**Table S4.** Detection of mutation site in the thrips neuroreceptor gene

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Neuroreceptor | Insect | Mutation site | Amino acid position | Mutation frequency (%) |
| Voltage-gated sodium channel | *Megalurothrips usitatus* (Bagnall) | V218I | 218 | 2/30 |
| A221V | 221 | 2/30 |
| V225I | 225 | 6/30 |
| M292R | 292 | 2/30 |
| G969C | 969 | 2/30 |
| T995I | 995 | 2/30 |
| D996N | 996 | 2/30 |
| M1020I | 1020 | 2/30 |
| V1391I | 1391 | 30/30 |
| K1638E | 1638 | 2/30 |
| *Thrips palmi* (Karny) | S58T | 58 | 3/30 |
| C167G | 167 | 2/30 |
| E182D | 182 | 5/30 |
| A457V | 457 | 2/30 |
| P502H | 502 | 2/30 |
| R680Q | 680 | 4/30 |
| P726L | 726 | 2/30 |
| T772P | 772 | 5/30 |
| I843M | 843 | 28/30 |
| A850V | 850 | 2/30 |
| G939R | 939 | 2/30 |
| S1050Y | 1050 | 11/30 |
| M1420T | 1420 | 2/30 |
| R1730W | 1730 | 2/30 |
| M1943I | 1943 | 8/30 |
| Nicotinic acetylcholine receptor α2 subunit | *Megalurothrips usitatus* (Bagnall) | G213C | 213 | 2/30 |
| R241T | 241 | 2/30 |
| R406Q | 406 | 2/30 |
| S441N | 441 | 2/30 |
| L535R | 535 | 2/30 |
| Nicotinic acetylcholine receptor α8 subunit | L16I | 16 | 4/30 |
| V19A | 19 | 10/30 |
| L26I | 26 | 4/30 |
| M87T | 87 | 2/30 |
| W227C | 227 | 2/30 |
| D231H | 231 | 5/30 |
| Nicotinic acetylcholine receptor β1 subunit | M3I | 3 | 8/30 |
| G269D | 269 | 2/30 |
| F309I | 309 | 2/30 |
| Nicotinic acetylcholine receptor α1 subunit | *Thrips palmi* (Karny) | N118S | 118 | 30/30 |
| M128V | 128 | 2/30 |
| H134R | 134 | 2/30 |
| T136M | 136 | 2/30 |
| K138E | 138 | 2/30 |