```
Codhol EP00042 Codosiga hollandica P021020 | OG0 |
                                    981 Codhol EP00042 Codosiga hollandica P052263 | OG0 |
                                     •Choper_EP00045_Choanoeca_perplexa_P017341 | OG0 |
 74
                                       •Chofle_EP00730_Choanoeca_flexa_P002822 | OG0 |
   92
                               •Microa EP00043 Microstomoeca roanoka P013898 | OG0 |
            100
                                  •Sros EGD79041 | OG0 |
                                               •Codhol_EP00042_Codosiga_hollandica_P035513 | OG1 |
                              Salkve EP00050 Salpingoeca kvevrii P020850 | OG1 |
                                 Didcos_EP00039_Didymoeca_costata_P006165 | OG1 |
   85
                                 Diagra EP00040 Diaphanoeca grandis P037496 | OG1 |
      67
                                         -Stedip EP00041 Stephanoeca diplocostata P003906 | OG1 |
                 100
                                         •Acaspe_EP00035_Acanthoeca_spectabilis_P009961 | OG1 |
                     100
                                             Helnan_EP00037_Helgoeca_nana_P014466 | OG1 |
                                          <sup>100</sup>└-•Helnan_EP00037_Helgoeca_nana_P014467 | OG1 |

    Salmac EP00052 Salpingoeca macrocollata P016844 | OG1 |

                         •Lcom | lcpid140408 | OG1 |
           56
                               •Lcom | lcpid184581 | OG1 |
                                 Saldol EP00054 Salpingoeca dolichothecata P030642 | OG1 |
               78
                   59
                                     Salurc_EP00051_Salpingoeca_urceolata_P003027 | OG1 |
                                     •Mylflu EP00047 Mylnosiga fluctuans P003832 | OG1 |
                 49
                                       Salpun_EP00053_Salpingoeca_punica_P018046 | OG1 |
                                       Salmac_EP00052_Salpingoeca_macrocollata_P027680 | OG1 |
                         99
                                       Salmac_EP00052_Salpingoeca_macrocollata_P027678 | OG1 |
                                  100
                                     <sup>931</sup>-Salmac_EP00052_Salpingoeca_macrocollata_P027679 | OG1 |
                               Clacor Ccor C539249 01 | OG2 |
                                                  Leuniv Lniv scaffold11833 01 | OG2 |
                   99
                                               100 Leuniv_Lniv_scaffold11834_01 | OG2 |
                           100
                                                       Lcom_lcpid10968 | OG2 |
                                                    100 Lcom_lcpid9507 | OG2 |
                                         •Plespi_Pspi_C615724_01 | OG2 |
                                    -Xestes_augustus_masked-XT_scaffold55912-processed-gene-0.5-mRNA-1 | OG2 |
                                    •Halamb_c54460_g1_i2mm.5941 | OG2 |
                            100
                99
                                     •Aque_Aqu2.1.36111_001 | OG2 |
      99
                   100
                                       Stycar_augustus_masked-SC_scaffold3421-processed-gene-0.7-mRNA-1 | OG2 |
                            100
                                        •Tetwil g8609.t2 | OG2 |
                      100
                                   -Spolac c103049_g2_i1_m.32239c103049-g1 | OG2 |
                               <sup>100</sup>_-Emue_Em0005g1527a.t1 | OG2 |
                              •Plajan_Pjan_C573248_01 | OG2 |
                                •Ocar_g137 | OG2 |
                   100
                             <sup>100</sup> Opea EP00118_Oscarella_pearsei_P007841 | OG2 |
         98
                                        TrH2 TrispH2 009165-RA | OG2 |
                                     <sup>100</sup> Tadh_TriadT58408 | OG2 |
                                         -HoiH11_mRNA7577 | OG2 |
                                  100
                                              <sub>[</sub>HoiH23_PIH23_004703-RA | OG2 |
                                           <sup>1001</sup>•HoiH06 mRNA5777 | OG2 |
                                         100
                                              Hhon g06700.t1 | OG2 |
               79
                                           <sup>100</sup> HoiH04_mRNA15307 | OG2 |
                                                  Beraby_Baby_sb328822 | OG2 |
           53
                                     Eupdun_Edun_sb10669648 | OG2 |
                                  100 Eupdun Edun_sb10669649 | OG2 |
                         99
                                          •Lampan Lpan 9273 01 | OG2 |
                               93
                                              •Coemet_Cmet_C608410_01 | OG2 |
                                             Horcal_Hcv1.av93.c11.g385.i1 | OG2 |
                                 100
                                          <sup>1001</sup>Horcal_Hcv1.av93.c11.g385.i2 | OG2 |
                                             Beraby_Baby_sb350166 | OG2 |
                                    99
                                         <sup>100</sup> Beraby Baby_sb350165 | OG2 |
                                                Bolinf_Binf_sb1257210 | OG2 |
                                       100
             88
                                             100 Mertsp Mesp sb576199 | OG2 |
                                                Mlei ML0220.g13.i1 | OG2 |
                                             100<sup>1</sup>Vmul_sbMO434498 | OG2 |
                             •Hsap ENST00000520539 | OG2 |
                               •Skow XM 006820978.1 | OG2 |
                 100
                                  •Spur_XM_030974357.1 | OG2 |
                               Bralan_BLAG16000582_2 | OG2 |
                                       Ctel gnl WGS AMQN CAPTEDRAFT mRNA219094 | OG2 |
                                       Acagra model.g18636.t1 | OG2 |
                                100
                                       Cgig XM 034447044.1 | OG2 |
                         100
                                    Cscu XM 023378360.1 | OG2 |
                                         •Tcas_TC014081_001 | OG2 |
                            100
               99
                                         •Dpul mRNA11319 | OG2 |
                                  •Morvir_scaffold273.g25.t1 | OG2 |
                                         •Hvul_g24242_1 | OG2 |
                         100
                                       Sanmal Sma 016523-T1 | OG2 |
                                       -Nemnom_g10843.t1 | OG2 |
                                    <sup>100</sup><sup>1</sup>-Rhoesc_Res_012270-T1 | OG2 |
                  100
                                    •Dgig XM 028549307.1 | OG2 |
                                     •Xesp_002672-T1 | OG2 |
                             Nvec_NVE9722 | OG2 |
                     100
                           90
                                    •Nvec_NVE9721 | OG2 |
                                   •Adig_XM_015917205.1 | OG2 |
                        100
                                   Gfas gfas1.m1.15940.m1 | OG2 |
                                     •Gasp_gasp1.m3.4270.m1 | OG2 |
                                    -Fspp_ffun1.m4.7764.m1 | OG2 |
                                     •Spis_XP_022804576_1 | OG2 |
                                  <sup>100</sup>1-Pocdam XM 027191696.1 | OG2 |
0.416667
```