

Table S1: Primers for construction of MCMV mutants

MCMV-GFP Δ m159-170	MCMV-GFP Δ m159-170.for AACTGGAAAA TATAGTTAGCA CCGTTAGAGAG GGCGACAGATTTC GATCACTACAAGG ACGACGACAATAA
	MCMV-GFP Δ m159-170.rev ATGTGCTCGGT TAACGAGTTGGC CTTCGTCCGGC TGTCCGGCACG ACTACGTGAC ACAGGAACAC TTAACGGCTGA
MCMV-GFP Δ m162	M162.for AGGATATGCC AGGATATGAAC CCTGCCGCCGC CACCACGGCCTC CGGTCTGTCTACA AGGACGACGAC GACAAGTAA
	M162.rev ATGTATCTCT ATAATAACACC ACCTACGTCCCT GCCGACAATTAT TCCGATCACGTG ACACAGGAACAC TTAACGGCTGA
MCMV-GFP Δ m163	M163.for TTTTCCGATGC TCGTGTTGAGAT CGTCGTTTATC AGAAGCGAGG TTGGGGCCTACA AGGACGACGACGA CAAGTAA
	M163.rev ACGGACCGACCA TAAGCGAAC ACCCGACGTTCA AGAGGCGCTGCAGT CCGTGACACAGGA ACACTTAACGGC TGA
MCMV-GFP Δ m164	M164.for CCCGCTGCCAC GATGGCCTGGT TGTTGACGGC CCAGAAGATGC GCGAGTACCTA CAAGGACGACG ACGACAAGTAA
	M164.rev GCGAGGAGCTC CTGACGATCGAGC CGGTGGTACCGG ACGCGGCGGAGCCG TGTGACACAGGAAC ACTTAACGGCTGA
MCMV-GFP Δ m165	M165.for GGCTGGAGGT AGTCCTGTCGT GCGGCGGGGACG AGAGGGAGCCGAC GAAGTCTACAAGG ACGACGACGACAA GTAA
	M165.rev CTCGCGAAGGCC GAGACCAGCGGCAG CCCAGGAGGAGACC GGGTCTCGTCAGTGA CACAGGAACACTT AACGGCTGA
MCMV-GFP Δ m166	M166.for CCTCCTGGGT GACCGAGCCGAG GGCGGCGGTGGT GGTGGTTTTCTT CGGTTCTACAA GGACGACGACGA CAAGTAA
	M166.rev GCGGACACTAA CGATCCGGGAT GGCGCTTCCAGC AATTCCTCAAC AGCTATGTGACA CAGGAACACTTA ACGGCTGA

MCMV-GFP m166-HA*	m166HA.for AAGGCGGAC CGGCCTATGAGA TACTCGTGAACG AGGAGACGGC GTGATACC <u>ATACGACGTCCC</u> AGACTACGCT TGAAGGACGAC GACGACAAGTAA
	m166HA.rev TCAGCATCG TAGGCCCCGAGG GCCATGACGGCC GGTGGCCGCG AGAAAAAGGA AGGAACACTTA ACGGCTGA
MCMV m166 ^{stop}	m166 ^{stop} .for GCTCGTCAGC CGGCCCGCGC TCGTAGACTG TAGCAA TAG TA ACCGAAGA AAACCACCAC TAGGGATAAC AGGGTAATAG GATGACGACG ATAAGTAGGG
	m166 ^{stop} .rev GAGCCGAGGG CGGCGGCGGT GGTGGTGGTT TTCTTCGGTT ACTATTTGCT ACAGTCTACG AGCGCAACCA ATTAACCAAT TCTGATTAG

*Underlined: Hemagglutinin (HA) epitope sequence.