```
•Tcas TC013191 001 | OG0 |
                         Cscu XM 023383942.1 | OG0 |
                      <sup>100</sup> Cscu_XM_023383934.1 | OG0 |
            •HoiH11 mRNA5961 | OG0 |
              TrH2_TrispH2_001868-RA | OG0 |
           <sup>1001</sup>Tadh TriadT25148 | OG0 |
      100
             •HoiH23_PIH23_002672-RA | OG0 |
              -HoiH06_mRNA13670 | OG0 |
              <sub>e</sub>Hhon_g05877.t1 | OG0 |
           <sup>100</sup> HoiH04 mRNA2649 | OG0 |
               •Plespi Pspi scaffold19283 01 | OG0 |
                Xestes_maker-XT_scaffold5472-augustus-gene-0.21-mRNA-1 | OG0 |
                   •Halamb_c37775_g1_i1m.10314 | OG0 |
          100
      95
                    Aque_Aqu2.1.13434_001 | OG0 |
                  <sup>100</sup>-Aque Aqu2.1.04045 001 | OG0 |
        99
                  Stycar snap masked-SC scaffold6114-processed-gene-0.5-mRNA-1 | OG0 |
                  •Tetwil g12103.t1 | OG0 |
97
                 •Emue_Em0023g789a.t1 | OG0 |
                   Spolac c95392 g1 i1 m.11421c95392-g1 | OG0 |
             100
                <sup>1001</sup>Spolac_c95392_g1_i2_m.11422c95392-g1 | OG0 |
                     Saldol EP00054 Salpingoeca dolichothecata P013161 | OG0 |
             79
                          •Codhol_EP00042_Codosiga_hollandica_P034353 | OG0 |
                       -Salurc_EP00051_Salpingoeca_urceolata_P013252 | OG0 |
                             -Salkve_EP00050_Salpingoeca_kvevrii_P021853 | OG0 |
                                Salkve EP00050 Salpingoeca kvevrii P021854 | OG0 |
          100
                          •Mylflu EP00047 Mylnosiga fluctuans P003919 | OG0 |
                           Salmac_EP00052_Salpingoeca_macrocollata_P007454 | OG0 |
   69
                           Salpun_EP00053_Salpingoeca_punica_P003847 | OG0 |
                             Didcos EP00039 Didymoeca costata P013067 | OG0 |
             51
                             Diagra EP00040 Diaphanoeca grandis P042623 | OG0 |
                  99
                                Stedip EP00041 Stephanoeca diplocostata P015871 | OG0 |
                    100
                               -Acaspe EP00035 Acanthoeca spectabilis P020935 | OG0 |
                            <sup>100</sup>Ū-Helnan EP00037_Helgoeca_nana_P032426 | OG0 |
               49
                             Salinf_EP00049_Salpingoeca_infusionum_P027334 | OG0 |
                            •Microa EP00043 Microstomoeca_roanoka_P004216 | OG0 |
                   100
                           Sros EGD76835 | OG0 |
                 98
                          Mbre EDQ86720 | OG0 |
                           •Choper EP00045 Choanoeca perplexa P003717 | OG0 |
                           -Chofle_EP00730_Choanoeca_flexa_P016219 | OG0 |
                         Clacor Ccor C530785 01 | OG0 |
                           Lcom lcpid90926 | OG0 |
             100
     62
                               •Scil_scict007250.1 | OG0 |
                               -Gracom_Gcom_scaffold14704_01 | OG0 |
         90
                   Plajan_Pjan_scaffold20638_01 | OG0 |
                 <sup>1001</sup>Plajan Pjan_scaffold20637_01 | OG0 |
                          Opea EP00118 Oscarella pearsei P003945 | OG0 |
                      Opea_EP00118_Oscarella_pearsei_P003946 | OG0 |
                    62 Ocar_g1409 | OG0 |
                              •Hvul_g13909_1 | OG0 |
                      Chem_TCONS_00018354 | OG0 |
                            Hvul g13915 1 | OG0 |
             99
                       •Morvir scaffold283.g5.t1 | OG0 |
                         •Sanmal_Sma_001901-T1 | OG0 |
                95
                        -•Nemnom_g11123.t1 | OG0 |
                     <sup>100</sup><sup>1</sup>•Rhoesc Res_008346-T1 | OG0 |
                         Spur XM 793372.5 | OG0 |
                  100
                       •Skow XM 006813233.1 | OG0 |
       80
           84
                         •Bralan_BLAG01000432_1 | OG0 |
                97
                               Hsap ENST00000339764 | OG0 |
                                Lcom Icpid145163 | OG0 |
                  87
                             Acagra model.g24788.t1 | OG0 |
                            Lcom | lcpid110610 | OG0 |
                            •Cgig_XM_011456828.3 | OG0 |
                               -Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA159520 | OG0 |
                      →Dgig_XM_028556465.1 | OG0 |
                            •Xesp 011216-T2 | OG0 |
                         •Exapal XM 021056507.2 | OG0 |
                     98
                100
                        •Nvec_v1g188073 | OG0 |
                          •Gasp_gasp1.m3.9188.m1 | OG0 |
                            Spis_XP_022805316_1 | OG0 |
         78
                             Pocdam XM 027192681.1 | OG0 |
                           <sup>47</sup>Ū-Fspp_ffun1.m4.19569.m1 | OG0 |
                           •Gfas_gfas1.m1.3014.m1 | OG0 |
                             Amil_Amillepora20258-RA | OG0 |
                              _Adig_XM_015917704.1 | OG0 |
                             <sup>1</sup> Amil Amillepora20228-RA | OG0 |
                     •Eupdun_Edun_sb10640418 | OG0 |
                  <sup>81</sup> Eupdun_Edun_sb10640419 | OG0 |
                     Eupdun_Edun_sb10640420 | OG0 |
                   <sup>991</sup>Eupdun_Edun_sb10640421 | OG0 |
                       Vmul sbMO447255 | OG0 |
                       •Coemet_Cmet_scaffold22289_01 | OG0 |
                  100
                          Coeast_Cast_sb790722 | OG0 |
             100
                           _Coeast_Cast_sb790719 | OG0 |
                     98
                          1<sup>1</sup>Coeast Cast sb790721 | OG0 |
                           Coeast Cast sb790720 | OG0 |
                               -Coeast_Cast_sb790727 | OG0 |
                               Coeast_Cast_sb790725 | OG0 |
                91
                                Coeast_Cast_sb790729 | OG0 |
                             100 Coeast Cast sb790730 | OG0 |
                      •Lampan Lpan 12682 01 | OG0 |
                          Bolinf_Binf_sb1267333 | OG0 |
                            Bolinf_Binf_sb1267334 | OG0 |
                              Bolinf_Binf_sb1267332 | OG0 |
                  94
                            64 Mertsp_Mesp_sb572270 | OG0 |
                           Drygla Dgla sb292768 | OG0 |
                    100
                              <sub>•</sub>Pbac_sb2656908 | OG0 |
                           Mertsp_Mesp_sb548555 | OG0 |
                                Bolinf_Binf_sb1183497 | OG0 |
                       91
                           100
                                  Beraby_Baby_sb332478 | OG0 |
                                <sup>67</sup> Beraby_Baby_sb332479 | OG0 |
                         86
                               Drygla_Dgla_sb292766 | OG0 |
                             <sup>981</sup>Drygla_Dgla_sb292767 | OG0 |
                                  Mlei ML1820.g8.i1 | OG0 |
                               •Mertsp_Mesp_sb557724 | OG0 |
                                     Bolinf_Binf_sb1250491 | OG0 |
                                  0.416667
```