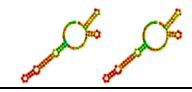
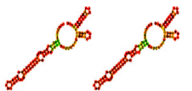
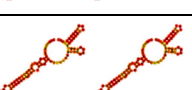
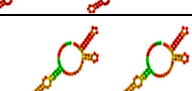
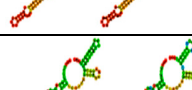
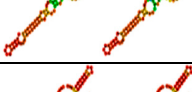
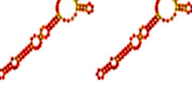
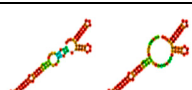


Supplementary file S1: The sequence of gRNAs and the restriction enzyme cutting site at their target site with their GC content and folding harmony with tracrRNA.

NAME	TARGET SITE (PAM)	GC%	RE SITES	gRNA - tracrRNA Folding	Targeted gene
1. gRNA_C1	TTGCTGTTGCCAATACTGTTTGG	40	HpyCH4III		C1-REPLICATION PROTEIN A (REP-A)
2. gRNA_C1/C2	GCCTAGAGATCTTGCCCACTGGG	55	BtsIMutI		C1/C2- INTRONIC REGION BETWEEN REPLICATION PROTEIN A and B
3. gRNA_C2	GCAATACAAGGTCTTCCGCCTGG	55	Acil		C2- REPLICATION PROTEIN B (REP-B)
4. gRNA_V1	CCITCCACTTATCGATTAGGAG	45	BsII		V1-CAPSID PROTEIN (CP)
5. gRNA_V1/V2	GGAAGAGGAAGACGACCGGTGGG	60	AgeI		V1/V2- OVERLAPPING REGION BETWEEN CAPSID AND MOVEMENT PROTEIN
6. gRNA_V2	GCGTAAGTGTAGTTTGTACCAAGG	45	RsaI		V2-MOVEMENT PROTEIN (MP)
7.gRNA_V2/V3	CCITTCAGAGTGAGCGAATTTC	45	Hpy188I		V3/V2 – OVERLAPPING REGION BETWEEN ssDNA AND REGULATOR PROTEIN
8. gRNA_V3	TGATGGTGTGTATTCCCGACTGG	50	Hpy188III		V3-ssDNA REGULATOR PROTEIN