**Supplementary Table S2 List of primer sequences for recombinant and mutant RNA2s plasmid construction**

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| **RNA2 construct** | **Primer**  | **Sequence** |
| Y2(D2a-C/D2b) | Fw1 | *TTT GAT GTC AAA AAC AAA CAC TGC CTC GAG* |
| Rev1 | *CGA AAG AAA TA T GGA* ATT GAA CGA AGG CGC |
| Fw2 | GGA GGT TTC AGA ACG ACC CTT CCG CCC ATT |
| Rev2 | AAAAAGCGGCCGCTGGTCTCCTT |
| Fw3 | TCA ATT CCA TAT TTC TTT CGC TGT TTA TTG |
| Rev3 | AGG GTC GTT CTG AAA CCT CCC CTT CCG CAT |
| Y2(D2b-C) | Fw1 | *TTT GAT GTC AAA AAC AAA CAC TGC CTC GAG* |
| Rev1 | *AGC AGA GAC GAA GGT* GCT TCC TAC CAT TCT |
| Fw2 | GAC GAT ACA GAT TGG TTC GCT GGT AAC GAA TGG GCG GAA GGG TCG TTC TGA ACC TC |
| Rev2 | GAA ATC ATG GTC TTC TTC CGC TGG CAA CGT GAA ACA AGG GGC CTC AGG CTC GGG TG |
| Fw3 | GGA GGT TTC AGA ACG ACC CTT CCG CCC ATT |
| Rev3 | AAAAAGCGGCCGCTGGTCTCCTT |
| D2(D2a-C/D2b stop) | Fw | **A**GAACGAAGGCGCAATGACAAAC |
| Rev | ATTCCATCTTTCTTCTTTCGCTGCTTAGTG  |
| D2(D2a-C/∆D2b-C) | UP inverse | AAAAAACGCGTGTACGTAAATAGCTGAACCTCCCCTTCCTAATC |
| DN inverse | AAAAAACGCGTCAGGCCTCAGACTCGGACAGTCCCACCATGTTC |

The dotted primer sequences indicate primer sequences from CMV-Y; primer sequences in italics are complementary to corresponding RNAs. Bolded nucleotides indicate codons that were replaced with stop codons.