

Number of strains

200
150
100
50
0

0 nonmutated resiues in the motif

3 nonmutated resiues in the motif

4 nonmutated resiues in the motif

11
6
S(1) Q(7) G(9) G(11) N(12) A(14) Q(18)

5 nonmutated resiues in the motif

6 nonmutated resiues in the motif

200
150
100
50
0

S(1) Q(7) G(9) G(11) N(12) A(14) Q(18)

S(1) Q(7) G(9) G(11) N(12) A(14) Q(18)

Position in the motif with the largest number of mutations

Number of other amino acids
on a given position

1 2 3 4

