

Supplementary material:

Table 1: Comparison of the H-bonds and salt bridge contacts between interacting residues in the docked CA2009 HA - 2D1 complex and those in the 1918SC HA-2D1 co-crystal. Residues within the 'Sa' antigenic site are indicated in bold font. Residue numbers of the heavy and light chain are prefixed with H and L respectively.

HA 1918SC-2D1				CA2009 HA -2D1			
HA1 residue	2D1 residue	Type	Distance (Å)	HA1 residue	2D1 residue	Type	Distance (Å)
125S	L-91	H-bond	3.0	119E	H-58	H-bond	3.0
126S	L-93	H-bond	3.2	119E	L-95	H-bond	3.2
129N	H-97	H-bond	3.2	123K	H-54	H-bond	2.2
157N	H52	Salt	3.7	123 K	H-54	Salt	2.2
157N	H54	Salt	3.0	126S	L-93	H-bond	3.2
160S	H-97	H-bond	3.0	166K	L-31	H-bond	2.1
160S	H-99	H-bond	2.5	166K	L-93	H-bond	1.9
161Y	H-99	H-bond	3.1	166K	L-93	Salt	1.9
161Y	H100	H-bond	3.1	167S	L-30	H-bond	3.2
163K	H-100	H-bond	2.7	171D	L-94	H-bond	2.7
163K	H-100	Salt	2.7				
166K	L-31	H-bond	2.9				
166K	L-93	H-bond	2.7				
166K	L-93	Salt	2.7				
167S	L-30	H-bond	3.1				