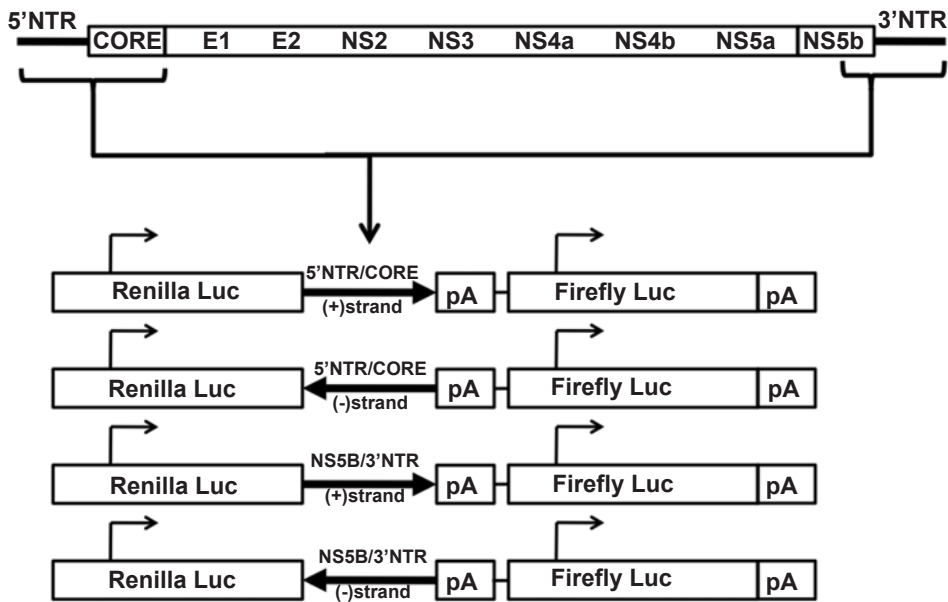
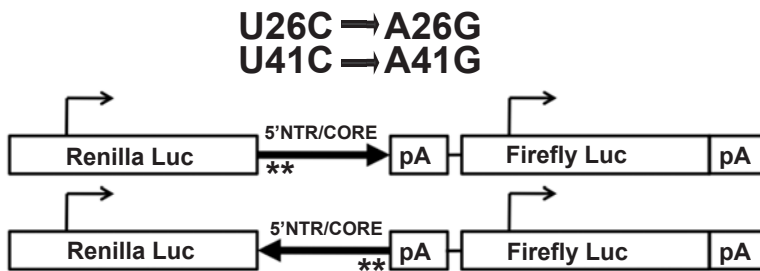


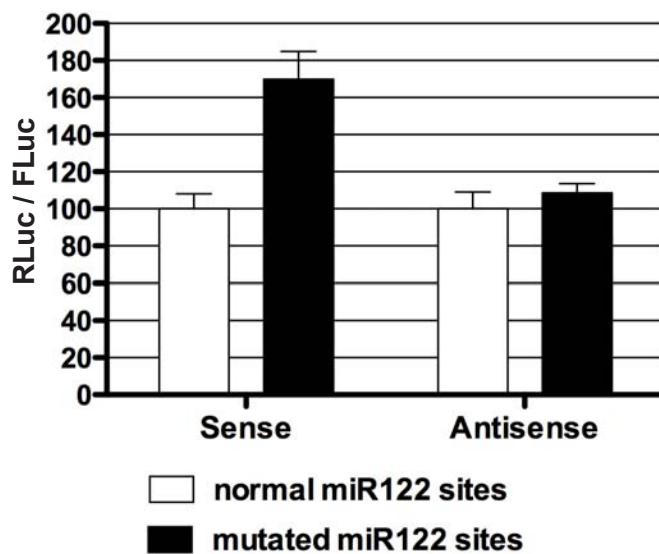
A.

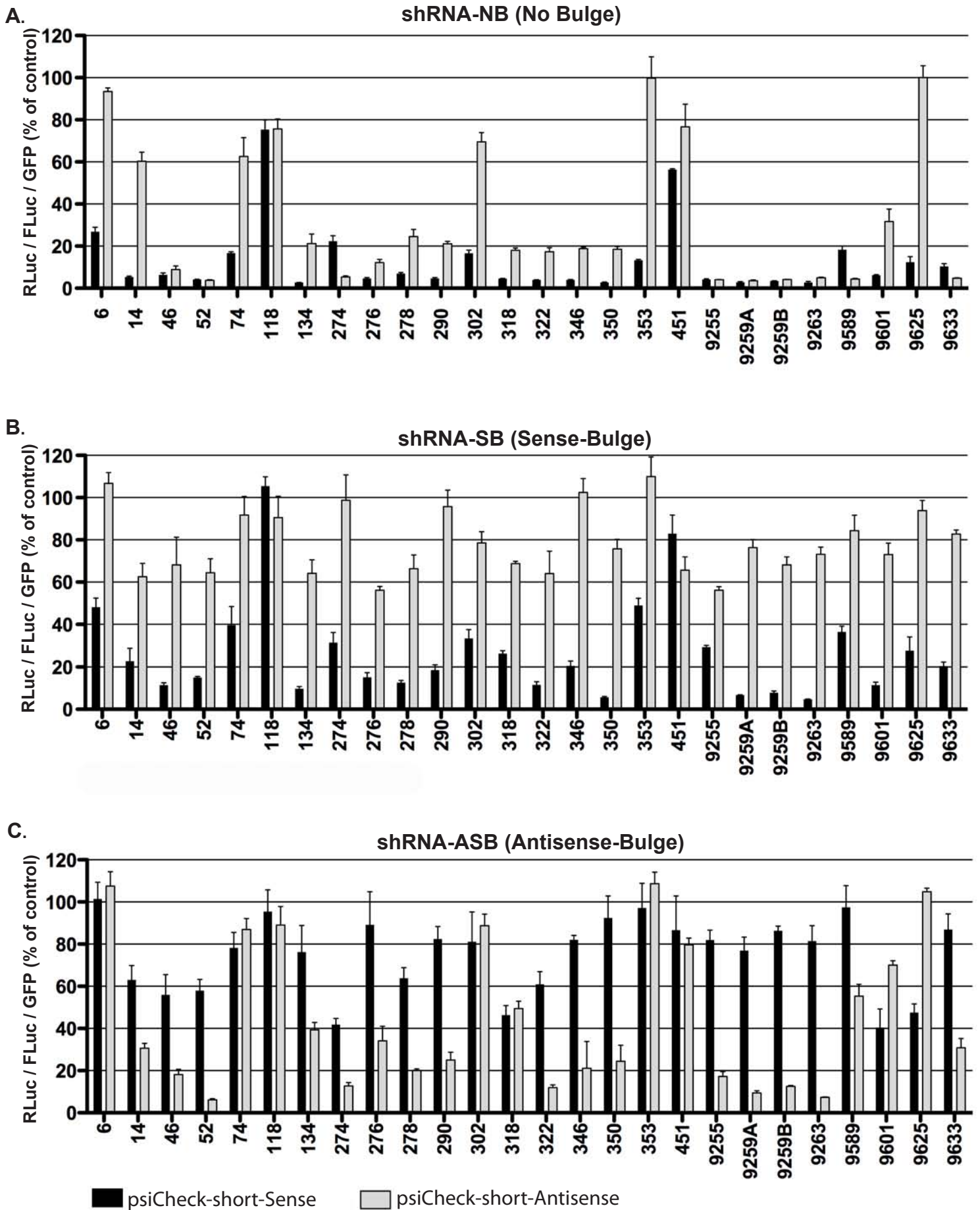


B.



C.

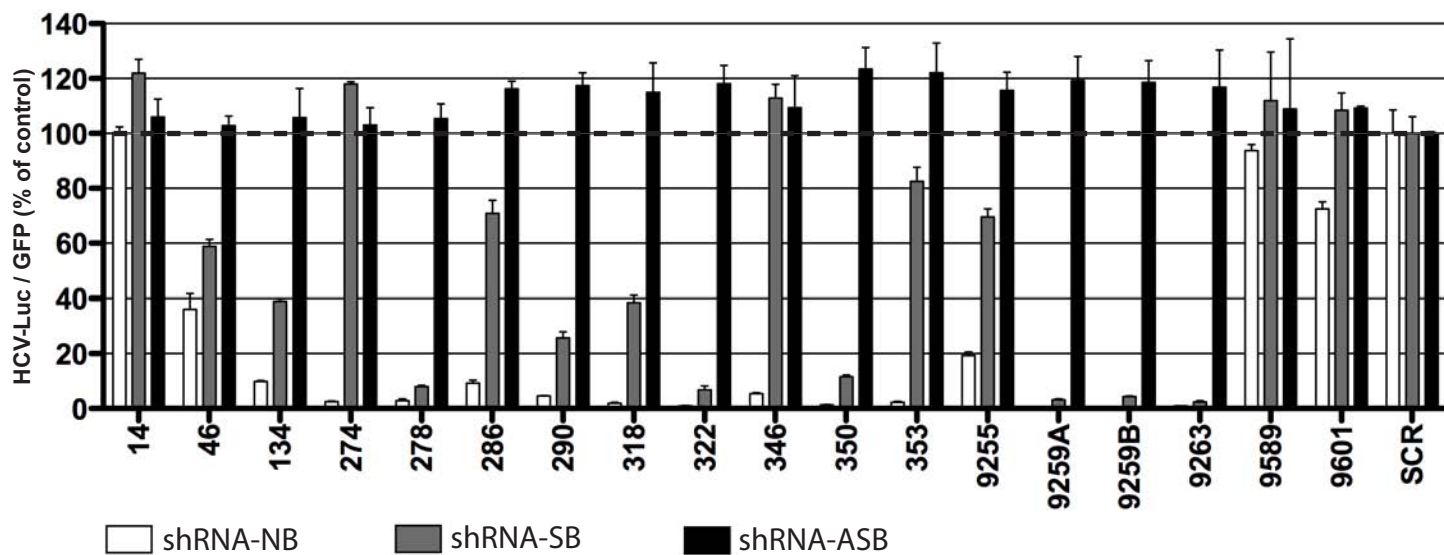




Supplementary Figure 2.

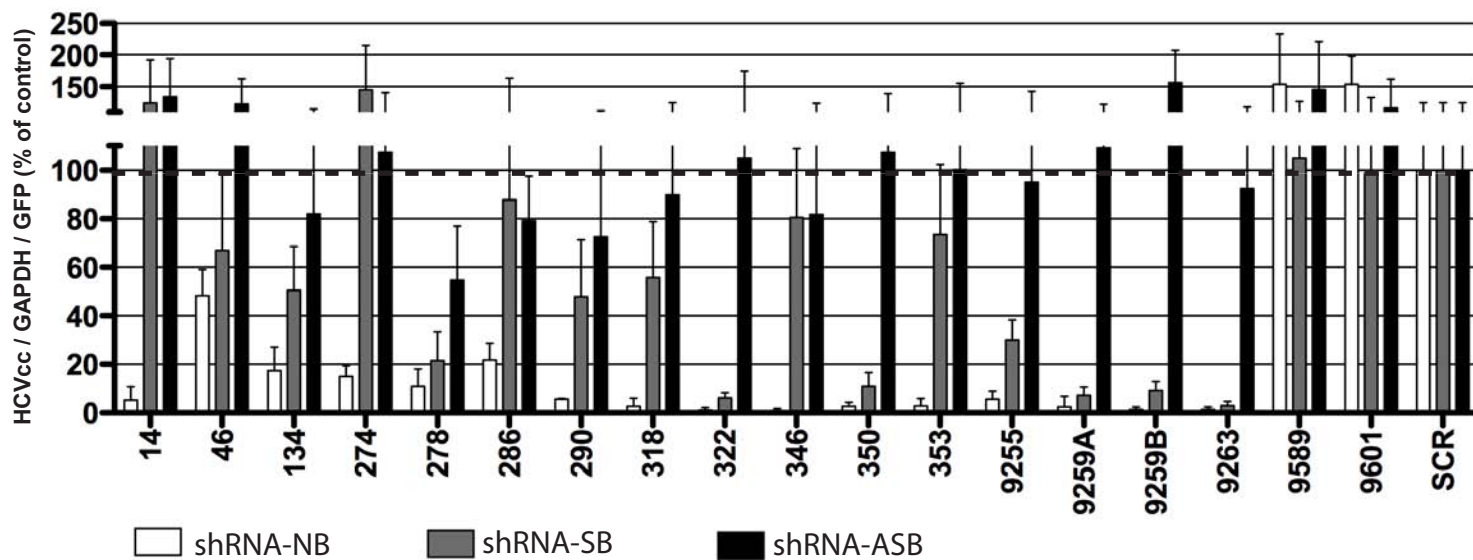
A.

FL-J6/JFH-Luc

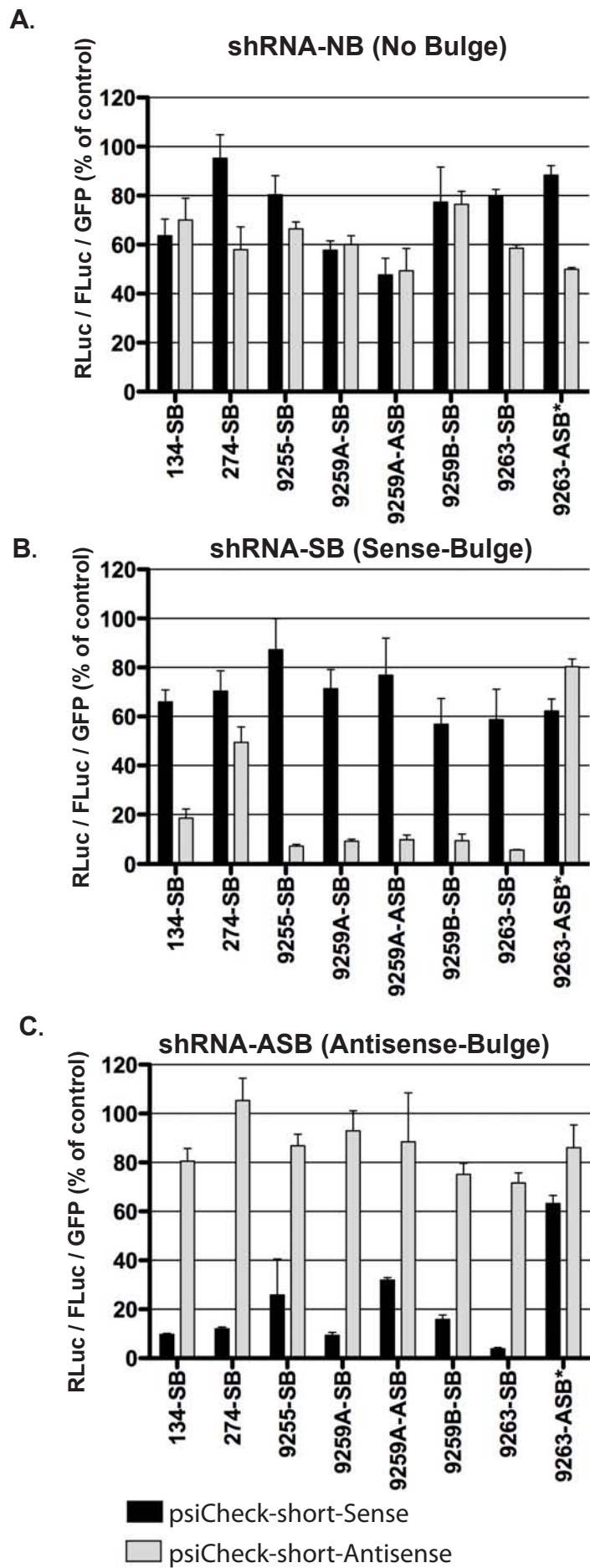


B.

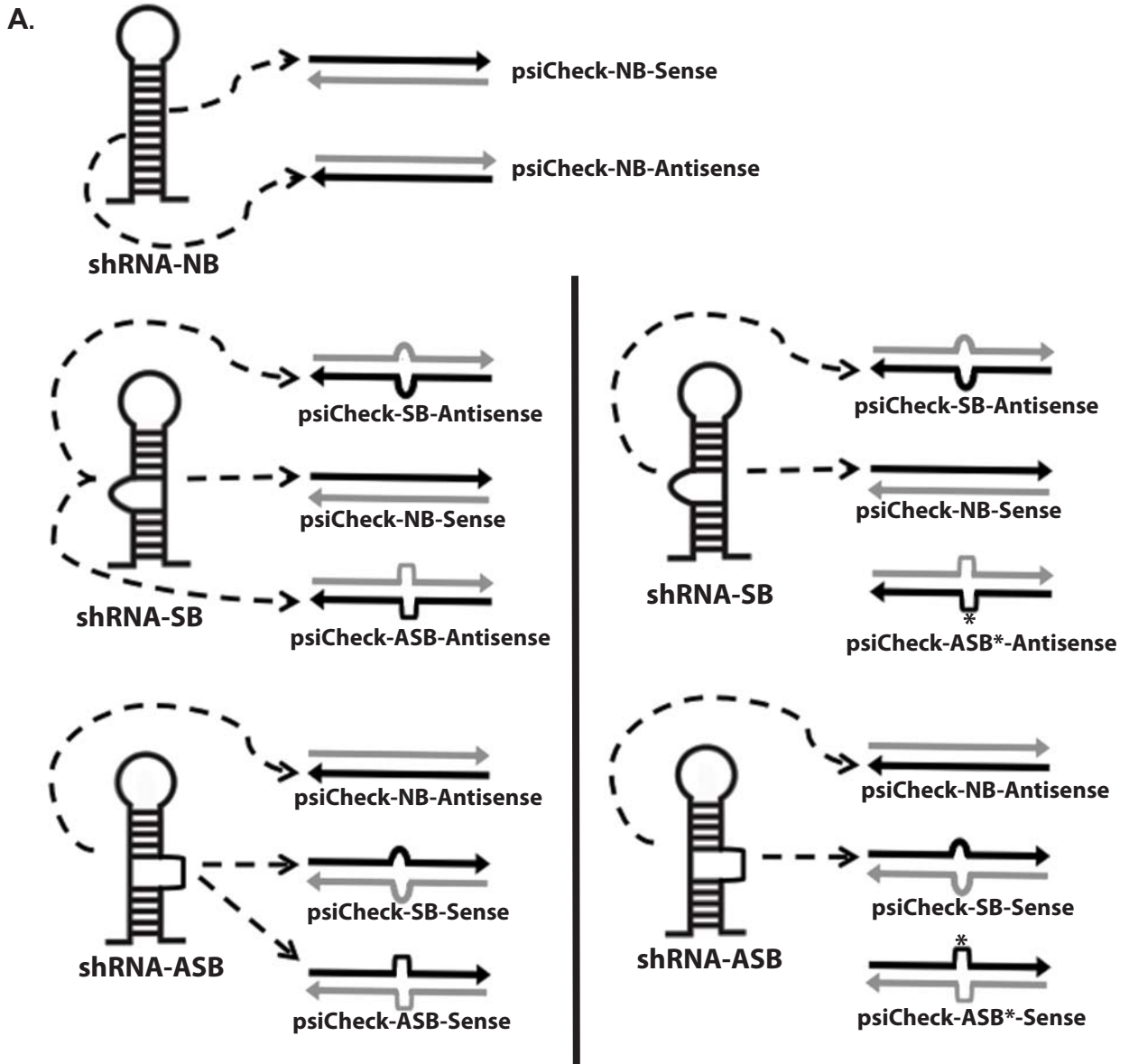
HCVcc



Supplementary Figure 3.



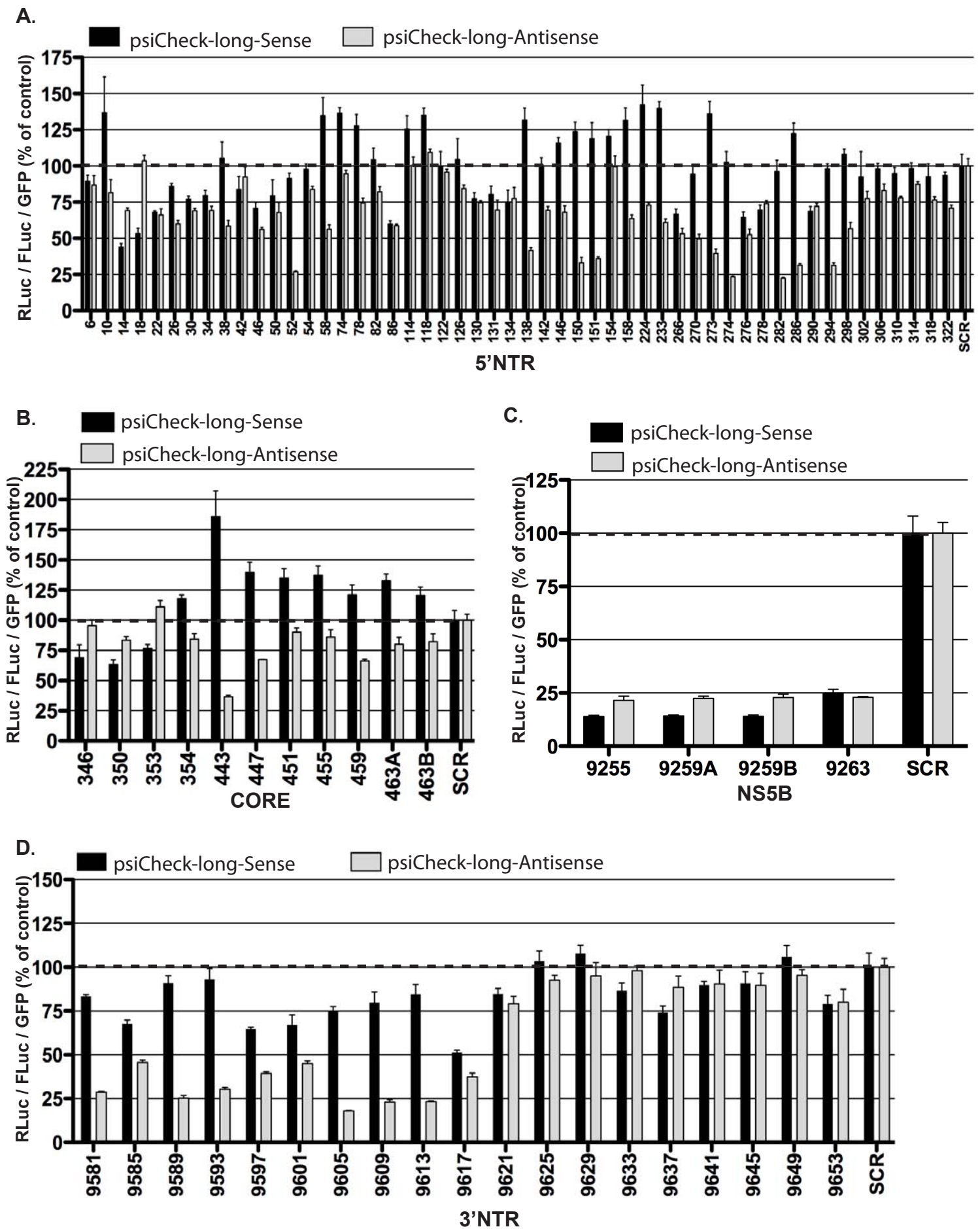
Supplementary Figure 4.



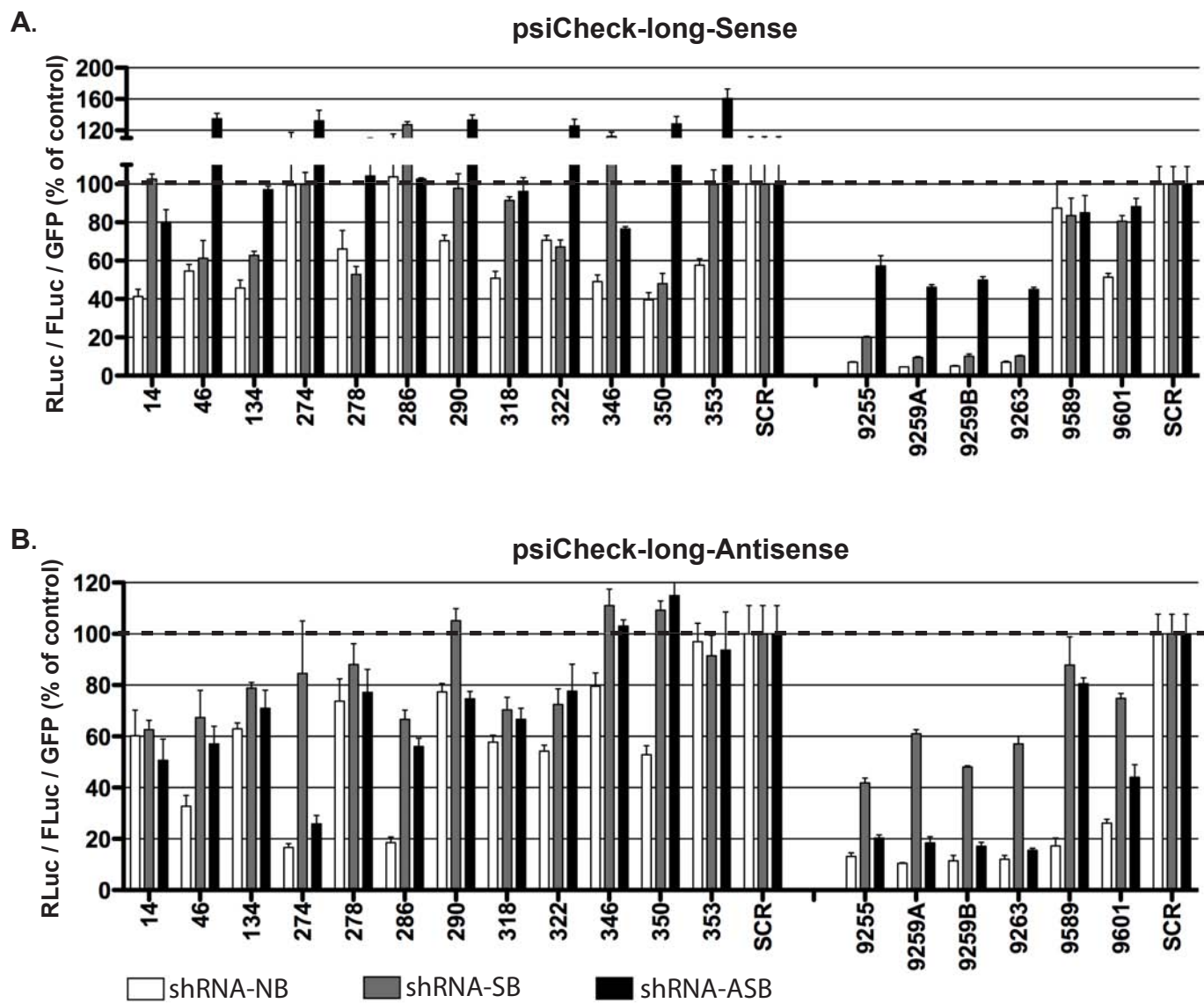
**B.**

psiCheck-rescue templates			
shRNA	Strand	Target	
shRNA-NB	Sense	psiCheck-NB-Antisense	
	Antisense	psiCheck-NB-Sense	
shRNA-SB	Sense	psiCheck-SB-Antisense	psiCheck-ASB-Antisense
	Antisense	psiCheck-NB-Sense	
shRNA-ASB	Sense	psiCheck-NB-Antisense	
	Antisense	psiCheck-SB-Sense	psiCheck-ASB-Sense
psiCheck-mutated rescue template(*)			
shRNA	Strand	Target	
shRNA-NB	Sense	psiCheck-NB-Antisense	
	Antisense	psiCheck-NB-Sense	
shRNA-SB	Sense	psiCheck-SB-Antisense	
	Antisense	psiCheck-NB-Sense	
shRNA-ASB	Sense	psiCheck-NB-Antisense	
	Antisense	psiCheck-SB-Sense	

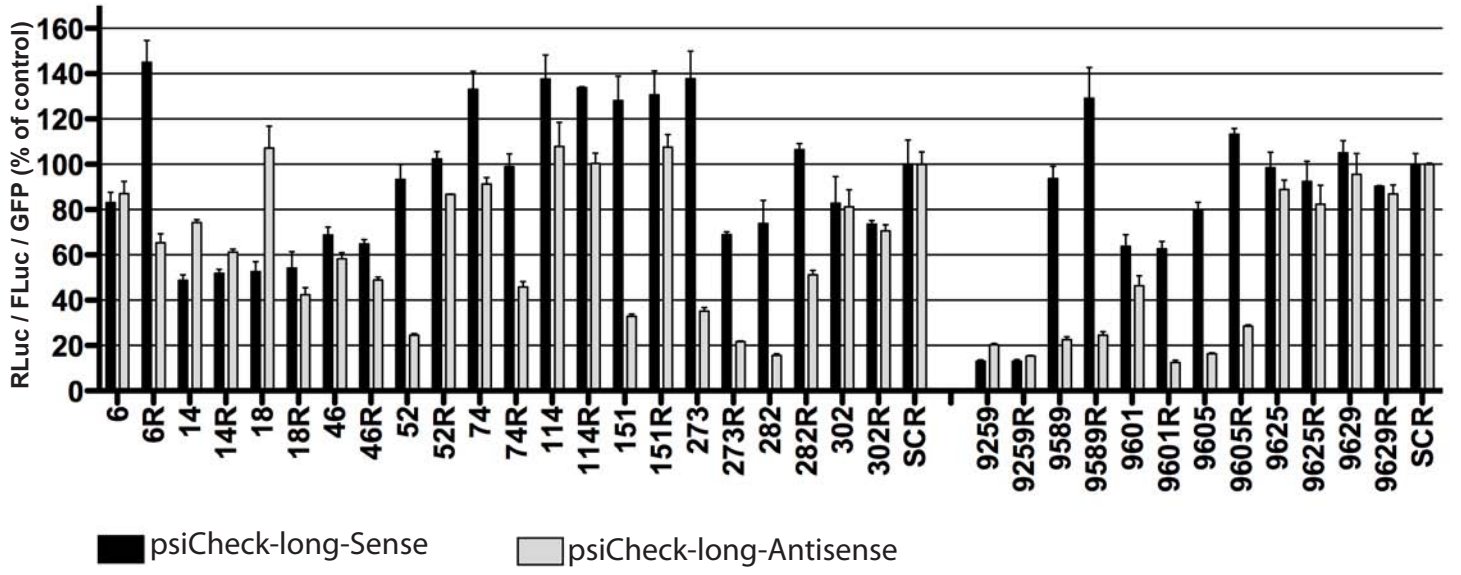
Supplementary Figure 5.



Supplementary Figure 6.



Supplementary Figure 7.



Supplementary Figure 8.



	Sense shRNA strand No Bulge (NB) shRNA	Sense shRNA strand Sense Bulge (SB) shRNA	Antisense shRNA strand Antisense Bulge (ASB) shRNA	Sense shRNA strand Reverse shRNA
	6	5'-CCCCTAATAGGGGCGACACTCCGC-3'	5'-CCCCTAATTCGGGCGACACTCCGC-3'	5'-GCGGAGTGTGCCCGGAATAGGGG-3'
	10	5'-TAATAGGGGCGACACTCCGCATG-3'		
	14	5'-AGGGGCGACACTCCGCATGAATC-3'	5'-AGGGGCGTGGTCTCCGCATGAATC-3'	5'-GATTATGCGGGGACAACCTCGCCCT-3'
	18	5'-GCGCACTCCGCATGAATCACTC-3'		5'-GAGTGATTCATGCGGAGTGTGCG-3'
	22	5'-CACTCCGCATGAATCACTCCCT-3'		
	26	5'-CCGCCATGAATCACTCCCTGTGA-3'		
	30	5'-CATGAATCACTCCCTGTGAGAA-3'		
	34	5'-AATCACTCCCTGTGAGAACTAC-3'		
	38	5'-ACTCCCTGTGAGAACTACTGTC-3'		
	42	5'-CCCTGTGAGAACTACTGCTTCA-3'		
	46	5'-GTGAGGAACTACTGTCTTACGCA-3'	5'-GTGAGGAAAGAATCTGTCTTACGCA-3'	5'-TGCGTGAAGACAGATTCTTCTCAC-3'
	50	5'-GGAAGTACTGTCTTACGCAAGAA-3'		
	52	5'-AACTACTGTCTTACGCAAGAA-3'	5'-AACTACTCAAGTTCACGCAAGAA-3'	5'-TTCTGCGTGATCCTCAGTAGTT-3'
	54	5'-CTACTGTCTTACGCAAGAAAGCGT-3'		
	58	5'-TGTCTTACGCAAGAAAGCGTCTAG-3'		
	74	5'-GCGTCTAGCCATGGCGTTAGTAGT-3'	5'-GCGCCTAGGGGTTGGCGTTAGTAGT-3'	5'-CATACTAACGCCAACCCCTAGGCGC-3'
	78	5'-CTAGCCATGGCGTTAGTAGAGTG-3'		
	82	5'-CCATGGCGTTAGTAGAGTGTGCT-3'		
	86	5'-GGCGTTAGTAGAGTGTGCTGACAG-3'		
	114	5'-CAGGCCCCCTCCCGGGAGAGC-3'		5'-GCTCTCCCGGGAGGGGGGCGCTG-3'
	118	5'-CCCCCTCCCGGGAGAGCCATA-3'	5'-CCCCCGGAAGCCGGGAGAGCCATA-3'	5'-TATGGCTCTCCCGCCTGGGGGGG-3'
	122	5'-CCCCCTCCCGGGAGAGCCATAGTGG-3'		
	126	5'-TCCCGGGAGAGCCATAGTGGTCTG-3'		
	130	5'-GGGAGAGCCATAGTGGTCTGCGGA-3'		
	131	5'-GGAGAGCCATAGTGGTCTGCGGAA-3'		
	134	5'-GAGCCATAGTGGTCTGCGGAAACCG-3'	5'-GAGCCATACAACGTCTGCGGAAACCG-3'	5'-CGGTTCCGAGACGTTGTATGGCTC-3'
	138	5'-CATAGTGGTCTGCGGAAACCGGTA-3'		
	142	5'-GTGGTCTGCGGAAACCGGTGAGTAC-3'		
	146	5'-TCTGCGGAAACCGGTGAGTACACCG-3'		
	150	5'-CGGAAACCGGTGAGTACACCGGAAT-3'		
	151	5'-GGAACCGGTGAGTACACCGGAA-3'		5'-TTCCGGTGTACTACCGGTTCC-3'
	154	5'-ACCGGTGAGTACACCGGAATTGCC-3'		
	158	5'-GTGAGTACACCGGAATTGCCGGGA-3'		
	224	5'-ATTTGGGCGTCCCCCGCAAGAC-3'		
	233	5'-TGCCCCCGCAAGACTGCTAGCCGAGTA-3'		
	266	5'-GGTTGCAAAAGCCTTGTGGTACT-3'		
	270	5'-GCGAAAGCCTTGTGGTACTGCT-3'		
	273	5'-AAAGCCTTGTGGTACTGCT-3'		5'-AGGCAGTACCACAAGCCTTT-3'
	274	5'-AAGGCCTTGTGGTACTGCTGATA-3'	5'-AAGGCCTTCAACGTACTGCTGATA-3'	5'-TATCAGGCAGTACGTTGAAGGCCTT-3'
	276	5'-GGCCTTGTGGTACTGCTGATA-3'	5'-GGCCTTGTCCCACTGCTGATA-3'	5'-TATCAGGCAGTGTGGACAAGGC-3'
	278	5'-CCTTGTGGTACTGCTGATAGGGT-3'	5'-CCTTGTGCAATCTGCTGATAGGGT-3'	5'-ACCTTATCAGGCACAATCCACAAGG-3'
	282	5'-GTGGTACTGCTGATAGGGTGTCT-3'		
	286	5'-TACTGCTGATAGGGTGTCTGCGA-3'	5'-TACTGCCACTTAGGGTGTCTGCGA-3'	5'-TCGCAAGCACCTTAAAGAGCAGTA-3'
	290	5'-GCCTGATAGGGTGTCTGCGAGTGC-3'	5'-GCCTGATACCCCTGCTTGCAGTGC-3'	5'-GCACTCGCAAGCAGGGGTATCAGGC-3'
	294	5'-GATAGGGTGTCTGCGAGTGCCTCG-3'		
	298	5'-GGGTGCTTGCAGTGCCTCGGGAG-3'		
	302	5'-GCTTGCAGTGCCTCGGGAGTGTCT-3'	5'-GCTTGCAGAACCCCGGGAGTGTCT-3'	5'-AGACCTCCCGGGGTTGTCGCAAGC-3'
	306	5'-GCGAGTGCCTCGGGAGGTCTGTA-3'		
	310	5'-GTGCCCGGGAGGTCTCGTAGACC-3'		
	314	5'-CCCGGAGGTCTCGTAGACCCTGC-3'		
	318	5'-GGAGTCTGCAAGACCGTGACCA-3'	5'-GGAGTCTGCCAAGACCGTGACCA-3'	5'-TGGTGCAGCGTCTTGGCAGACTCC-3'
	322	5'-GTCTGTGACCGTGCACCATGAG-3'	5'-GTCTGTACTTGTGCTGCACCATGAG-3'	5'-CTCATGGTGCACGCAAGTACGAGAC-3'
	346	5'-CACAAATCCTAAACCTCAAAGAAA-3'	5'-CACAAATGGGAAAACCTCAAAGAAA-3'	5'-TTTCTTGTAGGTTATTCGATTTGTG-3'
	350	5'-AATCCTAAACCTCAAAGAAAACCC-3'	5'-AATCCTAATGGGTCAAAGAAAACCC-3'	5'-GGTTTTTCTTTGACCCATTAGGATT-3'
	353	5'-CCTAAACCTCAAAGAAAACCAA-3'	5'-CCTAAACGAAGAAAAGAAAACCAA-3'	5'-TTGGTTTTTCTTACTGTTTAGG-3'
	354	5'-CTAAACCTCAAAGAAAACCAA-3'		
	443	5'-TACTTGTTCGCGCAGGGGCC-3'		
	447	5'-TGTTCGCGCAGGGGCCAGGT-3'		
	451	5'-GCCGCGCAGGGGCCAGGTTGGG-3'	5'-GCCGCGCACCCCGCCAGGTTGGG-3'	5'-CCCAACTGGGGCGGGTGCAGGCG-3'
	455	5'-CGCAGGGGCCAGGTTGGGTGTG-3'		
	459	5'-GGGGCCAGGTTGGGTGTGCGCG-3'		
	463A	5'-CCCCAGGTTGGGTGTGCGCGGAC-3'		
	463B	5'-CCCCAGGTTGGGTGTGCGCGCA-3'		
	9255	5'-TGAAGACCAAGCTCAACTCACTC-3'	5'-TGAAGACGTTGTCTCAACTCACTC-3'	5'-GAGTGAGTTTGAAGAAAGTCTTCA-3'
	9259A	5'-GACCAAGCTCAAACCTCACTCCA-3'	5'-GACCAAGCAGGTAACCTCACTCCA-3'	5'-TGGAGTGAGTTACTGCTTGGTC-3'
	9259B	5'-GACCAAGCTCAAACCTCACTCATT-3'	5'-GACCAAGCAGGTAACCTCACTCATT-3'	5'-AATGGAGTGAGTTACTGCTTGGTC-3'
	9263	5'-AAGCTCAAACCTCACTTCCCG-3'	5'-AAGCTCAATGGACTCACTTCCCG-3'	5'-CGGCAATGGAGTGACCTTGGACTT-3'
	9581	5'-GGTGGCTCCATCTTAGCCCTAGTC-3'		
	9585	5'-GCTCCATCTTAGCCCTAGTCACGG-3'		
	9589	5'-CATCTTAGCCCTAGTCACGGCTAG-3'	5'-CATCTTAGCCCTAGTCACGGCTAG-3'	5'-CTAGCCGTGACTACCCCTAAGATG-3'
	9593	5'-TTAGCCCTAGTCACGGCTAGTGT-3'		
	9597	5'-CCTAGTACAGGCTAGCTGTGAAA-3'		
	9601	5'-AGTACAGGCTAGCTGTGAAAGTGC-3'	5'-AGTACAGGCTAGCTGTGAAAGTGC-3'	5'-GACCTTTCACAGCATTCCCGTACT-3'
	9605	5'-ACGGCTAGCTGTGAAAGTCCGTG-3'		5'-CACGGACCTTTCACAGTACGCGT-3'
	9609	5'-CTAGCTGTGAAAGTCCGTGAGCC-3'		
	9613	5'-CTGTGAAAGTCCGTGAGCCGAT-3'		
	9617	5'-GAAAGTCCGTGAGCCGATGACT-3'		
	9621	5'-GGTCCGTGAGCCGATGACTGCA-3'		
	9625	5'-CGTAGCCGCTAGCTGCAGAGAG-3'	5'-CGTAGCCGCTAGCTGCAGAGAG-3'	5'-CTCTCTGCAGTCAACCGGCTCAGC-3'
	9629	5'-AGCCGCTAGCTGCAGAGAGTGC-3'		5'-GGCACTCTCTGCAGTCAACCGGCT-3'
	9633	5'-GCATGACTGCAGAGAGTCCGTA-3'	5'-GCATGACTCCGTGAGAGTCCGTA-3'	5'-TTACGGCACTCTCACCGAGTCACTG-3'
	9637	5'-GACTGCAGAGAGTCCGTAACCTG-3'		
	9641	5'-GCAGAGAGTCCGTAACCTGCTC-3'		
	9645	5'-AGAGTCCGTAACCTGCTCCTGCA-3'		
	9649	5'-TGCCGTAACCTGCTCCTGCA-3'		
	9653	5'-GTAAGTCTCTCTGCAGATCAT-3'		

Supplementary Table 1.

	HCV target sequence	delta-G	
		Forward	Reverse
	5'NTR-CORE (nt 1- 547 in GenBank: JF343782.1)	-221.8	-225.1
	NS5B-3'NTR (nt 9185-9679 in GenBank: JF343782.1)	-177.6	-168
6	5'-CCCCTAATAGGGGCGACACTCCGC-3'	-8	-8.9
10	5'-TAATAGGGGCGACACTCCGCCATG-3'	-6.9	-6.1
14	5'-AGGGGCGACACTCCGCCATGAATC-3'	-6.9	-6.1
18	5'-GCGACACTCCGCCATGAATCACTC-3'	-2.7	-2.5
22	5'-CACTCCGCCATGAATCACTCCCT-3'	NA	-1.5
26	5'-CCGCCATGAATCACTCCCTGTGA-3'	-3.2	-2.9
30	5'-CATGAATCACTCCCTGTGAGGAA-3'	-3.7	-4.6
34	5'-AATCACTCCCTGTGAGGAACTAC-3'	-3.7	-4.8
38	5'-ACTCCCTGTGAGGAACTACTGTC-3'	-1.5	-4.6
42	5'-CCCTGTGAGGAACTACTGTCTCA-3'	-4.6	-1
46	5'-GTGAGGAACTACTGTCTCACGCA-3'	-8.8	-2.9
50	5'-GGAAGCTACTGTCTCACGAGAAA-3'	-2.5	-3
52	5'-AACTACTGTCTCACGAGAAA-3'	-2.5	-3
54	5'-CTACTGTCTCACGAGAAAAGCGT-3'	-3.6	-4.6
58	5'-TGCTTACAGCAGAAAAGCGTCTAG-3'	-4.1	-6.4
74	5'-GCGTCTAGCCATGGCGTTAGTATG-3'	-4.6	-0.2
78	5'-CTAGCCATGGCGTTAGTATGAGTG-3'	-2.8	-0.2
82	5'-CCATGGCGTTAGTATGAGTTCGT-3'	-2.4	NA
86	5'-GGCGTTAGTATGAGTTCGTACAG-3'	-4.5	NA
114	5'-CAGGCCCCCCTCCCGGGAGAGC-3'	-3.9	-14.7
118	5'-CCCCCCTCCCGGGAGAGCCATA-3'	-3.9	-11.9
122	5'-CCCCCCTCCCGGGAGAGCCATAGGG-3'	-3.9	-6.4
126	5'-TCCCGGGAGAGCCATAGTGGTCTG-3'	-3.1	-2.5
130	5'-GGGAGAGCCATAGTGGTCTGCGGA-3'	-3.2	-2.5
131	5'-GGAGAGCCATAGTGGTCTGCGGAA-3'	-3.2	-2.5
134	5'-GAGCCATAGTGGTCTGCGGAAACG-3'	-3.4	-3
138	5'-CATAGTGGTCTGCGGAAACCGGTGA-3'	-5.1	-3
142	5'-GTGGTCTGCGGAAACCGGTGATAC-3'	-3.8	-3
146	5'-TCTGCGGAAACCGGTGATACACCG-3'	-8.8	-7.3
150	5'-CGGAAACCGGTGATACACCGAAT-3'	-9.9	-10
151	5'-GGAACCGGTGATACACCGGAA-3'	-9.9	-10
154	5'-ACCGGTGATACACCGAATTCGC-3'	-9.9	-10
158	5'-GTGAGTACACCGAATTCGCGGGA-3'	-6.2	-4.8
224	5'-ATTTGGCGTCCCGCCGCAAGAC-3'	-3.6	-5.1
233	5'-TGCCCCGCAAGACTGCTAGCCGAGTA-3'	-1.8	-5.8
266	5'-GGTTGCGAAAGCCTTGTGGTACT-3'	-3	-0.5
270	5'-GCGAAAGCCTTGTGGTACTGCCT-3'	-4.1	-3.2
273	5'-AAAGCCTTGTGGTACTGCCT-3'	-2.9	-3.2
274	5'-AAGCCTTGTGGTACTGCCTGATA-3'	-3.6	-3.7
276	5'-GGCCTTGTGGTACTGCCTGATA-3'	-2.9	-1.7
278	5'-CCTTGTGGTACTGCCTGATAGGGT-3'	-5.6	-1
282	5'-GTGGTACTGCCTGATAGGGTCTT-3'	-4.6	-1.4
286	5'-TACTGCCTGATAGGGTCTTGCAG-3'	-3.5	-1.4
290	5'-GCCTGATAGGGTCTTGCAGTGC-3'	-4.2	-1.6
294	5'-GATAGGGTCTTGCAGTGCCTGC-3'	-9	-6.9
298	5'-GGGTCTTGCAGTGCCTGCAGG-3'	-8.8	-5.8
302	5'-GCTTGCAGTGCCTGCAGGAGTCT-3'	-4.1	-2.3
306	5'-GCGAGTGCCTGCAGGAGTCTCGTA-3'	-8.7	-5.7
310	5'-GTGCCCCGGGAGGTCTCGTAGACC-3'	-5.5	-5.3
314	5'-CCCCGGGAGGTCTCGTAGACCGTGC-3'	-5.8	-5.5
318	5'-GGAGGTCTCGTAGACCGTGCACCA-3'	-5.8	-5.5
322	5'-GTCTCTGAGACCGTGCACCATGAG-3'	-3.6	-3.6
346	5'-CACAACTCTAAACCTCAAAGAAA-3'	NA	-0.8
350	5'-AATCCTAAACCTCAAAGAAAACC-3'	NA	-0.8
353	5'-CCTAAACCTCAAAGAAAACCAA-3'	NA	NA
354	5'-CTAAACCTCAAAGAAAACAAAA-3'	NA	NA
443	5'-TACTTGTTCGCGCAGGGGCC-3'	-3.9	-3.5
447	5'-TGTTGCCGCGCAGGGGCCCAGGT-3'	-3.9	-5.1
451	5'-GCCGCGCAGGGGCCCAGGTTGGG-3'	-9.2	-7.9
455	5'-GCGAGGGGCCCAGGTTGGGTGTG-3'	-5.3	-4.7
459	5'-GGGGCCCCAGGTTGGGTGTGCGCG-3'	-5.1	-4.4
463A	5'-CCCCAGGTTGGGTGTGCGCGCGAC-3'	-4.3	-4.4
463B	5'-CCCCAGGTTGGGTGTGCGCGCGA-3'	-3.8	-4.4
9255	5'-TGAAGACCAAGCTCAAACCTCACTC-3'	NA	-4.5
9259A	5'-GACCAAGCTCAAACCTCACTCCA-3'	NA	-3.6
9259B	5'-GACCAAGCTCAAACCTCACTCCATT-3'	NA	-3.6
9263	5'-AAGCTCAAACCTCACTCCATTGCCG-3'	NA	-1.2
9581	5'-GGTGGCTCCATCTTAGCCCTAGTC-3'	-4.6	-5
9585	5'-GCTCCATCTTAGCCCTAGTCACGG-3'	-1.5	-2.9
9589	5'-CATCTTAGCCCTAGTCACGGCTAG-3'	-6.2	-7.5
9593	5'-TTAGCCCTAGTCACGGCTAGTGT-3'	-6.3	-7.5
9597	5'-CCTAGTCACGGCTAGCTGTGAAA-3'	-6	-2.9
9601	5'-AGTCACGGCTAGCTGTGAAAGGTC-3'	-6	-2.9
9605	5'-ACGGCTAGCTGTGAAAGGTCCTG-3'	-4.5	-2.1
9609	5'-CTAGCTGTGAAAGGTCCTGAGCC-3'	-1.1	-1.7
9613	5'-CTGTGAAAGGTCCTGAGCCGAT-3'	-2.3	-0.6
9617	5'-GAAAGGTCCTGAGCCGATGACT-3'	-4.5	-1.6
9621	5'-GGTCCGTGAGCCGATGACTGCAG-3'	-4.9	-5
9625	5'-CGTGAGCCGATGACTGCAGAGAG-3'	-1.9	-5.1
9629	5'-AGCCGATGACTGCAGAGAGTGC-3'	-4.8	-5.1
9633	5'-GCATGACTGCAGAGAGTGCCTGAA-3'	-4.5	-1.7
9637	5'-GACTGCAGAGAGTGCCTAACTGG-3'	-3.2	-1.7
9641	5'-GCAGAGAGTGCCTAACTGGTCTC-3'	-4.3	-3.8
9645	5'-AGAGTGCCTAACTGGTCTCTCTG-3'	-6.5	-3.6
9649	5'-TGCCGTAAGTGGTCTCTGCAGA-3'	-2.9	-1.7
9653	5'-GTAAGTGGTCTCTGCAGATCAT-3'	-4.5	-1.8

Supplementary Table 2