```
Salkve EP00050 Salpingoeca kvevrii P007431 | OG0 |
                        Didcos_EP00039_Didymoeca_costata_P007990 | OG0 |
     92
                         •Diagra_EP00040_Diaphanoeca_grandis_P004110 | OG0 |
         100
                           Stedip_EP00041_Stephanoeca_diplocostata_P012458 | OG0 |
             100
                              Acaspe EP00035 Acanthoeca spectabilis P038195 | OG0 |
                       100
                            •Helnan EP00037 Helgoeca nana P018197 | OG0 |
                           -Codhol_EP00042_Codosiga_hollandica_P025597 | OG0 |
  100
                             Mylflu EP00047 Mylnosiga fluctuans P003839 | OG0 |
       40
                                       Salurc_EP00051_Salpingoeca_urceolata_P022204 | OG0 |
                         Saldol EP00054 Salpingoeca dolichothecata P021177 | OG0 |
          78

    Saldol EP00054 Salpingoeca dolichothecata P028287 | OG0 |

     65
                        ·Salurc_EP00051_Salpingoeca_urceolata_P033328 | OG0 |
                       Salmac_EP00052_Salpingoeca_macrocollata_P022675 | OG0 |
                          •Salpun_EP00053_Salpingoeca_punica_P015853 | OG0 |
                                            Salinf EP00049 Salpingoeca infusionum P004057 | OG0 |
                               Chofle EP00730 Choanoeca flexa P001790 | OG0 |
               98
                              •Choper EP00045 Choanoeca perplexa P010683 | OG0 |
                   Eupdun_Edun_sb10656828 | OG0 |
                 <sup>991</sup>Eupdun_Edun_sb10656829 | OG0 |
                         Eupdun Edun sb10637473 | OG0 |
                            Eupdun Edun sb10637471 | OG0
                         100
                            Vmul_Simscaffold15035_01 | OG0 |
                              --Vmul_sbMO461163 | OG0 |
                             •Coemet Cmet scaffold19812 01 | OG0 |
                      100
                                Coeast Cast sb801030 | OG0 |
                 81
                              <sup>201</sup>-Coeast_Cast_sb801031 | OG0 |
                                •Coeast_Cast_sb801033 | OG0 |
                                    Coeast Cast sb801032 | OG0 |
                                 <sup>32]</sup>Coeast Cast_sb801036 | OG0 |
                                   Coeast Cast sb801034 | OG0 |
                                      Coeast Cast_sb801037 | OG0 |
                                    <sup>29</sup> Coeast_Cast_sb801035 | OG0 |
                            -Lampan_Lpan_14476_01 | OG0 |
                              Mertsp Mesp sb565476 | OG0 |
                                Mertsp Mesp sb565477 | OG0 |
                           100
                                   Bolinf_Binf_sb1212724 | OG0 |
                     98
                                <sup>100</sup>Bolinf Binf sb1212725 | OG0 |
                                Beraby_Baby_sb348361 | OG0 |
                             <sup>100</sup> Beraby_Baby_sb348362 | OG0 |
                        100
                                      -Mlei ML0259.g2.i1 | OG0 |
                                 <sup>100</sup> Vmul_sbMO418855 | OG0 |
                                    Mertsp_Mesp_sb575120 | OG0 |
                                      Bolinf_Binf_sb1254867 | OG0 |
                                    69 Bolinf Binf_sb1254868 | OG0 |
                                         -Pbac_sb2660378 | OG0 |
                                           •Pbac_sb2639271 | OG0 |
                             79
                                          ¡Horcal_Hcv1.av93.c4.g620.i1 | OG0 |
                                   100
                                        <sup>76</sup> Horcal_Hcv1.av93.c4.g620.i2 | OG0 |
                                          Pbac_sb2660377 | OG0 |
                                                    •Pbac sb2660376 | OG0 |
                                       Drygla_Dgla_sb308821 | OG0 |
                                            <sub>r</sub>Drygla_Dgla_sb308830 | OG0 |
                                    100
  100
                                          Drygla Dgla sb308827 | OG0 |
                                          <sup>1001</sup>Drygla_Dgla_sb308831 | OG0 |
                                 100
                                         Drygla_Dgla_sb308817 | OG0 |
                                       <sup>76</sup> Drygla_Dgla_sb308820 | OG0 |
                                           Drygla_Dgla_sb308822 | OG0 |
                                             Drygla Dgla sb308828 | OG0 |
                                               Drygla_Dgla_sb308818 | OG0 |
                                             <sup>95</sup> Drygla_Dgla_sb308824 | OG0 |
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                                           <sub>'</sub>Drygia_Dgia_sb308823 | OG0 |
                                             •Drygla_Dgla_sb308829 | OG0 |
                                              Drygla_Dgla_sb308819 | OG0
                                             88 Drygla_Dgla_sb308825 | OG0 |
                    Opea_EP00118_Oscarella_pearsei_P025972 | OG0 |
                 <sup>100</sup> -Ocar_g7710 | OG0 |
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                     •Plajan_Pjan_scaffold1866_01 | OG0 |
                 <sup>100</sup>lPlajan_Pjan_scaffold1865_01 | OG0 |
                                  •Scil scict016199.1 | OG0 |
       76
                                     Leuniv Lniv scaffold1670 01 | OG0 |
                                       •Lcom_lcpid60007 | OG0 |
                                       •Gracom_Gcom_C557690_01 | OG0 |
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                            •Clacor_Ccor_scaffold12948_01 | OG0 |
                          Lcom_lcpid63438 | OG0 |
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                       100 Lcom_lcpid36141 | OG0 |
                           •Gracom_Gcom_C559158_01 | OG0 |
                                  •Scil_scict017249.1 | OG0 |
                                -Leuniv_Lniv_scaffold1964_01 | OG0 |
                                TrH2_TrispH2_001427-RA | OG0 |
                             <sup>100</sup>•Tadh_TriadT57883 | OG0 |
                                •HoiH11_mRNA5625 | OG0 |
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                                      <sub>[*</sub>HoiH23_PIH23_010719-RA | OG0 |
                                  <sup>100</sup>-HoiH06 _mRNA11055 | OG0 |
     67
                                      <sub>e</sub>Hhon_g03532.t1 | OG0 |
         63
                                   <sup>100</sup> HoiH04_mRNA14238 | OG0 |
                             •Plespi_Pspi_C611630_01 | OG0 |
                                Stycar_augustus_masked-SC_scaffold5494-processed-gene-0.7-mRNA-1 | OG0 |
                                  FSpolac_c104480_g2_i3_m.40849c102294-g1 | OG0 |
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                                     •Spolac_c104480_g2_i2_m.40848c102294-g1 | OG0 |
                                      <sub>s</sub>Spolac_c104480_g2_i1_m.40846c102294-g1 | OG0 |
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                                    <sup>63</sup> Spolac_c104480_g2_i4_m.40851c102294-g1 | OG0 |
                                  •Xestes_maker-XT_scaffold58-augustus-gene-0.6-mRNA-1 | OG0 |
                                  •Halamb_c51853_g1_i1mm.4202 | OG0 |
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                                       •Aque_Aqu2.1.24125_001 | OG0 |
                                      Aque_Aqu2.1.01741_001 | OG0 |
                                    <sup>100</sup> Aque_Aqu2.1.24124_001 | OG0 |
       64
                       Skow_XM_006824261.1 | OG0 |
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                       Spur_XM_030996394.1 | OG0 |
                       -Bralan_BLAG13000597_2 | OG0 |
                         •Hsap_ENST00000307602 | OG0 |
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                               •Hsap_ENST00000371208 | OG0 |
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                                  •Hsap_ENST00000397668 | OG0 |
                          •Cgig_XM_011445938.3 | OG0 |
              88
                           Acagra_model.g24240.t1_model.g24241.t1 | OG0 |
                        <sup>1001</sup>•Acagra_model.g24240.t1_model.g24241.t1.1.5d400fb2 | OG0 |
                           Cscu XM 023368879.1 | OG0 |
                73
                        <sup>100</sup> Cscu_XM_023368883.1 | OG0 |
                   72
                                   •Dpul_mRNA630 | OG0 |
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                                        •Tcas_TC004151_001 | OG0 |
                              •Hvul_g19459_1 | OG0 |
                           Chem_TCONS_00061466 | OG0 |
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                                   -Hvul_g29913_1 | OG0 |
               100
                        •Morvir_scaffold33.g26.t2 | OG0 |
                           Aaur_scaffold111.g16.t2 | OG0 |
                            •Aaur_scaffold111.g17.t1 | OG0 |
                             <sub>-</sub>-Rhoesc_Res_016242-T1 | OG0 |
                               Nemnom_g14971.t1 | OG0 |
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                             <sup>100</sup> Nemnom_g6557.t1 | OG0 |
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                   100 -Xesp_000947-T1 | OG0 |
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                          Exapal XM 021055803.2 | OG0 |
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                            -Gfas_gfas1.m1.4904.m1 | OG0 |
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                                 _Adig_XM_015894514.1 | OG0 |
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                              Gasp_gasp1.m3.29750.m1 | OG0 |
                           <sup>1001</sup>•Gasp_gasp1.m3.18914.m1 | OG0 |
                              -Fspp_ffun1.m4.15884.m1 | OG0 |
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0.416667
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