

Electronic Supplementary Material

Effects of N-linked Glycan on Lassa Virus Envelope Glycoprotein Cleavage, Infectivity, and Immune Response

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Table S1 Primers for the mutagenesis.

	N→Q	N→A	S/T→A
N ₇₉	AACATGGAGACTC <u>CAA</u> ATGACCATGC	AACATGGAGACTC <u>GCC</u> ATGACCATGC	GGAGACTCAATAT <u>GCC</u> ATGCCTCTCTC
MT	<u>TTG</u> GAGTGTCTCCATGTTTAGTTCCAG	<u>GGC</u> GAGTGTCTCCATGTTTAGTTCCAG	<u>GGC</u> CATATTGAGTGTCTCCATGTTTAGTTCC
N ₈₉	CTCTCCTGCACAAAG <u>CAA</u> AACAGTCATC	CTCTCCTGCACAAAG <u>GCC</u> AACAGTCATC	TGCACAAAGAACAAC <u>GCT</u> CATCATT
NS	<u>TTG</u> CTTTGTGCAGGAGAGAGGCATGGT	<u>GGC</u> CTTTGTGCAGGAGAGAGGCATGGT	<u>AGC</u> GTTGTTCTTTGTGCAGGAGAGA
N _{99E}	ATATAATGGTGGG <u>CCA</u> AGAGACAGGA	ATATAATGGTGGG <u>GCC</u> GAGACAGGA	TAATGGTGGCAATGAG <u>GCA</u> GAGACTAGAAC
T	<u>TTG</u> GCCCACCATTATATAATGATGACT	<u>GGC</u> GCCCACCATTATATAATGATGACT	<u>TGC</u> CTCATTGCCACCATTATATAATGATGAC
N ₁₀₉	GAACTGACCTGAC <u>CCA</u> ACGAGCATTAA	GAACTGACCTGAC <u>GCC</u> ACGAGCATTAA	GACCTGACCAACAC <u>GCC</u> CATTATTAATCAC
TS	<u>TTG</u> GGTCAAGGTCAGTTCTAGTCCTGT	<u>GGC</u> GGTCAAGGTCAGTTCTAGTCCTGT	<u>GGC</u> CGTGTGGTCAAGGTCAGTTCTAGTCC
N ₁₁₉	ATCACAAATTTG <u>CAA</u> ACTGTCTGATG	ATCACAAATTTG <u>CGC</u> CTGTCTGATG	CAAATTTGCAATCT <u>GCT</u> GATGCCACAA
LS	<u>TTG</u> GCAAAATTTGTGATTAATAATGCT	<u>GGC</u> GCAAAATTTGTGATTAATAATGCT	<u>AGC</u> CAGATTGCAAAATTTGTGATTAATAATG
N ₁₆₇	TTAGTGTGCAGTAC <u>CAA</u> CTGAGTCACA	TTAGTGTGCAGTAC <u>GCC</u> CTGAGTCACA	TGTGCAGTACAACCT <u>GCT</u> CACAGCTATGC
LS	<u>TTG</u> GTA CTGCACACTAATCTTTCCCCCA	<u>GGC</u> GTA CTGCACACTAATCTTTCCCCCA	<u>AGC</u> CAGGTTGTA CTGCACACTAATCTTTCCCC
N ₂₂₄	TATCTGATAATCCA <u>CAA</u> ACAACCTGGG	TATCTGATAATCCA <u>GCC</u> ACAACCTGGG	GATAATCCAAAATAC <u>GCT</u> TGGGAAGATC
TT	<u>TTG</u> TTGGATTATCAGATATTGATAACT	<u>GGC</u> TTGGATTATCAGATATTGATAACT	<u>GGC</u> TGATTTTGGATTATCAGATATTGATA
N ₃₆₅	GGAATTCATACTGT <u>CA</u> TACAGCAAGT	GGAATTCATACTGT <u>GCC</u> TACAGCAAGT	CCATACTGTAATTAC <u>GCC</u> AAGTATT
YS	<u>TTG</u> ACAGTATGGAATCCCATGATGTCC	<u>GGC</u> ACAGTATGGAATCCCATGATGTCC	<u>GGC</u> GTAATTACAGTATGGAATTTCC
N ₃₇₃	AAGTATTGGTACCT <u>CAA</u> CACACA ACTA	AAGTATTGGTACCT <u>GCC</u> CACACA ACTA	TTGGTACCTCAACCAC <u>GCA</u> ACTACTGGGAG
HT	<u>TTG</u> GAGGTACCAATACTTGCTGTA	<u>GGC</u> GAGGTACCAATACTTGCTGTA	<u>TGC</u> GTGGTTGAGGTACCAATACTTGCTGTA
N ₃₉₀	AATGTTGGCTTGATC <u>CAA</u> AGGTTCTACT	AATGTTGGCTTGATC <u>GCC</u> AGGTTCTACT	GCTTGATCAAATGGT <u>GCA</u> TACTTGAACG
GS	<u>TTG</u> TGATACAAGCCAACATTTGGGCAGTGA	<u>GGC</u> TGATACAAGCCAACATTTGGGCAGTGA	<u>TGC</u> ACCATTTGATACAAGCCAACATTTGG
N ₃₉₅	AATGGTTCATACTTG <u>CA</u> AGAGACCCACT	AATGGTTCATACTTG <u>GCC</u> AGAGACCCACT	TTCATACTGAACGAG <u>GCC</u> CACTTTTCTG
ET	<u>TTG</u> CAAGTATGAACCATTTGATACAAGC	<u>GGC</u> CAAGTATGAACCATTTGATACAAGC	<u>GGC</u> CTCGTTCAAGTATGAACCATTTGATAC

Table S2 Stimulation peptides (predicted by www.iedb.org)

	Location	Sequencing	Purity (%)
P1	277–285	GYCLTRWML	95
P2	128–136	LYDHALMSI	95
P3	65–73	VYELQTLEL	95
P4	315–323	LFDFNKQAI	95
P5	156–164	DFNGGKISV	95
P6	322–336	AIQRLKAEAQMSIQL	95