Electronic Supplementary Material

A Deleted Deletion Site in a New Vector Strain and Exceptional Genomic Stability of Plaque-Purified Modified Vaccinia Ankara (MVA)

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Table S1. Primers used for cloning of shuttle plasmids and for RACE.

| Primer | Primer sequence | Expected size |
|--------|-----------------|---------------|
| Deletion site III left flank f × r | AGG ACA TGT-TTG GTG GTC GCC ATG GAT GGT | 928 bp |
| Deletion site III right flank f × r | TAC CGC TAG C-T ACC AGC CAC CGA AAG AG | |
| Deletion site III right flank f × r | TGG CAC GTA GTG - CCG GAG TCT CGT CTG TTG | |
| A34R shuttle sequence f × r | AAT GCT AGC-GCG GAA TCA TCA ACA CTA CCC × GCT CTA G-ATT GTT CCC GCA ACT ACG GTC | 1393 bp |
| L3L shuttle sequence f × r | CTC TAC GGG CTA TTG TCT C × TGA ATA CCC GTA CCC ATG | 717 bp |
| A3L shuttle sequence f × r | GCA GAA GAA CAC CGC TTA GG × ATG GAA GCC GTG GTC AAT AG | 2008 bp |
| A9L/A10L shuttle sequence f × r | TTG AAA TAG CGC CAG TCC TCC × ACT ACG GCG GCA TTA TGT TCTC | 2905 bp |
| RS469 f × r | ACG GTC CTG TAG TAT CTG × CGG CAT GTG GAG TGT CTT TAT C | 469 bp |
| ITR long-PCR | GGT GTA TAG AGT TCA CAG TAG × | (*) |
| D2 RII × ITR-M | CTT GCA CAT GTC TCC GAT ACG | |
| D2 RII | GGC GCC ATG TGG AGT GTC TTT ATC | |
| D2 | GGT GTA TAG AGT TCA CAG TAG | |
| AAP | GCC ACG CGT CGA CTA GTA CGG GII GGG GGI IG, with I for inosine | |
| GSPD2-R | GGA GGT GGC TCT CGA TGA AC | |

All sequences are listed from 5’ to 3’; f × r for forward and reverse primers. D2 RII, D2, AAP and GSPD2-R are primers for RACE. (*) Expected sizes for the ITR long-PCR are 21312 (MVA-CR19), 9360 (wildtype) and (theoretically) 165444 bp for an ITR-M single-primer PCR.