

Table S1 The primers used in the RT-PCR, qRT-PCR and dsRNA synthesis and protein expression.

Primer	Primer sequences (5 to 3')
For qRT-PCR	
SaveOBP9-F	ACCTGCGAAGTTCCTCGAAT
SaveOBP9-R	GTTCTTTCAGTGCTGGCGAT
For dsRNA synthesis	
SaveOBP9-F	<i>TAATACGACTCACTATAGGATGATAATCAAAAAGACGTTGTTG</i>
SaveOBP9-R	<i>TAATACGACTCACTATAGGTTATTTTCGATTTTGGTTTCATCTTC</i>
GFP-F	<i>TAATACGACTCACTATAGGAAGGGCGAGGAGCTGTTACCCG</i>
GFP-R	<i>TAATACGACTCACTATAGGCAGCAGGACCATGTGATCGCGC</i>
Actin gene	
β-Actin-F	CGTTACCAACTGGGACGATATG
β-Actin-R	GGGTTCAATGGAGCTTCTGTTA
For protein expression	
CSP8	
SaveOBP9-F	C <u>GGGATCC</u> GCTGATGATGCAGATGCAGG
SaveOBP9-R	CCG <u>CTCGAG</u> TTATTTTCGATTTTGGTTTCATCTTC
F, Forward R, Reverse, GFP, Green Fluorescent Protein	Restriction sites are underlined T7 Promoter are italic

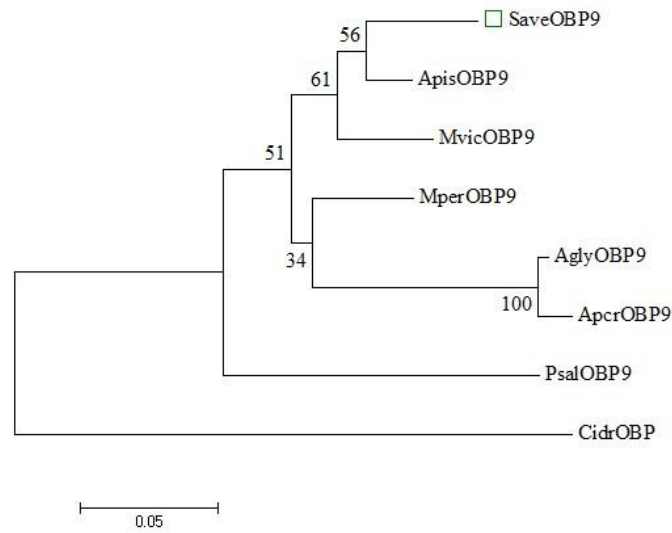


Figure S1 Evolutionary tree of SaveOBP9 and eight sequences of CSPs from various hemipteran insect species. SaveOBP9 is denoted as box in the tree. The other insect species are; *Megoura viciae* (Mvic), *Acyrtosiphon pisum* (Apis), *Myzus persicae* (Mper), *Aphis glycines* (Agly), *Pterocomma salicis* (Psal), *Aphis craccivora* (Apcr), *Cinara cedri* (cidr). Gene Bank accession number of all OBPs genes are MvicOBP9 AXE72026.1; ApisOBP9, NP_001153535.1; MperOBP9; AglyOBP9, AHJ80895.1; PsalOBP9, CAR85663.1; ApcrOBP9, KAF0764719.1; CidrOBP, VVC45546.1.