```
<sub>!</sub>TrH2_TrispH2_001959-RA | OG0 |
         <sup>100</sup><sup>1</sup>•Tadh_TriadT50661 | OG0 |
              •HoiH23_PIH23_005880-RA | OG0 |
      100
                 •HoiH06_mRNA4006 | OG0 |
                    HoiH11_mRNA7231 | OG0 |
         86
                           -HoiH23_PIH23_005878-RA | OG0 |
               <sub>"</sub>HoiH04_mRNA16790 | OG0 |
53
             84 Hhon_g00812.t1 | OG0 |
           •Plespi_Pspi_scaffold7633_01 | OG0 |
              Xestes_maker-XT_scaffold6472-augustus-gene-0.28-mRNA-1 | OG0 |
               •Aque Aqu2.1.23228 001 | OG0 |
  98
         100
              •Halamb_c67041_g1_i1m.46538 | OG0 |
              •Tetwil_g10592.t2 | OG0 |
                 -Stycar maker-SC_scaffold2300-snap-gene-0.25-mRNA-1 | OG0 |
    96
         78
                         -Spolac_c103372_g3_i1_m.33925c103372-g3 | OG0 |
                      <sup>1001</sup>-Spolac c103372_g3_i2_m.33927c103372-g3 | OG0 |
                     •Spolac_c103372_g2_i1_m.33923c103372-g2 | OG0 |
       77
                •Spolac_c103372_g2_i2_m.33924c103372-g2 | OG0 |
                      Emue_Em0009g23a.t1 | OG0 |
           100
                                                                 -Emue Em0009g25a.t1 | OG0 |
                             •Emue Em0087g15a.t1 | OG0 |
              100
                     99 Emue_Em0011g604a.t1 | OG0 |
                       Emue_Em0118g4a.t1 | OG0 |
                 91
                           •Emue_Em0118g6a.t1 | OG0 |
                            <u>•</u>Emue_Em0932g1a.t1 | OG0 |
                                  •Emue_Em0086g2a.t1 | OG0 |
             -Dgig_XM_028544538.1 | OG1 |
             -Xesp_004448-T1 | OG1 |
                •Nvec_v1g116697 | OG1 |
  82
      95
              Exapal_XM_021053471.2 | OG1 |
             91
             Fspp_ffun1.m4.32470.m1 | OG1 |
               Spis_XP_022805614_1 | OG1 |
      98
           <sup>100</sup> Pocdam XM 027188166.1 | OG1 |
                  Gfas gfas1.m1.18047.m1 | OG1 |
                <sub>f</sub>Adig XM 015900334.1 | OG1 |
             <sup>1001</sup>•Amil_Amillepora23176-RA | OG1 |
                •Spur_NM_214648.1 | OG1 |
                   •Hvul_g32849_1 | OG1 |
      56
                        •Chem_TCONS_00048445 | OG1 |
                                  •Chem TCONS 00034000 | OG1 |
                   •Morvir_scaffold41.g87.t1 | OG1 |
                      Aaur_scaffold70.g25.t3 | OG1 |
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                        •Sanmal_Sma_018569-T1 | OG1 |
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                        <sub>_</sub>•Nemnom_g10746.t1 | OG1 |
                      <sup>100</sup><sup>1</sup>-Rhoesc_Res_006139-T1 | OG1 |
              •Hsap_ENST00000215832 | OG1 |
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                 •Hsap_ENST00000263025 | OG1 |
                     •Lcom_lcpid65337 | OG1 |
      75
                          •Gracom_Gcom_scaffold17489_01 | OG1 |
                         Leuniv Lniv scaffold21790 01 | OG1 |
         100
                  ·Clacor_Ccor_scaffold8098_01 | OG1 |
                             •Gracom_Gcom_scaffold17380_01 | OG1 |
            98
                             •Scil_scict002253.1 | OG1 |
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                                  Lcom lcpid149086 | OG1 |
                            -Lcom_lcpid166335 | OG1 |
  41
                Skow_XM_006825254.1 | OG1 |
        33
                                                   •HoiH23_PIH23_005879-RA | OG1 |
                                          <sup>100</sup> HoiH06 mRNA14267 | OG1 |
                     Mertsp Mesp sb554240 | OG1 |
      26
                            Mertsp_Mesp_sb554241 | OG1 |
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                         Mertsp_Mesp_sb554242 | OG1 |
                      •Mlei_ML0012.g4.i1 | OG1 |
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                             -Vmul_SimC406386 | OG1 |
                             Coemet Cmet scaffold4395 01 | OG1 |
                            Lampan_Lpan_15339_01 | OG1 |
                               •Eupdun_Edun_sb10624242 | OG1 |
                           Beraby_Baby_sb329653 | OG1 |
    29
                               Pbac_sb2669234 | OG1 |
                               Pbac_sb2661045 | OG1 |
                                 Pbac sb2644411 | OG1 |
                               <sup>97</sup> Horcal_Hcv1.av93.c2.g539.i1 | OG1 |
                  -Bralan_BLAG01002687_1 | OG1 |
                     •Lcom | lcpid240832 | OG1 |
                 •Tcas TC011967 001 | OG1 |
                   •Cscu_XM_023376422.1 | OG1 |
                                    -Cscu_XM_023374724.1 | OG1 |
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                                                         Lcom | lcpid214626 | OG1 |
                    Ctel gnl WGS AMQN CAPTEDRAFT mRNA98373 | OG1 |
                      •Cgig_XM_034482809.1 | OG1 |
                       •Lcom_lcpid168082 | OG1 |
                       •Acagra_model.g13994.t1.1.5d3b876f | OG1 |
             39
                       •Plajan_Pjan_C557055_01 | OG1 |
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                                     <u>-</u>Ocar_g1941 | OG1 |
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                                  <sup>94</sup>└-Opea_EP00118_Oscarella_pearsei_P017338 | OG1 |
                                Opea_EP00118_Oscarella_pearsei_P017343 | OG1 |
                             <sup>100</sup> Opea EP00118_Oscarella_pearsei_P017340 | OG1 |
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