Table S3. The list and the nucleotide sequences of 17 ORs of *P. akamusi* identified in present study.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Unigene | Gene name | Accession number | ORF(bp) | Complete ORF | Blastx annotation | Score | e\_value | Identity (%) |
| Unigene1186\_All | PaOR1 | MN133026 | 1383 | Yes | gi|749755907|ref|XP\_011140452.1|/2.42783e-12/PREDICTED: odorant receptor 46a, isoform A-like *[Harpegnathos saltator]* | 78.9518 | 2.43e-12 | 21.64 |
| CL2639.Contig2\_All | PaOR2 | MN133027 | 1326 | Yes | gi|31207639|ref|XP\_312786.1|/4.75981e-148/AGAP003098-PA *[Anopheles gambiae str. PEST]*  | 340.502 | 4.76e-148 | 69.77 |
| Unigene3449\_All | PaOR3 | MN133028 | 1395 | Yes | gi|685453860|gb|AIO10777.1|/0/odorant receptor co-receptor *[Anopheles funestus]* | 765.377 | 0 | 80.17 |
| Unigene20280\_All | PaOR4 | MN133029 | 813 | Yes | gi|170036073|ref|XP\_001845890.1|/5.68872e-14/Odorant receptor 92a *[Culex quinquefasciatus]*  | 81.2629 | 5.69e-14 | 40.4 |
| CL1665.Contig2\_All | PaOR5 | MN133030 | 1671 | Yes | gi|906461341|gb|KNC23846.1|/9.34228e-19/putative odorant receptor 94b, partial *[Lucilia cuprina]* | 100.138 | 9.34e-19 | 21.76 |
| Unigene18711\_All | PaOR6 | MN133031 | 312 | No | gi|31237083|ref|XP\_319538.1|/5.353e-20/AGAP003310-PA *[Anopheles gambiae str. PEST]*  | 101.293 | 5.35e-20 | 38.79 |
| Unigene14540\_All | PaOR7 | MN133032 | 1206 | Yes | gi|751780083|ref|XP\_011199152.1|/7.12439e-09/PREDICTED: LOW QUALITY PROTEIN: odorant receptor 67c-like *[Bactrocera dorsalis]* | 64.3142 | 7.12e-09 | 39.73 |
| Unigene00454\_All | PaOR8 | MN133033 | 966 | Yes | gi|170060086|ref|XP\_001865647.1|Odorant receptor 56a *[Culex quinquefasciatus]*  | 261 | 3.53E-81 | 42.17 |
| Unigene02382\_All | PaOR9 | MN133034 | 720 | Yes | gi|666916209|gb|AIG51899.1|odorant receptor *[Helicoverpa armigera]* | 106 | 1.69E-24 | 29.88 |
| Unigene03213\_All | PaOR10 | MN133035 | 1164 | Yes | gi|195166334|ref|XP\_002023990.1|GL27118 *[Drosophila persimilis]*  | 96 | 4.67E-20 | 23.62 |
| Unigene03624\_All | PaOR11 | MN133036 | 1080 | Yes | gi|380011604|ref|XP\_003689890.1|PREDICTED: putative odorant receptor 94b-like *[Apis florea]* | 77 | 7.18E-14 | 27.09 |
| Unigene05048\_All | PaOR12 | MN133037 | 1158 | Yes | gi|195054076|ref|XP\_001993952.1|GH22367 *[Drosophila grimshawi]*  | 129 | 3.49E-31 | 26.88 |
| Unigene05457\_All | PaOR13 | MN133038 | 1209 | Yes | gi|195159423|ref|XP\_002020578.1|GL15322 *[Drosophila persimilis]*  | 197 | 5.40E-56 | 31.25 |
| Unigene05827\_All | PaOR14 | MN133039 | 1350 | Yes | gi|170039362|ref|XP\_001847506.1|odorant response protein ODR-4 *[Culex quinquefasciatus]*  | 258 | 6.27E-78 | 34.96 |
| Unigene08549\_All | PaOR15 | MN133040 | 1146 | Yes | gi|24664442|ref|NP\_524078.2|odorant receptor 71a, isoform B *[Drosophila melanogaster]*  | 129 | 1.89E-31 | 26.52 |
| Unigene09465\_All | PaOR16 | MN133041 | 1035 | Yes | gi|170047391|ref|XP\_001851206.1|olfactory receptor *[Culex quinquefasciatus]*  | 178 | 5.15E-49 | 31.94 |
| Unigene11815\_All | PaOR17 | MN133042 | 1143 | Yes | gi|194910664|ref|XP\_001982203.1|GG11175 *[Drosophila erecta]*  | 118 | 1.69E-27 | 23.98 |