```
TrH2 TrispH2 000114-RA | OG0 |
          <sup>88</sup><sup>_</sup>•Tadh_TriadT63193 | OG0 |
             •HoiH11_mRNA717 | OG0 |
       100
                  <sub>!</sub>HoiH23_PIH23_001898-RA | OG0 |
               <sup>100</sup> HoiH06 mRNA11112 | OG0 |
                  Hhon g06157.t1 | OG0 |
                <sup>100</sup><sup>1</sup>-HoiH04_mRNA2256 | OG0 |
 61
          •Dgig_XM_028542456.1 | OG0 |
            <sub>!</sub>-Coemet_Cmet_C565859_01 | OG0 |
      100
             Xesp 003784-T1 | OG0 |
                 •Didcos_EP00039_Didymoeca_costata P017870 | OG0 |
                 Stedip_EP00041_Stephanoeca_diplocostata_P003760 | OG0 |
         100
   67
                     •Helnan_EP00037_Helgoeca_nana_P031829 | OG0 |
                      Diagra_EP00040_Diaphanoeca_grandis_P038184 | OG0 |
                    Lcom_lcpid157457 | OG0 |
                    Salpun EP00053 Salpingoeca punica P023432 | OG0 |
     100
          93
                        Saldol_EP00054_Salpingoeca_dolichothecata_P031420 | OG0 |
                        •Mylflu EP00047 Mylnosiga fluctuans P001328 | OG0 |
                          Salmac_EP00052_Salpingoeca_macrocollata_P033542 | OG0 |
        82
                               Codhol EP00042 Codosiga hollandica P009523 | OG0 |
                     ·Salurc_EP00051_Salpingoeca_urceolata_P026186 | OG0 |
                  -Salkve_EP00050_Salpingoeca_kvevrii_P005595 | OG0 |
                       •Microa_EP00043_Microstomoeca_roanoka_P026524 | OG0 |
          96
                  <sup>100</sup><sup>1</sup> Sros EGD77161 | OG0 |
                         Salinf_EP00049_Salpingoeca_infusionum_P016910 | OG0 |
                           Mbre EDQ84267 | OG0 |
                          •Chofle_EP00730_Choanoeca_flexa_P007846 | OG0 |
                           •Choper_EP00045_Choanoeca_perplexa_P020437 | OG0 |
           Sanmal Sma 009272-T1 | OG1 |
              Aaur scaffold604.g2.t1 | OG1 |
      100
               •Nemnom_g1707.t1 | OG1 |
                 Rhoesc_Res_009743-T1 | OG1 |
              991Rhoesc_Res_013524-T1 | OG1 |
                •Spolac_c2276_g1_i1_m.31c2276-g1 | OG1 |
                     •Ocar_g5462 | OG1 |
                     Coemet_Cmet_C566036_01 | OG1 |
            83
   46
                        Hvul g16211 1 | OG1 |
                       -Chem_TCONS_00011232 | OG1 |
                  Morvir_scaffold384.g9.t1 | OG1 |
                      •Tetwil g1379.t1 | OG1 |
                      Stycar maker-SC scaffold6024-snap-gene-0.38-mRNA-1 | OG1 |
                     Xestes_maker-XT_scaffold47436-augustus-gene-0.34-mRNA-1 | OG1 |
     56
                          -Aque_Aqu2.1.40409_001 | OG1 |
                     <sup>100</sup>└•Halamb_c57824_g1_i1m.44772 | OG1 |
                 Clacor_Ccor_scaffold4739_01 | OG1 |
                  Leuniv Lniv scaffold7129 01 | OG1 |
          100
                   Gracom_Gcom_C517178_01 | OG1 |
                   Scil_scict003469.1 | OG1 |
       62
                  •Exapal_XM_021051532.1 | OG1 |
                  •Nvec_v1g163400 | OG1 |
                   <sub>[</sub>-Amil_Amillepora16930-RA | OG1 |
          100
                <sup>100</sup> Adig_XM_015924660.1 | OG1 |
                  •Gfas_gfas1.m1.14578.m1 | OG1 |
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                       •Spis_XP_022784451_1 | OG1 |
                   <sup>100</sup>-Pocdam XM 027195419.1 | OG1 |
                      -Gasp_gasp1.m3.5948.m1 | OG1 |
                   <sup>74</sup>Ū-Fspp_ffun1.m4.15555.m1 | OG1 |
           •Bralan_BLAG05000532_1 | OG2 |
                 •Hsap_ENST00000222247 | OG2 |
                  •Skow XM 006817522.1 | OG2 |
                         Lcom | lcpid169511 | OG2 |
          50
     95
                     •Tcas_TC004468_001 | OG2 |
                       ul mRNA10067 | OG2 |
                     Spur_XM_791638.5 | OG2 |
       66
                     Cscu XM 023359426.1 | OG2 |
                       com_lcpid158182 | OG2 |
                     •Lcom_lcpid190558 | OG2 |
          49
                        Lcom | lcpid156471 | OG2 |
                     <sup>97</sup> -Clacor_Ccor_C515833_01 | OG2 |
                     r-Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA150312 | OG2 |
            22
                  100 Ctel gnl WGS_AMQN_CAPTEDRAFT_mRNA163545 | OG2 |
                          .com_lcpid163946 | OG2 |
              58
   64
                         .com | cpid197033 | OG2 |
                       Acagra_model.g8386.t1 | OG2 |
                99
                           com | cpid162467 | OG2 |
                  98
                            Cgig_XM_011426514.3 | OG2 |
                             •Lcom_lcpid169999 | OG2 |
                               •Lcom_lcpid239169 | OG2 |
                 •Vmul_sbMO424695 | OG2 |
                    Plespi_Pspi_C569489_01 | OG2 |
                      ·Coeast_Cast_sb794460 | OG2 |
                 100
                         Coemet_Cmet_C567326_01 | OG2 |
                      63 Vmul_SimC370701 | OG2 |
           100
                  •Eupdun_Edun_sb10633787 | OG2 |
                       <sub>"</sub>Bolinf_Binf_sb1207676 | OG2 |
                     <sup>43</sup> Mertsp_Mesp_sb564266 | OG2 |
                        Coeast_Cast_sb778918 | OG2 |
              96
                     <sup>59</sup>L•Vmul_sbMO378077 | OG2 |
                        <u>-</u>Coeast_Cast_sb759640 | OG2 |
                          Pbac_sb2667376 | OG2 |
                 99
                            Horcal_Hcv1.av93.c12.g45.i1 | OG2 |
                          <sup>99</sup> Pbac_sb2651979 | OG2 |
                            <sub>r</sub>Mertsp_Mesp_sb564267 | OG2 |
                   99
                         <sup>100</sup> Mertsp_Mesp_sb564268 | OG2 |
                            rMlei_ML1658.g14.i1 | OG2 |
                          <sup>100</sup> Vmul_sbMO424696 | OG2 |
                            Mertsp Mesp sb540137 | OG2 |
                     99
                         100 Bolinf_Binf_sb1193558 | OG2 |
                             <sup>1</sup> Beraby_Baby_sb322805 | OG2 |
                                •Drygla_Dgla_sb286102 | OG2 |
                               ·Drygla_Dgla_sb286568 | OG2 |
                            <sup>1001</sup>Drygla Dgla sb286567 | OG2 |
0.416667
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