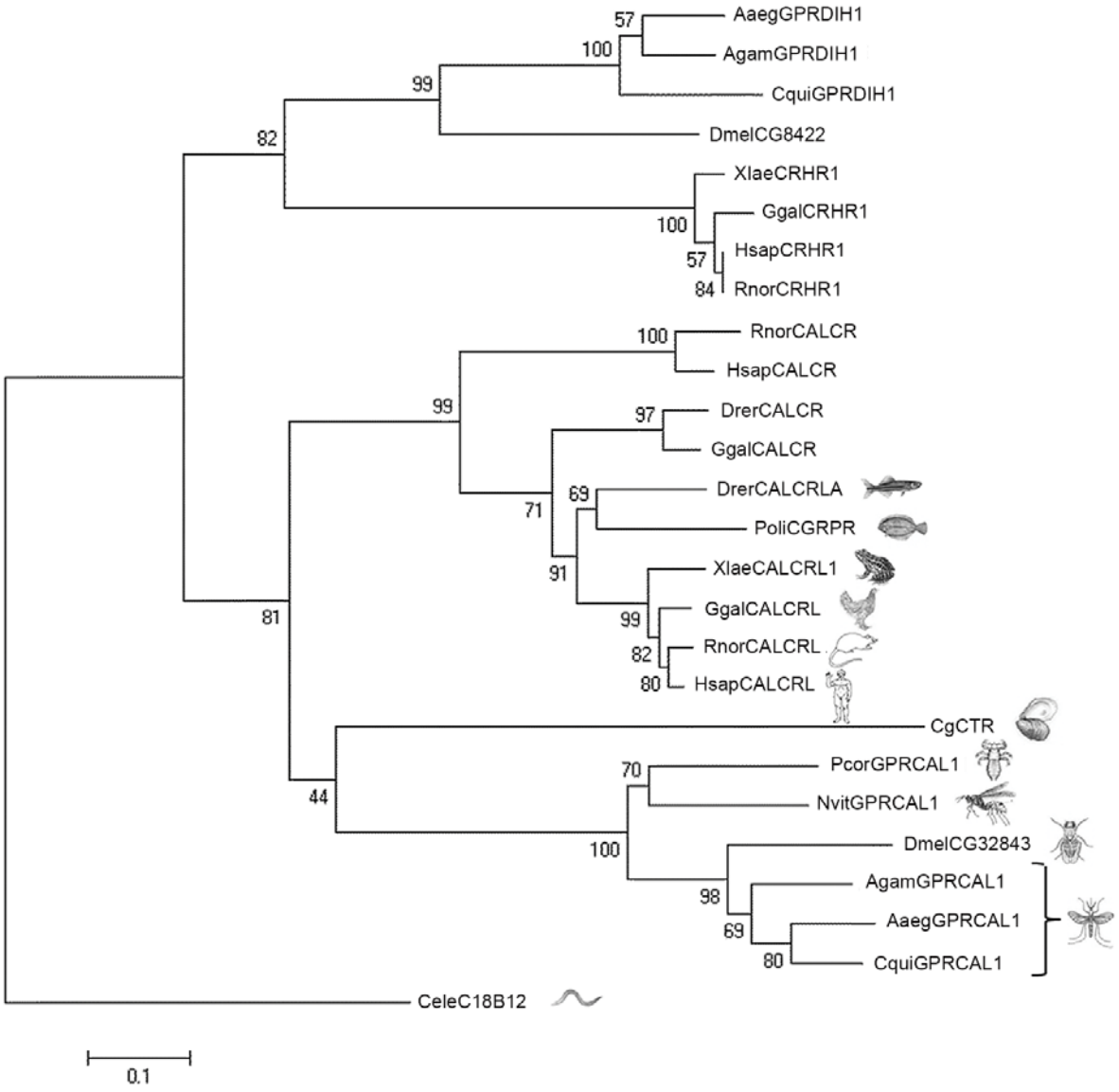
AaegGPRDIH1
AgamGPRDIH1
CquiGPRDIH1
DmelCG8422
XlaeCRHR1
GgalCRHR1
HsapCRHR1
RnorCRHR1
RnorCALCR
HsapCALCR
DrerCALCR
GgalCALCR
DrerCALCRLA
PoliCGRPR
XlaeCALCRL1
GgalCALCRL
RnorCALCRL
HsapCALCRL
CgCTR
PcorGPRCAL1
NvitGPRCAL1
DmelCG32843
AgamGPRCAL1
AaegGPRCAL1
CquiGPRCAL1
CeleC18B12
57
100
99
82
100
57
84
100
99
97
69
71
91
99
82
80
81
70
44
100
98
69
80
0.1

Figure S3. Phylogenetic tree showing evolutionary relationships for GPRCAL1. Corticotropin-releasing hormone 1-like receptors (CRHR1), CALCRs and CALCRLs from vertebrates and invertebrates were analyzed by the neighbor-joining method with bootstrap analysis of 10,000 replicates with MEGA5. A secretin type GPCR from *Caenorhabditis elegans* (NP_510496.1; WormBase WP:CE23557) was used as the outgroup to root tree. GenBank and VectorBase accession numbers: 1. *A. aegypti* GPRDIH1 (ABX57919). 2. *A. gambiae* GPRDIH1 (AGAP005464-PA). 3. *C. quinquefasciatus* GPRDIH1 (DAA06284). 4. *D. melanogaster* GPRDIH1 (AAF58250). 5. human CRHR1 (NP_001138618). 6. *Rattus norvegicus* CRHR1 (NP_112261). 7. *Gallus gallus* CRHR1 (AAA96656). 8. *Xenopus laevis* CRHR1 (CAA74363). 9. *A. aegypti* GPRCAL1 (AEU12191, this work). 10. *C. quinquefasciatus* GPRCAL1 (CPIJ014419–RA). 11. *A. gambiae* GPRCAL1 (AGAP009770-RA). 12. *D. melanogaster* GPRCAL1 (AAN16138). 13. *Pediculus humanus corporis* GPRCAL1 (PHUM428070). 14. *Nasonia vitripennis* GPRCAL1 (XP_001601649). 15. hCALCRL (NP_005786). 16. *R. norvegicus* CALCRL (NP_036849). 17. *G. gallus* CALCRL (NP_001157122). 18. *X. laevis* CALCRL (NP_001080206). 19. *Danio rerio* CALCRLA (NP_001004010). 20. *Paralichthys olivaceus* CGRPR (BAA92817). 21. hCALCR (AAC50300). 22. *R. norvegicus* CALCR (AAA03030). 23. *G. gallus* CALCR (XP_425985.3). 24. *D. rerio* (XP_003200679). 25. *Grassostrea gigas* CTR (CAD82836). Predicted proteins: 2-3, 10-11, 13-14 and 23-24. Protein sequences translated from cloned cDNAs: 1, 4-9, 12,15-22 and 25.