```
•Codhol EP00042 Codosiga hollandica P042300 | OG0 |
                Salkve_EP00050_Salpingoeca_kvevrii_P012185 | OG0
             100 Salkve_EP00050_Salpingoeca_kvevrii_P012187 | OG0 |
                    Didcos EP00039 Didymoeca costata P023254 | OG0 |
         73
                      Diagra EP00040 Diaphanoeca grandis P004573 | OG0 |
     93
                       Stedip_EP00041_Stephanoeca_diplocostata_P015093 | OG0 |
                       -Acaspe EP00035 Acanthoeca spectabilis P025806 | OG0 |
                   100<sup>1</sup> Helnan EP00037_Helgoeca_nana_P036651 | OG0 |
                      Salpun EP00053 Salpingoeca punica P004992 | OG0 |
       65
                        Mylflu EP00047 Mylnosiga fluctuans P004931 | OG0 |
                     Saldol EP00054 Salpingoeca dolichothecata P006917 | OG0 |
                       -Saldol_EP00054_Salpingoeca_dolichothecata_P006918 | OG0 |
                       -Salmac_EP00052_Salpingoeca_macrocollata_P029257 | OG0 |
                       Salurc EP00051 Salpingoeca urceolata P017941 | OG0 |
                                    Salurc EP00051 Salpingoeca urceolata P017942 | OG0 |
                   •Microa_EP00043_Microstomoeca_roanoka_P008880 | OG0 |
              100
                    •Sros_EGD75217 | OG0 |
                    Salinf_EP00049_Salpingoeca_infusionum_P018766 | OG0 |
           99
                     •Mbre EDQ86874 | OG0 |
              99
                      Chofle EP00730 Choanoeca flexa P014617 | OG0 |
                      Choper_EP00045_Choanoeca_perplexa_P008710 | OG0 |
                              -Choper_EP00045_Choanoeca_perplexa_P008709 | OG0 |
          •Hsap_ENST00000370109 | OG0 |
                •Plajan Pjan C548143 01 | OG0 |
                   Plespi Pspi scaffold11679 01 | OG0 |
             95
                                                     •Hvul_g19028_1 | OG0 |
                    Opea EP00118 Oscarella pearsei P002336 | OG0 |
          55
                  Opea_EP00118_Oscarella_pearsei_P002335 | OG0 |
                <sup>74</sup> Ocar g9334 | OG0 |
     42
                     -Tcas TC014546 001 | OG0 |
         66
                    •Dpul_mRNA7304 | OG0 |
                  •Stycar_maker-SC_scaffold145608-augustus-gene-0.11-mRNA-1 | OG0 |
            99
                       Stycar maker-SC scaffold4309-snap-gene-0.31-mRNA-1 | OG0 |
                         -Halamb c37923 g1 i1m.10416 | OG0 |
                  100
                              -Ague Agu2.1.36263 001 | OG0 |
                           Stycar_maker-SC_scaffold59944-snap-gene-0.3-mRNA-1 | OG0 |
                      •Spolac_c113261_g1_i1_m.46175c111804-g1 | OG0 |
                                 •Spolac_c111804_g1_i1_m.45947c111804-g1 | OG0 |
                     100 Emue Em0008g955a.t1 | OG0 |
                      -Morvir scaffold279.g23.t1 | OG0 |
                               Vmul_Simscaffold5428_01 | OG0 |
                                -Pbac_sb2658064 | OG0 |
                                -Horcal_Hcv1.av93.c2.g339.i1 | OG0 |
                      100
                               <sup>95</sup> Pbac sb2646486 | OG0 |
                                •Drygla_Dgla_sb275824 | OG0 |
                         82
                                    •Mertsp_Mesp_sb614426 | OG0 |
                                    -Lampan_Lpan_12544_01 | OG0 |
                                     <sub>"</sub>Beraby_Baby_sb322721 | OG0 |
                                  <sup>1001</sup> -Beraby_Baby_sb322722 | OG0 |
                                        Mlei_ML0380.g35.i1 | OG0 |
                                     <sup>100</sup> Vmul_sbMO497422 | OG0 |
                                        Bolinf_Binf_sb1237557 | OG0 |
                                         _Mertsp_Mesp_sb551678 | OG0 |
                                        <sup>97</sup> Bolinf_Binf_sb1237558 | OG0 |
             •Ctel gnl WGS AMQN_CAPTEDRAFT_mRNA166705 | OG0 |
              •Skow XM 006819894.1 | OG0 |
                    -Spur_NM_001242662.1 | OG0 |
     45
                     -Cgig XM 034458154.1 | OG0 |
                  <sup>100</sup> Cgig _XM_034458155.1 | OG0 |
           62
                       •Gracom Gcom C550672 01 | OG0 |
                         Leuniv_Lniv_scaffold18809 01 | OG0 |
                  100
                           -Lcom_lcpid84462 | OG0 |
                        100 Lcom_lcpid77976 | OG0 |
         34
                   •Acagra model.g11636.t1 | OG0 |
                      Cscu XM 023379766.1 | OG0 |
                     •Bralan_BLAG13000710_1 | OG0 |
                        +HoiH23 PIH23 004134-RA | OG0 |
           33
                          <sub>*</sub>HoiH06 mRNA10432 | OG0 |
                     100
                               Hhon_g04242.t1 | OG0 |
             36
                        57
                            100 HoiH04 mRNA15374 | OG0 |
                               •TrH2 TrispH2 007700-RA | OG0 |
                            99<sup>1</sup>-HoiH11_mRNA1060 | OG0 |
                            Dgig XM 028535004.1 | OG0 |
               40
                     100
                             -Xesp 010172-T1 | OG0 |
                              •Chem TCONS 00065428 | OG0 |
                                  •Hvul_g19031_1 | OG0 |
                      69
                                 •Aaur_scaffold73.g27.t1 | OG0 |
                 54
                        62
                                        •Morvir scaffold279.g22.t1 | OG0 |
                                    •Aaur scaffold73.g25.t1 | OG0 |
                          87
                                     •Sanmal Sma 011835-T1 | OG0 |
                                     -Nemnom_g12099.t1 | OG0 |
                    48
                                     -Rhoesc_Res_016246-T1 | OG0 |
                              •Exapal XM 028656651.1 | OG0 |
                              -Nvec v1g93189 | OG0 |
                               Gasp gasp1.m3.16066.m1 | OG0 |
                                 <sub></sub>-Fspp_ffun1.m4.906.m1 | OG0 |
                                   --Pocdam_XM_027200254.1 | OG0 |
                                    _Spis_XP_022792434_1 | OG0 |
                         100
                                   98 - Pocdam XM 027186579.1 | OG0 |
                                    •Gfas gfas1.m1.11864.m1 | OG0 |
                                    •Amil_Amillepora33704-RA | OG0 |
                                   Adig_XM_015894814.1 | OG0 |
                                     -Adig_XM_015924770.1 | OG0 |
                                             -Adig XM 015891910.1 | OG0 |
                                           -Adig XM 015895361.1 | OG0 |
0.416667
```

Xestes augustus masked-XT scaffold9968-processed-gene-0.0-mRNA-1 | OG0 |