```
Lampan Lpan C407627 01 | OG0 |
         -Coemet_Cmet_scaffold20865_01 | OG0 |
       99 - Vmul_SimC385896 | OG0 |
  98
       Beraby_Baby_sb337386 | OG0 |
           -Mlei ML1489.g20.i1 | OG0 |
             Drygla Dgla sb285153 | OG0 |
             -Pbac_sb2659483 | OG0 |
              Pbac sb2659482 | OG0 |
73
            801 Horcal Hcv1.av93.c8.g605.i1 | OG0 |
                         Lcom lcpid203143 | OG0 |
                                           Salinf EP00049 Salpingoeca infusionum P021791 | OG0 |
                                                Sros EGD81774 | OG0 |
    88
                            •Microa_EP00043_Microstomoeca_roanoka_P015036 | OG0 |
                                              Sros_EGD83716 | OG0 |
            99
                                      Lcom | lcpid141259 | OG0 |
                            •Codhol EP00042_Codosiga_hollandica_P037307 | OG0 |
                95
                                     •Mbre EDQ91019 | OG0 |
                                •Chofle_EP00730_Choanoeca_flexa_P020473 | OG0 |
                  96
                                  Choper_EP00045_Choanoeca_perplexa_P005155 | OG0 |
                           Salkve EP00050 Salpingoeca kvevrii P013135 | OG0 |
                              -Salkve EP00050 Salpingoeca kvevrii P013136 | OG0 |
                                Diagra_EP00040_Diaphanoeca_grandis_P028155 | OG0 |
                                 -Acaspe_EP00035_Acanthoeca_spectabilis_P020242 | OG0 |
                              <sup>100</sup><sup>-</sup>Helnan_EP00037_Helgoeca_nana_P006091 | OG0 |
                                  Lcom | lcpid123910 | OG0 |
                                Stedip EP00041 Stephanoeca diplocostata P011470 | OG0 |
                                    Didcos_EP00039_Didymoeca_costata_P001530 | OG0 |
                          55
                                     Salmac EP00052 Salpingoeca macrocollata P002597 | OG0 |
                                       Salpun_EP00053_Salpingoeca_punica_P024965 | OG0 |
                                     •Mylflu EP00047 Mylnosiga fluctuans P017943 | OG0 |
                                         Salurc EP00051 Salpingoeca urceolata P005935 | OG0 |
                                          Saldol EP00054 Salpingoeca dolichothecata P004800 | OG0 |
        Opea_EP00118_Oscarella_pearsei_P010021 | OG1 |
     <sup>100</sup> Opea_EP00118_Oscarella_pearsei_P010022 | OG1 |
        <sub>-</sub>Morvir scaffold450.g6.t1 | OG1 |
            •Chem TCONS 00005327 | OG1 |
                            -Hvul_g3156_1 | OG1 |
          -Sanmal Sma 009194-T1 | OG1 |
           -Aaur_scaffold540.g3.t1 | OG1 |
              Nemnom g9561.t1 | OG1 |
           <sup>1001</sup>Rhoesc_Res_013342-T1 | OG1 |
             •Clacor_Ccor_C524145_01 | OG1 |
                         -Lcom_lcpid75073 | OG1 |
                               -Gracom_Gcom_scaffold14296_01 | OG1 |
                              -Scil scict013323.1 | OG1 |
            -Dgig XM 028552200.1 | OG1 |
               Xesp_004107-T1 | OG1 |
             <sup>100</sup> Xesp_004310-T1 | OG1 |
            Fspp ffun1.m4.1164.m1 | OG1 |
        95
    57
               •Gasp gasp1.m3.7828.m1 | OG1 |
          87
                   Spis XP 022805102 1 | OG1 |
                 <sup>69</sup> Pocdam_XM_027189356.1 | OG1 |
                       •Nvec_v1g159210 | OG1 |
                   <sup>67</sup>-Exapal XM_021041783.2 | OG1 |
                     Gfas gfas1.m1.17712.m1 | OG1 |
                        Amil Amillepora18501-RA | OG1 |
      60
                     <sup>100</sup> Adig XM 015916329.1 | OG1 |
                -Plespi Pspi scaffold19794 01 | OG1 |
                  Spolac c99052 g1 i2 m.18674c99052-g1 | OG1 |
               <sup>100</sup> Spolac_c99052_g1_i3_m.18675c99052-g1 | OG1 |
                    -Tetwil g17141.t1 | OG1 |
                                  -Stycar_maker-SC_scaffold4085-augustus-gene-0.71-mRNA-1 | OG1 |
                    <sub>f</sub>-Xestes_maker-X1_scaποια5950-augustus-gene-0.52-mRNA-1 | OG1 |
                    Halamb_c32888_g1_i2mm.284 | OG1 |
        45
                    72 - Aque Aqu2.1.42631_001 | OG1 |
                   Spur XM 778705.5 | OG1 |
                <sup>100</sup> Spur _XM_030973581.1 | OG1 |
                •Hsap_ENST00000355621 | OG1 |
          54
                  •Bralan_BLAG05001171_1 | OG1 |
            53
                    •Cscu XM 023377196.1 | OG1 |
                          -Dpul_mRNA7836 | OG1 |
              66
                           Tcas_TC005175_001 | OG1 |
                          Acagra_model.g8535.t1 | OG1 |
                           Ctel gnl WGS AMQN CAPTEDRAFT mRNA130972 | OG1 |
                        Cgig XM 011434075.3 | OG1 |
                                  -Skow XM 006813688.1 | OG1 |
                     61
                                                           •Tcas_TC009277_001 | OG1 |
                                      TrH2_TrispH2_004741-RA | OG1 |
                                    <sup>67</sup> Tadh TriadT23542 | OG1 |
                            96
                                        HoiH11 mRNA8763 | OG1 |
                                           HoiH23 PIH23 008913-RA | OG1 |
                                            -HoiH06_mRNA10152 | OG1 |
                                          Hhon_g09356.t1 | OG1 |
                                        <sup>67</sup> HoiH04 mRNA7065 | OG1 |
                                                   HoiH23 PIH23 008912-RA | OG1 |
                                                <sup>100</sup> HoiH06_mRNA5426 | OG1 |
```