Origin Variant	Variant	wt vs mu	Name	Sequances	aa start	Protein	Confirmed vs predicted	Ref
SA	SA-L18F	wt	6-WT	VLLPLVSSQCVNLTT	6	S(non-RBD)	Confirmed	Mateus et al
SA	SA-L18F	wt	11-WT	VSSQCVNLTTRTQLP	11	S(non-RBD)		
SA	SA-D80A	wt	73-WT	TNGTKRFDNPVLPFN	73	S(non-RBD)		
SA	SA-D80A	WT	78-WT	RFDNPVLPFNDGVYF	78	S(non-RBD)		
SA	SA-D215G	wt	206-WT	KHTPINLVRDLPQGF	206	S(non-RBD)	Predicted	
SA	SA-D215G	wt	208-WT	TPINLVRDLPQGFSA	208	S(non-RBD)	Confirmed	Peng et al
SA	SA-D215G	wt	211-WT	NLVRDLPQGFSALEP	211	S(non-RBD)	Confirmed	Peng et al
SA	SA 242-244del/SA-R246I	wt	236-WT	TRFQTLLALHRSYLT	236	S(non-RBD)	confirmed	Mateus et al
SA	SA 242-244del/SA-R246I	wt	241-WT	LLALHRSYLTPGDSS	241	S(non-RBD)	confirmed	Mateus et al
SA	SA-K147N	wt	411-WT	APGQTGKIADYNYKL	411	**S(RBD)**		
SA	SA-K147N	wt	416-WT	GKIADYNYKLPDDFT	416	**S(RBD)**	Confirmed	Mateus et al
SA	SA-E484K	wt	476-WT	GSTPCNGVEGFNCYF	476	**S(RBD)**		
SA	SA-E484K	wt	481-WT	NGVEGFNCYFPLQSY	481	**S(RBD)**	predicted	
SA	SA-N501Y	wt	492-WT	LQSYGFQPTNGVGYQ	492	**S(RBD)**	predicted	
SA	SA-N501Y	wt	496-WT	GFQPTNGVGYQPYRV	496	**S(RBD)**		
SA	SA-A701V	wt	691-WT	SIIAYTMSLGAENSV	691	S(non-RBD)	confirmed	Mateus et al
SA	SA-L18F	mu-SA	6-MU	VLLPLVSSQCVN**F**TT	6	S(non-RBD)	Confirmed	Mateus et al
SA	SA-L18F	wt	11-WT	VSSQCVN**L**TTRTQLP	11	S(non-RBD)		
SA	SA-D80A	mu-SA	73-MU	TNGTKRF**A**NPVLPFN	73	S(non-RBD)		
SA	SA-D80A	mu-SA	78-MU	RF**A**NPVLPFNDGVYF	78	S(non-RBD)		
SA	SA-D215G	mu-SA	206-MU	KHTPINLVR**G**LPQGF	206	S(non-RBD)		
SA	SA-D215G	mu-SA	208-MU	TPINLVR**G**LPQGFSA	208	S(non-RBD)		
SA	SA-D215G	mu-SA	211-MU	NLVR**G**LPQGFSALEP	211	S(non-RBD)		
SA	SA 242-244del/SA-R246I	mu-SA	236-MU	TRFQTL**H**ISYLTPGD	236	S(non-RBD)		
SA	SA 242-244del/SA-R246I	mu-SA	241-MU	L**H**ISYLTPGDSSSGW	241	S(non-RBD)		
SA	SA-K147N	mu-SA	411-MU	APGQTG**N**IADYNYKL	411	**S(RBD)**		
SA	SA-K147N	mu-SA	416-MU	G**N**IADYNYKLPDDFT	416	**S(RBD)**		
SA	SA-E484K	mu-SA	476-MU	GSTPCNGV**K**GFNCYF	476	**S(RBD)**		
SA	SA-E484K	mu-SA	481-MU	NGV**K**GFNCYFPLQSY	481	**S(RBD)**		
SA	SA-N501Y	mu-SA	492-MU	LQSYGFQPT**Y**GVGYQ	492	**S(RBD)**		
SA	SA-N501Y	mu-SA	496-MU	GFQPT**Y**GVGYQPYRV	496	**S(RBD)**		
SA	SA-A701V	mu-SA	691-MU	SIIAYTMSLG**V**ENSV	691	S(non-RBD)		