**Supplementary Table 1** *List of Primers used in the study*

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| --- | --- | --- |
| Name | Sequence | Template |
| **Primers used for generation of pGP704SceIKn** | | |
| SceIKn fwd | caagaattctagggataacagggtaatcgatttcgatttattcaacaaagccacgt | pGP704-Kan\_2 FRT-Kan-FRT |
| SceIKn rev | Gttgaattcctccggagccagtgttacaaccaattaaccaattctgatt |
| **Primers used for generation of MCMVM45ASL** | | |
| M45ASL new fwd | aagcccactcgagcgccagagcaatagaactcgttttttggcgacgagttcgccgtcagaggcgggcgaattcaatcgatgaggcagctagggataacagggtaatcgat | pGP704SceIKn |
| M45ASL int rev | GCCCCCTTCCGTGAATTATCGCGCTGCCTCATCGATTGAATTCGCCCGCCTCTGACGGCGAACTCGTCGCCAGTGTTACAACCAATTAACCAATT |
| M45ASL new fwd | Aagcccactcgagcgccagagcaatagaactcgttttttg | PCR product from reaction with 2 previous primers |
| M45ASL ext rev | TGTCCGTCGGAGTATATAAATGTAGTATGCCCCCTTCCGTGAATTATCGC |
| **Primers used for swapping anchoring isoleucin to alanine in the HGIRNASFI peptide** | | |
| M45 I to A int Fwd | gttggcggcttcgtcggccgagcagccggttgcgaaggaggcgttcctgatgccgtgtagggataacagggtaatcgatt | pGP704SceIKn |
| M45 I to A int Rev | TGAAGACGTGGTGAAACACGGCATCAGGAACGCCTCCTTCGCAACCGGCTGCTCGGCCGACGAGTGTTACAACCAATTAACCAATTCTGA |
| M45 I to A elong Fwd | cccggagtggtgcccgccaggttggcggcttcgtcggccg | PCR product from reaction with 2 previous primers |
| M45 I to A elong Rev | TTCCTCGAGAAACTACGTGAAGACGTGGTGAAACACGGCAT |
| **Primers used for insertion of the HGIRNASFI peptide in the C-terminal end of the M45 protein** | | |
| AAdM45 int fwd | Tcgttttttggcgacgagttcgccgtcagatgaacgaggcgttgcggatgccgtgagcagcgcgataattctagggataacagggtaatcgatttcgatt | pGP704SceIKn |