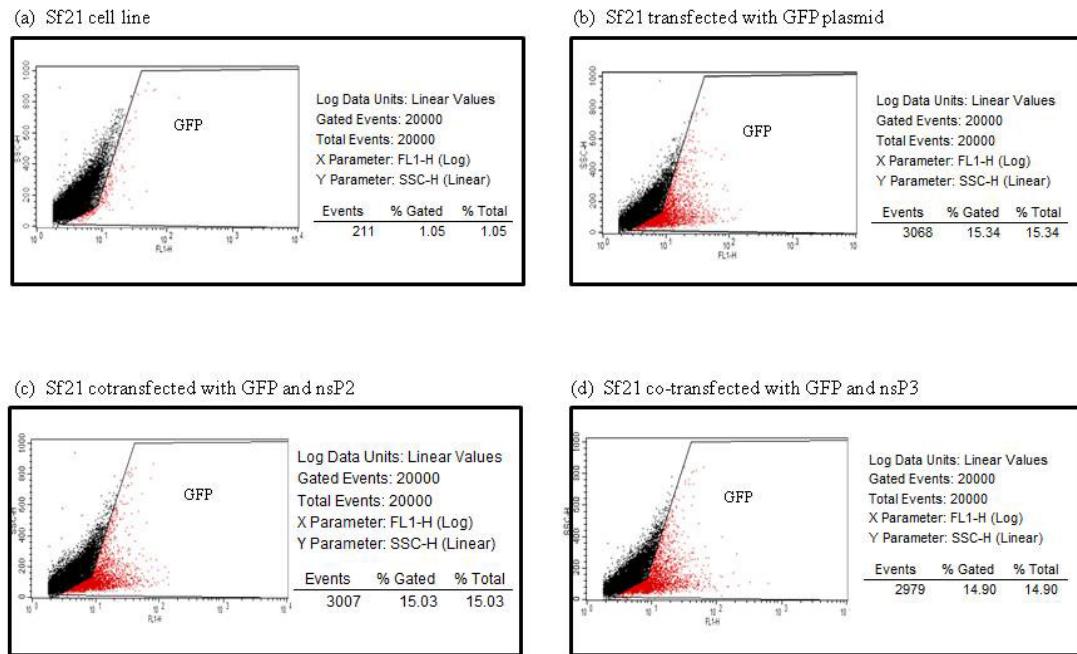


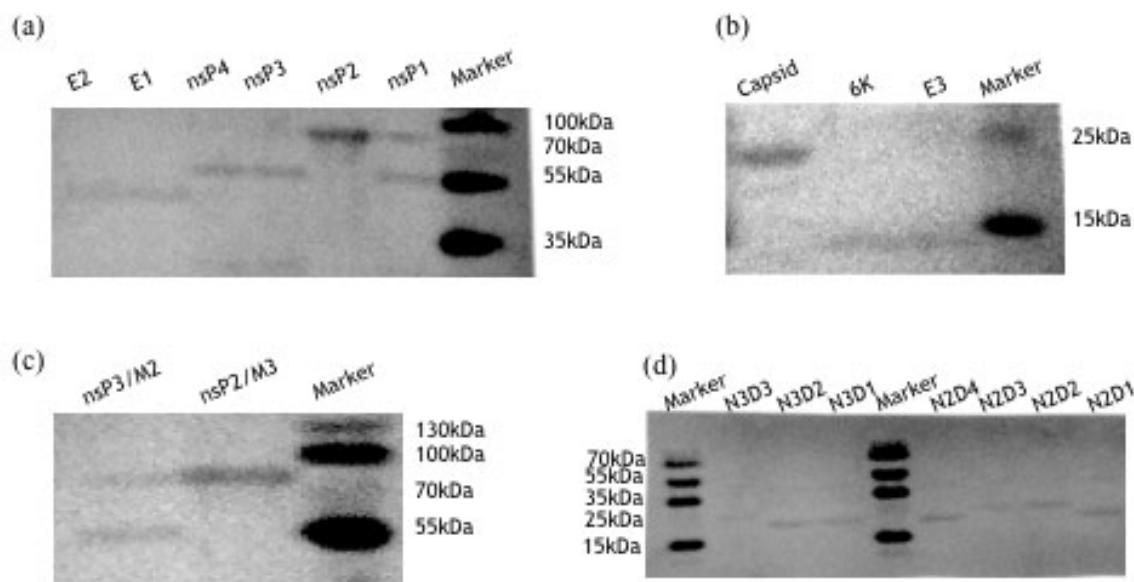
**Analysis of chikungunya virus proteins reveals that non-structural
proteins nsP2 and nsP3 exhibit RNA interference (RNAi) suppressor
activity**

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Supporting information



Supplementary Figure S1. Trans-activation assay of CHIKV VSRs. SF21 cell line was co-transfected with GFP plasmid and VSR plasmids. FACS analysis was done after 72h.



Supplementary Figure S2. Western blotting of CHIKV plasmid constructs. Sf21 cell line was transfected with CHIKV plasmids. Cells were harvested after 72h and western blotting was done using anti-His primary antibody and AP conjugated secondary antibody.

Supplementary Table 1. Primers used in the study

S.No.	Plasmid	Primer Sequence
	pIB/V5-His TOPO (Transfection in Sf21 & Aag2)	
1	nsP1	FP: GTAATGGATCCTGTGTACGTGG RP: TGCACCCGCTCTGTCTT
2	nsP2	FP: GTAATGGGAATAATAGAGAGACTCCGAGA RP: TCCTGCTCGGGTGGCCTG
3	nsP3	FP: GTAATGGGATGTGCACCGTCGTACCGG RP: TTACTCGTCGTCCGTGTCTG
4	nsP4	FP: GTAATGGGACGACTAGACAGGGCAGGTG RP: AGGACCGCCGTACAAAGTTA
5	E1	FP: GTAATGGCGTACGAACACAGTAACAG RP: TTAGTGCCTGCTGAACGACAC
6	E2	FP: GTAATGGGAAGCACCAAGGACAACCTCAAT RP: TTTAGCTGTTCTGATGCAGC
7	E3	FP: GTAATGGGATGGAGTCTGCCATCCCAGT RP: GCGTCGCTGGCGGTGG
8	Capsid	FP: GTAATGGAGTTCATCCAACCC RP: CTCTTCGGCTCCCTCAG

9	6K	FP: GTAATGGCGGCCACATACCAAGAG RP: GCTCACAGTGTGGCAC
10	N2D1	FP: GTAATGGGAATAATAGAGACTCCGAGA RP: GACTGCAATTGTATGGGCAG
11	N2D2	FP: ATCGGATCCGTAATGGGAATAGGAGTCTTCG RP: TGTCTTCATACCAGTTACCTTC
12	N2D3	FP: ATCGGATCCGTAATGGGACTCTCCGGTGACC RP: CTTGTTAACCAAGCCATTCCATT
13	N2D4	FP: ATCGGATCCGTAATGGGAATAACGGCCACCA RP: TCCTGCTCGGGTGGCCTG
14	N3D1	FP: GTAATGGGATGTGCACCGTCGTACCGG RP: TTGGGTCCGCATCTGTAT
15	N3D2	FP: ATCGGATCCGTAATGGTGGAGCTGCTGG RP: GTATTCCCTTGGACTTACGCG
16	N3D3	FP: ATCGGATCCGTAATGGGAAGACCTCCCAGGAGT RP: TTACTCGTCGTCCGTCTG
	pcDNA 3.1(+) (Transfection in HEK293T)	
17	nsP1	FP: ATCAAGCTTGTAAATGGATCCTGTGTACGTGG RP: ATCGAATTCAATTGCAACCGCTCTGTCCCT
18	nsP2	FP: ATCGGATCCGTAATGGGAATAATAGAGACTCCGAGA RP: ATCCTCGAGATTCTGCTCGGGTGGC
19	nsP3	FP: ATCGGATCCGTAATGGGATGTGCACCGTCGTA RP: ATCGAATTCAATTAACTCGTCGTCCGTCTG
20	nsP4	FP: ATCGGATCCGTAATGGGACGACTAGACAGGG RP: ATCGAATTCAATTAGGACCGCCGTACAAAGTTA
21	E1	FP: ATCGGATCCGTAATGGCGTACGAACACGTAAACAG RP: ATCGAATTCAATTGTGCCTGCTGAACGACAC
22	E2	FP: ATCGGATCCGTAATGGGAAGCACCAAGGACA RP: ATCGAATTCAATTAGCTGTTCTGATGCAGC
23	E3	FP: ATCGGATCCGTAATGGGATGGAGTCTTGCCTCCAGT RP: ATCGAATTCAATTGCGTCGCTGGCGGTG
24	Capsid	FP: ATCGGATCCGTAATGGAGTTCATCCCAACCCA RP: ATCGAATTCAATTCTCTCCGGCTCCCTCAG
25	6K	FP: ATCGGATCCGTAATGGCGGCCACATACCAA RP: ATCGAATTCAATTGCTCACAGTGTGGGCAC
26	shRNA oligonucleotide	GGT TAT GTA CAG GAA CGC ATT CAA GAG ATG CGT TCC TGT ACA TAA CCT T