```
•Emue_Em0017g505a.t1 | OG1 |
                                                                            <sup>97</sup>Emue_Em0017g513a.t1 | OG1 |
            Plespi Pspi scaffold705 01 | OG2 |
         <sup>1001</sup>Plespi_Pspi_scaffold706_01 | OG2 |
                      •Plespi_Pspi_scaffold707_01 | OG3 |
                Xestes maker-XT scaffold2255-snap-gene-0.22-mRNA-1 | OG3 |
   65
                        -Xestes_maker-XT_scaffold1714-augustus-gene-0.3-mRNA-1 | OG3 |
            100
                       -Aque Aqu2.1.36790 001 | OG3 |
                       -Halamb c45476 g1 i4mm.1698 | OG3 |
     70
             Stycar_maker-SC_scaffold3362-snap-gene-0.29-mRNA-1 | OG3 |
                 Stycar_maker-SC_scaffold7179-augustus-gene-0.2-mRNA-1 | OG3 |
                    •Tetwil_g25052.t1 | OG3 |
             36
         85
                                                      -Stycar_snap_masked-SC_scaffold140822-processed-gene-0.4-mRNA-1 | OG3 |
                     <sub>!</sub>Spolac_c103040_g1_i1_m.32193c103040-g1 | OG3 |
                   <sup>971</sup>Spolac c103040 g1 i2 m.32194c103040-g1 | OG3 |
                       •Spolac_c103040_g1_i2_m.32195c103040-g1 | OG3 |
                        •Emue Em1158g2a.t1 | OG3 |
                         rEmue_Em0017g520a.t1 | OG3 |
                             Emue_Em0017g507a.t1 | OG3 |
                           <sup>501</sup>Emue Em0017g515a.t1 | OG3 |
                             Emue_Em0017g509a.t1 | OG3 |
                           941 Emue_Em0017g516a.t1 | OG3 |
                                  •Dpul_mRNA11889 | OG0 |
                                                                                       <sub>!</sub>Emue_Em0017g521a.t1 | OG0 |
       53
                                                                                    <sup>100</sup> Emue_Em1158g1a.t1 | OG0 |
                                Clacor Ccor scaffold5029 01 | OG0 |
                           •Clacor Ccor scaffold5028 01 | OG0 |
             100
   64
                                     •Gracom_Gcom_C560028_01 | OG0 |
                90
                                     •Leuniv_Lniv_scaffold5670_01 | OG0 |
                    100
                                    •Leuniv Lniv scaffold5672 01 | OG0 |
                        98
                                   •Lcom | lcpid49097 | OG0 |
                                    Salpun_EP00053_Salpingoeca_punica_P025728 | OG0 |
                         Saldol_EP00054_Salpingoeca_dolichothecata_P014478 | OG0 |
                              Codhol EP00042 Codosiga hollandica P050956 | OG0 |
                              -Codhol EP00042 Codosiga hollandica P050955 | OG0 |
                    100
                         <sup>100</sup> Codhol EP00042 Codosiga hollandica P050957 | OG0 |
        84
                              Salkve EP00050 Salpingoeca kvevrii P015577 | OG0 |
                                 -Salurc_EP00051_Salpingoeca_urceolata_P016558 | OG0 |
                                   -Salurc_EP00051_Salpingoeca_urceolata_P016560 | OG0 |
               46
                               -Salpun_EP00053_Salpingoeca_punica_P025769 | OG0 |
                                      Didcos EP00039 Didymoeca costata P008208 | OG0 |
                                           Diagra_EP00040_Diaphanoeca_grandis_P022567 | OG0 |
                                            -Acaspe_EP00035_Acanthoeca_spectabilis_P032891 | OG0 |
                          99
                                           •Helnan_EP00037_Helgoeca_nana_P033040 | OG0 |
                               99
                                               Stedip_EP00041_Stephanoeca_diplocostata_P034218 | OG0 |
                                                   •Stedip_EP00041_Stephanoeca_diplocostata_P034214 | OG0 |
                                                      Stedip EP00041_Stephanoeca_diplocostata_P034216 | OG0 |
                                •Mylflu_EP00047_Mylnosiga_fluctuans_P011155 | OG0 |
                                Salmac_EP00052_Salpingoeca_macrocollata_P002842 | OG0 |
                 90
                                        Salpun_EP00053_Salpingoeca_punica_P025729 | OG0 |
                                                •Mbre EDQ92040 | OG0 |
                                              •Chofle_EP00730_Choanoeca_flexa_P004619 | OG0 |
                              100
                                          1001 Chofle_EP00730_Choanoeca_flexa_P004620 | OG0 |
                                     100
                                            Choper_EP00045_Choanoeca_perplexa_P013317 | OG0 |
                                         Choper EP00045 Choanoeca_perplexa_P013318 | OG0
                      100
                                                    •Salinf_EP00049_Salpingoeca_infusionum_P027850 | OG0 |
                                             <sup>1001</sup>•Salinf_EP00049_Salpingoeca_infusionum_P027849 | OG0 |
                                          •Sros_EGD73023 | OG0 |
                           100
                                               •Microa_EP00043_Microstomoeca_roanoka_P017704 | OG0 |
                                             Microa_EP00043_Microstomoeca_roanoka_P017702 | OG0 |
                                          100<sup>1</sup>—•Microa_EP00043_Microstomoeca_roanoka_P017703 | OG0 |
                                                   •Pbac_sb2664576 | OG0 |
                 •Coemet_Cmet_scaffold21190_01 | OG0 |
                   --Vmul_Simscaffold16453_01 | OG0 |
     57
                <sub>-</sub>-Lampan_Lpan_C418725_01 | OG0 |
                    •Eupdun_Edun_sb10613434 | OG0 |
          86
                    Drygla Dgla sb299041 | OG0 |
                      •Pbac_sb2665994 | OG0 |
                       Horcal_Hcv1.av93.c8.g18.i1 | OG0 |
                         Pbac_sb2637886 | OG0 |
                            Pbac_sb2638341 | OG0 |
                              -Pbac_sb2643033 | OG0 |
                            <sup>44</sup> Pbac_sb2661699 | OG0 |
                     Mertsp_Mesp_sb566030 | OG0 |
                       Bolinf_Binf_sb1226632 | OG0
                         Mertsp_Mesp_sb566031 | OG0 |
                            Bolinf_Binf_sb1226633 | OG0 |
                          46 Mertsp_Mesp_sb566029 | OG0 |
                     -Mertsp_Mesp_sb566028 | OG0 |
                        •Beraby_Baby_sb345994 | OG0 |
                             Bolinf_Binf_sb1229964 | OG0 |
                          <sup>100</sup>_-Bolinf_Binf_sb1229965 | OG0 |
                             Mlei_ML0224.g4.i1 | OG0 |
                          <sup>100</sup> Vmul_sbMO405294 | OG0 |
                •Plajan_Pjan_scaffold23599_01 | OG0 |
                  Opea EP00118 Oscarella pearsei P013991 | OG0 |
               <sup>100</sup> Ocar_g10662 | OG0 |
                   TrH2_TrispH2_009479-RA | OG0 |
                <sup>1001</sup>Tadh_TriadT29585 | OG0 |
                   <sub>-</sub>HoiH11_mRNA7238 | OG0 |
                      <sub>"</sub>HoiH04_mRNA10704 | OG0 |
                100
                         HoiH23_PIH23_003547-RA | OG0 |
                      <sup>100</sup> HoiH06_mRNA12815 | OG0 |
                     -Bralan_BLAG07001108_1 | OG0 |
                      •Spur_XM_030972079.1 | OG0 |
             98
                     •Skow_XM_006811098.1 | OG0 |
       38
                      •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA171644 | OG0 |
           66
                         •Cgig_XM_034459026.1 | OG0 |
                         •Acagra_model.g1744.t1 | OG0 |
              42
                        -Hsap_ENST00000245157 | OG0 |
                           •Cscu_XM_023385132.1 | OG0 |
                                    •Tcas_TC009218_001 | OG0 |
                   -Dgig_XM_028544123.1 | OG0 |
                    -Xesp_029088-T1 | OG0 |
                            •Hvul_g11068_1 | OG0 |
                        •Morvir_scaffold79.g33.t1 | OG0 |
                73
                                   •Hvul_g11064_1 | OG0 |
            49
                  83
                               •Chem_TCONS_00013319 | OG0 |
                              •Aaur_scaffold105.g9.t1 | OG0 |
                              ┌-Nemnom_g2587.t1 | OG0 |
                           <sup>1001</sup>-Rhoesc_Res_003751-T1 | OG0 |
                      •Nvec_v1g235159 | OG0 |
                  <sup>100</sup> -Exapal_XM_021056137.2 | OG0 |
                       *Spis_XP_022808077_1 | OG0 |
                    <sup>100</sup> Pocdam_XM_027182249.1 | OG0 |
                         •Gasp gasp1.m3.28084.m1 | OG0 |
                  98
                          Fspp ffun1.m4.12540.m1 | OG0 |
                        98 -Gasp_gasp1.m3.28083.m1 | OG0 |
                         •Gfas gfas1.m1.2512.m1 | OG0 |
                          Gfas gfas1.m1.6109.m1 | OG0 |
                             Amil_Amillepora10440-RA | OG0 |
                           <sup>1001</sup>Adig XM _015909814.1 | OG0 |
0.416667
```