

Table S1. Primers used in this study

Primer names	Primer sequences (5' - 3')
pET28a-Cas12a-F	GTGCCGCGCGGCAGCCATATGATGAGCAAGCTGGAGAAGTTT
pET28a-Cas12a-R	GTGGTGGTGGTGCTCGAGTTAGTGCTTCACGCTGGTCTGGGC
T1-F	GCTTGTGGCCGTTTACGTCGCCGTCCAGCTCGACCAGGATGGGCACCAACCCCGGC
T1-R	GCCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGC
T1-crRNA1-F	GAAATTAATACGACTCACTATAGGGTAATTTCTACTAAGTGTAGATCGTCGCCGTCCAGCT CGACC
T1-crRNA1-R	GGTCGAGCTGGACGGCGACGATCTACACTTAGTAGAAATTACCCTATAGTGAGTCGTATT AATTTC
D117L-crRNA1-F	GAAATTAATACGACTCACTATAGGAATTTCTACTAAGTGTAGATGGTATGCTCGACTTGCA GTC
D117L-crRNA1-R	GACTGCAAGTCGAGCATACCATCTACACTTAGTAGAAATTCCTATAGTGTCGTCGTATTAA TTTC
D117L-crRNA2-F	GAAATTAATACGACTCACTATAGGAATTTCTACTAAGTGTAGATTCATAACCTGTCAACCC GCG
D117L-crRNA2-R	CGCGGGTTGACAGGTTATGAATCTACACTTAGTAGAAATTCCTATAGTGAGTCGTATTAAT TTC
Non-target crRNA1-F	GAAATTAATACGACTCACTATAGGAATTTCTACTAAGTGTAGTCATAACCTGTCAACCCGC G
Non-target crRNA1-R	AGTATTGGACAGTTGGGCGCCTACACTTAGTAGAAATTCCTATAGTGTCGTCGTATTAATT TC

RPA-D117L-F1	TTAGCCCATACAATCGCCAAATATCCCGGAACAA
RPA-D117L-R1	TTCTAAAGAATACCGGGAAATGGTGGTGAGGCTC
RPA-D117L-F2	ACAACTGCGATTCTCCTGGGCATTTTGATTTT
RPA-D117L-R2	GTGGTGAGGCTCAGGTTGTTGTACATAGTAGC
RPA-D117L-F3	ACAACTGCGATTCTCCTGGGCATTTTGATTTTGC
RPA-D117L-R3	GTGGTGAGGCTCAGGTTGTTGTACATAGTAGCTA
RPA-D117L-F4	ATCCCGGAACAACCTGCGATTCTCCTGGGCATTT
RPA-D117L-R4	GCTCAGGTTGTTGTACATAGTAGCTAGGAGGA
RPA-D117L-F5	ATCCCGGAACAACCTGCGATTCTCCTGGGCATT
RPA-D117L-R5	TTCTAAAGAATACCGGGAAATGGTGGTGAGGC
PRRSV-UF	GCCCCTGCCAYCACG
PRRSV-UR	TCGCCCTAATTGAATAGGTGA
PEDV-N-F1	GGGCCGTCGACATGGCTTCTGTCAGTTTTTCAGGATCG
PEDV-N-F1	GGGCCGATATTCATTTCCTGTATCGAAGATCTCGTTGATAATTTCAAC
PKV-R1	GCATGAGTCTATTCTACACAGAGC
PKV-F1	TGTATTGGCAACGAGACGTATG
PPV4-F1	CTTTGCTTTGTCCAACGCAGA
PPV4-R1	TAGATGTCCTGGCACAGATACTTGAC
PRV-gC-F1	CGAGACCGAGGGCGTCTACAC
PRV-gC-R1	GCCCATCATCAGCGCCTGC
CSFV-UF	CTGGGTGGTCTAAGTCCTGAGTA

CSFV-UR	GATTCAACTCCATGTGCCATGTA
PCV2-F1	CACATCGAGAAAGCGAAAGGAAC
PCV2-R1	TGCGGGCCAAAAAAGGTACAGTT
PCV3-F1	CTGTTATTTTGGATGATTTTATG
PCV3-R1	CACAGCCGTTACTTCACCC
SIV-HA-F1	AAACCAATGATAGGGCCAA
SIV-HA-R1	TTGCACTACACAGTTACCAC
p72-UF	TGCTCATGGTATCAATCTTATCG
p72-UR	CCACTGGGTTGGTATTCCTC
p72-TaqMan	5' FAM-TTCCATCAAAGTTCTGCAGCTCTT-TAMRA 3'
