**Supporting Table S1:** DENV E gene amplification and sequencing primers.

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| --- | --- | --- | --- | --- |
| **Serotype** | **Name** | **Sequence** | **Function** | **Final**  **Concentration** |
| 1 | D1-1 | AGTTGTTAGTCTACGTGGACCGAC | amplification | 400nM |
| 1 | cD1-2086 | CACCTGCTCCTACCACGATGTAGC | amplification | 400nM |
| 1 | D1-1880 | CAGCATGGAACTGTTCTGGTGCAG | amplification | 400nM |
| 1 | cD1-4196 | GAGGAGTGAACTTAGTAGGATGCT | amplification | 400nM |
| 1 | cD1-973 | CCACGAAGTCTCTGTTGCCTATT | sequencing | 165nM |
| 1 | D1-890 | AAGGGATCATTTTCATTTTG | sequencing | 165nM |
| 1 | D1-1003 | GTGGTACTGGAGCATGGAAGTTGC | sequencing | 165nM |
| 1 | cD1-1446 | CGTAGGAGCTTGAGGTGTTATGGT | sequencing | 165nM |
| 1 | D1-1395 | TGAGACTACAGAACATGGAACAAC | sequencing | 165nM |
| 1 | cD1-1923 | TTCATATTTAACCTGCACCAGAAC | sequencing | 165nM |
| 1 | D1-2141 | GAAGCAACTGCCCGAGGAGCACGA | sequencing | 165nM |
| 2 | D2-841 | ATGATGGCAGCAATCCTGGCATAC | amplification | 400nM |
| 2 | cD2-2670 | CTCCTGTCATAATAGTTAACTTCACC | amplification | 400nM |
| 2 | cD2-771 | ATGTTTCCAGGCCCCTTCTGATGAC | sequencing | 165nM |
| 2 | cD2-1387 | CATGTTTTCCTGTGTCATTTCCGAC | sequencing | 165nM |
| 2 | D2-1416 | GGAAATCAAAATAACACCACAGAGTTCC | sequencing | 165nM |
| 2 | cD2-2074 | TGATGATGTAGCTGTCTCCGAATG | sequencing | 165nM |
| 2 | D2-2207 | TCCTTGGGAGGAGTGTTTACATCT | sequencing | 165nM |
| 3 | D3-27 | AGTTGTTAGTCTACGTGGACCGACAAG | amplification | 400nM |
| 3 | cD3-1345 | GTGTGCACTGTGATGATGACGGTG | amplification | 400nM |
| 3 | D3-1325 | GAATCAATAGAGGGAAAAGTGGTGC | amplification | 400nM |
| 3 | cD3-2678 | GACCCCAGTTATGTCGCCTACAAC | amplification | 400nM |
| 3 | D3-933 | TTAATGCTGGTTACCCCATCCATGAC | sequencing | 165nM |
| 3 | cD3-947 | CTTCCACAAAATCTCTGTTTCCTACTCC | sequencing | 165nM |
| 3 | cD3-1336 | CTGTGATGATGACGGTGTATTTGAGG | sequencing | 165nM |
| 3 | D3-1331 | CAATAGAGGGAAAAGTGGTGCAACATG | sequencing | 165nM |
| 3 | D3-1798 | GCACTTAAAATGTAGACTCAAGATGGAC | sequencing | 165nM |
| 3 | cD3-1819 | GCTACTCAAGCACATTGCATAGCTC | sequencing | 165nM |
| 3 | D3-2240 | GAATTCATTAGGGAAAATGGTCCACC | sequencing | 165nM |
| 3 | cD3-2253 | CCACCAAATAGGGCTGTGTAAGCAC | sequencing | 165nM |
| 4 | D4-1 | AGTTGTTAGTCTGTGTGGACCGAC | amplification | 400nM |
| 4 | cD4-2520 | CTGTTCTGTCCAAGTGTGC | amplification | 400nM |
| 4 | D4-836 | TCGCGCTCTTGGCAGGATTTATGG | sequencing | 165nM |
| 4 | cD4-1010 | AGATCGACCCATGCTCCACCTG | sequencing | 165nM |
| 4 | D4-1237 | TGGGGCAATGGCTGTGGCTTGTTT | sequencing | 165nM |
| 4 | D4-1424 | CAGCCACGATAACTCCCAGGTCAC | sequencing | 165nM |
| 4 | cD4-1490 | AGTGTTAGTTCTCCATAGTCC | sequencing | 165nM |
| 4 | D4-1780 | GCAGGACATCTCAAGTGCAAAGTC | sequencing | 165nM |