

Mutant	Residues Mutated
1	I205A, N208A, K212A
2	N216A, E219A
3	D222A, S224A
4	K268A, K270A
5	E269A, N271A, K274A
6	E273A, N277A
7	K331A, L334A, K339A
8	R333A, N337A, K341A
9	L357A, S361A
10	N378A, K381A, K382A
11	D388A, N391A, N394A
12	K398A, N403A, D404A, D406A
13	K410A, E412A, K413A
14	E414A, D416A, D417A
15	K553A, K558A, E562A
16	Y555A, K559A, E562A

Table S3: Substituted residues listed for each mutant construct in order from N to C terminus