

APPLIED MICROBIOLOGY AND BIOTECHNOLOGY

Identification of a B-cell epitope in the VP3 protein of Senecavirus A

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Table S1

Primers used for construction of VP3 truncations.

Name	Sequence(5'-3')	Residues sites
VP3	F TGCCGGGGT <u>ACCGG</u> ACCTATGATGGCAAGA	123-243aa
	R GCACCGGA <u>AATTC</u> TTAGTTGTTCGGTGGAGTGGAA	
N123-157	F CAGAAC <u>GAGCTC</u> GGACCTATGATGGC	123-157aa
	R CAGCAC <u>CCGCGG</u> GTTTAAGCCTATATCC	
N137-171	F CATGAC <u>GAGCTC</u> CAACCACAGACCCTTTC	137-171aa
	R CAATAC <u>CCGCGG</u> CCGAGTTTCAC	
N161-195	F CAGCAC <u>GAGCTC</u> TCTAGTTGGACCTTTG	161-195aa
	R CAGCTC <u>CCGCGG</u> AATTTGGTCAGC	
N185-219	F CATCAG <u>GAGCTC</u> ATTACCAATTCGG	185-219aa
	R CAATAC <u>CCGCGG</u> GGGTGTAATCC	
N209-243	F CAGCAG <u>GAGCTC</u> CTACCACCTGATTGC	209-243aa
	R CAATAC <u>CCGCGG</u> GTTGTTCGGTG	
N161-181	F CAGCAG <u>GAGCTC</u> AGTTGGACCTTTGTCATC	161-181aa
	R CAATAC <u>CCGCGG</u> CCGAGTTTCACGGTAATC	
N176-191	F CAGCAG <u>GAGCTC</u> TACCGTGAAACTCGGG	176-191aa
	R CAATAC <u>CCGCGG</u> ATCAGCAGAATAAACTGAG	
N186-201	F CAGCAG <u>GAGCTC</u> GTATTCTGCTGATGG	186-201aa
	R CAATAC <u>CCGCGG</u> TTTGGTCAGCTTGTG	
N196-211	F CAGCAG <u>GAGCTC</u> CACAAGCTGACCAAAATTC	196-211aa
	R CAATAC <u>CCGCGG</u> ACTCTGTGGGCAG	
N1206-219	F CAGCAG <u>GAGCTC</u> CCTGACTGCCCACAG	206-219aa
	R CAATAC <u>CCGCGG</u> GAGAGGCAAAAAAGAG	

Table S2

Primers used to generate specific mutations in the VP3 gene of the infectious clone pC3-SVA-GD05.

Mutant		Sequence(5'-3')
G192A	F	CCAACTCAGTTTATTCTGCTGATgctTGGTTTAGCCTGCACAAGCTG
	R	CAGCTTGTGCAGGCTAAACCAagcATCAGCAGAATAAACTGAGTTGG
W193A	F	AACTCAGTTTATTCTGCTGATGGTgctTTTAGCCTGCACAAGCTGAC
	R	TAATTTTGGTCAGCTTGTGCAGGCTAAAagcACCATCAGCAGAATA
F194A	F	TTATTCTGCTGATGGTTGGgctAGCCTGCACAAGCTGACCAAAATT
	R	TTTGGTCAGCTTGTGCAGGCTagcCCAACCATCAGCAGAATAAAC
S195A	F	ATTCTGCTGATGGTTGGTTTgctCTGCACAAGCTGACCAAAATTACT
	R	TTGGTCAGCTTGTGCAGagcAAACCAACCATCAGCAGAATAAACT
L196A	F	GCTGATGGTTGGTTTAGCgctCACAAGCTGACCAAAATTACTCTAC
	R	TAATTTTGGTCAGCTTGTGagcGCTAAACCAACCATCAGCAGAATAAA
H197A	F	CTGCTGATGGTTGGTTTAGCCTGgctAAGCTGACCAAAATTACTC
	R	GAGTAATTTTGGTCAGCTTagcCAGGCTAAACCAACCATCAGCAG
K198A	F	TGATGGTTGGTTTAGCCTGCACgctCTGACCAAAATTACTCTACCAC
	R	TGGTAGAGTAATTTTGGTCAGagcGTGCAGGCTAAACCAACCATCAGC
L199A	F	TTGGTTTAGCCTGCACAAGgctACCAAAATTACTCTACCACCTGAC
	R	TGGTAGAGTAATTTTGGTagcCTTGTGCAGGCTAAACCAACCATC
T200A	F	GGTTGGTTTAGCCTGCACAAGCTGgctAAAATTACTCTACCACC
	R	GGTGGTAGAGTAATTTTagcCAGCTTGTGCAGGCTAAACCAACC
K201A	F	TTTAGCCTGCACAAGCTGACCgctATTACTCTACCACCTGACTGC
	R	GTCAGGTGGTAGAGTAATagcGGTCAGCTTGTGCAGGCTAAACCAAC