### Supplementary Table 1: Gene specific primers

| Gene ID-VectorBase | Forward primer (5'-3') | Reverse primer (5'-3') |
|--------------------|------------------------|------------------------|
| AAEL001293         | GTGTGGGCTCTCTTCACTCC   | TCCACGTATTTCCCCACGCA   |
| AAEL002130         | GTTCACGGCAAGTTGCAAAC   | TGGTCAAGCAAGACCCATT   |
| AAEL010344         | TTGGCGAGCAAGAGGAAA     | AGCGTCATCAACGTCTCCAGT |
| AAEL022306         | TGTGCTCCATCTGTCAAC     | GTCAAGGCGAGGACAAATGAA |
| AAEL023509         | CTCAGCTATATGTTCCCCCGC  | AACAGTGTTCGGGTATGCTCT |
| AAEL025983         | CCGCAAACACAGGAAAGCAA   | TACCCGAAAGAGTGTTGTC   |
| AAEL005763         | ACCCTCTCTGGATTCTGCT    | AGTGGGTAAGGACAACTCA   |
| AAEL007767         | GCTATGACGCTCTCCCTTC    | CAGCGAAACACATGCTCTGA |
| AAEL019708         | TGCGAAAGAAAGCGGTTG     | CTCTCGGGATAGCACACA    |
| AAEL020009         | CCATCGACGATCCTGGTAAAAGA| GCCTGCACAGGACTGTTCTAT |
| AAEL021099         | AGGACATGCACTGAGCAAG    | CCCACGCACACGATGAA     |
| AAEL026430         | ACCAAACACAGCAGCAGC     | GCAGGGTGTCAGGCTTGG    |

| Gene ID-VectorBase | Forward primer (5'-3') | Reverse primer (5'-3') |
|--------------------|------------------------|------------------------|
| siRNA-AAEL022306   | GGCAATTTAGGAAACGATAA   | TTTATATGTTCCAAATGCCA   |
| siRNA-AAEL021099   | GATGGGAATACATTGAGATGCTCA| TGAAGTACCTCAATGATGCTCT |

### primers used for siRNA in cells

| Gene ID-VectorBase | Forward primer (5'-3') | Reverse primer (5'-3') |
|--------------------|------------------------|------------------------|
| MyD88: XM_001658585 | CTTAGTGGGCTCGAGTGTGTTTC | ATCCGCTCCAATGCTGTTCC |
| CACTUS: XM_001658585 | TCTGGGCTGTAGGTGGGAGG    | GACCTCTGAAAAAGGAAAGG |
| REL1: XM_001658585 | GACCTGCGAGCGTCTAAAAT   | CGGTTGTCAGGCTGTTGTA  |
| Ceecropin (CecN): | CGGCAAGAAAATTGGAAGAAAAGTC | GAATCGATCATGCTAGGGCC |
| Defensin (DefA):  | CTATCGGATGCGGCTGGGAG    | CAATGAGCAGCACAAGC ACT |
| IMD: XM_001658585 | TCGTTGGAATTCGTTCTTC    | TGGCGGAGTGAAGTAAAG   |
| REL2: XM_001658585 | TCTGGGCTGTAGGTGGGAGG    | GACCTGCTCGAGCACAAGC ACT |
| STAT: XM_001658585 | CACACAAAAGGGAGCAGGCA    | TCCAGTTCCCCTAAAGGCA  |

| Ae.aegypti-ACTIN-XM_001658585 | Forward primer (5'-3') | Reverse primer (5'-3') |
|--------------------------------|------------------------|------------------------|
| GAACACCCAGTCTGTGAGCA          | TGGCGATCCTGCTACGTTGTA  |
| DENV-2-NGC strain             | CAGATCTCTGATGATAAAACCACG | CATCAGAAAAGGGACACACTC |