

Supplementary Table 1: Primers and oligonucleotides used in this work.

Usage	Primer name	Sequence (5'–3')
RT-qPCR for HBV-miR-3	HBV-miR-3 RT	GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACG ACAAACGCCG
	HBV-miR-3 Forward	TGCGGCTGGATGTGTCTGCGG
RT-qPCR for miR-16	miR-16 RT	GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACG ACCGCCAAT
	miR-16 Forward	TGCGGTAGCAGCACGTAAATA
RT-qPCR for U6 snRNA	U6 RT	GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACG ACAAAATATGG
	U6 Forward	TGCGGGTGCTCGCTTCGGCAGC
	miRNA Reverse primer	CCAGTGCAGGGTCCGAGGT
RT-qPCR for $\beta$ -actin	$\beta$ -actin-F	CGTGACATTAAGGAGAAGCTG
	$\beta$ -actin-R	CTAGAAGCATTTGCGGTGGAC
RT-qPCR for pgRNA/HBV DNA copies	pgRNA-qRT-F	TCTTGCCTTACTTTTGGAAG
	pgRNA-qRT-R	AGTTCTTCTTCTAGGGGACC
RT-qPCR for total RNA	total RNA-qRT-F	CTCCCCGTCTGTGCCTTCTC
	total RNA-qRT-R	TCGGTCGTTGACATTGCTGA
RT-qPCR for cccDNA	cccDNA - qPCR-F	TGCACTTCGCTTCACCT
	cccDNA - qPCR - R	AGGGGCATTTGGTGGTC
RT-qPCR for OAS-1	OAS-1-qRT-F	GAAGGCAGCTCACGAAAC
	OAS-1-qRT-R	TTCTTAAAGCATGGGTAATTC
RT-qPCR for MX1	MX1-qRT-F	CACATGAGCTGGCGGGATT
	MX1-qRT-R	AGCGATTCTGAGGGCTGAAA
RT-qPCR for IFIT2	IFIT2-qRT-F	CGGAAAGCAGAGGAAATCAA
	IFIT2-qRT-R	TGAAAGTTGCCATACCGAAG
RT-qPCR for IFIT3	IFIT3-qRT-F	GCCGTTACAGGGAAATACTGG

	IFIT3-qRT-R	CCTCAACATCGGGGCTCT
RT-qPCR for	EGFR-qRT-F	GAGACGAGAACTGCCAGAA
EGFR		
	EGFR-qRT-R	GTAGCATTTATGGAGAGTC
RT-qPCR for	NOS2-qRT-F	TTCAGTATCACAACCTCAGCAAG
NOS2		
	NOS2-qRT-R	TGGACCTGCAAGTTAAAATCCC
RT-qPCR for	KLF4-qRT-F	CCCACATGAAGCGACTTCCC
KLF4		
	KLF4-qRT-R	CAGGTCCAGGAGATCGTTGAA
RT-qPCR for	MCP1-qRT-F	CAGCCAGATGCA ATCAATGCC
MCP1		
	MCP1-qRT-R	TGGAATCCTGAACCCACTTCT
RT-qPCR for	Arg1-qRT-F	CCAGTCCGTCAACATCAAAACT
Arg1		
	Arg1-qRT-R	CCAGTCCGTCAACATCAAAACT
RT-qPCR for	CD206-qRT-F	GGGTTGCTATCAC TCTCTATGC
CD206		
	CD206-qRT-R	TTTCTTGCTGTTGCCGTAGTT
RT-qPCR for	CXCL10-qRT-F	GAAATTATTCCTGCAAGCCAATTT
CXCL10		
	CXCL10-qRT-R	TCACCCTTCTTTTTCATTGTAGCA
RT-qPCR for	SOCS5-qRT-F	CCTCCTTCGGCCTTCACCTA
SOCS5		
	SOCS5-qRT-R	TATAAAAT CGTGACCAATAGCAGGC
RT-qPCR for	IFR3-qRT-F	GCTCTCTGACTCTTTCAACCTCTT
IFR3		
	IFR3-qRT-R	AATGCTGCTCTTTTCTCCTCTG
Construction for	SOCS5-F	CGCGGATCC ATGGATAAAGTGGGAAAAATG
SOCS5		
	SOCS5-R	GCTCACCTCGAGTTTGCCTTGACTGGTTCTCG
Construction for	EGFR-F	GCGGGTACCATGCGACCCTCCGGGACGGCC
EGFR		
	EGFR-R	GACGACCTCGAGGCTCCAATAAATTCAGTCTTTG

Construction for SOCS5 EGFP reporters	EGFP-SOCS5-S	GATCCCAAAGTGTTTGAGAACTTCATCCAAGCTTG
	EGFP-SOCS5-AS	AATTCAAGCTTGGATGAAGTTCTCAAACACTTTGG
	EGFP-SOCS5-MS	GATCCCAAAGTGTTTGAGAACTTGGAGTAAGCTTG
	EGFP-SOCS5-MA	AATTCAAGCTTACTCCAAGTTCTCAAACACTTTGG
Construction for shR-SOCS5	shR-SOCS5-S	GATCCGGAACAAGACTTGCACGAACTCGAGTTCGTGCA AGTCTTGTTTCCTTTTTGA
	shR-SOCS5-AS	AGCTTCAAAAAGGAACAAGACTTGCACGAACTCGAGTT CGTGCAAGTCTTGTTCCG
Construction for shR-EGFR	shR-EGFR-S	GATCCGCCACAAAGCAGTGAATTTATCTCGAGATAAATT CACTGCTTTGTGGCTTTTTGA
	shR-EGFR-AS	AGCTTCAAAAAGCCACAAAGCAGTGAATTTATCTCGAG ATAAATTCAGTCTTTGTGGCG

Supplementary Table 2. Detailed information of patients with hepatitis B included in the study.

Specimen			Detection						
No.	sex	age	phase	date	HBsAg(ng/ml)	HBeAg(ng/ml)	DNA ( copies/ml )	ALT(U/L)	AST(U/L)
1	male	26	acute	14.12.11	474.5	23.12	9.8*10 <sup>4</sup>	95	87
2	male	39	acute	15.3.26	328.7	72.33	2.3*10 <sup>3</sup>	35	26
3	male	37	acute	16.10.22	260	0.18	<500	51	39
4	female	44	acute	13.12.26	220.4	0.12	4.6*10 <sup>4</sup>	24	23
5	male	27	acute	16.10.22	315.2	42.46	2.8*10 <sup>3</sup>	40	30
6	female	52	acute	17.7.8	223.7	0.13	2.3*10 <sup>5</sup>	66	33
7	male	33	acute	15.11.15	176.5	0.12	<500	22	23
8	male	28	acute	17.7.23	680.5	0.55	2.9*10 <sup>5</sup>	26	87
9	male	51	acute	16.11.7	15730	155.5	6.5*10 <sup>5</sup>	11	16
10	female	42	acute	17.12.23	649.6	0.07	7.0*10 <sup>4</sup>	21	24
11	male	32	acute	14.6.29	3111	12.19	1.7*10 <sup>4</sup>	12	16
12	male	42	acute	15.11.7	93.67	0.16	4.5*10 <sup>3</sup>	24	23
13	female	35	acute	14.2.25	11786	9	4.6*10 <sup>2</sup>	25	38
14	male	27	acute	17.3.28	1873	13.8	2.0*10 <sup>3</sup>	15	45
15	female	37	acute	14.1.16	294.9	61.67	1.7*10 <sup>4</sup>	11	16
16	male	46	acute	16.2.6	350	87.56	1.3*10 <sup>6</sup>	22	23
17	female	46	acute	13.11.2	463.7	0.33	<500	25	38
18	female	39	acute	15.11.30	461.4	283.6	1.8*10 <sup>6</sup>	35	26
19	male	34	acute	14.1.18	342.2	264.6	4.9*10 <sup>3</sup>	26	19
20	female	42	acute	16.2.14	79.49	0.08	1.4*10 <sup>4</sup>	15	18