```
Xestes_augustus_masked-XT_scaffold67885-processed-gene-0.0-mRNA-1 | OG0 |
           100
                                   -Xestes_augustus_masked-XT_scaffold40748-processed-gene-0.0-mRNA-1 | OG0 |
                                                   -Xestes_augustus_masked-XT_scaffold165020-processed-gene-0.0-mRNA-1 | OG1 |
  98
                                  •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA142168 | OG1 |
       96
                 100
                                 •Aaur_scaffold683.g40.t1 | OG1 |
                       Xestes_augustus_masked-XT_scaffold72960-processed-gene-0.0-mRNA-1 | OG2 |
                  -Xestes_maker-XT_scaffold2655-snap-gene-0.390-mRNA-1 | OG2 |
             100<sup>1</sup>-Xestes_snap_masked-XT_scaffold23811-processed-gene-0.1-mRNA-1 | OG2 |
                     ·Xestes_augustus_masked-XT_scaffold116033-processed-gene-0.0-mRNA-1 | OG6 |
  98
                            -•Tadh_TriadT63032 | OG3 |
                         •Spis_Spis25557_1 | OG3 |
    87
                               -Spis_Spis22601_1 | OG4 |
                94
                               •Morvir_scaffold121.g49.t1 | OG4 |
                                           Tadh_TriadT34857 | OG4 |
       88
                              -Xestes_augustus_masked-XT_scaffold161381-processed-gene-0.2-mRNA-1 | OG4 |
                        Xestes_augustus_masked-XT_scaffold179854-processed-gene-0.0-mRNA-1 | OG4 |
                            -Lcom_lcpid165354 | OG7 |
         65
                              •Clacor_Ccor_scaffold15410_01 | OG5 |
                              •Scil_scict022374.1 | OG5 |
                   100
                               •Gracom_Gcom_C555288_01 | OG5 |
                       100
                                  •Lcom_lcpid75524 | OG5 |
            99
                                   -Leuniv_Lniv_C813366_01 | OG5 |
                             <sub>_</sub>TrH2_TrispH2_009769-RA | OG5 |
                          <sup>100</sup>Tadh_TriadT61292 | OG5 |
                               Hhon_g07252.t1 | OG5
                        100
                             <sup>100</sup> HoiH04_mRNA11630 | OG5
               94
                               <sub>-</sub>HoiH11_mRNA8210 | OG5 |
                                <sub>_</sub>-HoiH23_PIH23_011252-RA | OG5 |
                               <sup>97</sup> HoiH06_mRNA13830 | OG5 |
                           •Plajan_Pjan_C561824_01 | OG5 |
                               Opea EP00118 Oscarella pearsei P002419 | OG5 |
                                   Bralan BLAG04000929 1 | OG5 |
                 61
                           62
                                        •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA172326 | OG5 |
                         65
                                  •Hsap_ENST00000366560 | OG5 |
                                     •Cscu_XM_023381672.1 | OG5 |
                           95
                                     •Dpul_mRNA2386 | OG5 |
                                      -Tcas TC013056 001 | OG5 |
                       66
                                   Spur_XM_030999768.1 | OG5 |
                           48
                                     •Cgig_XM_034470355.1 | OG5 |
                                    -Skow_XM_002740726.2 | OG5 |
                                 <sup>56</sup> Skow_XM_006824530.1 | OG5 |
                                    •Acagra_model.g15840.t1_model.g15842.t1 | OG5 |
                                                               -Rhoesc_Res_002088-T1 | OG5 |
                                       •Hvul_g32698_1 | OG5 |
                                    •Chem_TCONS_00001576 | OG5 |
                           88
                                       •Hvul_g32693_1 | OG5 |
                                    •Morvir_scaffold50.g70.t1 | OG5 |
                             84
                                        •Aaur_scaffold781.g3.t1 | OG5 |
                                        •Sanmal_Sma_027242-T1 | OG5 |
                                         <sub>_</sub>•Nemnom_g9035.t1 | OG5 |
                         79
                                       •Dgig_XM_028553957.1 | OG5 |
                              100
                                   •Xesp_012405-T1 | OG5 |
                                      •Exapal_XM_021050525.2 | OG5 |
                                      Nvec_v1g237597 | OG5 |
                                100
                                          -Nvec v1g75756 | OG5 |
                                           •Nvec_NVE23094 | OG5
                              100
                                    •Pocdam_XM_027182969.1 | OG5 |
                                      •Gasp_gasp1.m3.15809.m1 | OG5 |
                                        •Fspp_ffun1.m4.14165.m1 | OG5
                                           •Gfas_gfas1.m1.7899.m1 | OG5 |
                                            <sub>J</sub>Adig_XM_015902857.1 | OG5 |
                                          -Emue_Em0019g199a.t1 | OG5 |
                                    -Spolac c100759 g1 i1 m.23449c100759-g1 | OG5 |
                                   Stycar maker-SC scaffold104286-snap-gene-0.19-mRNA-1 | OG5 |
                                       •Tetwil g21614.t1 | OG5 |
                                         Xestes_maker-XT_scaffold5936-augustus-gene-0.36-mRNA-1 | OG5 |
                                96
                                           -Aque_Aqu2.1.38794_001 | OG5 |
                                  100
                         45
                                     100 Halamb_c52736_g1_i1m.33830 | OG5 |
                                      •Plespi Pspi scaffold10249 01 | OG5 |
                                           -Xestes_augustus_masked-XT_scaffold116033-processed-gene-0.1-mRNA-1 | OG5 |
                                         •Eupdun Edun sb10696873 | OG5 |
                           53
                                         •Eupdun_Edun_sb10643319 | OG5 |
                             89
                                        *Bolinf Binf sb1270093 | OG5 |
                                     1001 Mertsp Mesp_sb589804 | OG5 |
                                98
                                            •Lampan Lpan 14219 01 | OG5 |
                                                                      •Coemet_Cmet_scaffold20692_01 | OG5 |
                                       63
                                                Vmul_sbMO452552 | OG5 |
                                   82
                                         53
                                             100
                                                   -- Vmul sbMO452553 | OG5 |
                                                Coemet Cmet scaffold20691 01 | OG5 |
                                                   Coeast Cast sb797165 | OG5 |
                                                100 Coeast_Cast_sb797166 | OG5 |
                                              •Pbac_sb2662200 | OG5 |
                                               →Pbac sb2637739 | OG5 |
                                              Horcal Hcv1.av93.c8.g314.i1 | OG5 |
                                                Pbac sb2637657 | OG5 |
                                              90 -Pbac_sb2637894 | OG5 |
                                           -Mlei_ML1254.g1.i1 | OG5 |
                                               -Beraby_Baby_sb325741 | OG5 |

    Drygla Dgla sb293056 | OG5 |

                                                  Mertsp_Mesp_sb555409 | OG5 |
                                               100 Bolinf_Binf_sb1274924 | OG5 |
                                                  85 Bolinf_Binf_sb1274925 | OG5 |
0.416667
```