```
•Morvir scaffold273.g15.t1 | OG0 |
           •Sanmal Sma 027361-T1 | OG0 |
  99
               Aaur_scaffold784.g4.t1 | OG0 |
     99
            •Nemnom_g15851.t1 | OG0 |
99
         <sup>951</sup>-Rhoesc_Res_001346-T1 | OG0 |
             •Hvul g32263 1 | OG0 |
                        -Hvul_g32265_1 | OG0 |
   98
                 •Hvul_g32254_1 | OG0 |
     58
              ·Chem_TCONS_00032599 | OG0 |
                                   •Hvul g32252 1 | OG0 |
             Dgig XM 028540165.1 | OG0 |
             •Xesp_011828-T1 | OG0 |
            •Exapal_XM_021038690.2 | OG0 |
  99
              •Nvec_NVE7784 | OG0 |
       99
          <sup>1001</sup>Nvec v1g246875 | OG0 |
             -Spis XP 022800816 1 | OG0 |
    100
          <sup>1001</sup>•Pocdam_XM_027202675.1 | OG0 |
                •Fspp ffun1.m4.31089.m1 | OG0 |
       100
                 •Gasp_gasp1.m3.14794.m1 | OG0 |
          68
                 -Fspp ffun1.m4.27424.m1 | OG0 |
                  •Gfas gfas1.m1.4634.m1 | OG0 |
                    Amil Amillepora12712-RA | OG0 |
                 <sup>100</sup> Adig XM_015921083.1 | OG0 |
            •Plajan_Pjan_C570080_01 | OG0 |
             •Ocar g9523 | OG0 |
     100
             Popea EP00118 Oscarella pearsei P024881 | OG0 |
               <sub>!</sub>•Ocar_g6402 | OG0 |
99
             <sup>62</sup> Gcar_g5228 | OG0 |
              •Spur_XM_030998532.1 | OG0 |
                   •Hsap ENST00000164139 | OG0 |
                     Hsap ENST00000216962 | OG0 |
                       •Hsap_ENST00000216392 | OG0 |
                    Cscu XM 023373079.1 | OG0 |
                      .com_lcpid166915 | OG0 |
             96
                     ·Tcas TC008246 001 | OG0 |
                     Dpul_mRNA28203 | OG0 |
                          •Dpul mRNA12694 | OG0 |
                 100
                          Dpul mRNA12937 | OG0 |
                       <sup>100</sup>Dpul_mRNA21683 | OG0 |
        63
                     Skow XM 006812327.1 | OG0 |
  84
                  Lcom | lcpid241860 | OG0 |
                          Lcom | lcpid174658 | OG0 |
                       •Bralan_BLAG04001462_1 | OG0 |
                             •Skow_XM_006811930.1 | OG0 |
                        •Cgig XM 011429001.3 | OG0 |
                      -Acagra_model.g15459.t1 | OG0 |
                      •Lcom_lcpid232456 | OG0 |
               49
                      Cgig_XM_011434576.3 | OG0 |
                           Lcom | lcpid91736 | OG0 |
                 60
                             Lcom | lcpid237530 | OG0 |
                             •Mylflu_EP00047_Mylnosiga_fluctuans_P014751 | OG0 |
                            •Mylflu_EP00047_Mylnosiga_fluctuans_P014750 | OG0 |
            89
                              Salpun_EP00053_Salpingoeca_punica_P011496 | OG0 |
              95
                              Salpun EP00053 Salpingoeca punica P011498 | OG0 |
    60
                                   Salmac EP00052 Salpingoeca macrocollata P028801 | OG0 |
                                     Salpun_EP00053_Salpingoeca_punica_P011494 | OG0 |
          90
                                   <sup>991</sup>Salpun_EP00053_Salpingoeca_punica_P011493 | OG0 |
                           •Mylflu_EP00047_Mylnosiga_fluctuans_P014748 | OG0 |
                       Codhol EP00042 Codosiga hollandica P059173 | OG0 |
                          Didcos EP00039 Didymoeca costata P019512 | OG0 |
            89
                             Diagra EP00040 Diaphanoeca grandis P001387 | OG0 |
                  97
                              Stedip_EP00041_Stephanoeca_diplocostata_P039384 | OG0 |
              92
                               <sub>-</sub>-Acaspe_EP00035_Acanthoeca_spectabilis_P019990 | OG0 |
                        100
                            <sup>100</sup>-Helnan_EP00037_Helgoeca_nana_P020826 | OG0 |
                             •Salkve_EP00050_Salpingoeca_kvevrii_P011704 | OG0 |
                             Saldol EP00054 Salpingoeca dolichothecata P005110 | OG0 |
                            .com_lcpid254255 | OG0 |
                    88
                              •Mylflu_EP00047_Mylnosiga_fluctuans_P003293 | OG0 |
                                Salmac EP00052 Salpingoeca macrocollata P035046 | OG0 |
                                Salpun_EP00053_Salpingoeca_punica_P011196 | OG0 |
                  85
                            Salurc_EP00051_Salpingoeca_urceolata_P034279 | OG0 |
                       36
                              •Lcom | lcpid171735 | OG0 |
                              -Lcom_lcpid131645 | OG0 |
                    81
                                •Mbre_EDQ92471 | OG0 |
                                 •Chofle EP00730 Choanoeca flexa P012669 | OG0 |
                             <sup>100</sup> Choper_EP00045_Choanoeca_perplexa_P010270 | OG0 |
                         35
                                Salinf EP00049 Salpingoeca infusionum P019168 | OG0 |
                                           •Lcom_lcpid250732 | OG0 |
                                   •Microa_EP00043_Microstomoeca_roanoka_P010369 | OG0 |
                                     •Sros EGD77434 | OG0 |
                       •Clacor_Ccor_C505079_01 | OG0 |
                       •Clacor_Ccor_scaffold12440_01 | OG0 |
              100
                          Lcom_lcpid36156 | OG0 |
                 79
                       <sup>1001</sup>Lcom_lcpid56299 | OG0 |
                           Leuniv Lniv_C815060_01 | OG0 |
                    100
                              •Scil_scict007049.1 | OG0 |
          80
                              •Gracom_Gcom_C560632_01 | OG0 |
                       •Plespi_Pspi_scaffold20718_01 | OG0 |
                           •Tetwil_g24147.t2 | OG0 |
                    100
                          ·Stycar_maker-SC_scaffold3296-snap-gene-0.42-mRNA-1 | OG0 |
             100
                 90
                           -Spolac_c103376_g2_i1_m.33941c103376-g2 | OG0 |
                             Emue_Em0019g115a.t1 | OG0 |
                                   •Emue_Em0551g9a.t1 | OG0 |
               97
                        Xestes_augustus_masked-XT_scaffold154120-processed-gene-0.2-mRNA-1 | OG0 |
                         -Halamb_c16711_g1_i1m.2841 | OG0 |
                  100
                              •Halamb_c24013_g1_i1m.4384 | OG0 |
                     100
        61
                             -Halamb_c55666_g1_i1m.41410 | OG0 |
                             Aque_Aqu2.1.35204_001 | OG0 |
                          <sup>100</sup>1-Aque_Aqu2.1.32206_001 | OG0 |
                      TrH2 TrispH2 000345-RA | OG0 |
                   <sup>100</sup>Tadh_TriadT30133 | OG0 |
                       •HoiH11_mRNA4301 | OG0 |
                100
                           <sub>]</sub>•HoiH23_PIH23_000398-RA | OG0 |
                        <sup>[100]</sup>-HoiH06_mRNA8480 | OG0 |
                           <sub>•</sub>Hhon_g06957.t1 | OG0 |
                        <sup>100</sup> HoiH04_mRNA6140 | OG0 |
          95
                        -Lampan_Lpan_2676_01 | OG0 |
                            Eupdun_Edun_sb10617223 | OG0 |
                         <sup>1001</sup>-Eupdun_Edun_sb10617224 | OG0 |
                            Vmul sbMO447702 | OG0 |
                            Coemet_Cmet_scaffold14844_01 | OG0 |
                 100
                         1001 Coeast_Cast_sb780267 | OG0 |
                                <sub>f</sub>Pbac_sb2660724 | OG0 |
                            <sup>100</sup> Pbac sb2661244 | OG0 |
                    78
                               Pbac sb2669344 | OG0 |
                                  Horcal_Hcv1.av93.c12.g487.i1 | OG0 |
                                74 Pbac sb2656950 | OG0 |
                              •Mlei_ML2189.g37.i1 | OG0 |
                              •Lampan_Lpan_8642_01 | OG0 |
                                 Beraby Baby sb344456 | OG0 |
                                   Drygla_Dgla_sb279254 | OG0 |
                                  Mertsp_Mesp_sb549576 | OG0 |
                               Bolinf_Binf_sb1235099 | OG0 |
```