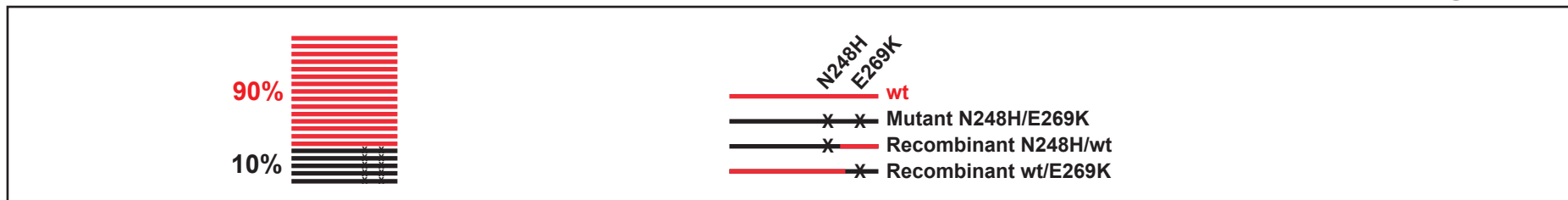


Figure S7



454-GS Junior				MiSeq			
3 PCR		2 PCR		2 PCR			
1		2		3		4	
Replicate 1	wt	89 %	93.47%	98.11%	79.64%	92.88%	87.26%
	Mutant N248H/E269K	1.16 %	n.d.	1.41 %	5.31 %	1.78 %	9.31 %
	Recombinant N248H/wt	3.35 %	0.85 %	0.48 %	1.38 %	0.42 %	1.60 %
	Recombinant wt/E269K	2.48 %	n.d.	n.d.	0.65 %	n.d.	1.40 %
Replicate 2	wt	87.2%	85.59%	94.5%	90.09%	90.46%	88.96%
	Mutant N248H/E269K	1.50 %	3.55 %	3.21 %	2.69 %	4.32 %	5.29 %
	Recombinant N248H/wt	3.75 %	7.42 %	1.36 %	0.76 %	1.17 %	0.39 %
	Recombinant wt/E269K	2.41 %	4.08 %	0.93 %	0.57 %	1.13 %	0.38 %
Average	wt	88.1%	89.53%	96.3%	84.86%	91.67%	88.11%
	Mutant N248H/E269K	1.33 %	1.77 %	2.31 %	4 %	3.05 %	7.30 %
	Recombinant N248H/wt	3.55 %	3.71 %	0.68 %	0.69 %	0.58 %	0.80 %
	Recombinant wt/E269K	2.44 %	2.04 %	n.d.	n.d.	0.56 %	0.70 %

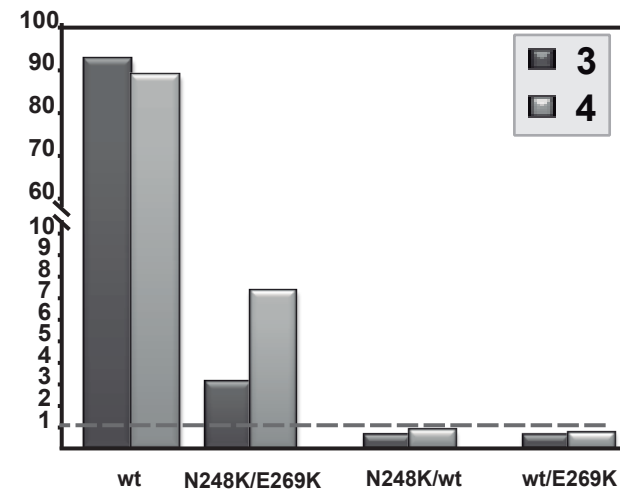
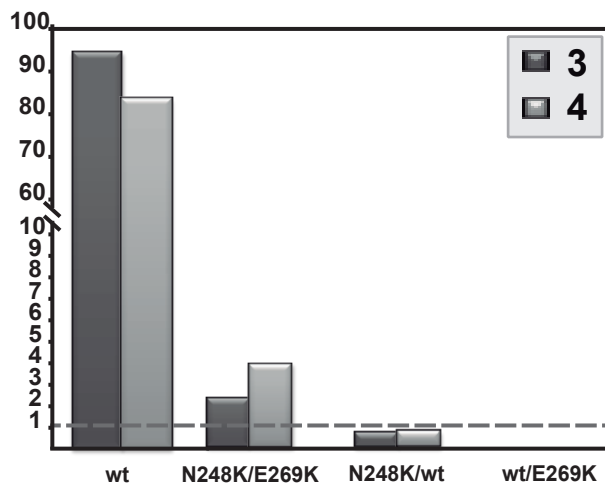
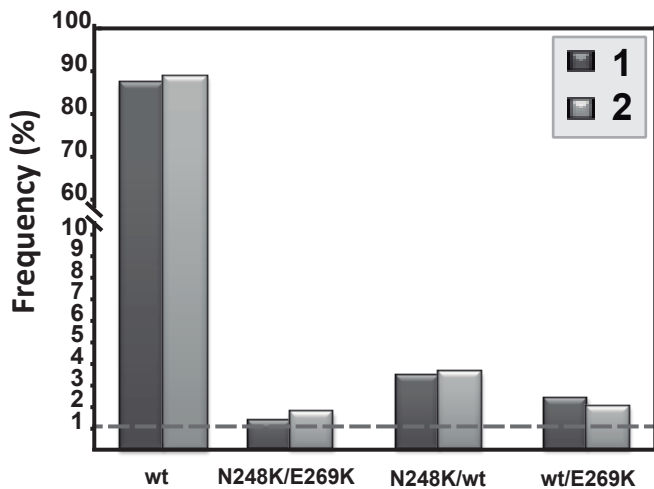


Figure S7. Control of PCR-based recombination. A full-length reference (wt) viral HCV DNA was mixed with HCV DNA with mutations A7010C and G7073A (corresponding to amino acid substitutions N248K and E269K in NS5A) at a 90:10 ratio (depicted on the left of the top box). The total number of DNA molecules was 100,000. The mixture was used as a template to determine the degree of recombination after the amplification and sequencing process, following four different protocols (termed 1 to 4), and two next-generation sequencing platforms (454 GS-Junior and Illumina MiSeq). Protocol conditions are described in Materials and Methods. Top box depicts the four types of expected molecules; wt clone, mutant N248K/E269K, and recombinant molecules N248K/wt and wt/E269K. Each experiment was performed in duplicate (replicates 1 and 2), and the average frequency (%) of both replicates is shown on the right of each molecule; n.d. means not detected. The percentage of reads that include the indicated substitutions is represented for each haplotype and protocol in the three panels at the bottom.