



Figure S1 The sensitivity of RPA-LFS at a concentration of 0.12nM

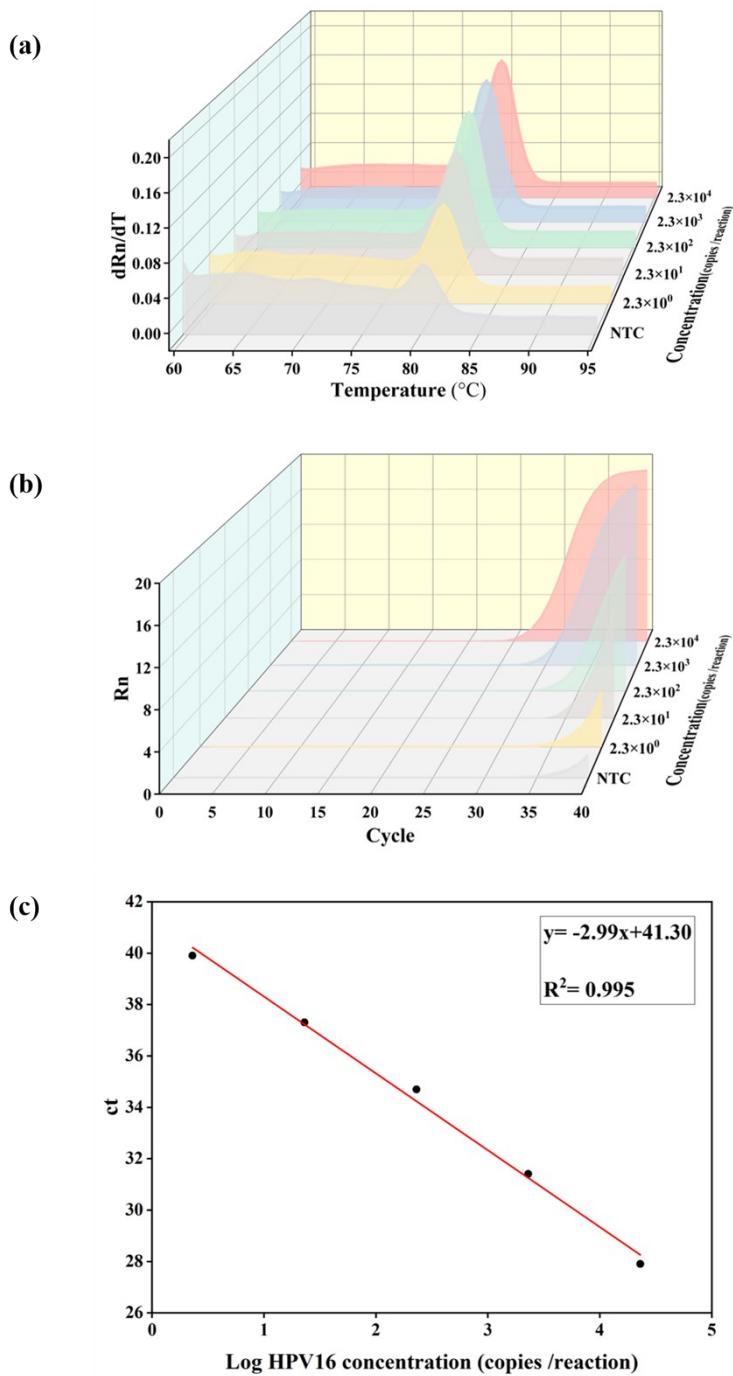


Figure S2 Sensitivity of qPCR. (a) The amplification curve of qPCR for different amounts. (b) The melting curve of qPCR for different amounts. (c) The standard curve of qPCR.

Table S1 Misalignments of RPA primer sequences

Name	Primer Sequences (5'→3')
L1-4F-3	TCCTACACCTAGTGGTTCTATGGTTACCTCTG
L1-4F-2	CCTACACCTAGTGGTTCTATGGTTACCTCTGA
L1-4F-1	CTACACCTAGTGGTTCTATGGTTACCTCTGAT
L1-4+1	ACACCTAGTGGTTCTATGGTTACCTCTGATGC
L1-4+2	CACCTAGTGGTTCTATGGTTACCTCTGATGCC
L1-4+3	ACCTAGTGGTTCTATGGTTACCTCTGATGCC
L1-4R-3	ACAAACCTATAAGTATCTTCTAGTGTGCCTCC
L1-4R-2	CAAACCTATAAGTATCTTCTAGTGTGCCTCCT
L1-4R-1	AAACCTATAAGTATCTTCTAGTGTGCCTCCTG
L1-4R+1	ACCTATAAGTATCTTCTAGTGTGCCTCCTGGG
L1-4R+2	CCTATAAGTATCTTCTAGTGTGCCTCCTGGGG
L1-4R+3	CTATAAGTATCTTCTAGTGTGCCTCCTGGGGG

Table S2 qPCR procedure, primer sequences

Step	Temperature	Time	Data Collection	Cycle			
Pre-denaturation	95	5 min	None	1			
Amplification	95	20 sec	None	40			
	57	40 sec	Yes				
Melt Curve	60	0.2°C /sec	Yes				
	95						
Name	Sequence (5' →3')						
Forward Primer	CTACACCTAGTGGTTCTATGGTTACCTCTGAT						
Reverse Primer	AAACCTATAAGTATCTTCTAGTGTGCCTCCTG						

PCR reactions included 1 µl (10 µM) of forward primer, 1 µl (10 µM) of reverse primer, 25 µl of 2×TransStart® FastPfu PCR SuperMix, 1 µl of template, 0.5 µl of SYBR dye (100×) and 21.5 µl of water.