```
Bralan BLAG05000740 1 | OG0 |
                 •Dgig XM 028548781.1 | OG0 |
                            Xestes maker-XT scaffold4357-snap-gene-0.192-mRNA-1 | OG0 |
  59
              ·Plajan_Pjan_C549531_01 | OG0 |
                 Opea EP00118 Oscarella pearsei P012335 | OG0 |
            <sup>100</sup> Opea EP00118 Oscarella_pearsei_P012336 | OG0 |
                Stycar_maker-SC_scaffold4676-snap-gene-0.8-mRNA-1 | OG0 |
                   Stycar maker-SC scaffold39133-snap-gene-0.5-mRNA-1 | OG0 |
66
                                    -Tetwil_g13291.t1 | OG0 |
                   •Morvir scaffold140.g38.t1 | OG0 |
                   Aaur scaffold885.g8.t1 | OG0 |
       97
                      •Nemnom g11690.t1 | OG0 |
            100
                      •Rhoesc_Res_017532-T2 | OG0 |
  74
                •Exapal_XM_021061765.2 | OG0 |
      100
                •Nvec v1g24191 | OG0 |
              -Spis XP 022787296 1 | OG0 |
    99
           <sup>100</sup> Pocdam XM 027186344.1 | OG0 |
               •Gasp_gasp1.m3.25291.m1 | OG0 |
        100
                 Fspp ffun1.m4.3943.m1 | OG0 |
                     •Gfas gfas1.m1.8626.m1 | OG0 |
                     Amil Amillepora10964-RA | OG0 |
               100
                        -Adig XM 015922220.1 | OG0 |
                     <sup>100</sup> Adig_XM_015922217.1 | OG0 |
          •Dgig_XM_028543946.1 | OG1 |
93
               •Dgig XM 028548876.1 | OG1 |
           Fspp ffun1.m4.3926.m1 | OG1 |
           -Spis_XP_022787304_1 | OG1 |
            -Pocdam_XM_027186338.1 | OG1 |
          •Fspp_ffun1.m4.3929.m1 | OG1 |
  100
          Gasp gasp1.m3.22038.m1 | OG1 |
            •Spis XP 022787306 1 | OG1 |
         <sup>100</sup> Pocdam XM_027186346.1 | OG1 |
             •Gfas_gfas1.m1.21959.m1 | OG1 |
               Amil Amillepora10993-RA | OG1 |
         100
            <sup>1001</sup>Adig XM_015896360.1 | OG1 |
                  •Skow XM 002738405.2 | OG1 |
                •Hsap ENST00000290349 | OG1 |
            100
                   •Hsap ENST00000290354 | OG1 |
                 Tetwil g19616.t1 | OG1 |
            100
                 •Tetwil g20113.t1 | OG1 |
               Xestes augustus masked-XT scaffold16014-processed-gene-0.1-mRNA-1 | OG1 |
    46
                    Aque_Aqu2.1.35157_001 | OG1 |
66
                 <sup>100</sup>1•Aque_Aqu2.1.35168_001 | OG1 |
                    -Halamb_c54053_g1_i1m.37227 | OG1 |
                 <sup>1001</sup>Halamb c53442_g1_i2m.35535 | OG1 |
      100
                   Opea EP00118 Oscarella pearsei P000839 | OG1 |
                    •Plespi_Pspi_scaffold11578_01 | OG1 |
             100
                    •Plespi_Pspi_scaffold16402_01 | OG1 |
                    ·Stycar_augustus_masked-SC_scaffold77530-processed-gene-0.1-mRNA-1 | OG1 |
              Stycar snap masked-SC_scaffold2070-processed-gene-0.5-mRNA-1 | OG1 |
                    Spolac c102541 g1 i1 m.29820c102541-g1 | OG1 |
           81
                       Spolac_c102541_g4_i1_m.29825c102541-g4 | OG1 |
                         -Emue_Em0003g794a.t1 | OG1 |
              100
                      Emue Em0003g802a.t1 | OG1 |
                 65
  50
                            •Spolac_c102541_g3_i1_m.29823c102541-g3 | OG1 |
                           rEmue_Em0003g793a.t1 | OG1 |
                        <sup>100</sup> Emue_Em0003g752a.t1 | OG1 |
                 •Bralan_BLAG10000452_1 | OG1 |
                 •Bralan BLAG10000456 1 | OG1 |
          100
                   •Bralan_BLAG10000451_1 | OG1 |
             100
                      •Bralan_BLAG10000455_1 | OG1 |
                  <sup>1001</sup>--Bralan_BLAG10000457_1 | OG1 |
               •Skow_XM_002734778.2 | OG1 |
          100
                 •Skow_XM_002734770.2 | OG1 |
             99
                   -Skow_XM_002734776.2 | OG1 |
                 <sup>94</sup> Skow_XM_002734771.2 | OG1 |
                      •Morvir scaffold32.g92.t1 | OG1 |
    42
                       Cscu XM 023359459.1 | OG1 |
                         Cscu_XM_023359458.1 | OG1 |
                 100
                          Cscu_XM_023359437.1 | OG1 |
                     100
                       100 Cscu_XM_023359438.1 | OG1 |
               99
                           <sub>!</sub>Tcas_TC014539_001 | OG1 |
          26
                        <sup>100</sup>L•Tcas_TC014540_001 | OG1 |
                           •Dpul_mRNA16445 | OG1 |
                  98
                                •Dpul mRNA24214 | OG1 |
                    100
                                •Dpul_mRNA5543 | OG1 |
                       99
      63
                                •Dpul mRNA12773 | OG1 |
            96
                                  ·Chem_TCONS_00027086 | OG1 |
                                •Chem_TCONS_00027082 | OG1 |
                        100
                             <sup>1001</sup>-Chem_TCONS_00066733 | OG1 |
                     100
                                •Hvul_g5708_1 | OG1 |
                               •Hvul_g5711_1 | OG1 |
                         100
                            <sup>1001</sup>-Hvul_g5713_1 | OG1 |
              49
                                 •Lcom_lcpid140673 | OG1 |
                           •Lcom_lcpid165704 | OG1 |
                             •Lcom_lcpid218462 | OG1 |
                              •Lcom_lcpid197236 | OG1 |
                   35
                              •Cgig_XM_034443150.1 | OG1 |
                                 •Cgig_XM_034443159.1 | OG1 |
                     97
                            <sup>100</sup>1-Cgig_XM_034459288.1 | OG1 |
                                  ·Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA176382 | OG1 |
                       81
                                         •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA223946 | OG1 |
                                  •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA190021 | OG1 |
                          99
                               <sup>100</sup>-Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA220349 | OG1 |
                            100
                                         •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA152583 | OG1 |
                                         •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA3426 | OG1 |
                                        ·Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA4988 | OG1 |
                         -Spur_XM_030990903.1 | OG1 |
                     <sup>100</sup>1•Spur_XM_001188609.4 | OG1 |
                              •Spur_XM_791929.5 | OG1 |
                               •Spur_XM_011685180.2 | OG1 |
            92
                       100
                                •Spur_XM_030990650.1 | OG1 |
                             <sup>1001</sup>-Spur_XM_011684821.2 | OG1 |
                 100
                             Spur_XM_030990087.1 | OG1 |
                           Spur XM 011669198.2 | OG1 |
                    100
                              -Spur_XM_774962.5 | OG1 |
                          <sup>100</sup>└-Spur_XM_011669199.2 | OG1 |
          23
                        Clacor Ccor scaffold11089 01 | OG1 |
                            Lcom | lcpid89010 | OG1 |
               96
                    100
                            •Scil_scict026058.1 | OG1 |
                  100
                              Lcom_lcpid80666 | OG1 |
                                  •Scil scict004210.1 | OG1 |
                     100
                                 •Gracom Gcom C554678 01 | OG1 |
            69
                      Nvec v1g238099 | OG1 |
                 99
                       •Exapal_XM_021051433.1 | OG1 |
                                      -Cgig_XM_034470541.1 | OG1 |
              62
                             •Vmul_Simscaffold14086_01 | OG1 |
                                •Coemet_Cmet_scaffold3513_01 | OG1 |
                 71
                                     Coemet Cmet C593485 01 | OG1 |
                                       •Vmul_sbMO386771 | OG1 |
                       100
                                99
                                    <sup>100</sup>'Vmul_SimC381830 | OG1 |
                              88
                                            •Vmul_SimC383062 | OG1 |
                                          Coemet_Cmet_C573284_01 | OG1 |
                                 100
                                            •Coeast_Cast_sb771735 | OG1 |
                                         <sup>100</sup> Coeast Cast sb771734 | OG1 |
                                        Lampan_Lpan_14801_01 | OG1 |
                                         Bolinf_Binf_sb1307461 | OG1 |
                                      <sup>100</sup> Beraby_Baby_sb336180 | OG1 |
                                         •Eupdun Edun sb10623279 | OG1 |
                                         •Coemet Cmet scaffold17893 01 | OG1 |
                                           Coemet Cmet scaffold17892 01 | OG1 |
                                        <sup>100</sup> Coeast_Cast_sb781100 | OG1 |
                                        •Mertsp_Mesp_sb578687 | OG1 |
                                         Mertsp Mesp sb578686 | OG1 |
                                   100
                                            Bolinf_Binf_sb1228404 | OG1 |
                                      100
                                         <sup>100</sup> Bolinf_Binf_sb1228405 | OG1 |
                                           Drygla Dgla sb296359 | OG1 |
                                            Horcal_Hcv1.av93.c2.g1586.i1 | OG1 |
                                              Horcal Hcv1.av93.c2.g1586.i2 | OG1 |
                                                -Pbac sb2661326 | OG1 |
                                   85
                                           <sub>"</sub>Vmul_sbMO387506 | OG1 |
                                        <sup>100</sup> Mlei_ML0125.g5.i1 | OG1 |
                                             •Vmul_sbMO387507 | OG1 |
                                              •Mlei ML0125.g6.i1 | OG1 |
                                                 •Bolinf Binf sb1239220 | OG1 |
```