```
Didcos EP00039 Didymoeca costata P030549 | OG0 |
                   Diagra EP00040 Diaphanoeca grandis P025823 | OG0 |
     100
                     •Acaspe_EP00035_Acanthoeca_spectabilis_P023489 | OG0 |
                      •Helnan_EP00037_Helgoeca_nana_P006597 | OG0 |
            100
                        Stedip_EP00041_Stephanoeca_diplocostata_P013412 | OG0 |
                          Stedip EP00041 Stephanoeca diplocostata P013414 | OG0 |
 100
                        •Codhol_EP00042_Codosiga_hollandica_P021083 | OG0 |
                   Salmac_EP00052_Salpingoeca_macrocollata_P025440 | OG0 |
                   Mylflu_EP00047_Mylnosiga_fluctuans_P002304 | OG0 |
        95
          92
                   Salpun EP00053 Salpingoeca punica P006292 | OG0 |
   95
                         Saldol EP00054 Salpingoeca dolichothecata P016975 | OG0 |
            46
                            -Salurc_EP00051_Salpingoeca_urceolata_P029751 | OG0 |
      59
                                    •Salkve_EP00050_Salpingoeca_kvevrii_P000570 | OG0 |
          48
                              <sup>100]</sup>Salkve EP00050_Salpingoeca_kvevrii_P000572 | OG0 |
                    100
                         Salkve EP00050 Salpingoeca kvevrii P000567 | OG0 |
                               -Salkve EP00050 Salpingoeca kvevrii P000569 | OG0 |
        55
                           -Salinf_EP00049_Salpingoeca_infusionum_P018491 | OG0 |
                           Microa_EP00043_Microstomoeca_roanoka_P009245 | OG0 |
                 98
                              Sros EGD72823 | OG0 |
              100
                          Mbre EDQ90015 | OG0 |
                          Choper EP00045 Choanoeca perplexa P000652 | OG0 |
                            •Chofle_EP00730_Choanoeca_flexa_P001101 | OG0 |
                               •Chofle_EP00730_Choanoeca_flexa_P001103 | OG0 |
                             Lcom_lcpid154734 | OG0 |
                        Eupdun Edun sb10654121 | OG0 |
                              Horcal Hcv1.av93.c3.g416.i1 | OG0 |
    82
                           <sup>100</sup> Pbac_sb2651512 | OG0 |
                              -Lampan_Lpan_C407039_01 | OG0 |
               100
                                 •Vmul_Simscaffold10108_01 | OG0 |
                        80
                                   •Coeast_Cast_sb760435 | OG0 |
                                <sup>100</sup> Coemet_Cmet_C589115_01 | OG0 |
                   82
                          •Mlei_ML0346.g44.i1 | OG0 |
                               Bolinf Binf sb1246517 | OG0 |
                             <sup>961</sup>Mertsp_Mesp_sb565983 | OG0 |
                      66
                                Bolinf Binf sb1246518 | OG0 |
                             <sup>1001</sup>Mertsp_Mesp_sb565982 | OG0 |
 100
                                   •Drygla_Dgla_sb278619 | OG0 |
                        39
                                 Beraby Baby sb340837 | OG0 |
                              Bolinf_Binf_sb1266782 | OG0 |
                                  Mertsp_Mesp_sb581651 | OG0 |
                                    Bolinf_Binf_sb1266781 | OG0 |
                                  <sup>20</sup>1-Mertsp_Mesp_sb581652 | OG0 |
                    •Tcas_TC011042_001 | OG0 |
                    Clacor Ccor scaffold11419_01 | OG0 |
                       •Lcom | lcpid65300 | OG0 |
          100
                           Gracom_Gcom_C538492_01 | OG0 |
   98
                         •Leuniv_Lniv_C798658_01 | OG0 |
                       Cscu_XM_023361535.1 | OG0 |
           73
                         •Dpul_mRNA8889 | OG0 |
      89
                    •Bralan BLAG01000605 1 | OG0 |
            88
                     Spur_XM_030994666.1 | OG0 |
                        •Dgig_XM_028557718.1 | OG0 |
                        •Xesp_011300-T1 | OG0 |
        72
                             •Morvir_scaffold213.g24.t2 | OG0 |
                              •Hvul_g27865_1 | OG0 |
                       100
                                 Chem_TCONS_00004647 | OG0 |
              76
                  89
                              Sanmal Sma 001347-T1 | OG0 |
                               •Aaur_scaffold7.g38.t3 | OG0 |
                               •Nemnom_g6021.t1 | OG0 |
          88
                           <sup>100</sup><sup>1</sup>-Rhoesc Res_008505-T1 | OG0 |
                98
                             •Exapal_XM_021058479.1 | OG0 |
                             •Nvec_v1g228910 | OG0 |
                            -Spis_XP_022781395_1 | OG0 |
                         <sup>1001</sup>-Pocdam_XM_027195837.1 | OG0 |
                              Fspp ffun1.m4.11098.m1 | OG0 |
                      100
                               •Gasp_gasp1.m3.15204.m1 | OG0 |
                               •Gfas_gfas1.m1.21289.m1 | OG0 |
            26
                                   -Amil_Amillepora19838-RA | OG0 |
                               <sup>100</sup> Adig_XM_015903666.1 | OG0 |
                           •Plespi_Pspi_C600458_01 | OG0 |
                                Xestes_augustus_masked-XT_scaffold693-processed-gene-0.2-mRNA-1 | OG0 |
                                 -Aque_Aqu2.1.22145_001 | OG0 |
                      100
                87
                                 -Halamb_c52835_g1_i2m.34078 | OG0 |
                  97
                           •Tetwil_g26892.t1 | OG0 |
                             Stycar maker-SC scaffold111022-augustus-gene-0.4-mRNA-1 | OG0 |
                          <sup>1001</sup>•Stycar_maker-SC_scaffold5347-snap-gene-0.172-mRNA-1 | OG0 |
                               •Emue_Em0023g728a.t1 | OG0 |
                       99
                                 -Spolac_c97218_g2_i1_m.14537c97218-g2 | OG0 |
              28
                                   Spolac_c97218_g2_i2_m.14538c97218-g2 | OG0 |
                                 84<sup>1</sup>Spolac_c97218_g2_i3_m.14539c97218-g2 | OG0 |
                           •Acagra_model.g24808.t1 | OG0 |
                                    Opea_EP00118_Oscarella_pearsei_P019243 | OG0 |
                   88
                                       Opea_EP00118_Oscarella_pearsei_P019247 | OG0 |
                                      Opea_EP00118_Oscarella_pearsei_P019248 | OG0 |
                                    88 Ocar_g4955 | OG0 |
                38
                           Skow_XM_002736968.2 | OG0 |
                             •Cgig_XM_011415765.3 | OG0 |
                                •Hsap_ENST00000441448 | OG0 |
                     69
                                     -Lcom_lcpid210213 | OG0 |
                                     TrH2_TrispH2_003719-RA | OG0 |
                       65
                                  <sup>100</sup> Tadh_TriadT56868 | OG0 |
                                      -HoiH11_mRNA4387 | OG0 |
                               100
                                        <sub>"</sub>HoiH23_PIH23_004344-RA | OG0 |
                                        -HoiH06_mRNA9352 | OG0 |
                                         Hhon_g10754.t1 | OG0 |
                                      <sup>100</sup> HoiH04 mRNA4364 | OG0 |
0.416667
```