

Supplemental Table 1

| Supplemental Table 1. Description of primers and DNA template used for cloning through splice overlap extension (SOE) PCR, sequencing, conventional and real time PCR | | | | | | |
|---|----------|------------------------|---|---|---|---------------------|
| Oligo Name | *S or AS | Clone Names | Oligo Sequence | DNA template used for SOE PCR | **Nucleotide (nt) Position and/or Reference | Virus Region & Gene |
| OTR 787 | S | Universal Outer Primer | 5' cc ctcgagT GTC CGG AGC CGT GCT GCC CG 3' | These oligos were used as universal outer primers to generate each mutant | 2 dummies, <i>XhoI</i> , nt 7-21 | MPMV 5' LTR |
| OTR 788 | AS | | 5' ccc gga tcc TTC TTT CTT ATC TAT CAA TTC TTT AAT TAA G 3' | | 3 dummies, <i>BamHI</i> , MPMV nt 1171-1141 | MPMV Gag |
| OTR 1079 | S | RK15 | 5' CTC TCG AAA GTA AGT GTT GCG CTC GG 3' | SJ2 | MPMV nt 829-886 with deletion from nt 834-866 | MPMV U5 |
| OTR 1080 | AS | | 5' CTT TCG AGA GTT TAC TTT CAC TTT TAA TC 3' | | MPMV nt 867- 810 with deletion from nt 832-870 | MPMV U5 |
| OTR 1085 | S | RK16 | 5' GCT GAT ACT TGT CCT TGG TTT CCG C 3' | SJ2 | MPMV nt 974-1029 with deletion from nt 979-1008 | MPMV Gag |
| OTR 1086 | AS | | 5' CAA GTA TCA GCA TAT TTA ACC TTT ACT CC 3' | | MPMV nt 1014-956 with deletion from nt 979-1008 | MPMV Gag |
| OTR 1194 | S | RK17 | 5' TTA AAG ACA CGG GGA GTA AAG G 3' | SJ2 | MPMV nt 944-965 | MPMV Gag |
| OTR 1195 | AS | | 5' TAC TCC CCG TGT CTT TAA TAA TTC TTG CCC CAT ATC CGA G 3' | | MPMV nt 961-883 with deletion from nt 905-943 | MPMV Gag |
| OTR 1194 | S | RK18 | 5' TTA AAG ACA CGG GGA GTA AAG G 3' | RK15 | MPMV nt 944-965 | MPMV Gag |
| OTR 1195 | AS | | 5' TAC TCC CCG TGT CTT TAA TAA TTC TTG CCC CAT ATC CGA G 3' | | MPMV nt 961-883 with deletion from nt 905-943 | MPMV Gag |
| OTR 1196 | S | RK19 | 5' TAC TTG TCC TTG GTT TCC GCA A3' | RK15 | MPMV nt 1009-1030 | MPMV Gag |
| OTR 1197 | AS | | 5' GGA AAC CAA GGA CAA GTA TCA GCA TAT TTA ACC TTT ACT CCC 3' | | MPMV nt 1026-955 with deletion from nt 979-1008 | MPMV Gag |
| OTR 1194 | S | RK20 | 5' TTA AAG ACA CGG GGA GTA AAG G 3' | RK19 | MPMV nt 944-965 | MPMV Gag |
| OTR 1195 | AS | | 5' TAC TCC CCG TGT CTT TAA TAA TTC TTG CCC CAT ATC CGA G 3' | | MPMV nt 961-883 with deletion from nt 905-943 | MPMV Gag |

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| OTR 1196 | S | RK21 | 5' TAC TTG TCC TTG GTT TCC GCA A3' | RK16 | MPMV nt 1009-1030 | MPMV Gag |
| OTR 1197 | AS | | 5' GGA AAC CAA GGA CAA GTA TCA GCA TAT TTA ACC TTT ACT CCC 3' | | MPMV nt 1026-955 with deletion from nt 979-1008 | MPMV Gag |
| IDT gene synthesis | - | RK22 | Mutant RK 26 containing substitution between Gag SL1 and Gag SL2 sequences was created through gene synthesis provided by IDT | gene synthesis | - | MPMV Gag |
| | - | | | | - | MPMV Gag |
| OTR 121 | S | Used for sequencing | 5' GGT TAA ATA TGC TGA TCT TT 3' | | MPMV nt 964-983 | MPMV Gag |
| OTR 198 | S | | 5' ccc gct agc CGC CTA CTC TAC GCC 3' | | MPMV nt 1070-1056 | MPMV Gag |
| OTR 580 | S | β-actin | 5' TGA GCT GCG TGT GGC TCC 3' | | <i>J. Virol.</i> 69:5607-5620. | Actin Spliced |
| OTR 581 | AS | | 5' GGC ATG GGG GAG GGC ATA CC 3' | | <i>J. Virol.</i> 69:5607-5620. | Actin Spliced or unspliced mRNA |
| OTR 582 | S | | 5' CCA GTG GCT TCC CCA GTG 3' | | <i>J. Virol.</i> 69:5607-5620. | Actin S-1. Unspliced mRNA |
| OTR 1161 | S | For PCR following DNase treatment | 5' GAT CAG AAC ACT GTC TTG TC 3' | | MPMV nt 642-661 | MPMV R/U5 |
| OTR 1163 | AS | | 5' CTT TCT TAT CTA TCA ATT CTT TAA 3' | | MPMV nt 1169-1146 | MPMV Gag |
| MPMV_M FAM | - | qPCR probe | 5' TCGGGACAGTTGGC 3' | | MPMV nt 734-747 | MPMV U5 |
| MPMV_F | S | qPCR Forward primer | 5' CTCCTCCAGGTTCTACTGTTGA 3' | | MPMV nt 702-724 | MPMV U5 |
| MPMV_R | AS | qPCR Reverse Primer | 5' TCGTATCCAGCCCCACGTT 3' | | MPMV nt 770-752 | MPMV U5 |

Sequence in lower case: artificial and restriction enzyme sequences that were introduced in the oligos.

*S, sense; AS, antisense.

** The MPMV nucleotide numbering system refers to the genome sequence deposited in the Genbank (accession number M12349) by Sonigo et al. 1986.