```
•Lcom_lcpid254165 | OG0 |
            Clacor_Ccor_scaffold8161_01 | OG0 |
   85
             •Lcom_lcpid61715 | OG0 |
     87
                Leuniv_Lniv_C810470_01 | OG0 |
         100
                  Scil scict011311.3 | OG0 |
                  Gracom Gcom scaffold2781 01 | OG0 |
              99
                <sup>100</sup>Gracom_Gcom_scaffold2782_01 | OG0 |
                Pbac_sb2657886 | OG0 |
              100
                  Pbac_sb2650182 | OG0 |
                <sup>93</sup> Horcal Hcv1.av93.c6.g1193.i1 | OG0 |
                      •Lampan Lpan 13673 01 | OG0 |
                        Coemet_Cmet_C598589_01 | OG0 |
                          -Coeast_Cast_sb777636 | OG0 |
          100
                    100
                              •Coeast_Cast_sb777634 | OG0 |
                       100
                             Coeast Cast sb777637 | OG0 |
                              Coeast Cast sb777633 | OG0 |
                               Coeast Cast sb777632 | OG0 |
                              <sup>1</sup> Coeast_Cast_sb777635 | OG0 |
                      •Mlei_ML0892.g2.i1 | OG0 |
                        •Beraby_Baby_sb328722 | OG0 |
                          Drygla Dgla sb301159 | OG0 |
              37
                       Bolinf_Binf_sb1267005 | OG0 |
                      91
                          Bolinf_Binf_sb1267004 | OG0 |
                          <sup>11</sup>Bolinf Binf_sb1267007 | OG0 |
                    100
                        Mertsp_Mesp_sb588038 | OG0 |
                         Mertsp_Mesp_sb588039 | OG0 |
                           Mertsp_Mesp_sb588046 | OG0 |
                            Mertsp Mesp sb588040 | OG0 |
                             Mertsp Mesp sb588037 | OG0 |
                            <sup>11</sup>Mertsp Mesp sb588043 | OG0 |
              •Plajan_Pjan_C555785_01 | OG1 |
               <sub>•</sub>Ocar_g3742 | OG1 |
      100
            100 Opea EP00118_Oscarella_pearsei_P028663 | OG1 |
   47
              •Plespi Pspi scaffold18722 01 | OG1 |
                 -Xestes_maker-XT_scaffold122646-augustus-gene-0.10-mRNA-1 | OG1 |
     94
          100
                 Aque_Aqu2.1.43538_001 | OG1 |
                    Stycar_maker-SC_scaffold34083-augustus-gene-0.12-mRNA-1 | OG1 |
       100
                      •Emue Em0010g876a.t1 | OG1 |
          100
                      •Spolac c101222 g1 i1 m.24912c101222-g1 | OG1 |
                    Stycar_maker-SC_scaffold166-snap-gene-0.57-mRNA-1 | OG1 |
             92
                      Tetwil_g5461.t1 | OG1 |
                   <sup>100</sup> -Tetwil_g5464.t1 | OG1 |
                    Salkve EP00050 Salpingoeca kvevrii P017159 | OG1 |
                         Lcom lcpid165846 | OG1 |
                 ·Salurc_EP00051_Salpingoeca_urceolata_P018067 | OG1 |
            <sup>100</sup> Salurc EP00051_Salpingoeca_urceolata_P018068 | OG1 |
                    Didcos_EP00039_Didymoeca_costata_P028243 | OG1 |
           66
                    Diagra EP00040 Diaphanoeca grandis P020573 | OG1 |
 76
     76
                         Stedip EP00041 Stephanoeca diplocostata P019937 | OG1 |
         90
                    Stedip_EP00041_Stephanoeca_diplocostata_P019936 | OG1 |
           100
                    •Acaspe_EP00035_Acanthoeca_spectabilis_P024474 | OG1 |
                     Sros EGD83346 | OG1 |
       55
                100
                     •Microa EP00043 Microstomoeca roanoka P005567 | OG1 |
                     •Mbre_EDQ90527 | OG1 |
            99
                     Chofle EP00730 Choanoeca flexa P016275 | OG1 |
              99
                       Choper EP00045 Choanoeca perplexa P003159 | OG1 |
                100
                    Choper EP00045_Choanoeca_perplexa_P003158 | OG1 |
         60

    Saldol EP00054 Salpingoeca dolichothecata P025878 | OG1 |

                 100 Saldol_EP00054_Salpingoeca_dolichothecata_P025879 | OG1 |
                          Codhol_EP00042_Codosiga_hollandica_P028513 | OG1 |
           56
                     <sup>1001</sup>--Codhol_EP00042_Codosiga_hollandica_P028515 | OG1 |
                         Mylflu EP00047 Mylnosiga fluctuans P001093 | OG1 |
             98
   63
                           Salmac_EP00052_Salpingoeca_macrocollata_P017833 | OG1 |
                  98
                         Salpun_EP00053_Salpingoeca_punica_P010884 | OG1 |
                    •Tcas_TC000542_001 | OG1 |
           78
                        •Lcom | lcpid232552 | OG1 |
                  Xesp 020463-T1 | OG1 |
         59
                    Dgig XM 028543648.1 | OG1 |
             100
                100
                       •Xesp_020462-T1 | OG1 |
       60
                    •Dpul_mRNA23380 | OG1 |
                        •Chem_TCONS_00052757 | OG1 |
         68
                       Morvir scaffold293.g7.t1 | OG1 |
                        Hvul g26386 1 | OG1 |
              100
                         •Morvir_scaffold1161.g1.t1 | OG1 |
                99
                          •Aaur_scaffold608.g15.t1 | OG1 |
                   100
                           -Rhoesc_Res_013064-T1 | OG1 |
                        <sup>59</sup><sup>1</sup>-Nemnom_g4396.t1 | OG1 |
                 Cscu XM 023364428.1 | OG1 |
                  Nvec_NVE22213 | OG1 |
               <sup>1001</sup>Nvec_v1g206542 | OG1 |
                   •Exapal_XM_021057549.2 | OG1 |
           100
                      Amil Amillepora05095-RA | OG1 |
              98
                   <sup>1001</sup>Adig _XM_015917160.1 | OG1 |
       65
                      •Gfas_gfas1.m1.5616.m1 | OG1 |
                100
                        •Gfas_gfas1.m1.9054.m1 | OG1 |
                   95
                            -Pocdam_XM_027183997.1 | OG1 |
                         <sup>[100]</sup>-Spis_XP_022784081_1 | OG1 |
                               Gasp_gasp1.m3.29493.m1 | OG1 |
                       89
                              Gasp_gasp1.m3.2308.m1 | OG1 |
         50
                           •Lcom_lcpid197031 | OG1 |
                      Tadh_TriadT38236 | OG1 |
                   -HoiH11_mRNA5355 | OG1 |
                100
                           HoiH23_PIH23_005053-RA | OG1 |
                        <sup>100</sup> HoiH06_mRNA7565 | OG1 |
                     100
                           HoiH04 mRNA7436 | OG1 |
                        <sup>100</sup> Hhon g06359.t1 | OG1 |
                         •Hsap_ENST00000376588 | OG1 |
                 92
                         Acagra_model.g11516.t1_model.g11518.t1 | OG1 |
               46
                         •Skow_XM_002736510.2 | OG1 |
                          Spur_XM_780097.5 | OG1 |
             50
                      Lcom | cpid182682 | OG1 |
                 76
                          •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA173627 | OG1 |
                        Bralan_BLAG19000880_1 | OG1 |
                          Lcom_lcpid123010 | OG1 |
                          •Cgig XM 011424717.3 | OG1 |
0.416667
```