

A

CHIKV LR2006-OPY1	A	G	A	C	G	8,716	8,718	8,720	A	C	A	G	C	
25828 #1	A	G	A	C	G	G	A	U	G	A	C	A	G	C
25828 #2	A	A	G	A	C	G	A	U	G	A	C	A	G	C
25828 #3	A	A	G	A	C	G	A	U	G	A	C	A	G	C
25828 #4	A	A	G	A	C	G	A	U	G	A	C	A	G	C
25828 #5	A	A	G	A	C	G	A	U	G	A	C	A	G	C
26638 #1	A	A	G	A	C	G	A	U	G	A	C	A	G	C
26638 #2	A	A	G	A	C	G	A	U	G	A	C	A	G	C
26638 #3	A	A	G	A	C	G	A	U	G	A	C	A	G	C
26638 #4	A	A	G	A	C	G	A	U	G	A	C	A	G	C
26638 #5	A	A	G	A	C	G	A	U	G	A	C	A	G	C
29858 #1	A	A	G	A	C	G	A	U	G	A	C	A	G	C
29858 #2	A	A	G	A	C	G	A	U	G	A	C	A	G	C
29858 #3	A	A	G	A	C	G	A	U	G	A	C	A	G	C
29858 #4	A	A	G	A	C	G	A	U	G	A	C	A	G	C
29858 #5	A	A	G	A	C	G	A	U	G	A	C	A	G	C
30668 #1	A	A	G	A	C	G	A	U	G	A	C	A	G	C
30668 #2	A	A	G	A	C	G	A	U	G	A	C	A	G	C
30668 #3	A	A	G	A	C	G	A	U	G	A	C	A	G	C
30668 #4	A	A	G	A	C	G	A	U	G	A	C	A	G	C
30668 #5	A	A	G	A	C	G	A	U	G	A	C	A	G	C

C

CHIKV LR2006-OPY1	A	C	G	U	G	10,166	10,173	10,175	U	G	C	U	G	C
25828 #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
25828 #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
25828 #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
25828 #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
25828 #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C
26638 #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
26638 #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
26638 #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
26638 #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
26638 #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30668 #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30668 #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30668 #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30668 #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30668 #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C

B

CHIKV LR2006-OPY1	A	G	A	C	G	8,716	8,718	8,720	A	C	A	G	C	
30664 R. Quad #1	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Quad #2	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Quad #3	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Quad #4	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Quad #5	A	G	A	C	G	G	A	U	G	A	C	A	G	C
29858 R. Toe #1	A	G	A	C	G	G	A	U	G	A	C	A	G	C
29858 R. Toe #2	A	G	A	C	G	G	A	U	G	A	C	A	G	C
29858 R. Toe #3	A	G	A	C	G	G	A	U	G	A	C	A	G	C
29858 R. Toe #4	A	G	A	C	G	G	A	U	G	A	C	A	G	C
29858 R. Toe #5	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Toe #1	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Toe #2	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Toe #3	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Toe #4	A	G	A	C	G	G	A	U	G	A	C	A	G	C
30664 R. Toe #5	A	G	A	C	G	G	A	U	G	A	C	A	G	C

D

CHIKV LR2006-OPY1	A	C	G	U	G	10,170	10,174	10,176	U	G	C	U	G	C
30664 R. Quad #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Quad #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Quad #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Quad #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Quad #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 R. Toe #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 R. Toe #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 R. Toe #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 R. Toe #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
29858 R. Toe #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Toe #1	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Toe #2	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Toe #3	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Toe #4	A	C	G	U	G	A	A	G	U	G	C	U	G	C
30664 R. Toe #5	A	C	G	U	G	A	A	G	U	G	C	U	G	C

Figure S1

A

	8,710							8,720										
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C

B

	10,170							10,180										
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G

Figure S2

A

	9,710										9,720							
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C

B

	10,170										10,180							
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G

Figure S3

A

	8,710								8,720									
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #4	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #4	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C

B

	10,170								10,180									
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #4	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #4	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G

Figure S4

A

	8,710										8,720									
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV WT	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N + CHK-152 #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N + CHK-152 #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N + CHK-152 #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N E1-K61T + CHK-152/CHK-166 #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E2-D59N E1-K61T + CHK-152/CHK-166 #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T + CHK-166 #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T + CHK-166 #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		
CHIKV E1-K61T + CHK-166 #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C		

B

	10,170										10,180									
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV WT	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N + CHK-152 #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N + CHK-152 #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N + CHK-152 #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N E1-K61T + CHK-152/CHK-166 #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E2-D59N E1-K61T + CHK-152/CHK-166 #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T + CHK-166 #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T + CHK-166 #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		
CHIKV E1-K61T + CHK-166 #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G		

Figure S5

A

	8,710										8,720							
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #4	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C

B

	10,170										10,180							
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #4	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G

Figure S6

A

	8,710										8,720							
CHIKV LR2006-OPY1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #1	U	A	A	A	G	A	C	G	G	A	U	G	A	Y	A	G	C	C
CHIKV WT #2	U	A	A	A	G	A	C	G	G	A	U	G	A	A	G	C	C	C
CHIKV WT #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV WT #4	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N #4	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #1	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #2	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #3	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E2-D59N E1-K61T #4	U	A	A	A	G	A	C	G	A	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #1	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #2	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #3	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C
CHIKV E1-K61T #4	U	A	A	A	G	A	C	G	G	A	U	G	A	C	A	G	C	C

B

	10,160										10,170							
CHIKV LR2006-OPY1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #1	G	U	A	C	G	U	G	A	A	R	U	G	C	U	G	C	G	G
CHIKV WT #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV WT #4	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #1	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #2	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #3	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N #4	G	U	A	C	G	U	G	A	A	G	U	G	C	U	G	S	G	G
CHIKV E2-D59N E1-K61T #1	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E2-D59N E1-K61T #4	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #1	G	U	A	C	S	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #2	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #3	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G
CHIKV E1-K61T #4	G	U	A	C	G	U	G	A	C	G	U	G	C	U	G	C	G	G

Figure S7

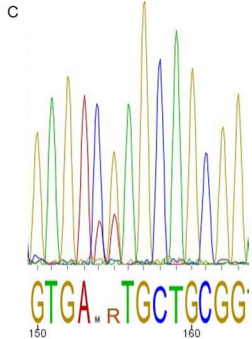
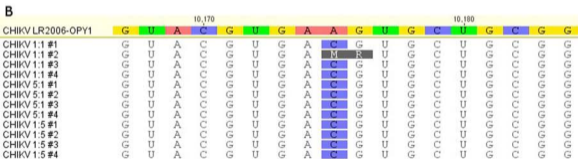


Figure S8