```
Codhol EP00042 Codosiga hollandica P028399 | OG0
                                                       -Salurc_EP00051_Salpingoeca_urceolata_P003036 | OG0 |
                                      Didcos EP00039 Didymoeca costata P015124 | OG1 |
                                           Diagra_EP00040_Diaphanoeca_grandis_P033029 | OG1 |
             100
                                              Stedip EP00041 Stephanoeca diplocostata P035699 | OG1 |
                    100
                                     Acaspe EP00035 Acanthoeca spectabilis P010710 | OG1 |
                                     •Helnan_EP00037_Helgoeca_nana_P025353 | OG1 |
   33
                         Salinf EP00049 Salpingoeca infusionum P006185 | OG1 |
           100
                      •Microa EP00043 Microstomoeca roanoka P027415 | OG1 |
                100
                     •Sros EGD79179 | OG1 |
        100
                          •Mbre EDQ88883 | OG1 |
                      Chofle_EP00730_Choanoeca flexa P016720 | OG1 |
             100
                   Chofle EP00730 Choanoeca flexa P016721 | OG1
                      Choper EP00045 Choanoeca_perplexa_P011807 | OG1 |

    Saldol EP00054 Salpingoeca dolichothecata P021036 | OG1 |

                       Salurc EP00051 Salpingoeca urceolata P032994 | OG1 |
                         Salkve EP00050 Salpingoeca kvevrii P013813 | OG1 |
         71
                            Salkve EP00050 Salpingoeca kvevrii P013814 | OG1 |
                       Salpun EP00053 Salpingoeca punica P011987 | OG1 |
                              Mylflu EP00047 Mylnosiga fluctuans P003689 | OG1 |
                         Salmac_EP00052_Salpingoeca_macrocollata_P006790 | OG1 |
          80
                             Salmac EP00052 Salpingoeca macrocollata P024927 | OG1
                          <sup>841</sup>⊸Salmac_EP00052_Salpingoeca_macrocollata_P024930 | OG1 |
                             -Salmac EP00052 Salpingoeca macrocollata P024929 | OG1 |
     50
                          98 Salmac EP00052 Salpingoeca_macrocollata_P024931 | OG1 |
                                     •Cscu XM 023384735.1 | OG1 |
                           Lampan Lpan 15158 01 | OG1 |
             65
                             •Mlei ML0325.g23.i1 | OG1 |
                      100
                                  •Pbac sb2664152 | OG1 |
                                  •Mlei ML0925.g1.i1 | OG1 |
                                     Coemet Cmet C597565 01 | OG1 |
                           68
                                    Vmul SimC398098 | OG1 |
                             80
                                    <sub>"</sub>Eupdun_Edun_sb10646455 | OG1 |
                                      Eupdun Edun sb10646454 | OG1
                                    68 Eupdun Edun sb10646452 | OG1 |
                               TrH2 TrispH2 007535-RA | OG1 |
                            100 -Tadh TriadT19734 | OG1 |
                                  Hhon_g07629.t1 | OG1 |
                         100
                               <sup>100</sup> HoiH04 mRNA15075 | OG1 |
                                   -HoiH11 mRNA6552 | OG1 |
                                    -HoiH23_PIH23_002309-RA | OG1 |
                                 <sup>100</sup> HoiH06_mRNA778 | OG1 |
                                  •Xesp_023243-T1 | OG1 |
           83
                                Dgig XM 028560039.1 | OG1 |
                              <sup>100</sup> Dgig _XM_028561845.1 | OG1 |
                                •Exapal_XM_021056058.2 | OG1 |
                  100
                                  Nvec_v1g138317 | OG1 |
                                100 Nvec v1g233737 OG1 |
                               Amil Amillepora13088-RA | OG1 |
                     100
                            <sup>100</sup>¹•Adig_XM_015915675.1 | OG1 |
                                •Gfas_gfas1.m1.7185.m1 | OG1 |
                         100
                                   -Spis_XP_022784941_1 | OG1 |
                                <sup>100</sup> Pocdam_XM_027183623.1 | OG1 |
                                   •Gasp_gasp1.m3.15704.m1 | OG1 |
                                    -Fspp ffun1.m4.3286.m1 | OG1 |
                                        Fspp_ffun1.m4.3293.m1 | OG1 |
                                         •Fspp_ffun1.m4.3291.m1 | OG1 |
                                               •Fspp ffun1.m4.3295.m1 | OG1 |
                           •Bralan_BLAG03000171_1 | OG1 |
                                     Bralan BLAG03000172 1 | OG1 |
                                     Bralan_BLAG03000173_1 | OG1 |
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                                      •Bralan_BLAG03000175_1 | OG1 |
                         98
                                     •Bralan_BLAG10000979_1 | OG1 |
                                       -Bralan_BLAG09001178_1 | OG1
                                 100
                                    <sup>100</sup>-Bralan_BLAG09001179_1 | OG1 |
                                  +Hsap ENST00000229266 | OG1 |
                  95
                         100
                                •Hsap_ENST00000357172 | OG1 |
                                           •Skow_XM_006823628.1 | OG1 |
                                   Skow_XM_002738908.2 | OG1
                        95
                                     Spur_XM_030989141.1 | OG1 |
                                  Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA171689 | OG1 |
                    85
                                  Acagra_model.g287.t1 | OG1 |
                        100
                                     •Cgig_XM_011427082.3 | OG1 |
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                                  Cscu_XM_023367513.1 | OG1 |
                                 Cscu XM 023373581.1 | OG1 |
                        100
                                   •Tcas_TC008273_002 | OG1 |
                           100
                                     •Dpul mRNA29238 | OG1 |
                                              -Morvir scaffold8.g43.t1 | OG1 |
               31
                                       •Morvir_scaffold107.g20.t1 | OG1 |
                               100
                                     Morvir scaffold107.g46.t1 | OG1 |
                                     Chem_TCONS_00021127 | OG1 |
                     100
                                         <sub>•</sub>Hvul_g4764_1 | OG1
                              100
                                      <sup>100</sup> Hvul_g9463_1 | OG1 |
                         86
                                    Aaur_scaffold1413.g3.t1 | OG1 |
                           100
                                    Nemnom g11371.t1 | OG1 |
                                 <sup>100</sup><sup>1</sup>-Rhoesc_Res_012786-T1 | OG1 |
                                 rOpea_EP00118_Oscarella_pearsei_P020170 | OG1 |
                              100 Ocar q4923 | OG1 |
                                    •Plajan_Pjan_C559243_01 | OG1 |
                         81
                                                    81
                                                  <sup>100</sup> Clacor_Ccor_scaffold996_01 | OG1 |
                                                •Clacor_Ccor_scaffold11942_01 | OG1 |
                      99
                                               •Lcom_lcpid91488 | OG1 |
                              100
                                                   •Gracom Gcom C552590 01 | OG1 |
                                                 Scil scict021449.1 | OG1 |
                           99
                                       Clacor_Ccor_C539763_01 | OG1
                                         Gracom_Gcom_scaffold6856_01 | OG1 |
                                           Lcom_lcpid74507 | OG1 |
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                                            Leuniv_Lniv_scaffold24752_01 | OG1 |
                   46
                                             Scil scict000730.1 | OG1 |
                                             -Bralan_BLAG14000156_1 | OG1 |
                                                •Bralan_BLAG03001742_1 | OG1 |
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                                                   Bralan_BLAG06001014_1 | OG1 |
                                                    Bralan BLAG06001035_1 | OG1
                                                     Bralan_BLAG06001016_1 | OG1 |
                                                            •Sanmal_Sma_010934-T1 | OG1 |
                                                               •Aaur_scaffold12.g67.t1 | OG1 |
                                          100
                                                                     •Rhoesc_Res_000851-T1 | OG1 |
                                                  100
                                                                <sup>100</sup> -Rhoesc_Res_000854-T1 | OG1 |
                                      *Stycar_maker-SC_scaffold140852-augustus-gene-0.98-mRNA-1 | OG1 |
                        70
                                    98  Stycar_maker-SC_scaffold3793-augustus-gene-0.12-mRNA-1 | OG1 |
                                                 •Emue Em0003g210a.t1 | OG1 |
                                             -Spolac_c99194_g1_i3_m.19070c99194-g1 | OG1 |
                              100
                                               -Spolac c99194 g1 i2 m.19069c99194-g1 | OG1 |
                                              <sup>991</sup>Spolac c99194_g1_i1_m.19066c99194-g1 | OG1 |
                                 63
                                            Stycar_maker-SC_scaffold3793-snap-gene-0.13-mRNA-1 | OG1 |
                                                    •Tetwil_g15869.t2 | OG1 |
                                   60
                                         98
                                                   •Stycar_maker-SC_scaffold9072-snap-gene-0.3-mRNA-1 | OG1 |
                                                   -Xestes_snap_masked-XT_scaffold119860-processed-gene-0.1-mRNA-1 | OG1 |
                                     90
                                                       •Aque Aqu2.1.28473 001 | OG1 |
                                                  •Halamb_c37566_g1_i1m.10173 | OG1 |
0.416667
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