```
75
                             •Mylflu_EP00047_Mylnosiga_fluctuans_P024169 | OG0 |
                                                                 -Salurc_EP00051_Salpingoeca_urceolata_P006526 | OG0 |
                           Sros EGD73512 | OG0 |
    91
                   100
                           •Microa EP00043_Microstomoeca_roanoka_P010573 | OG0 |
                                        -Mbre EDQ87014 | OG0 |
         99
                                •Chofle_EP00730_Choanoeca_flexa_P015514 | OG0 |
               100
                                Choper_EP00045_Choanoeca_perplexa_P008128 | OG0 |
                      100
                             100<sup>1</sup>-Choper_EP00045_Choanoeca_perplexa_P008129 | OG0 |
                         Salpun_EP00053_Salpingoeca_punica_P018963 | OG1 |
       95
                         -Salmac EP00052 Salpingoeca macrocollata P001799 | OG1 |
                                        •Codhol_EP00042_Codosiga_hollandica_P037343 | OG1 |
                         Didcos EP00039 Didymoeca costata P025114 | OG1 |
                            •Didcos_EP00039_Didymoeca_costata_P025115 | OG1 |
     71
                             -Acaspe EP00035 Acanthoeca spectabilis P032156 | OG1 |
       42
                              -Helnan EP00037 Helgoeca nana P005747 | OG1 |
            100
                       -Stedip_EP00041_Stephanoeca_diplocostata_P015808 | OG1 |
                           Diagra EP00040 Diaphanoeca grandis P028416 | OG1 |
                  Saldol_EP00054_Salpingoeca_dolichothecata_P003140 | OG1 |
                    ·Salurc_EP00051_Salpingoeca_urceolata_P022563 | OG1 |
                                                               •Clacor_Ccor_scaffold11411_01 | OG1 |
                                •Coemet_Cmet_scaffold17948_01 | OG1 |
                          Horcal Hcv1.av93.c1.g1317.i1 | OG1 |
                       100 Pbac sb2666323 | OG1 |
                  100
     70
                             -Lampan_Lpan_C411661_01 | OG1 |
                               •Bolinf_Binf_sb1211675 | OG1 |
                               Drygla_Dgla_sb310478 | OG1 |
                               Bolinf_Binf_sb1229667 | OG1 |
                            <sup>100</sup> Mertsp_Mesp_sb545112 | OG1 |
                               Mlei ML0810.g1.i1 | OG1 |
                            <sup>100</sup> Vmul_sbMO489666 | OG1 |
                           •Ocar_g608 | OG1 |
                   100
                          <sub>!</sub>Plajan_Pjan_scaffold13631_01 | OG1 |
                        <sup>100</sup>lPlajan_Pjan_scaffold13632_01 | OG1 |
                             •Clacor_Ccor_scaffold11621_01 | OG1 |
          95
               99
                             •Lcom_lcpid55763 | OG1 |
                   100
                              -Leuniv_Lniv_scaffold955_01 | OG1 |
                        100
                                 •Gracom_Gcom_scaffold16939_01 | OG1 |
                 96
                             Plespi_Pspi_scaffold4468_01 | OG1 |
                             •Spolac_c101941_g1_i1_m.27357c101941-g1 | OG1 |
                     100
                                  •Stycar_maker-SC_scaffold6868-augustus-gene-0.39-mRNA-1 | OG1 |
                              Xestes_maker-XT_scaffold5466-snap-gene-0.16-mRNA-1 | OG1 |
                                 Aque_Aqu2.1.30544_001 | OG1 |
                             100
                                             Aque_Aqu2.1.05201_001 | OG1 |
                                           <sup>100</sup> Aque_Aqu2.1.05211_001 | OG1 |
                                                                           -Aque_Aqu2.1.22384_001 | OG1 |
                                                                            -Aque Aqu2.1.24731 001 | OG1 |
             95
                       •HoiH11 mRNA2488 | OG1 |
                            Hhon_g01556.t1 | OG1 |
                    100
                          <sup>1001</sup>•HoiH04  mRNA13828 | OG1 |
                               HoiH23_PIH23_002536-RA | OG1 |
                       100
                            <sup>100</sup> HoiH06_mRNA4579 | OG1 |
                              TrH2_TrispH2_002651-RA | OG1 |
                            <sup>100</sup> Tadh_TriadT53474 | OG1 |
                           •Hsap_ENST00000370500 | OG1 |
                            -Bralan BLAG08000450 1 | OG1 |
                               •Skow_XM_002736241.2 | OG1 |
                        90
                                •Spur_XM_030997047.1 | OG1 |
                              •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA167658 | OG1 |
                                  •Lcom_lcpid242015 | OG1 |
                       100
                                 •Cgig_XM_011424115.3 | OG1 |
                                  -Lcom_lcpid243537 | OG1 |
                                  -Acagra model.g31762.t1 | OG1 |
                             Cscu_XM_023357104.1 | OG1 |
                                  Cscu_XM_023388092.1 | OG1 |
                              -Tcas_TC010900_001 | OG1 |
                                •Dpul mRNA27158 | OG1 |
                                    •Dpul_mRNA11087 | OG1 |
                             100
                 86
                                         Dpul_mRNA12219 | OG1 |
                                       100 Dpul_mRNA12221 | OG1 |
                            •Morvir_scaffold345.g12.t1 | OG1 |
                                  -Chem_TCONS_00066749 | OG1 |
                                           •Hvul_g12281_1 | OG1 |
                      95
                                    •Hvul_g12290_1 | OG1 |
                              Nemnom_g5415.t1 | OG1 |
                            <sup>99</sup>-Rhoesc_Res_015769-T1 | OG1 |
                              -Aaur_scaffold543.g3.t1 | OG1 |
                                -Sanmal Sma 022045-T1 | OG1 |
                   85
                                                   -Aaur_scaffold1251.g5.t1 | OG1 |
                            -Dgig_XM_028551964.1 | OG1 |
                        100 -Xesp_008336-T1 | OG1 |
                             ⊢•Exapal_XM_021048755.1 | OG1 |
                         <sup>100</sup> -Nvec_v1g118178 | OG1 |
                               •Gfas_gfas1.m1.2740.m1 | OG1 |
                       97
                                 Amil Amillepora00146-RA | OG1 |
                               <sup>100</sup> Adig_XM_015903159.1 | OG1 |
                              Gasp_gasp1.m3.1027.m1 | OG1 |
                                Fspp_ffun1.m4.5464.m1 | OG1 |
                                  _Spis_XP_022783856_1 | OG1 |
                                 <sup>91</sup>-Pocdam XM 027186040.1 | OG1 |
0.416667
```

Salkve EP00050 Salpingoeca kvevrii P016247 | OG0 |