```
•Saldol_EP00054_Salpingoeca_dolichothecata_P031613 | OG0 |

    Xestes augustus masked-XT scaffold49745-processed-gene-0.0-mRNA-1 | OG0 |

   100
                   100
                               -Xestes_augustus_masked-XT_scaffold19227-processed-gene-0.0-mRNA-1 | OG0 |
                   | Salmac_EP00052_Salpingoeca_macrocollata_P006745 | OG1
                     Salpun EP00053 Salpingoeca punica P019590 | OG1 |
           100
                     Salmac EP00052 Salpingoeca macrocollata P006744 | OG1 |
      80
                      Diagra_EP00040_Diaphanoeca_grandis_P000803 | OG1 |
                    Acaspe_EP00035_Acanthoeca_spectabilis_P037153 | OG1 |
            100
                    -Helnan_EP00037_Helgoeca_nana_P026341 | OG1 |
                     TrH2_TrispH2_001792-RA | OG1 |
                  <sup>100</sup> Tadh TriadT37496 | OG1 |
                        -HoiH04_mRNA5683 | OG1 |
               100
                     <sup>100</sup> Hhon_g02145.t1 | OG1 |
                  100
                        -HoiH06_mRNA11392 | OG1 |
                     <sup>1001</sup>HoiH23_PIH23_005479-RA | OG1 |
                      Clacor Ccor scaffold11737 01 | OG1 |
          98
                       •Scil_scict004364.1 | OG1 |
               100
                        Leuniv Lniv scaffold13949 01 | OG1 |
                   100
                           •Lcom_lcpid29642 | OG1 |
                            Gracom Gcom scaffold11429 01 | OG1 |
                          Gracom Gcom_scaffold11430_01 | OG1
             100
                          •Clacor_Ccor_scaffold6724_01 | OG1 |
                             Clacor_Ccor_scaffold6723_01 | OG1
                       100
                          100
   100
        95
                        •Lcom_lcpid56279 | OG1 |
                          •Gracom_Gcom_scaffold12479_01 | OG1 |
                   100
                           -Scil_scict018207.1 | OG1 |
                           -Leuniv_Lniv_C814966_01 | OG1 |
                    •Plajan_Pjan_C571592_01 | OG1 |
                   ·Opea EP00118 Oscarella pearsei P025710 | OG1 |
                <sup>100</sup>Ū•Ocar_g3949 | OG1 |
                    Dgig XM 028552066.1 | OG1 |
                     •Xesp_004369-T1 | OG1 |
          98
                        •Morvir_scaffold137.g30.t1 | OG1 |
                                  •Hvul_g9660_1 | OG1 |
                  100
                                 •Hvul_g9661_1 | OG1 |
                       100
             100
                               Chem TCONS 00068035 | OG1 |
                            •Sanmal_Sma_009615-T1 | OG1 |
                             •Nemnom_g16981.t1 | OG1 |
                          <sup>100</sup><sup>1</sup>-Rhoesc_Res_013678-T1 | OG1 |
                           •Exapal_XM_021048479.2 | OG1 |
                     100
                          •Nvec_v1g200699 | OG1 |
                          •Gasp_gasp1.m3.11344.m1 | OG1 |
      93
                  100
                             •Spis_XP_022791428_1 | OG1 |
                          <sup>100</sup><sup>1</sup>-Pocdam_XM_027194003.1 | OG1 |
                     100
                           •Gfas_gfas1.m1.2210.m1 | OG1 |
                             Amil Amillepora16825-RA | OG1 |
                           •Cscu_XM_023366406.1 | OG1 |
                          •Dpul_mRNA28678 | OG1 |
             100
                100
                           •Tcas_TC015614_001 | OG1 |
                      Hsap ENST00000652515 | OG1 |
                100
                         •Hsap ENST00000273450 | OG1 |
                       76
                 99
                       Spur_XM_011667288.2 | OG1 |
                        •Bralan_BLAG05000048_1 | OG1 |
                             ·Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA228199 | OG1 |
                 93
                            •Acagra_model.g8869.t1.1.5d3b85c2 | OG1 |
                            •Cgig_XM_034452372.1 | OG1 |
                        •Tetwil_g19670.t1 | OG1 |
                          Stycar_maker-SC_scaffold1521-augustus-gene-0.5-mRNA-1 | OG1 |
        62
                      Spolac_c104520_g1_i1_m.41157c104520-g1 | OG1 |
                                        <u>-Emue_Em0001g332a.t1 | OG1 |</u>
                                     <sup>100</sup> -Emue_Em0001g359a.t1 | OG1 |
             100
                     •Xestes_maker-XT_scaffold184012-augustus-gene-0.15-mRNA-1 | OG1 |
                       -Halamb c45484_g1_i1m.19051 | OG1 |
                100
                         •Aque_Aqu2.1.40332_001 | OG1 |
                   87
                         <sub>r</sub>Halamb_c15374_g1_i1m.2628 | OG1 |
                     82
                          Aque_Aqu2.1.04571_001 | OG1 |
                         801 Ague Agu2.1.05725 001 | OG1 |
          92
                       •Vmul_sbMO430047 | OG1 |
                         Coemet_Cmet_C607228_01 | OG1 |
                    98
                              Drygla Dgla sb302827 | OG1 |
                      92
                            <sup>581</sup>Drygla_Dgla_sb302826 | OG1 |
                              -Drygla_Dgla_sb302828 | OG1 |
                            <sup>70</sup> Drygla_Dgla_sb302829 | OG1 |
                          •Lampan_Lpan_5930_01 | OG1 |
                 100
                           Eupdun Edun sb10650047 | OG1 |
                             Eupdun_Edun_sb10650046 | OG1 |
                               Eupdun Edun sb10650045 | OG1 |
                                Eupdun_Edun_sb10650044 | OG1 |
                               331 Eupdun Edun sb10650049 | OG1 |
                    89
                           Bolinf Binf sb1244778 | OG1 |
                             Bolinf_Binf_sb1244777 | OG1 |
                              Mertsp_Mesp_sb583822 | OG1 |
                             <sup>79</sup> Mertsp Mesp sb583823 | OG1 |
                             Bolinf Binf sb1196142 | OG1 |
                               Drygla_Dgla_sb273815 | OG1 |
                             62 Beraby_Baby_sb348761 | OG1 |
                               Pbac_sb2663148 | OG1 |
                                    •Pbac_sb2663149 | OG1 |
                                •Mlei ML2016.g3.i1 | OG1 |
                                    Bolinf Binf sb1261772 | OG1 |
                                     Bolinf_Binf_sb1261774 | OG1 |
                            100
                                      Bolinf_Binf_sb1261771 | OG1 |
                                      1-Bolinf Binf sb1261773 | OG1 |
                               100
                                    Mertsp Mesp sb562788 | OG1 |
                                        Bolinf_Binf_sb1261775 | OG1 |
                                      62 Bolinf_Binf_sb1261776 | OG1 |
                                           Bolinf_Binf_sb1261777 | OG1 |
                                         <sup>48</sup> Bolinf_Binf_sb1261778 | OG1 |
                                           Bolinf Binf sb1261779 | OG1 |
                                         94 Bolinf Binf sb1261780 | OG1 |
0.416667
```