```
•Mylflu_EP00047_Mylnosiga_fluctuans_P002789 | OG1 |
                        •Codhol_EP00042_Codosiga_hollandica_P059751 | OG1 |
                    Diagra EP00040 Diaphanoeca grandis P025456 | OG2 |
                  Stedip_EP00041_Stephanoeca_diplocostata_P041955 | OG2 |
                    -Acaspe EP00035 Acanthoeca spectabilis P035473 | OG2 |
                    -Helnan EP00037 Helgoeca nana P037600 | OG2 |
     67
                        Saldol_EP00054_Salpingoeca_dolichothecata_P013901 | OG2 |
                                •Helnan_EP00037_Helgoeca_nana_P014081 | OG2 |
                                •Acaspe_EP00035_Acanthoeca_spectabilis_P037261 | OG2 |
                                             -Acaspe EP00035 Acanthoeca spectabilis P033242 | OG2 |
                                             -Helnan EP00037 Helgoeca_nana_P034715 | OG2 |
                    -Salurc_EP00051_Salpingoeca_urceolata_P003354 | OG2 |
                     Salmac EP00052 Salpingoeca macrocollata P008533 | OG2 |
         96
                                        •Mylflu_EP00047_Mylnosiga_fluctuans_P002941 | OG2 |
       59
                       •Didcos_EP00039_Didymoeca_costata_P012427 | OG2 |
                       Salkve EP00050 Salpingoeca kvevrii P007213 | OG2 |
         60
                                                       -Stycar_augustus_masked-SC_scaffold3007-processed-gene-0.29-mRNA-1 | OG2 |
                                                   <sup>100</sup> Stycar_maker-SC_scaffold3007-augustus-gene-0.98-mRNA-1 | OG2 |
                      Lcom_lcpid253364 | OG2 |
                              Salinf EP00049 Salpingoeca infusionum P004660 | OG2 |
             64
                           1001 Salinf EP00049 Salpingoeca infusionum P004662 | OG2 |
                       •Microa_EP00043_Microstomoeca_roanoka_P013981 | OG2 |
         83
                             •Sros_EGD78036 | OG2 |
                        •Mbre EDQ91846 | OG2 |
           74
                     •Chofle EP00730 Choanoeca flexa_P006111 | OG2 |
              82
                 <sup>100</sup>└-Choper EP00045 Choanoeca perplexa P017690 | OG2 |
                    -Coemet_Cmet_scaffold15440 01 | OG0 |
                    -Vmul_Simscaffold4865_01 | OG0
                         Beraby_Baby_sb331894 | OG0 |
                        •Mlei_ML2685.g3.i1 | OG0 |
            100
                       Drygla Dgla_sb283374 | OG0 |
                    <sup>100</sup> Drygla_Dgla_sb283375 | OG0 |
               82
                      •Lampan Lpan C403265 01 | OG0 |
                             •Pbac_sb2647493 | OG0 |
                            •Pbac sb2645295 | OG0 |
                           Horcal Hcv1.av93.c10.g20.i1 | OG0 |
                                 •Pbac_sb2645296 | OG0 |
                                            -Pbac sb2657625 | OG0 |
                Plajan_Pjan_scaffold19308 01 | OG0 |
                          Ocar g9529 | OG0 |
        100
                       Opea_EP00118_Oscarella_pearsei_P010654 | OG0 |
                961Opea_EP00118_Oscarella_pearsei_P010655 | OG0 |
                Clacor Ccor scaffold2180 01 | OG0 |
             100 Clacor_Ccor_scaffold2181_01 | OG0 |
                            Lcom lcpid135657 | OG0 |
        98
                  Lcom_lcpid81917 | OG0 |
                  •Gracom Gcom C552076 01 | OG0 |
          100
                   -Scil scict002366.1 | OG0 |
                   -Leuniv_Lniv_scaffold20162_01 | OG0 |
                         •Scil scict013119.1 | OG0 |
                               -Lcom_lcpid89378 | OG0 |
                              •Gracom Gcom C547648 01 | OG0 |
                            •Clacor_Ccor_scaffold3089_01 | OG0 |
                             •Lcom_lcpid133847 | OG0 |
                   100
                                  •Leuniv_Lniv_scaffold14128_01 | OG0 |
                        100
                                   •Gracom_Gcom_scaffold18508_01 | OG0 |
          84
                                    -Scil_scict011203.1 | OG0 |
                              Opea_EP00118_Oscarella_pearsei_P002303 | OG0 |
      65
                                •Ocar_g7849 | OG0 |
                            -Aque_Aqu2.1.24879_001 | OG0 |
                     <sup>100</sup>-Halamb_c30366_g1_i1m.6238 | OG0 |
                                •Plespi_Pspi_C600936_01 | OG0 |
                   97
                                  -Stycar_maker-SC_scaffold97847-augustus-gene-0.3-mRNA-1 | OG0 |
                     92
                               100 Stycar_maker-SC_scaffold3007-snap-gene-0.117-mRNA-1 | OG0 |
                               •Tetwil_g16674.t1 | OG0 |
                                     Stycar_augustus_masked-SC_scaffold3007-processed-gene-0.33-mRNA-1 | OG0 |
                          68
                                          Spolac c80142 g1 i1 m.2535c80142-g1 | OG0 |
                                            •Emue Em0019g666a.t1 | OG0 |
                                         -Emue_Em0019g664a.t1 | OG0 |
                               100
                                     <sup>[98<sup>†</sup></sup>Spolac_c100280_g1_i2_m.21992c100280-g1 | OG0 |
                                        -Spolac_c100280_g1_i4_m.21993c100280-g1 | OG0 |
                                     <sup>100</sup> - Spolac c100280_g1_i1_m.21991c100280-g1 | OG0 |
                         •Hvul_g9202_1 | OG0
                       •Chem TCONS 00064503 | OG0 |
                 100
                             -Hvul_g9200_1 | OG0 |
              90
                         •Morvir scaffold235.g6.t1 | OG0 |
                         Aaur scaffold823.g2.t1 | OG0 |
                89
                          •Sanmal_Sma_023411-T1 | OG0 |
                         ┌•Rhoesc_Res_004669-T1 | OG0 |
                           Nemnom_g19262.t1 | OG0 |
                                                      •Aaur_scaffold646.g4.t1 | OG0 |
                       •Dgig XM 028537328.1 | OG0 |
                 100
                       •Xesp_021519-T1 | OG0 |
                       •Exapal_XM_021051212.1 | OG0 |
               78
                        Nvec_v1g152665 | OG0
                   48
           99
                     100 Nvec_v1g229104 | OG0 |
                           •Gasp gasp1.m3.7379.m1 | OG0 |
                        Fspp ffun1.m4.7309.m1 | OG0 |
                             •Spis_XP_022796072_1 | OG0 |
                               •Pocdam_XM_027187852.1 | OG0 |
                                 •Gfas_gfas1.m1.17646.m1 | OG0 |
                                <sub>r</sub>-Adig_XM_015892404.1 | OG0 |
                                  -Amil Amillepora26825-RA | OG0 |
                                <sup>100</sup> Adig_XM_015894429.1 | OG0 |
                                TrH2_TrispH2_003130-RA | OG0 |
             76
                             <sup>100</sup> Tadh_TriadT51809 | OG0 |
                              HoiH23_PIH23_009091-RA | OG0 |
                            <sup>99</sup> HoiH06 mRNA7834 | OG0 |
                              <sub>f</sub>Hhon_g03735.t1 | OG0 |
                            61 HoiH04_mRNA15278 | OG0 |
                            <sub>"</sub>HoiH11_mRNA2563 | OG0 |
                                TrH2_TrispH2_003129-RA | OG0 |
                              <sup>99</sup> Tadh_TriadT63490 | OG0 |
                                                        -TrH2_TrispH2_011861-RA | OG0 |
                                                     Tadh_TriadT51810 | OG0 |
                                                   TrH2_TrispH2_003131-RA | OG0 |
                                                       •HoiH23 PIH23 009092-RA | OG0 |
                                                    <sup>100</sup>□•HoiH06_mRNA10536 | OG0 |
                                                       <sub>-</sub>Hhon_g03734.t1 | OG0 |
                                                    <sup>100</sup> HoiH04 mRNA5406 | OG0 |
                          Hsap_ENST00000254976 | OG0 |
                    89
                               •Hsap_ENST00000249647 | OG0 |
                             •Bralan_BLAG04001771_1 | OG0 |
                      63
                                   •Bralan_BLAG04001770_1 | OG0 |
                               Spur_NM_214589.1 | OG0 |
                              Skow XM 006821974.1 | OG0 |
                    66
                                       •Cgig XM 034467492.1 | OG0 |
                                    -Lcom_lcpid247877 | OG0 |
                              <sup>100</sup><sup>L</sup>-Cgig_XM_011419657.3 | OG0 |
                            98
                                     -Acagra_model.g15475.t1 | OG0 |
                                     Lcom | lcpid220883 | OG0 |
                                      •Ctel gnl WGS AMQN CAPTEDRAFT mRNA180292 | OG0 |
                                   -Dpul mRNA25961 | OG0 |
                                    •Tcas_TC010177_001 | OG0 |
                                     Cscu XM 023372831.1 | OG0 |
                                             -Cscu XM 023357452.1 | OG0 |
0.416667
```