**S3 Table.** Diagnostic primers used for inverse PCR (iPCR) assays, zygosity confirmation, pan-DENV serotype detection, and *w*Mel infection confirmation.

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| ***piggyBac* Primers** |
| **Reaction** | **Primer Name** | **Primer Sequence, 5’ to 3’** |
| 5’ (1st Round PCR) | 991.5F1 | GACGCATGATTATCTTTTACGTGAC |
| 991.5R1 | TGACACTTACCGCATTGACA |
| 5’(2nd Round PCR) | 991.5F2 | GCGATGACGAGCTTGTTGGTG |
| 991.5R2 | TCCAAGCGGCGACTGAGATG |
| 3’ (1st Round PCR) | 991.3F1 | CAACATGACTGTTTTTAAAGTACAAA |
| 991.3R1 | GTCAGAAACAACTTTGGCACATATC |
| 3’ (2nd Round PCR) | 991.3F2 | CCTCGATATACAGACCGATAAAAC |
| 991.3R2 | TGCATTTGCCTTTCGCCTTAT |
| **Zygosity Primers** |
| **Reaction** | **Line** | **Primer Name** | **Primer Sequence, 5’ to 3’** |
| Forward primer | TADV-A | 1018.S19 | CCAAGTCGTCAACTTGTGACTG |
| TADV-B | 1018.S73 | TAAAAACATAAACAACGACC |
|   | TADV-C | 1018.S80 | GCTCTCACCGTTGAAAATTTAT |
| Reverse primer | TADV-A | 1018.S21 | GGACCCAATTGTTACTACACCTATTTC |
| TADV-B | 1018.S74 | AAAATAAATCATTCTGAGTTTGT |
|   | TADV-C | 1018.S82 | CAGGGTCCTAAAATGTTCAATG |
| **DENV RT-qPCR Primers** |
| **Primer name** | **Primer Sequence, 5’ to 3’** |
| DENV-F | ACGTGCACACATGGACAGA |
| DENV-R | ACTGAGCGGATTCCACAAA |
| ***w*Mel Primers** |
| **Primer name** | **Primer Sequence, 5’ to 3’** |
| *w*Mel-F | CAAATTGCTCTTGTCCTGTGG |
| *w*Mel-R | GGGTGTTAAGCAGAGTTACGG |