Table S1.
Neuropeptide G-protein-coupled receptor (GPCR) genes putative identified from *B. tabaci* Comparison with *D. citri*, *N. lugens*, *D. melanogaster* and *Z. nevadensis*. ND, not found; AS, absent in NCBI but published in the paper; *, incomplete or incorrect at NCBI in *Z. nevadensis*.

| Receptor Name          | *B. tabaci* TMD (No.) | D. citri | D. melanogaster | Z. nevadensis | Putative Identification          |
|------------------------|------------------------|----------|-----------------|---------------|----------------------------------|
| Neuropeptide receptor A1 | XP_018907642.1  7       | MG50190  | CG7285          | KDR19252*     | Allatostatin-C receptor          |
| Neuropeptide receptor A2 | XP_018904604.1  7       | MG50191  | CG10001         | KDR11665*     | Allatostatin-A receptor          |
| Neuropeptide receptor A3 | XP_018916865.1  7       | MG50223  | CG6515          | KDR13925*     | Natalisin receptor               |
| Neuropeptide receptor A4 | XP_018915862.1  6       | MG50193  | CG10823         | KDR24477*     | SIFamid receptor                 |
| Neuropeptide receptor A5 | XP_018916522.1  7       | MG50221  | CG11325         | KDR09300      | AKH receptor                     |
| Neuropeptide receptor A6 | XP_018915580.1  7       | MG50195  | CG5911          | KDR21336*     | ETH receptor                     |
| Neuropeptide receptor A7 | XP_018896630.1  7       | MG50196  | CG7395          | KDR21762*     | sNPF receptor                    |
| Neuropeptide receptor A8 | XP_018910474.1  7       | MG50197  | ND              | KDR16982*     | G-protein coupled receptor moody |
| Neuropeptide receptor A9 | XP_01889985.1   7       | MG50198  | ND              | KDR09651*     | G-protein coupled receptor moody isoform X1 |
| Neuropeptide receptor A10 | XP_018916635.1  7       | MG50199  | CG16752         | ND            | Sex peptide receptor             |
| Neuropeptide receptor A11 | XP_018902557.1  7       | MG50200  | ND              | ND            | thyrotropin-releasing hormone receptor-like |
| Neuropeptide receptor A12 | XP_018910014.1  4       | MG50201  | ND              | AS            | neuropeptide Y receptor type 1-like |
| Neuropeptide receptor A13 | XP_018902188.1  7       | MG50202  | CG13803         | KDR23127      | Myosupressin receptor            |
| Neuropeptide receptor A14 | XP_018898689.1  7       | MG50203  | CG30106         | KDR14578*     | CCHamide-2 receptor              |
| Neuropeptide receptor A15 | XP_018898508.1  7       | MG50204  | CG14593         | AS            | CCHamide-1 receptor              |
| Neuropeptide receptor A16 | XP_018905595.1  7       | MG50205  | ND              | KDR20270*     | Allatropin receptor              |
| Neuropeptide receptor A17          | XP_018909507.1 | 6   | MG550206 | ND     | CNMamide receptor |
|-----------------------------------|----------------|-----|---------|--------|------------------|
| Neuropeptide receptor A18         | XP_018901010.1 | 7   | MG550208 | CG16726 | KDR16422*        |
| Neuropeptide receptor A19         | XP_018901008.1 | 7   | MG550207 | ND     | FMRFamide receptor |
| Neuropeptide receptor A20         | XP_018911170.1 | 7   | MG550209 | CG5811  | KDR17076*        |
| Neuropeptide receptor A21         | XP_018916041.1 | 7   | MG550210 | ND     | RYamide receptor  |
| Neuropeptide receptor A22         | XP_018911137.1 | 7   | MG550211 | ND     | RYamide receptor-like receptor |
| Neuropeptide receptor A23         | XP_018897331.1 | 7   | MG550212 | CG10698 | KDR13524*        |
| Neuropeptide receptor A24         | XP_018903913.1 | 7   | MG550214 | CG14575 | Leucocinin receptor |
| Neuropeptide receptor A25         | XP_018903912.1 | 7   | MG550213 | CG7887  | Tachykinin receptor |
| Neuropeptide receptor A26         | XP_018915813.1 | 7   | MG550215 | ND     | CAPA receptor     |
| Neuropeptide receptor A27         | XP_018896491.1 | 7   | MG550216 | CG6111  | Neuropeptide Y receptor type 2-like |
| Neuropeptide receptor A28         | XP_018900843.1 | 7   | MG550217 | CG1147  | NPF receptor      |
| Neuropeptide receptor A29         | XP_018916857.1 | 7   | MG550218 | CG9918  | Pyrokinin-1 receptor |
| Neuropeptide receptor A30         | XP_018906643.1 | 7   | MG550219 | CG8784  | AS                |
| Neuropeptide receptor A30         | XP_018906643.1 | 7   | MG550220 | CG8795  | Pyrokinin-2 receptor |
| Neuropeptide receptor B1          | XP_018908584.1 | 7   | MG550228 | CG32843 | KDR16174*        |
| Neuropeptide receptor B2          | XP_018912492.1 | 5   | MG550229 | CG13758 | DH31 receptor     |
| Neuropeptide receptor B3          | XP_018897695.1 | 7   | MG550230 | ND     | PDF receptor      |
| Neuropeptide receptor B4          | XP_018910930.1 | 7   | MG550231 | CG12370 | Neuropeptide receptor B3 |
| Leucine-rich repeat               | XP_018911955.1 | 6   | MG550225 | CG7665  | KDR15184*        |
| G-protein-coupled receptor 1      |                |     | MG550226 |        | Bursicon receptor |