```
100
 94
           100
    60
       28
          30
             84
                 98
          88
             81
                98
                   98
       53
                65
                   98
             46
                      100
                         95
                     100
               100
                   82
                      97
                         99
                               99
                                  100
                                      97
0.416667
```

•Salurc\_EP00051\_Salpingoeca\_urceolata\_P030130 | OG0 | Salkve EP00050 Salpingoeca kvevrii P020527 | OG0 | Salkve\_EP00050\_Salpingoeca\_kvevrii\_P020528 | OG0 | | Salinf\_EP00049\_Salpingoeca\_infusionum\_P002810 | OG0 Microa EP00043 Microstomoeca\_roanoka\_P025297 | OG0 | Sros EGD76240 | OG0 | •Mbre EDQ86771 | OG0 | •Chofle\_EP00730\_Choanoeca\_flexa\_P013151 | OG0 | •Choper\_EP00045\_Choanoeca\_perplexa\_P000245 | OG0 | Codhol\_EP00042\_Codosiga\_hollandica P016770 | OG0 | Codhol EP00042 Codosiga\_hollandica\_P016769 | OG0 | •Mylflu\_EP00047\_Mylnosiga\_fluctuans\_P005642 | OG0 | Salmac\_EP00052\_Salpingoeca\_macrocollata\_P026688 | OG0 | -Salpun\_EP00053\_Salpingoeca\_punica\_P000359 | OG0 | Saldol EP00054 Salpingoeca dolichothecata P004915 | OG0 | <sup>100</sup> Saldol EP00054 Salpingoeca dolichothecata P004916 | OG0 | -Didcos\_EP00039\_Didymoeca\_costata\_P028271 | OG0 | 100 Didcos\_EP00039\_Didymoeca\_costata\_P028272 | OG0 | Diagra\_EP00040\_Diaphanoeca\_grandis\_P008928 | OG0 | Stedip\_EP00041\_Stephanoeca\_diplocostata\_P013889 | OG0 | Acaspe EP00035 Acanthoeca spectabilis P005088 | OG0 | •Helnan\_EP00037\_Helgoeca\_nana\_P008297 | OG0 | •Opea\_EP00118\_Oscarella\_pearsei\_P006189 | OG0 | •Plajan\_Pjan\_C540514\_01 | OG0 | Cscu XM 023387293.1 | OG0 | Cscu XM 023387290.1 | OG0 50 Cscu XM 023387292.1 | OG0 | Plespi\_Pspi\_scaffold11798\_01 | OG0 | <sup>100</sup>Plespi\_Pspi\_scaffold11799\_01 | OG0 | Xestes\_maker-XT\_scaffold13274-snap-gene-0.31-mRNA-1 | OG0 | •Aque Aqu2.1.36201 001 | OG0 | •Halamb\_c43873\_g1\_i1m.16725 | OG0 | •Spolac\_c77876\_g1\_i1\_m.1965c77876-g1 | OG0 | •Tetwil g7866.t1 | OG0 | stycar\_snap\_masked-SC\_scaffold134899-processed-gene-0.13-mRNA-1 | OG0 | <sup>1001</sup>-Stycar \_augustus\_masked-SC\_scaffold23-processed-gene-0.15-mRNA-1 | OG0 | •Sanmal\_Sma\_020804-T1 | OG0 | •Nemnom\_g3986.t1 | OG0 | Aaur scaffold1289.g8.t1 | OG0 | •Morvir\_scaffold154.g23.t1 | OG0 | •Morvir\_scaffold154.g24.t1 | OG0 | Chem\_TCONS\_00022900 | OG0 | •Hvul\_g15439\_1 | OG0 | Spur XM 793209.5 | OG0 | <sup>100</sup> Spur XM\_001185644.3 | OG0 | •Acagra\_model.g25808.t1 | OG0 | <sup>100</sup><sup>1</sup>-Cgig\_XM\_011450344.3 | OG0 | TrH2\_TrispH2\_008458-RA | OG0 | <sup>100</sup><sup>1</sup>Tadh\_TriadT27077 | OG0 | •HoiH11\_mRNA6377 | OG0 | <sub>f</sub>Hhon\_g01740.t1 | OG0 | HoiH23 PIH23 006393-RA | OG0 | HoiH23 PIH23 010780-RA | OG0 | 60 -HoiH06\_mRNA5478 | OG0 | •Nvec\_v1g236523 | OG0 | •Xesp\_012887-T1 | OG0 | <u>-Dgig\_XM\_028537897.1 | OG0 |</u> 99 Dgig XM 028562797.1 | OG0 | Exapal\_XM\_021044761.2 | OG0 | | as\_gtas1.m1.7286.m1 | OG0 -•Adig\_XM\_015924131.1 | OG0 | •Amil Amillepora32209-RA | OG0 | Spis XP 022783408 1 | OG0 | <sup>100</sup> Pocdam XM 027195662.1 | OG0 | •Gasp\_gasp1.m3.17735.m1 | OG0 | <sup>97</sup> -Fspp\_ffun1.m4.22038.m1 | OG0 | •Bralan\_BLAG11000340\_1 | OG0 | Hsap ENST00000332439 | OG0 | Clacor\_Ccor\_scaffold13375\_01 | OG0 | •Scil\_scict008765.2 | OG0 | Gracom\_Gcom\_scaffold9949\_01 | OG0 | Lcom | lcpid90752 | OG0 | -**-**Eupdun Edun sb10644799∣OG0∣ <sup>100</sup>•Eupdun\_Edun\_sb10644800 | OG0 | •Coemet\_Cmet\_scaffold19100\_01 | OG0 | Vmul\_Simscaffold9169\_01 | OG0 | •Lampan\_Lpan\_C409459\_01 | OG0 | •Mlei\_ML0153.g4.i1 | OG0 | Beraby\_Baby\_sb337719 | OG0 | Beraby\_Baby\_sb337718 | OG0 | 1 Beraby\_Baby\_sb337717 | OG0 | •Pbac\_sb2650367 | OG0 | <sub>f</sub>Horcal\_Hcv1.av93.c4.g446.i2 | OG0 | <sup>100</sup> Horcal\_Hcv1.av93.c4.g446.i1 | OG0 | <u>-</u>Drygla\_Dgla\_sb293737 | OG0 | <sup>1001</sup>Drygla\_Dgla\_sb293738 | OG0 | Bolinf\_Binf\_sb1249201 | OG0 | Bolinf Binf sb1249196 | OG0 | 1 Bolinf Binf sb1249199 | OG0 | Bolinf\_Binf\_sb1249186 | OG0 | Bolinf\_Binf\_sb1249195 | OG0 | <sub>r</sub>Bolinf\_Binf\_sb1249197 | OG0 | Bolinf\_Binf\_sb1249187 | OG0 | Bolinf Binf sb1249193 | OG0 | \*Bolinf\_Binf\_sb1249194 | OG0 | Bolinf\_Binf\_sb1249185 | OG0 | 1-Bolinf Binf sb1249188 | OG0 | Bolinf Binf sb1249190 | OG0 | Bolinf Binf sb1249191 | OG0 | Bolinf\_Binf\_sb1249200 | OG0 | Bolinf\_Binf\_sb1249202 | OG0 | Bolinf\_Binf\_sb1249192 | OG0 | Bolinf Binf sb1249204 | OG0 | Bolinf\_Binf\_sb1249189 | OG0 | 99 1 Bolinf Binf sb1249203 | OG0 | Mertsp\_Mesp\_sb562330 | OG0 | Mertsp\_Mesp\_sb562333 | OG0 | Mertsp Mesp sb562329 | OG0 | 1 Mertsp\_Mesp\_sb562334 | OG0 | Mertsp\_Mesp\_sb562332 | OG0 | Mertsp Mesp sb562335 | OG0 | Mertsp\_Mesp\_sb562331 | OG0 | 11-Mertsp Mesp sb562336 | OG0 |