```
•Codhol EP00042 Codosiga hollandica P048239 | OG0 |
          <sub>*</sub>Saldol_EP00054_Salpingoeca_dolichothecata_P029633 | OG0 |
   86
              Saldol EP00054 Salpingoeca dolichothecata P029634 | OG0 |
       100
          <sup>100</sup> -Saldol_EP00054_Salpingoeca_dolichothecata_P029635 | OG0 |
                Didcos EP00039 Didymoeca costata P018557 | OG0 |
                     Diagra EP00040 Diaphanoeca grandis P039288 | OG0 |
        100
                   Stedip EP00041 Stephanoeca diplocostata P007733 | OG0 |
                         -Acaspe_EP00035_Acanthoeca_spectabilis_P020604 | OG0 |
             100
                      <sup>100</sup>-Helnan EP00037_Helgoeca_nana_P008760 | OG0 |
               Salinf EP00049 Salpingoeca infusionum P018100 | OG0 |
             •Sros EGD79014 | OG0 |
        100<sup>1</sup>-Microa EP00043_Microstomoeca_roanoka_P027267 | OG0 |
   90
             Lcom | lcpid163403 | OG0 |
             •Mbre_EDQ85742 | OG0 |
               •Chofle EP00730 Choanoeca flexa P017736 | OG0 |
       100
           <sup>1001</sup>-Choper EP00045 Choanoeca_perplexa_P005433 | OG0 |
                •Mylflu_EP00047_Mylnosiga_fluctuans_P002461 | OG0 |
              -Salmac_EP00052_Salpingoeca_macrocollata_P004651 | OG0 |
     53
              ·Salkve_EP00050_Salpingoeca_kvevrii_P015672 | OG0 |
       96
               Salurc EP00051 Salpingoeca urceolata P027496 | OG0 |
             •Lcom | lcpid198604 | OG0 |
   80
                   Lcom lcpid128044 | OG0 |
                      •Lcom | lcpid184660 | OG0 |
       100
                   •Hsap_ENST00000411763 | OG0 |
                        •Bralan BLAG11000701 1 | OG0 |
            100
                           •Cscu XM 023353962.1 | OG0 |
                    82
                             --Tcas_TC011923_001 | OG0 |
                          99<sup>1</sup>-Dpul_mRNA21708 | OG0 |
                      98
               61
                           •Ctel_gnl_WGS_AMQN_CAPTEDRAFT_mRNA168189 | OG0 |
                            Acagra model.g30555.t1.1.5d3b8d08 | OG0 |
                               -Cgig XM 011453509.3 | OG0 |
                            95\Lcom | lcpid88818 | OG0 |
                         Skow_XM_006819827.1 | OG0 |
                 49
                          •Spur_XM_774810.5 | OG0 |
                                 •Morvir scaffold23.g41.t2 | OG0 |
                                         •Chem TCONS 00002816 | OG0 |
                                     -Chem_TCONS_00002819 | OG0 |
                            99
                                   89<sup>1</sup>-Hvul g21590 1 | OG0 |
                              96
                                       •Morvir_scaffold807.g1.t1 | OG0 |
                                      •Sanmal Sma 020409-T1|OG0|
                                          •Sanmal Sma 020411-T1 | OG0
                                   100
                                           Rhoesc Res 010390-T1 | OG0 |
                          99
                                        100 Nemnom_g6303.t1 | OG0 |
                                  <sub>"</sub>Dgig_XM_028538396.1 | OG0 |
                              <sup>100</sup>-Xesp 013347-T1 | OG0 |
                      56
                                    -Nvec v1g102934 | OG0 |
                                       Exapal XM 021062107.1 | OG0 |
                                         •Exapal_XM_028659052.1 | OG0 |
                                       •Gfas_gfas1.m1.21216.m1 | OG0 |
                               100
                                         Amil Amillepora32202-RA | OG0 |
                                       <sup>1001</sup>Adig XM _015924150.1 | OG0 |
                                  100
                                       Fspp ffun1.m4.32872.m1 | OG0 |
                                         rGasp_gasp1.m3.22689.m1 | OG0 |
                                            Pocdam_XM_027195667.1 | OG0 |
                                         <sup>1001</sup>•Spis XP 022783411_1 | OG0 |
                                    •Ocar g8005 | OG0 |
                                 100 Opea_EP00118_Oscarella_pearsei_P005444 | OG0 |
                                     •Clacor_Ccor_scaffold4982_01 | OG0 |
                                       •Lcom_lcpid59577 | OG0 |
                                 100
                            86
                                         Gracom Gcom scaffold11789 01 | OG0 |
                                           Scil scict002726.1 | OG0 |
                                         <sup>881</sup>-Leuniv_Lniv_C803950_01 | OG0 |
                                       | Stycar_maker-SC_scaffold4892-augustus-gene-0.10-mRNA-1
                                            -Tetwil_g25221.t2 | OG0 |
                                           100
                                        <sup>1</sup> Spolac_c104148_g1_i3_m.38459c104148-g1 | OG0 |
                                         -Xestes_maker-XT_scaffold4676-snap-gene-0.27-mRNA-1 | OG0 |
                                           -Aque_Aqu2.1.18863_001 | OG0 |
                                             _Halamb_c12599_g1_i1m.2048 | OG0 |
                          78
                                           <sup>92</sup> Halamb c22069_g1_i1m.3959 | OG0 |
                                     <sub>f</sub>Hhon_g09213.t1 | OG0 |
                                   <sup>89</sup> HoiH04_mRNA3743 | OG0 |
                                        <sub>!</sub>Tadh_TriadT64000 | OG0 |
                                     <sup>100</sup> TrH2_TrispH2_005085-RA | OG0 |
                                       HoiH06 mRNA12490 | OG0 |
                                          <sub>s</sub>HoiH23_PIH23_001377-RA | OG0 |
                                        82 HoiH11_mRNA3231 | OG0 |
                                     Eupdun_Edun_sb10630643 | OG0 |
                                       Eupdun Edun sb10630642 | OG0 |
                                            <sub>f</sub>Eupdun_Edun_sb10630644 | OG0 |
                            98
                                         <sup>82</sup>-Eupdun_Edun_sb10630645 | OG0 |
                                           Eupdun_Edun_sb10630648 | OG0 |
                                       85
                                             Eupdun_Edun_sb10630646 | OG0 |
                                            951 Eupdun_Edun_sb10630647 | OG0 |
                                            •Pbac_sb2664293 | OG0 |
                                             -Horcal_Hcv1.av93.c4.g262.i1 | OG0 |
                                                •Pbac_sb2654090 | OG0 |
                                          96
                                100
                                                 Pbac_sb2669480 | OG0 |
                                                  <sub>]</sub>Pbac_sb2666821 | OG0 |
                                                 88 Horcal_Hcv1.av93.c4.g262.i2 | OG0 |
                                            r-Mlei_ML1320.g20.i1 | OG0 |
                                              <sub>[</sub>•Beraby_Baby_sb328272 | OG0 |
                                               _•Mertsp_Mesp_sb619040 | OG0 |
                                              <sup>94</sup><sup>1</sup>-Lampan_Lpan_12847_01 | OG0 |
                                             Drygla_Dgla_sb293632 | OG0 |
                                              Drygla_Dgla_sb293630 | OG0 |
                                                Drygla_Dgla_sb293629 | OG0 |
                                               <sup>97</sup> •Drygla_Dgla_sb293631 | OG0 |
                                        •Vmul_sbMO459417 | OG0 |
                                             Coemet_Cmet_scaffold1428_01 | OG0 |
                                               -Coeast_Cast_sb795310 | OG0 |
                                          28
                                                 •Coeast_Cast_sb795314 | OG0 |
                                     100
                                             42
                                                     <sub>!</sub>Coeast_Cast_sb795316 | OG0 |
                                                   <sup>991</sup>Coeast Cast sb795317 | OG0 |
                                        96
                                                     Coeast Cast sb795311 | OG0 |
                                                   83 Coeast_Cast_sb795312 | OG0 |
                                             Coemet Cmet scaffold1429 01 | OG0 |
                                               <u>-</u>Coeast_Cast_sb795313 | OG0 |
                                                 Coeast_Cast_sb795319 | OG0 |
                                                     -Coeast_Cast_sb795315 | OG0 |
                                                   <sup>81</sup> Coeast_Cast_sb795318 | OG0 |
                                                     Coeast_Cast_sb795321 | OG0 |
                                                   991 Coeast_Cast_sb795322 | OG0 |
0.416667
```