```
Didcos_EP00039_Didymoeca_costata_P001888 | OG0 |
                   Diagra_EP00040_Diaphanoeca_grandis_P019628 | OG0 |
       100
                   Stedip_EP00041_Stephanoeca_diplocostata_P027332 | OG0 |
          100
                       •Helnan_EP00037_Helgoeca_nana_P006856 | OG0 |
                       -Acaspe EP00035 Acanthoeca spectabilis P038474 | OG0 |
 100
                  -Salkve_EP00050_Salpingoeca_kvevrii_P011126 | OG0 |
                     •Codhol_EP00042_Codosiga_hollandica_P056883 | OG0 |
               Saldol_EP00054_Salpingoeca_dolichothecata_P023022 | OG0 |
    34
                    •Mylflu_EP00047_Mylnosiga_fluctuans_P017363 | OG0 |
                     -Salpun_EP00053_Salpingoeca_punica_P018610 | OG0 |
      26
                        Salmac EP00052 Salpingoeca macrocollata P028272 | OG0 |
        48
                   Salurc_EP00051_Salpingoeca_urceolata_P023580 | OG0 |
                      •Lcom_lcpid200169 | OG0 |
           59
                           -Mbre_EDQ92857 | OG0 |
                           •Choper EP00045 Choanoeca_perplexa_P009919 | OG0 |
             98
                           •Chofle EP00730 Choanoeca flexa P006315 | OG0 |
               91
                               Salinf EP00049 Salpingoeca infusionum P025885 | OG0 |
                                    •Microa_EP00043_Microstomoeca_roanoka_P014056 | OG0 |
                  95
                                       •Sros_EGD82069 | OG0 |
                             •Tadh TriadT54641 | OG1 |
                          <sup>100</sup>TrH2 TrispH2_009876-RA|OG1|
                            -HoiH11_mRNA2286 | OG1 |
                       100
                                 •HoiH06_mRNA2683 | OG1 |
                              <sup>991</sup>•HoiH23_PIH23_000483-RA | OG1 |
                                 Hhon g01190.t1 | OG1 |
                               <sup>100</sup> HoiH04 mRNA10688 | OG1 |
                      <sub>[</sub>-Vmul_Simscaffold13935_01 | OG1 |
                         Coemet_Cmet_scaffold11458_01 | OG1 |
                            <sub>!</sub>Coeast_Cast_sb798943 | OG1 |
                      100
                         <sup>1001</sup>•Coeast_Cast_sb798944 | OG1 |
                100
                     -Lampan Lpan 459 01 | OG1 |
                       -Mlei_ML0096.g16.i1 | OG1 |
                             Drygla Dgla sb303000 | OG1 |
                         <sup>100</sup>Drygla_Dgla_sb303001 | OG1 |
                            Horcal Hcv1.av93.c2.g406.i1 | OG1 |
                               Pbac sb2664020 | OG1 |
 100
                             <sup>1001</sup>-Pbac_sb2664019 | OG1 |
      64
                      •Plajan_Pjan_C571338_01 | OG1 |
                      <u>r</u>Opea_EP00118_Oscarella_pearsei_P004197 | OG1 |
               100
                    <sup>100</sup> Ocar g9917 | OG1 |
           99
                   Clacor_Ccor_scaffold6619_01 | OG1 |
                     •Lcom_lcpid23126 | OG1 |
             100
                         •Scil_scict007085.1 | OG1 |
                 100
                           •Leuniv_Lniv_scaffold10022_01 | OG1 |
        82
                           •Gracom_Gcom_scaffold18374_01 | OG1 |
                       •Plespi Pspi scaffold20533 01 | OG1 |
                               -Stycar_maker-SC_scaffold4928-snap-gene-0.10-mRNA-1 | OG1 |
                                         Stycar_maker-SC_scaffold136697-snap-gene-0.65-mRNA-1 | OG1 |
            100
                          •Emue_Em0229g6a.t1 | OG1 |
               91
                            -Spolac c104570 g1 i1 m.41465c104570-g1 | OG1 |
                         <sup>100</sup> Emue Em0017g790a.t1 | OG1 |
    68
                 99
                                  Xestes_maker-XT_scaffold52261-augustus-gene-0.3-mRNA-1 | OG1 |
                          <sup>100</sup>L•Xestes_augustus_masked-XT_scaffold174428-processed-gene-0.1-mRNA-1 | OG1 |
                             •Halamb_c56542_g1_i2m.43611 | OG1 |
                             •Aque Aqu2.1.42059 001 | OG1 |
                   •Acagra model.g9812.t1 | OG1 |
             100
                  •Cgig_XM_011433099.3 | OG1 |
           63
                   Skow_XM_002741687.2 | OG1 |
                       Spur_XM_011671934.2 | OG1 |
        100
                     •Hsap ENST00000599848 | OG1 |
                   Bralan BLAG02001507 1 | OG1 |
                      •Cscu XM 023370353.1 | OG1 |
           69
                       —•Dpui_mRNA24545 | OG1 |
                  99 Tcas_TC000192_001 | OG1 |
                  -Hvul_g30954_1 | OG1 |
      98
              <sup>100</sup> Chem TCONS_00012028 | OG1 |
                   •Morvir_scaffold22.g101.t1 | OG1 |
           100
                      -Aaur_scaffold1755.g3.t1 | OG1 |
              100
                       <sub>]</sub>•Nemnom_g3426.t1 | OG1 |
                    <sup>1001</sup>•Rhoesc_Res_017630-T1 | OG1 |
                 -Xesp 028830-T1 | OG1 |
        98
                      Dgig_XM_028562961.1 | OG1 |
              100
                    <sup>55</sup> Dgig XM 028555545.1 | OG1 |
                 100 Dgig_XM_028562874.1 | OG1 |
                    1 Dgig_XM_028562855.1 | OG1 |
                      1<sup>†</sup> <sub>J</sub>Dgig_XM_028562954.1 | OG1 |
           100
                       <sup>1</sup>•Dgig_XM_028562971.1 | OG1 |
                     -Exapal_XM_021049252.2 | OG1 |
                 <sup>100</sup>-Nvec_NVE10422 | OG1 |
                    <sub>"</sub>Spis_XP_022780359_1 | OG1 |
              100
                      Pocdam XM 027180959.1 | OG1 |
                           •Gasp_gasp1.m3.14680.m1 | OG1 |
                        96 Fspp_ffun1.m4.9284.m1 | OG1 |
                          <sub>-</sub>-Amil_Amillepora02947-RA | OG1 |
                        99<sup>1</sup>-Gfas gfas1.m1.14653.m1 | OG1 |
0.416667
```