E. postvittana

C. herana

0.0074
0.0023
0.0020
0.0196
0.0536
0.0174

0.0356
0.0052
0.0062

0.0938
0.1191
0.0551

C. obliquana

0.0117
0.0025
0.0015
0.0308
0.0575
0.0132

0.2601
0.0141
0.0538
0.6855
0.3243
0.4747

P. notophaea

0.0364
0.0033
0.0073
0.0959
0.0760
0.0649

0.0191
0.0029
0.0037
0.0504
0.0662
0.0327

P. octo

0.0031
0.0008
0.0030
0.0081
0.0190
0.0264

0.0205
0.0022
0.0046
0.0540
0.0500
0.0404

P. excessana

0.0036
0.0014
0.0007
0.0094
0.0312
0.0065

Key

dN OR1
dN OR2
dN OR3
dS OR1
dS OR2
dS OR3

Non-synonymous and synonymous rates for all branches of OR1 , OR2 (Orco) and OR3 trees of *Ctenopseustis obliquana*, *C. herana*, *Planotortrix octo*, *P. excessana* and *P. notophaea*, with *Epiphyas postvittana* as an outgroup, plotted onto a consensus tree. Rates were calculated based on the M3 model in PAML, which has three categories of site with ω free to vary for each site category.