```
Xestes augustus masked-XT scaffold5619-processed-gene-0.1-mRNA-1 | OG1 |
                 Xestes_maker-XT_scaffold109754-augustus-gene-0.3-mRNA-1 | OG1 |
   89
                            Xestes_maker-XT_scaffold192197-augustus-gene-0.759-mRNA-1 | OG1 |
                             -Aaur_scaffold5026.g1.t1 | OG2 |
                                 •Helnan EP00037 Helgoeca nana P000048 | OG2 |
                             Tetwil g18124.t1 | OG2 |
    95
                       100
                            Tetwil g18125.t1 | OG2 |
                              -Xestes_augustus_masked-XT_scaffold187496-processed-gene-0.5-mRNA-1 | OG2 |
                             -Xestes_snap_masked-XT_scaffold178349-processed-gene-0.361-mRNA-1 | OG2 |
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            100
                                   Diagra EP00040 Diaphanoeca grandis P026487 | OG2 |
                                     -Diagra EP00040 Diaphanoeca grandis P026488 | OG2 |
                    Codhol EP00042 Codosiga hollandica P025215 | OG0 |
                    Salurc_EP00051_Salpingoeca_urceolata_P002637 | OG0 |
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                          Salkve_EP00050_Salpingoeca_kvevrii_P006461 | OG0 |
           76
                          Salmac_EP00052_Salpingoeca_macrocollata_P022482 | OG0 |
             65
                         -Salpun_EP00053_Salpingoeca_punica_P019512 | OG0 |
                          •Mylflu_EP00047_Mylnosiga_fluctuans_P013593 | OG0 |
                          Aaur scaffold2936.g6.t1 | OG0 |
                             -Xestes_augustus_masked-XT_scaffold15831-processed-gene-0.201-mRNA-1 | OG0 |
                               Salinf EP00049 Salpingoeca infusionum P026979 | OG0 |
            100
                  100
                                •Microa EP00043 Microstomoeca roanoka P003106 | OG0 |
                          •Stedip_EP00041_Stephanoeca diplocostata P001517 | OG0 |
                       Acaspe_EP00035_Acanthoeca_spectabilis_P002973 | OG0 |
           100
                          •Didcos_EP00039_Didymoeca_costata_P008956 | OG0 |
              29
                          Diagra EP00040 Diaphanoeca grandis P014475 | OG0 |
   51
                            Diagra EP00040 Diaphanoeca_grandis_P014476 | OG0 |
                              •Lampan Lpan C409731 01 | OG0 |
                                  Coemet_Cmet_scaffold22370_01 | OG0 |
                                  •Vmul_Simscaffold9056_01 | OG0 |
                               Beraby Baby sb333906 | OG0 |
                  100
                               Bolinf Binf sb1180376 | OG0 |
     100
                            <sup>100</sup> Mertsp_Mesp_sb540841 | OG0 |
                     99
                              -Pbac sb2649900 | OG0 |
                                <sub>s</sub>Horcal_Hcv1.av93.c13.g100.i1 | OG0 |
                             <sup>100</sup> Horcal Hcv1.av93.c13.g100.i2 | OG0 |
                      Cgig XM 011456396.3 | OG0 |
                         Saldol EP00054 Salpingoeca dolichothecata P031009 | OG0 |
                                    •Mbre_EDQ85598 | OG0 |
         97
                               Chofle_EP00730_Choanoeca_flexa_P014607 | OG0 |
                               •Choper_EP00045_Choanoeca_perplexa_P013083 | OG0 |
                         -Hsap ENST00000219599 | OG0 |
                            •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA141157 | OG0 |
                        100 -Ctel gnl WGS_AMQN_CAPTEDRAFT_mRNA182856 | OG0 |
                56
                            •Skow_XM_002737808.2 | OG0 |
                               -Skow_XM_002737822.1 | OG0 |
                  53
                            100<sup>1</sup>-Skow XM 006820253.1 | OG0 |
                                     •Dpul mRNA3742 | OG0 |
            79
                          67
                                            -Tcas_TC006374_001 | OG0 |
                                 Acagra_model.g25506.t1.1.5d3b8b7b.2.5d401030 | OG0 |
                                   Acagra_model.g25506.t1.1.5d3b8b7b.1.5d40102f | OG0 |
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                               100
                                     Acagra_model.g25506.t1 | OG0 |
                                    761Acagra model.g25506.t1.1.5d3b8b7b | OG0 |
                         68
                                    Bralan BLAG05000608 1 | OG0 |
                                        •Spur_XM_030990210.1 | OG0 |
                                          Spur XM 030990213.1 | OG0 |
                                             <sub>•</sub>Spur_XM_030990215.1 | OG0 |
                                          <sup>100</sup> Spur_XM_030990218.1 | OG0 |
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                               •Plespi_Pspi_C600454_01 | OG0 |
                                 •Halamb_c40510_g1_i1mm.816 | OG0 |
                                    •Aque_Aqu2.1.38561_001 | OG0 |
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                                   -Xestes_maker-XT_scaffold6553-snap-gene-0.13-mRNA-1 | OG0 |
                       86
                                 •Spolac_c99110_g2_i1_m.18827c99110-g2 | OG0 |
                                  -Stycar_maker-SC_scaffold33687-snap-gene-0.4-mRNA-1 | OG0 |
                  59
                                  --Tetwil_g18760.t1 | OG0 |
                              <sup>100</sup><sup>L</sup>-Tetwil_g18763.t1 | OG0 |
                              Clacor_Ccor_C537229_01 | OG0 |
                                   Gracom_Gcom_C551160_01 | OG0 |
                                   •Scil_scict020796.2 | OG0 |
                                   Leuniv_Lniv_scaffold18301_01 | OG0 |
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                                           Leuniv_Lniv_C786339_01 | OG0 |
                                     •Lcom | lcpid101929 | OG0 |
                              46
                85
                                         •Lcom_lcpid138314 | OG0 |
                                     <sup>100</sup> Lcom | lcpid101912 | OG0 |
                           Opea_EP00118_Oscarella_pearsei_P013292 | OG0 |
                                    •HoiH11 mRNA9295 | OG0 |
                                      TrH2_TrispH2_010367-RA | OG0 |
                                      •Tadh_TriadT22495 | OG0 |
                                       •HoiH23_PIH23_009884-RA | OG0 |
                                   <sup>100</sup> HoiH06_mRNA5593 | OG0 |
                   49
                                 100
                                      Hhon g00584.t1 | OG0 |
                                    <sup>100</sup> HoiH04 mRNA5145 | OG0 |
                                       •Morvir_scaffold84.g66.t1 | OG0 |
                                           •Chem_TCONS_00073309 | OG0 |
                     41
                                100
                                             •Hvul_g28160_1 | OG0 |
                                      Nemnom_g14202.t1 | OG0 |
                         100
                               100┖
                                    •Rhoesc Res 014284-T1 | OG0 |
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                                    Aaur scaffold367.g6.t1 | OG0 |
                                      •Sanmal Sma 012999-T1 | OG0 |
                                      -Dpul_mRNA25868 | OG0 |
                       45
                                         •Xesp 009768-T1 | OG0 |
                            67
                                         •Dgig_XM_028539542.1 | OG0 |
                                     <sup>1001</sup>•Dgig_XM_028539564.1 | OG0 |
                                   Nvec v1g194939 | OG0 |
                         53
                                     Exapal_XM_021052898.2 | OG0 |
                                  <sup>100</sup> Exapal XM_021056148.2 | OG0 |
                                   Amil Amillepora14462-RA | OG0 |
                                <sup>100</sup> Adig_XM _015912955.1 | OG0 |
                                   •Gfas_gfas1.m1.19820.m1 | OG0 |
                             100
                                      •Gasp_gasp1.m3.29702.m1 | OG0 |
                                          •Spis_XP_022802868_1 | OG0 |
                                      100 Pocdam XM 027195484.1 OG0 |
                                            •Fspp ffun1.m4.20170.m1 | OG0 |
                                            -Fspp ffun1.m4.20171.m1 | OG0 |
0.416667
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