```
Stycar_maker-SC_scaffold2653-augustus-gene-0.65-mRNA-1 | OG0 |
                       Xestes_maker-XT_scaffold119656-snap-gene-0.43-mRNA-1 | OG0 |
                        -Aque_Aqu2.1.37466_001 | OG0 |
    99
              100
                       •Halamb_c47842_g3_i1mm.2412 | OG0 |
       84
                  •Tetwil g3323.t1 | OG0 |
                     <sup>•</sup>Spolac c96053 g2 i1 m.12481c100477-g1 | OG0 |
         44
                   <sup>991</sup>Spolac c96053 g2_i3_m.12482c100477-g1 | OG0 |
                      •Emue_Em0001g3795a.t1 | OG0 |
                       -Spolac_c100477_g1_i1_m.22551c100477-g1 | OG0 |
                     <sup>921</sup>-Spolac_c100477_g1_i3_m.22554c100477-g1 | OG0 |
58
                       Codhol EP00042 Codosiga hollandica P030797 | OG0 |
                         •Codhol_EP00042_Codosiga_hollandica_P030799 | OG0 |
                       Didcos_EP00039_Didymoeca_costata_P009958 | OG0 |
                         Didcos_EP00039_Didymoeca_costata_P009959 | OG0 |
                       92 Didcos EP00039 Didymoeca costata P009960 | OG0 |
                        Diagra EP00040 Diaphanoeca grandis P019774 | OG0 |
         97
                            Stedip EP00041 Stephanoeca diplocostata P024357 | OG0 |
   100
            100
                  97
                                               Stedip EP00041 Stephanoeca diplocostata P024355 | OG0 |
                             Acaspe EP00035 Acanthoeca spectabilis_P037016 | OG0 |
               100
                        100
                             •Helnan EP00037 Helgoeca nana P027305 | OG0 |
                               Stedip EP00041 Stephanoeca diplocostata P024354 | OG0 |
                        | Stedip EP00041 Stephanoeca_diplocostata_P024356 | OG0
                             -Salinf_EP00049_Salpingoeca_infusionum_P010903 | OG0 |
      49
                                •Microa_EP00043_Microstomoeca_roanoka_P014116 | OG0 |
               100
                        100
                                 •Sros EGD75027 | OG0 |
            100
                                •Mbre EDQ93077 | OG0 |
                            ·Choper_EP00045_Choanoeca_perplexa_P000942 | OG0 |
                    100
                                 Choper EP00045 Choanoeca perplexa P003846 | OG0 |
                       100
                               Chofle_EP00730_Choanoeca_flexa_P003787 | OG0 |
                                 -Chofle EP00730 Choanoeca flexa P003789 | OG0 |
        90
                                 Mylflu EP00047 Mylnosiga fluctuans P017811 | OG0 |
                          Saldol_EP00054_Salpingoeca_dolichothecata_P020348 | OG0 |
                            Saldol_EP00054_Salpingoeca_dolichothecata_P020352 | OG0 |
                               Saldol EP00054 Salpingoeca dolichothecata P020350 | OG0 |
                             99<sup>1</sup>-Saldol EP00054_Salpingoeca_dolichothecata_P020349 | OG0 |
                            Salurc EP00051 Salpingoeca urceolata P029463 | OG0 |
                              Salpun EP00053 Salpingoeca punica P014720 | OG0 |
            69
                                Salmac EP00052 Salpingoeca macrocollata P023487 | OG0 |
                                  Salmac_EP00052_Salpingoeca_macrocollata_P023489 | OG0 |
                            100
              90
                               971 Salmac EP00052 Salpingoeca macrocollata P023488 | OG0 |
                                          Salkve EP00050 Salpingoeca kvevrii P021717 | OG0 |
                                           -Salkve EP00050 Salpingoeca kvevrii P021720 | OG0 |
                                     100
                                             •Salkve_EP00050_Salpingoeca_kvevrii_P021718 | OG0 |
                                             Salkve_EP00050_Salpingoeca_kvevrii_P021719 | OG0 |
              Clacor Ccor scaffold7622 01 | OG0 |
                  Lcom | lcpid90819 | OG0 |
       100
               100 Lcom | lcpid80515 | OG0 |
                     •Gracom_Gcom_scaffold16679_01 | OG0 |
                     •Scil_scict024064.1 | OG0 |
                  <sup>991</sup>-Leuniv Lniv_scaffold16968_01 | OG0 |
  63
                          •Plajan Pjan C569346 01 | OG0 |
                       Opea_EP00118_Oscarella_pearsei_P010677 | OG0 |
                             •Ocar_g565 | OG0 |
    54
                                        -Lampan_Lpan_9747_01 | OG0 |
                                           Vmul sbMO453271 | OG0 |
                                98
        91
                                            -Coeast Cast sb774607 | OG0 |
                                         Toemet Cmet_scaffold4079_01 | OG0 |
                                         •Beraby_Baby_sb334174 | OG0 |
                             100
                                            •Drygla_Dgla_sb283652 | OG0 |
                                           Drygla Dgla sb289970 | OG0 |
                                        <sup>1001</sup>-Drygla_Dgla_sb289971 | OG0 |
                                100
                                            Pbac sb2666881 | OG0 |
                                             •Pbac_sb2656991 | OG0 |
                                              •Pbac_sb2639965 | OG0 |
58
                                              -Horcal Hcv1.av93.c8.g225.i1 | OG0 |
                                            <sup>78</sup> Horcal Hcv1.av93.c8.g225.i2 | OG0 |
                   •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA96530 | OG0 |
                     Hsap ENST00000296292 | OG0 |
                       -Hsap ENST00000607283 | OG0 |
                    •Skow XM 002730862.2 | OG0 |
    82
                    Bralan BLAG05000332 1 | OG0 |
                    •Spur XM 011676494.2 | OG0 |
                      •Acagra_model.g7629.t1.3.5d4008c0 | OG0 |
                       •Cgig_XM_011434785.3 | OG0 |
                           •Cscu XM 023377705.1 | OG0 |
                                    -Tcas TC005308 001 | OG0 |
                  100
                                 •Dpul mRNA20603 | OG0 |
                  •Dgig_XM_028552469.1 | OG0 |
           100
  60
                   •Xesp_010011-T1 | OG0 |
                           •Hvul_g16495_1 | OG0 |
      90
             100
                          •Chem TCONS 00027985 | OG0 |
                        •Morvir_scaffold134.g7.t1 | OG0 |
        99
                         •Sanmal_Sma_005578-T1 | OG0 |
          100
                           •Nemnom_g12883.t1 | OG0 |
                100
                      100
                            •Rhoesc Res_005822-T1 | OG0 |
                   100
                         Aaur scaffold1562.g2.t1 | OG0 |
                      100
                                  •Aaur scaffold6102.g1.t1 | OG0 |
    58
                          •Tadh_TriadT52377 | OG0 |
                           TrH2_TrispH2_000033-RA | OG0 |
                          <sup>98</sup> Tadh_TriadT52378 | OG0 |
                    100
                           •HoiH11 mRNA5373 | OG0 |
                               •HoiH23_PIH23_002601-RA | OG0 |
                            Hhon_g04003.t1 | OG0 |
      38
                            <sup>100</sup> HoiH04 mRNA13402 | OG0 |
                   Exapal XM 021061690.2 | OG0 |
             99
                    •Nvec v1g104237 | OG0 |
                   -Spis_XP_022803610_1 | OG0 |
          100
                <sup>1001</sup>•Pocdam_XM_027192535.1 | OG0 |
                     •Gasp gasp1.m3.22910.m1 | OG0 |
                     •Fspp ffun1.m4.20511.m1 | OG0 |
                      •Gfas gfas1.m1.15336.m1 | OG0 |
                       Amil_Amillepora12337-RA | OG0 |
                    <sup>100</sup> -Adig XM 015916416.1 | OG0 |
```