TC031132 001 | OG0 |
                         •Dpul mRNA27889 | OG0 |
                     rCtel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA149139 | OG0 |
            98
                  <sup>100</sup> Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA127463 | OG0 |
   69
              98
                              Acagra model.g24879.t1 | OG0 |
                        •Acagra model.g24884.t1 | OG0 |
                        •Cgig_XM_011441872.3 | OG0 |
              •Plajan_Pjan_scaffold15015_01 | OG0 |
              100
           100<sup>1</sup>-Ocar g4467 | OG0 |
               •Plespi Pspi scaffold20505 01 | OG0 |
                 Xestes_maker-XT_scaffold4398-snap-gene-0.11-mRNA-1 | OG0 |
     87
                    Xestes_maker-XT_scaffold118965-snap-gene-0.13-mRNA-1 | OG0 |
            100
                       •Halamb_c32692_g1_i1mm.272 | OG0 |
               96
                          Aque Aqu2.1.16052 001 | OG0 |
       100
                            Aque Aqu2.1.16053 001 | OG0 |
                  100
                          991-Aque_Aqu2.1.13095_001 | OG0 |
                     95
                                  -Aque_Aqu2.1.15673_001 | OG0 |
                                     -Aque_Aqu2.1.00226_001 | OG0 |
          88
                                      Aque Aqu2.1.22869 001 | OG0 |
                                    <sup>591</sup>•Aque Aqu2.1.08754_001 | OG0 |
                   Stycar_maker-SC_scaffold19184-augustus-gene-0.3-mRNA-1 | OG0 |
              99 Tetwii_yz-10....

100 Tetwil_g17451.t1 | OG0 |
                     <sub>s</sub>Spolac_c104906_g2_i1_m.44205c104906-g1 | OG0 |
            83
                  <sup>1001</sup>Spolac_c104906_g2_i2_m.44206c104906-g1 | OG0 |
                      Spolac c104906 g1 i5 m.44212c104906-g1 | OG0 |
                         Spolac_c104906_g1_i3_m.44207c104906-g1 | OG0 |
               100
                          Spolac_c104906_g1_i4_m.44210c104906-g1 | OG0 |
 88
                         90<sup>1</sup>-Spolac_c104906_g1_i6_m.44216c104906-g1 | OG0 |
                         -Emue Em0016g200a.t1 | OG0 |
                           Emue Em0016g214a.t1 | OG0 |
                         82 Emue_Em0329g4a.t1 | OG0 |
                           -Emue_Em0016g201a.t1 | OG0 |
                    59
                         <sup>15</sup> Emue Em0016g209a.t1 | OG0 |
                                     -Spolac_c104906_g1_i1_m.44204c104906-g1 | OG0 |
                                 •Emue Em0329g8a.t1 | OG0 |
                            Emue Em0329g7a.t1 | OG0 |
                                     -Emue_Em0016g196a.t1 | OG0 |
                                 -Emue_Em0016g195a.t1 | OG0 |
                              82 -Emue_Em0016g210a.t1 | OG0 |
              TrH2_TrispH2_008916-RA | OG0 |
           <sup>1001</sup>•Tadh_TriadT21689 | OG0 |
               •HoiH11_mRNA9173 | OG0 |
                   <sub>r</sub>HoiH23_PIH23_008659-RA | OG0 |
           100
                <sup>100</sup> HoiH06 mRNA14089 | OG0 |
                   Hhon_g05363.t1 | OG0 |
                 <sup>100</sup> HoiH04_mRNA1401 | OG0 |
                  ·Clacor_Ccor_scaffold14421_01 | OG0 |
                    •Clacor_Ccor_scaffold13806_01 | OG0 |
        100
                   •Clacor Ccor scaffold2516 01 | OG0 |
           83
                     Scil_scict011084.2 | OG0 |
                        •Gracom_Gcom_scaffold17466_01 | OG0 |
             82
                        -Leuniv_Lniv_scaffold25892_01 | OG0 |
                        Lcom_lcpid105974 | OG0 |
                98
                          -Lcom | lcpid211671 | OG0 |
                        841-Lcom_lcpid105125 | OG0 |
                  100
                       Lcom_lcpid49733 | OG0 |
                         Lcom_lcpid95510 | OG0 |
                           <u>-</u>Lcom_lcpid49344 | OG0 |
                         631Lcom_lcpid75279 | OG0 |
                        Didcos EP00039 Didymoeca costata P019120 | OG0 |
                           Diagra_EP00040_Diaphanoeca_grandis_P039029 | OG0 |
     78
               100
                           ·Stedip_EP00041_Stephanoeca_diplocostata_P033844 | OG0 |
                  100
                             •Acaspe_EP00035_Acanthoeca_spectabilis_P022101 | OG0 |
                             •Helnan_EP00037_Helgoeca_nana_P017606 | OG0 |
                             Salurc_EP00051_Salpingoeca_urceolata_P031446 | OG0 |
           100
                             Salkve_EP00050_Salpingoeca_kvevrii_P011117 | OG0 |
                             •Mylflu_EP00047_Mylnosiga_fluctuans_P005327 | OG0 |
                                 •Codhol_EP00042_Codosiga_hollandica_P042718 | OG0 |
                                Salpun EP00053 Salpingoeca punica P027375 | OG0 |
                        100
                                Salmac EP00052 Salpingoeca macrocollata P005725 | OG0 |
              84
                             -Saldol EP00054 Salpingoeca dolichothecata P022979 | OG0 |
                               ·Salinf_EP00049_Salpingoeca_infusionum_P009964 | OG0 |
                                 Microa_EP00043_Microstomoeca_roanoka P012576 | OG0 |
       93
                                Sros EGD76556 | OG0 |
                   100
                                Mbre EDQ86376 | OG0 |
                              Chofle EP00730 Choanoeca flexa P006381 | OG0 |
                      100
                                -Choper_EP00045_Choanoeca_perplexa_P013043 | OG0 |
                         Eupdun Edun sb10638020 | OG0 |
                     <sup>100</sup>•Eupdun_Edun_sb10638021 | OG0 |
                          Coemet Cmet scaffold20583 01 | OG0 |
                            Coeast Cast sb787022 | OG0 |
                      100
                100
                         <sup>100</sup>L-Coeast_Cast_sb787023 | OG0 |
                        --Lampan_Lpan_15397_01 | OG0 |
                    98
                             <sub>"</sub>Bolinf_Binf_sb1277264 | OG0 |
                               Mertsp Mesp sb591137 | OG0 |
                          100
                                 Bolinf Binf sb1277265 | OG0 |
                      93
                               82 Mertsp_Mesp_sb591138 | OG0 |
                                  <sub>!</sub>-Beraby_Baby_sb332004 | OG0 |
                               <sup>1001</sup>Beraby_Baby_sb332003 | OG0 |
                        86
                                     Mlei_ML0200.g16.i1 | OG0 |
                            100
                                  <sup>100</sup> Vmul_sbMO405936 | OG0 |
                               100
                                     Bolinf_Binf_sb1255006 | OG0 |
                                  <sup>100</sup> Mertsp_Mesp_sb566931 | OG0 |
                                   Pbac sb2665787 | OG0 |
                                     Horcal Hcv1.av93.c11.g258.i1 | OG0 |
                                   <sup>1001</sup>Horcal Hcv1.av93.c11.g258.i2 | OG0 |
                                 Drygla Dgla sb301661 | OG0 |
                                   Drygla_Dgla_sb301663 | OG0 |
                                     Drygla Dgla sb301662 | OG0 |
                                   <sup>71</sup>Drygla Dgla_sb301664 | OG0 |
0.416667
```