```
<sub>•</sub>TrH2 TrispH2 006685-RA|OG0|
                   <sub>•</sub>Tadh_TriadT55877 | OG0 |
                 <sup>56</sup>1-Tadh_TriadT55878 | OG0 |
           100
                 •HoiH11_mRNA8869 | OG0 |
                     +HoiH23 PIH23 006802-RA | OG0 |
                  <sup>100</sup><sup>1</sup>•HoiH06 _mRNA4848 | OG0 |
                92
                     •Hhon g03307.t1 | OG0 |
                  <sup>100</sup> HoiH04_mRNA13904 | OG0 |
                     •Coemet_Cmet_scaffold17246_01 | OG0 |
                         •Lampan_Lpan_16117_01 | OG0 |
             100
                        Bolinf_Binf_sb1236317 | OG0 |
 74
                      99 Mertsp_Mesp_sb580811 | OG0 |
                        •Drygla_Dgla_sb288724 | OG0 |
                100
                          Bolinf Binf sb1235741 | OG0 |
                        Beraby_Baby_sb326803 | OG0 |
                                 ·Drygla_Dgla_sb288722 | OG0 |
                                Mlei ML1565.g8.i1 | OG0 |
                        19
                                 •Pbac_sb2654388 | OG0 |
                                •Pbac_sb2669209 | OG0 |
   80
                          100
                                  •Pbac_sb2654390 | OG0 |
                                    Pbac_sb2646197 | OG0 |
                                        Horcal Hcv1.av93.c1.g680.i1 | OG0 |
                                      <sup>81</sup> Horcal Hcv1.av93.c1.g680.i2 | OG0 |
                                          •Pbac sb2669211 | OG0 |
                                                   •Pbac sb2658268 | OG0 |
                         ·Saldol_EP00054_Salpingoeca_dolichothecata_P005308 | OG0 |
                             -Salurc_EP00051_Salpingoeca_urceolata P001895 | OG0 |
                             Salkve EP00050 Salpingoeca kvevrii P015152 | OG0 |
         100
                              ·Codhol_EP00042_Codosiga_hollandica_P057247 | OG0 |
                                 Didcos_EP00039_Didymoeca_costata_P030822 | OG0 |
                                    Diagra EP00040 Diaphanoeca grandis P034786 | OG0 |
            90
                                   Stedip_EP00041_Stephanoeca_diplocostata_P030838 | OG0 |
                                   Acaspe EP00035 Acanthoeca spectabilis P009408 | OG0 |
                                   •Helnan_EP00037_Helgoeca_nana_P013779 | OG0 |
                                •Mylflu_EP00047_Mylnosiga_fluctuans_P009120 | OG0 |
              61
                                 Salmac_EP00052_Salpingoeca_macrocollata_P022775 | OG0 |
                   100
                      100
                                Salpun EP00053 Salpingoeca punica P019210 | OG0 |
                                      Salinf EP00049 Salpingoeca infusionum P026344 | OG0 |
                67
                                     •Microa_EP00043_Microstomoeca_roanoka_P017783 | OG0 |
                                        •Sros EGD81078 | OG0 |
                                        Sros EGD82872 | OG0 |
                       100
                                   ·Salinf_EP00049_Salpingoeca_infusionum_P026345 | OG0 |
                                       •Mbre EDQ84710 | OG0 |
                                      Choper_EP00045_Choanoeca_perplexa_P017093 | OG0 |
                              100
                                       -Chofle_EP00730_Choanoeca_flexa_P012725 | OG0 |
                                    45<sup>1</sup>-Chofle_EP00730_Choanoeca_flexa_P010535 | OG0 |
                     •Plespi Pspi scaffold18527 01 | OG0 |
         <sup>62</sup> Hvul g5593_1 | OG0 |
                     Xestes_maker-XT_scaffold4718-snap-gene-0.12-mRNA-1 | OG0 |
                  •Xestes_maker-XT_scaffold1854-augustus-gene-0.4-mRNA-1 | OG0 |
       100
                    -Halamb_c55542_g1_i10mm.6623 | OG0 |
   59
          100
                    <sub>[</sub>Aque_Aqu2.1.26009_001 | OG0 |
                 <sup>100</sup> Aque Aqu2.1.03432_001 | OG0 |
             Stycar maker-SC scaffold7115-snap-gene-0.113-mRNA-1 | OG0 |
     95
                   •Stycar_maker-SC_scaffold3786-augustus-gene-0.8-mRNA-1 | OG0 |
         63
              <sup>100</sup> Stycar_maker-SC_scaffold7115-snap-gene-0.114-mRNA-1 | OG0 |
                   •Tetwil g9639.t2 | OG0 |
                  -Stycar maker-SC scaffold73233-snap-gene-0.4-mRNA-1 | OG0 |
       96
             Stycar_maker-SC_scaffold7494-augustus-gene-0.2-mRNA-1 | OG0 |
                  |Spolac_c84134_g1_i1_m.3391c100354-g1 | OG0
         66
               <sup>92</sup> Spolac_c84134_g2_i1_m.3393c100354-g1 | OG0 |
                  Spolac_c81407_g1_i1_m.2855c100354-g1 | OG0 |
                      •Spolac_c92369_g1_i1_m.7771c100354-g1 | OG0 |
                      -Spolac_c87767_g1_i1_m.4467c100354-g1 | OG0 |
                      •Spolac_c33568_g1_i1_m.712c100354-g1 | OG0 |
                        rEmue_Em0015g306a.t1 | OG0 |
                          -Spolac_c92369_g2_i1_m.7772c100354-g1 | OG0 |
                        <sup>58</sup>-Emue Em0015g298a.t1 | OG0 |
                 Opea EP00118 Oscarella pearsei P011225 | OG0 |
              <sup>100</sup>-Ocar_g4654 | OG0 |
        100
                •Plajan_Pjan_scaffold12866_01 | OG0 |
             <sup>1001</sup>Plajan Pjan scaffold12867 01 | OG0 |
     36
                   •Clacor Ccor C529409 01 | OG0 |
                      •Clacor_Ccor_scaffold2497_01 | OG0 |
         100
                     Clacor Ccor C528965 01 | OG0 |
            98
                                        Scil scict009120.2 | OG0 |
              99
                    <sup>991</sup>•Leuniv Lniv_C769109_01 | OG0 |
                      Lcom | lcpid18089 | OG0 |
                          •Gracom_Gcom_C561202_01 | OG0 |
                         •Leuniv_Lniv_scaffold17966_01 | OG0 |
                     •Bralan_BLAG17000750_1 | OG0 |
                     •Hsap ENST00000372371 | OG0 |
                        ·Skow XM 002736806.2 | OG0 |
                 100
                          •Spur_XM_030979523.1 | OG0 |
          69
                        rCscu_XM_023356035.1 | OG0 |
                     <sup>100</sup> Cscu_XM_023356040.1 | OG0 |
   31
                            Acagra model.g4559.t1 | OG0 |
                         Ctel gnl WGS AMQN CAPTEDRAFT mRNA219447 | OG0 |
       100
                          Cgig XM 011418714.3 | OG0 |
                          •Acagra_model.g4558.t1 | OG0 |
                    •Cscu_XM_023368191.1 | OG0 |
                        •Tcas_TC010518_001 | OG0 |
          98
                          -Dpul mRNA3648 | OG0 |
                      <sup>961</sup>•Dpul mRNA3440 | OG0 |
             100
                           -Dpul_mRNA28213 | OG0 |
                   100
                              •Dpul_mRNA19889 | OG0 |
                              Dpul mRNA20749 | OG0 |
                           <sup>100</sup> Dpul mRNA2598 | OG0 |
                                Dpul_mRNA28730 | OG0 |
                              <sup>98</sup> Dpul_mRNA20746 | OG0 |
                                         •Dpul_mRNA9082 | OG0 |
                                           Dpul mRNA9073 | OG0 |
                                         <sup>100</sup><sup>1</sup>—•Dpul_mRNA9074 | OG0 |
                    •Xesp_002465-T1 | OG0 |
                    Dgig XM 028546258.1 | OG0 |
                 <sup>100</sup> Dgig_XM_028560961.1 | OG0 |
                      Nvec v1g190300 | OG0 |
         100
                        •Exapal XM 028657999.1 | OG0 |
                        •Spis_XP_022799682_1 | OG0 |
                         -Pocdam XM 027183504.1 | OG0 |
             100
                         •Gasp_gasp1.m3.5505.m1 | OG0 |
                     <sup>100</sup> -Fspp ffun1.m4.2726.m1 | OG0 |
                100
                           gfas1.m1.3562.m1 | OG0 |
       99
                        •Adig XM 015919741.1 | OG0 |
                          <sub>[</sub>•Amil_Amillepora21464-RA | OG0 |
                        95<sup>1</sup>-Adig XM 015908563.1 | OG0 |
                   •Chem_TCONS_00033137 | OG0 |
             100
                      •Hvul g5594 1 | OG0 |
                    •Morvir_scaffold43.g4.t2 | OG0 |
          99
                      •Aaur_scaffold390.g1.t1 | OG0 |
                        •Aaur scaffold2350.g2.t1 | OG0 |
                 92
            86
                        _-Sanmal_Sma_017052-T1 | OG0 |
                   89
                     <sup>100</sup> Sanmal Sma 017053-T1 | OG0 |
                                      •Sanmal Sma 017055-T1 | OG0 |
               99
                                         •Aaur_scaffold390.g5.t1 | OG0 |
                                     <sup>991</sup>Aaur_scaffold390.g10.t1 | OG0 |
                          •Aaur scaffold2350.g3.t3 | OG0 |
                 64
                       100<sup>1</sup>-Aaur scaffold62.g6.t1 | OG0 |
                            Rhoesc Res 012575-T1 | OG0 |
                            Rhoesc_Res_012577-T1 | OG0 |
                              Nemnom_g11561.t1 | OG0 |
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0.416667
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