```
Salkve EP00050 Salpingoeca kvevrii P017714 | OG0 |
                         Salkve_EP00050_Salpingoeca_kvevrii_P017715 | OG0 |
                      Salmac_EP00052_Salpingoeca_macrocollata_P012968 | OG0 |
  39
                   -Salpun_EP00053_Salpingoeca_punica_P018524 | OG0 |
                          Mylflu EP00047 Mylnosiga fluctuans P020776 | OG0 |
                            -Mylflu EP00047 Mylnosiga fluctuans P020777 | OG0 |
46
                                   Salinf EP00049 Salpingoeca infusionum P013824 | OG0 |
                                100<sup>1</sup>-Salinf EP00049_Salpingoeca_infusionum_P013827 | OG0 |
                             Sros EGD82853 | OG0 |
                    100
                                •Microa EP00043 Microstomoeca roanoka P017142 | OG0 |
       100
                                     •Mbre EDQ88283 | OG0 |
                                 Choper EP00045 Choanoeca perplexa P001852 | OG0 |
                   100
                                   Chofle_EP00730_Choanoeca_flexa_P005272 | OG0 |
                          100
                                           •Chofle_EP00730_Choanoeca_flexa_P005269 | OG0 |
                                100
                                       Chofle EP00730 Choanoeca flexa P005271 | OG0 |
                      Salurc EP00051 Salpingoeca urceolata P011895 | OG1 |
                          Didcos EP00039 Didymoeca costata P024826 | OG1 |
                           Diagra_EP00040_Diaphanoeca_grandis_P017456 | OG1 |
       84
                                 •Acaspe EP00035_Acanthoeca_spectabilis_P009729 | OG1 |
            88
                          100
                                 •Helnan EP00037 Helgoeca nana P036706 | OG1 |
                  100
                                           Stedip EP00041 Stephanoeca diplocostata P016832 | OG1 |
                                      Stedip EP00041 Stephanoeca diplocostata P016833 | OG1 |
                                  99 Stedip_EP00041_Stephanoeca_diplocostata_P016834 | OG1 |
  28
                           •Codhol_EP00042_Codosiga_hollandica_P028955 | OG1 |
                       100<sup>1</sup>-Codhol EP00042 Codosiga_hollandica_P028956 | OG1 |
                          Lcom | lcpid85707 | OG1 |
                             Lcom | lcpid84037 | OG1 |
                          <sup>100</sup> Lcom_lcpid63512 | OG1 |
    31
             98
                                  •Leuniv_Lniv_scaffold12386_01 | OG1 |
                                    •Gracom Gcom scaffold15095 01 | OG1 |
                                      •Scil scict012883.1 | OG1 |
                       Salpun EP00053 Salpingoeca punica P011193 | OG1 |
        79
                                 -Cscu_XM_023356604.1 | OG1 |
                   99
                                    •Tcas_TC004647_001 | OG1 |
                       100
                                           •Dpul mRNA434 | OG1 |
          50
                                        Clacor Ccor scaffold4770 01 | OG1 |
                                     100 Clacor_Ccor_scaffold4771_01 | OG1 |
                             Bralan_BLAG13101158_1 | OG1 |
                               •Hsap_ENST00000371839 | OG1 |
             82
                               •Ctel gnl WGS AMQN CAPTEDRAFT mRNA108910 | OG1 |
                   88
                                 Acagra model.g7453.t1 model.g7454.t1.1.5d400882 | OG1 |
                                 •Cgig XM 011438840.3 | OG1 |
                      95
                             Skow XM 006816069.1 | OG1 |
                                    •Spolac_c112428_g1_i1_m.46050c112428-g1 | OG1 |
               69
                                 Spur XM 030996164.1 | OG1 |
                              <sup>100</sup> Spur XM_030996104.1 | OG1 |
                                        •Xesp 000298-T1 | OG1 |
                                      •Dgig_XM_028550487.1 | OG1 |
                             100
                                      -Xesp_000299-T1 | OG1 |
                        86
                                     •Chem TCONS 00071917 | OG1 |
                                   •Morvir scaffold448.g4.t1 | OG1 |
                 50
                                       •Sanmal Sma 007525-T1 | OG1 |
                                     -Nemnom_g1841.t1 | OG1 |
                               100
                      95
                                  <sup>100</sup>-Rhoesc Res_012007-T1 | OG1 |
                                 Exapal XM 021040417.2 | OG1 |
                                •Nvec v1g160416 | OG1 |
                                -Amil Amillepora22565-RA | OG1 |
                        100
                                 •Gfas_gfas1.m1.20376.m1 | OG1 |
                                   •Gasp_gasp1.m3.28682.m1 | OG1 |
                                      •Fspp ffun1.m4.11028.m1 | OG1 |
                                       -Spis XP 022803519 1 | OG1 |
                                    <sup>1001</sup>•Pocdam XM_027204503.1 | OG1 |
                                 •Plajan_Pjan_scaffold20109_01 | OG1 |
                              <sup>100</sup>-Plajan_Pjan_scaffold20110_01 | OG1 |
                                    Opea_EP00118_Oscarella_pearsei_P013862 | OG1 |
                         100
                                     Opea_EP00118_Oscarella_pearsei_P013860 | OG1 |
                                        -Opea EP00118 Oscarella pearsei P013859 | OG1 |
                                     71 Opea_EP00118_Oscarella_pearsei_P013861 | OG1 |
                                     •Plespi_Pspi_scaffold20216_01 | OG1 |
                                     •Spolac c78050 g1 i1 m.2000c112428-g1 | OG1 |
                            90
                                     Stycar maker-SC scaffold95184-augustus-gene-0.5-mRNA-1 | OG1 |
                                  Stycar_maker-SC_scaffold1966-snap-gene-0.74-mRNA-1 | OG1 |
                          86
                                         -Xestes_maker-XT_scaffold4275-augustus-gene-0.28-mRNA-1 | OG1 |
                                         <sub>•</sub>Halamb_c37593_g2_i2m.10189 | OG1 |
                               100
                                       <sup>991</sup>•Halamb_c37593_g1_i1m.10188 | OG1 |
                                          -Aque_Aqu2.1.11354_001 | OG1 |
                                  99
                                           -Aque_Aqu2.1.07652_001 | OG1 |
                                             Aque_Aqu2.1.25027_001 | OG1 |
                                           <sup>77</sup> -Aque_Aqu2.1.13489_001 | OG1 |
                                            TrH2_TrispH2_008097-RA | OG1 |
                                         <sup>100</sup><sup>1</sup>Tadh_TriadT28493 | OG1 |
                                           -HoiH11_mRNA3741 | OG1 |
                                      100
                                             <sub>[</sub>+HoiH23_PIH23_008360-RA | OG1 |
                                               -HoiH06_mRNA9359 | OG1 |
                                                 <sub>_</sub>Hhon_g06849.t1 | OG1 |
                                               <sup>991</sup>-HoiH04_mRNA13387 | OG1 |
                          65
                                      •Vmul_SimC402686 | OG1 |
                                         •Coemet_Cmet_scaffold17514_01 | OG1 |
                                        <sub>•</sub>Lampan_Lpan_9364_01 | OG1 |
                                     <sup>1001</sup>-Lampan_Lpan_9365_01 | OG1 |
                               100
                                           -Mlei_ML1117.g12.i1 | OG1 |
                                  100
                                            Beraby_Baby_sb345262 | OG1 |
                                          Pbac_sb2653623 | OG1 |
                                             Pbac_sb2662569 | OG1 |
                                               Horcal_Hcv1.av93.c6.g1151.i2 | OG1 |
                                                Horcal_Hcv1.av93.c6.g1151.i4 | OG1 |
                                                  Horcal_Hcv1.av93.c6.g1151.i3 | OG1 |
                                                 1-Horcal_Hcv1.av93.c6.g1151.i1 | OG1 |
```

0.416667