**Supplementary Table 1: Information of sequences used for oligo nucleotide synthesis**.

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| **Sl. No.** | **Accession number** | **organism** | **Gene name** |
| 1 | L38671.1 | *Manduca sexta* | CYP4M2 |
| 2 | GU731526.1 | *Manduca sexta* | CYP4M2 |
| 3 | XM\_030176679.1 | *Manduca sext* | CYP4M2 |
| 4 | AM086016.1 | *Spodoptera littoralis* | cyp4M12 |
| 5 | AY588584.1 | *Helicoverpa armigera* | CYP4 |
| 6 | U86005.1 | *Helicoverpa armigera* | CYP4M4 |
| 7 | KM016729 | *Helicoverpa armigera* | CYP4M6v2 |
| 8 | AY588580.1 | *Helicoverpa armiger* | CYP4 |
| 9 | AY588587.1 | *Helicoverpa armiger* | CYP4 |
| 10 | AM931974.1 | *Parnara guttata* | CYP4 |
| 11 | KF701144.1 | *Chilo suppressalis* | CYP4 |
| 12 | AM086017.1 | *Spodoptera littoralis* | cyp4L8 |
| 13 | AM086019.1 | *Spodoptera littoralis* | cyp4S8 |
| 14 | AM086018.1 | *Spodoptera littoralis* | cyp4S8 |
| 15 | JN862817 | *Spodoptera litura* | CYP6B47 |
| 16 | KC904274.2 | *Scirpophaga incertulas* |  |
| 17 | AM931975.1 | *Parnara guttata* | CYP6-34 |
| 18 | AF280623.1 | *Papilio canadensis* | CYP6B22 |
| 19 | GU263827 | *Spodoptera litura* | CYP6B48 |
| 20 | GU074517. | *Spodoptera litura* | CYP6B29 |
| 21 | GQ465039. | *Spodoptera litura* |  |
| 22 | KM016749. | *Helicoverpa armigera* | CYP6B7 |
| 23 | AF031468.1 | *Helicoverpa armigera* | cyp6B7 |
| 24 | JX310079.1 | *Spodoptera littoralis* | CYP6B42 |
| 25 | KX443427.1 | *Spodoptera exigua* | CYP6B31 |
| 26 | GU263828.1 | *Spodoptera litura* | CYP6B58 |
| 27 | DQ458470.1 | *Helicoverpa armigera* | CYP6B7, CYP6B6 and CYP6B2 |

**Supplementary Table 2: Information of genes used for oligo nucleotide synthesis for RT-
 qPCR study.**

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| **Sl. No** | **Name of the gene** | **Primer sequence (5' 3')** | **Product size** | **Insecticide** |
| 1 | CYP248f | F- TTATCCACCCGTAGCCTTCATR- TCCTCCTCTGCAGGTCATAAAT | 118 | Flubendiamide |
| 2 | CYP724c | F-AGAGAAGACTGAAGACGACGATGR- GGTCTCAAAGCCAGCGATAAAG | 138 | cyantraniliprole  |
| 3 | CYP272c | F- TCTTCTCTTCTTCGTGGCTTCTR- GCCGATGAATGTTGTGTCTCTC | 142 | cyantraniliprole  |
| 4 | CYP648i | F- AAGTGCAAGAGACTGATGTTGGR- CTCAAAGCCAGCGATGAAGAA | 133 | Indoxacarb  |