```
•Dpul mRNA14824 | OG0 |
                       96
                    100 Clacor Ccor scaffold7445_01 | OG0 |
                            •Lcom_lcpid36420 | OG0 |
          100
                                  •Gracom_Gcom_C559848_01 | OG0 |
                    100
                                      Leuniv Lniv scaffold4495 01 | OG0 |
                                 Leuniv Lniv scaffold4496 01 | OG0 |
                              <sup>1001</sup>Leuniv_Lniv_scaffold4494_01 | OG0 |
                     •Codhol_EP00042_Codosiga_hollandica_P048902 | OG0 |
                    Salurc EP00051 Salpingoeca urceolata P007030 | OG0 |

    Saldol EP00054 Salpingoeca dolichothecata P026243 | OG0 |

     98
                     Salkve_EP00050_Salpingoeca_kvevrii_P000694 | OG0 |
                        Salkve_EP00050_Salpingoeca_kvevrii_P000697 | OG0 |
       68
                                         Salpun_EP00053_Salpingoeca_punica_P011347 | OG0 |
                                Salmac EP00052 Salpingoeca macrocollata P026515 | OG0 |
                           1001 Salmac EP00052 Salpingoeca macrocollata P026516 | OG0 |
                                     Salinf EP00049 Salpingoeca infusionum P008121 | OG0 |
                                        Salinf EP00049 Salpingoeca infusionum P008123 | OG0 |
                     99
                                 Microa_EP00043_Microstomoeca roanoka P014731 | OG0 |
            73
                         100
                                Sros EGD79408 | OG0 |
                  100
                                      •Mbre EDQ90450 | OG0 |
                                    -Choper_EP00045_Choanoeca_perplexa_P009251 | OG0 |
                         100
                                     Chofle_EP00730_Choanoeca_flexa_P003765 | OG0 |
                             100
              39
                                           •Chofle_EP00730_Choanoeca_flexa_P003766 | OG0 |
                                    Mylflu EP00047 Mylnosiga fluctuans P014175 | OG0 |
                                        Didcos EP00039 Didymoeca costata P012183 | OG0 |
                                        Didcos_EP00039_Didymoeca_costata_P012182 | OG0 |
                                   100
                65
                                           Didcos_EP00039_Didymoeca_costata_P012185 | OG0 |
                                        1001_-Didcos EP00039_Didymoeca_costata_P012184 | OG0 |
                   100
                                           Diagra EP00040 Diaphanoeca grandis P009082 | OG0 |
                                            Acaspe EP00035 Acanthoeca spectabilis P014217 | OG0 |
                      100
                                   100
                                          •Helnan_EP00037_Helgoeca_nana_P034017 | OG0 |
                                           •Stedip_EP00041_Stephanoeca_diplocostata_P010424 | OG0 |
                                      100 Stedip_EP00041_Stephanoeca_diplocostata_P010423 | OG0 |
             •Plajan Pjan C567398 01 | OG0 |
                Opea EP00118 Oscarella pearsei P011994 | OG0 |
     100
             <sup>100</sup> Ocar g750 | OG0 |
          100
               Opea_EP00118_Oscarella_pearsei_P011995 | OG0 |
                       Opea_EP00118_Oscarella_pearsei_P011993 | OG0 |
             100
                      Opea EP00118 Oscarella pearsei P011996 | OG0 |
                Eupdun Edun sb10645638 | OG0 |
                     Coeast_Cast_sb754275 | OG0 |
                      -Coeast_Cast_sb762074 | OG0 |
           100
                   <sup>73</sup> Coemet_Cmet_scaffold20836_01 | OG0 |
                     Horcal Hcv1.av93.c12.g83.i1 | OG0 |
              97
   55
                  <sup>100</sup>Pbac sb2664893 | OG0 |
                      •Lampan Lpan 4919 01 | OG0 |
                99
                        -Mertsp_Mesp_sb612415 | OG0 |
                  90
                          •Drygla_Dgla_sb285912 | OG0 |
                    99
                             -Bolinf Binf sb1247584 | OG0 |
                          88 -Mlei ML0914.g2.i1 | OG0 |
                             Beraby Baby sb332871 | OG0 |
                           <sup>1001</sup>Beraby Baby sb332872 | OG0 |
                    Plespi_Pspi_scaffold12877_01 | OG0 |
     46
                      Stycar maker-SC scaffold719-snap-gene-0.10-mRNA-1 | OG0 |
                100
                       •Tetwil g11276.t2 | OG0 |
           100
                            •Halamb_c55536_g1_i2mm.6616 | OG0 |
                             •Halamb_c51015_g1_i2m.29594 | OG0 |
              99
                      100
                              <sub>!</sub>Aque_Aqu2.1.06244_001 | OG0 |
                           <sup>1001</sup>-Aque_Aqu2.1.41226_001 | OG0 |
                        Emue Em0022g62a.t1 | OG0 |
                          Spolac_c102494_g5_i3_m.29573c102494-g5 | OG0 |
                     100
                             •Spolac_c102494_g5_i1_m.29571c102494-g5 | OG0
                          <sup>78L</sup>-Spolac_c102494_g5_i2_m.29572c102494-g5 | OG0 |
                      <sub>[</sub>TrH2_TrispH2_005478-RA | OG0 |
                   <sup>1001</sup>Tadh_TriadT25051 | OG0 |
       43
                         Hhon g06326.t1 | OG0 |
                 100
                          HoiH04_mRNA2974 | OG0 |
                         98<sup>1</sup>HoiH04_mRNA11705 | OG0 |
                        <sub>r</sub>HoiH23_PIH23_004962-RA | OG0 |
                          <sub>e</sub>HoiH06_mRNA570 | OG0 |
                              HoiH23 PIH23 011624-RA | OG0 |
                                     •HoiH11_mRNA8544 | OG0 |
                       -Hsap_ENST00000264499 | OG0 |
                        -Bralan_BLAG06000303_1 | OG0 |
                           Spur XM 030981205.1 | OG0 |
         76
                          Skow_XM_006819802.1 | OG0 |
                         Ctel gnl WGS_AMQN_CAPTEDRAFT_mRNA117810 | OG0 |
                          •Acagra_model.g13231.t1 | OG0 |
                  100
                           Cgig_XM_034447380.1 | OG0 |
                                  •Tcas_TC007126_001 | OG0 |
                          Cscu_XM_023362200.1 | OG0 |
                               -Cscu_XM_023362201.1 | OG0 |
                          •Hvul_g8343_1 | OG0 |
           86
                             Chem_TCONS_00026974 | OG0 |
                   100
                               •Hvul_g8339_1 | OG0 |
                100
                        •Morvir_scaffold6.g193.t1 | OG0 |
                          •Sanmal_Sma_011306-T1 | OG0 |
                   93
                              <sub>-</sub>-Nemnom_g7380.t1 | OG0 |
                     100
                           <sup>1001</sup>•Rhoesc_Res_017393-T1 | OG0 |
                        100
                                •Aaur_scaffold499.g6.t1 | OG0 |
             99
                           <sup>100</sup><sup>1</sup>-Aaur_scaffold499.g8.t1 | OG0 |
                       Dgig XM 028545548.1 | OG0 |
                   <sup>100</sup><sup>1</sup>⊸Xesp_014446-T1 | OG0 |
                        •Exapal_XM_021048548.2 | OG0 |
                100
                         •Nvec_v1g148193 | OG0 |
                           -Spis_XP_022787089_1 | OG0 |
                   99
                        Fspp_ffun1.m4.15527.m1 | OG0 |
                     100
                             -Gasp_gasp1.m3.12585.m1 | OG0 |
                             •Gfas_gfas1.m1.13925.m1 | OG0 |
                               Amil Amillepora08428-RA | OG0 |
                            <sup>100</sup> Adig XM 015918441.1 | OG0 |
0.416667
```