

Appendix Table. Nucleotide changes and amino acid substitutions in structural regions of 30 West Nile virus isolates collected from 2002–2005 epidemics in the United States compared with isolate WN-NY99*

Isolate	Gene									
	Core						prM	Env		
	Nucleotide (amino acid) no.									
	128 (11)	158 (22)	196 (33)	251 (52)	326 (77)	332 (79)	660	977 (294)	989 (298)	1121 (342)
WN-NY99	G (S)	T (M)	A (M)	C (A)	C (A)	A (K)	C	T (L)	A (N)	A (N)
FDA/HU-02		C (T)		T (V)						
ARC10-02										
ARC12-02										
ARC13-02										
ARC15-02										T
ARC16-02					T (V)					T
ARC17-02										T
BSL5-03										T
BSL9-03										T
BSL56-03										
BSL62-03										
BSL114-03										T
RMS1-03										T
RMS2-03										T
RMS3-03										
RMS4-03										T
BSL1-04										T
BSL2-04										T
BSL4-04										T
BSL5-04										T
BSL6-04			G (V)							T
BSL7-04										T
BSL8-04										T
BSL2-05									G (S)	G (S)
BSL6-05										T
BSL9-05										
BSL10-05						G (R)				
BSL13-05	A (N)							T	C (P)	
GCTX1-05								T		G(S)
GCTX2-05								T		
Isolate	Env									
	1320	1442 (449)	1511 (472)	1652 (519)	1729 (544)	1900 (602)	1974	2083 (662)	2147 (684)	2466 (790)
WN-NY99	A	T (V)	A (E)	G (G)	T (L)	C (L)	C	A (I)	A (N)	C
FDA/HU-02		C (A)							G (S)	T
ARC10-02		C (A)								T
ARC12-02										
ARC13-02		C (A)								T
ARC15-02		C (A)								T
ARC16-02		C (A)								T
ARC17-02		C (A)								T
BSL5-03		C (A)						G (V)		T
BSL9-03		C (A)			C (S)					T
BSL56-03		C (A)								T
BSL62-03		C (A)								T
BSL114-03		C (A)								T
RMS1-03		C (A)								T
RMS2-03		C (A)								T
RMS3-03		C (A)								T
RMS4-03		C (A)								T
BSL1-04	G	C (A)					T			T
BSL2-04	G	C (A)					T			T
BSL4-04	G	C (A)					T			T
BSL5-04	G	C (A)					T			T
BSL6-04	G	C (A)					T			T
BSL7-04	G	C (A)					T			T
BSL8-04	G	C (A)								T
BSL2-05		C (A)	G (G)			A (I)				T
BSL6-05		C (A)		A (E)			T			T
BSL9-05		C (A)					T			T
BSL10-05		C (A)								T
BSL13-05	G	C (A)					T			T
GCTX1-05	G	C (A)					T			T
GCTX2-05		C (A)								T

*prM, premembrane; ENV, envelope. Unique silent mutations are not shown.