```
Skow XM 006824497.1 | OG0 |
               -Hsap ENST00000370033 | OG0 |
                                       -Skow XM 006812841.1 | OG0 |
                Bralan BLAG03000352 1 | OG0 |
                  Spur XM 030985435.1 | OG0 |
    65
               Cscu XM 023372027.1 | OG0 |
                     -Tcas_TC011184_001 | OG0 |
          100
                       •Dpul mRNA4474 | OG0 |
      87
              Acagra model.g928.t1 | OG0 |
                 •Cgig XM 011434783.3 | OG0 |
99
             -Morvir_scaffold306.g21.t1 | OG0 |
                  •Hvul_g30277_1 | OG0 |
     100
          100
                 -Chem_TCONS_00029172 | OG0 |
                 Sanmal Sma 008912-T1 | OG0 |
       53
                  Aaur scaffold329.g7.t1 | OG0 |
          100
                  •Aaur_scaffold329.g6.t1 | OG0 |
             93
                       Aaur scaffold329.g8.t1 | OG0 |
  100
                      •Nemnom g9818.t1 | OG0 |
                   <sup>99</sup> Rhoesc Res 003353-T1 | OG0 |
            -•Dgig XM 028547393.1 | OG0 |
              •Xesp 013023-T1 | OG0 |
              •Nvec_v1g159148 | OG0 |
    100
                       •Exapal_XM_021057995.2 | OG0 |
                Gfas gfas1.m1.13837.m1 | OG0 |
                  -Amil Amillepora05709-RA | OG0 |
       100
                     -Adig XM 015910000.1 | OG0 |
                      •Adig_XM_015915221.1 | OG0 |
          100
               Gasp_gasp1.m3.16992.m1 | OG0 |
                  Fspp ffun1.m4.11748.m1 | OG0 |
                    Fspp ffun1.m4.11747.m1 | OG0 |
                     -Spis_XP_022805752_1 | OG0 |
                   99 Pocdam XM 027183950.1 OG0 |
                   TrH2_TrispH2_005009-RA | OG0 |
                <sup>100</sup>Tadh TriadT31410 | OG0 |
                     HoiH23 PIH23 004926-RA | OG0 |
             100
                  <sup>100</sup><sup>1</sup>-HoiH06 mRNA11352 | OG0 |
                     Hhon g07165.t1 | OG0 |
                  Saldol EP00054 Salpingoeca dolichothecata P022189 | OG0 |
  61
                          Codhol EP00042 Codosiga hollandica P021745 | OG0 |
                             Didcos EP00039 Didymoeca costata P028929 | OG0 |
           40
                              Diagra EP00040 Diaphanoeca grandis P026699 | OG0 |
              100
                                 •Acaspe_EP00035_Acanthoeca_spectabilis_P001335 | OG0 |
       100
                  99
                                  •Helnan EP00037 Helgoeca_nana_P016321 | OG0 |
                    100
                              Stedip EP00041 Stephanoeca diplocostata P035065 | OG0 |
                                       Stedip_EP00041_Stephanoeca_diplocostata_P035062 | OG0 |
         91
                                   Stedip_EP00041_Stephanoeca_diplocostata_P035064 | OG0 |
                          Salurc_EP00051_Salpingoeca_urceolata_P029266 | OG0 |
                           Salmac_EP00052_Salpingoeca_macrocollata_P014022 | OG0 |
              46
                  100
                           Salpun_EP00053_Salpingoeca_punica_P018126 | OG0 |
                                Mylflu EP00047 Mylnosiga fluctuans P006394 | OG0 |
                            Saldol_EP00054_Salpingoeca_dolichothecata_P035055 | OG0 |
           45
                           -Salkve_EP00050_Salpingoeca_kvevrii_P007185 | OG0 |
                                     •Microa_EP00043_Microstomoeca_roanoka_P028767 | OG0 |
              32
                    100
                                      Salinf EP00049 Salpingoeca infusionum P011565 | OG0 |
                                     •Mbre_EDQ91406 | OG0 |
                  100
                                    •Chofle EP00730 Choanoeca flexa P019790 | OG0 |
                        100
                                    Chofle EP00730 Choanoeca flexa P019789 | OG0 |
                             100
                                     Choper EP00045 Choanoeca perplexa P007510 | OG0 |
              •Tetwil g23084.t1 | OG0 |
                   -Emue_Em0013g832a.t1 | OG0 |
       86
                  Spolac_c103080_g1_i4_m.32343c100251-g1 | OG0 |
            100
                     -Spolac_c103080_g1_i1_m.32340c100251-g1 | OG0 |
                     Spolac_c103080_g1_i2_m.32341c100251-g1 | OG0 |
    100
                   801Spolac c103080 g1 i3 m.32342c100251-g1 | OG0 |
              Xestes_maker-XT_scaffold83739-snap-gene-0.15-mRNA-1 | OG0 |
                •Aque_Aqu2.1.03710_001 | OG0 |
                  Aque Aqu2.1.42042 001 | OG0 |
             100
                    •Aque_Aqu2.1.05249_001 | OG0 |
                      Aque Aqu2.1.14842 001 | OG0 |
                        Aque_Aqu2.1.14837_001 | OG0 |
  69
                          -Aque Aqu2.1.14839 001 | OG0 |
                        <sup>991</sup>—•Aque_Aqu2.1.14838_001 | OG0 |
             Ocar q7030 | OG0 |
      100
                Opea EP00118 Oscarella pearsei P010758 | OG0 |
              <sup>63</sup>lOcar_g10181 | OG0 |
                     Clacor Ccor scaffold13881 01 | OG0 |
                  •Clacor_Ccor_C511293_01 | OG0 |
    66
        99
                   Gracom_Gcom_scaffold16584_01 | OG0 |
           100
                     Leuniv Lniv scaffold21396 01 | OG0 |
              100
                      -Lcom_lcpid29971 | OG0 |
                            •Scil_scict019032.1 | OG0 |
      91
                           -Eupdun_Edun_sb10638865 | OG0 |
                                   -Vmul_sbMO436103 | OG0 |
                                    Coemet Cmet C603838 01 | OG0 |
                                       -Coeast_Cast_sb780020 | OG0 |
                   100
                                         Coeast Cast sb780019 | OG0 |
                                           Coeast_Cast_sb780017 | OG0 |
                                         991Coeast_Cast_sb780018 | OG0 |
                               Pbac_sb2656891 | OG0 |
                                 Pbac_sb2653903 | OG0 |
                                   Horcal_Hcv1.av93.c11.g103.i1 | OG0 |
                                 <sup>72</sup> Pbac sb2658359 | OG0 |
                                  Bolinf Binf sb1206655 | OG0 |
                         99
                                    Lampan_Lpan_3094_01 | OG0 |
                                  <sup>1001</sup>Lampan_Lpan_3095_01 | OG0 |
                                     •Mlei_ML1311.g32.i1 | OG0 |
                           60
                                    Drygla Dgla sb292971 | OG0 |
                                       Drygla Dgla sb292973 | OG0 |
                             98
                                    <sup>100</sup> Drygla_Dgla_sb292972 | OG0 |
                               80
                                     Beraby Baby sb339196 | OG0 |
                                      •Mlei ML1324.g2.i1 | OG0 |
                                        Bolinf Binf sb1240586 | OG0 |
```

<sup>100</sup> Bolinf Binf\_sb1240587 | OG0 |