

(a)

C1					K	L	L	T	A	T	T	E	K	Y	L	N
C2					S	L	L	T	A	T	T	E	K	W	A	H
C3						I	H	T	A	T	T	E	K	G	S	T R
C4	I	T	D	P	F	K	T	G	T	T	E	K				
C5					K	H	L	N	T	A	L	T	E	K	R	Y
C6					E	H	L	N	T	A	F	T	E	K	E	T
C7					S	L	L	R	H	T	H	L	E	W	A	H
C8					S	A	D	C	R	L	C	A	L	P	M	R
C9					P	P	L	R	Y	A	D	L	S	G	V	H
C10					K	N	N	L	S	D	L	A	P	R	R	Y
Consensus								L	T	A	T	T	E	K		
WNV-NS1					P	K	R	L	T	A	T	T	E	K	L	E I G

(b)

D1					V	V	T	G	P	E	T	K	E	C	H	S
D2					V	V	A	G	P	E	T	K	E	C	S	S
D3					V	V	D	G	M	E	T	A	E	C	L	W
D4	P	L			V	H	D	G	N	T	T	L	E	C		
D5	F	A	E	P	P	R	Y	K	T	T	Q	N				
D6	A	H	H	T	L	L	E	L	W	T	Q	A				
D7	H	N	S	D	S	L	M	M	L	S	H	W				
D8	N	N	M	Y	H	H	R	N	L	S	Y	M				
D9	A	S	Y	S	N	L	T	H	W	L	S	S				
D10	E	M	G	A	M	H	R	A	L	T	L	W				
Consensus					V	V	D	G	P	E	T	K	E	C		
WNV-NS1	T	F	V	V	D	G	P	E	T	K	E	C	P	T		