

Supplementary table 1 NCBI GenBank accession numbers of the 106 reference sequences used.

HBV genotype (<i>n</i> sequences)	GenBank accession numbers
A (13)	AY233278, AB241115, GQ477501, AF090841, AF090839, AB194952, AB194951, AM180623, AY934764, FJ692609, FJ692613, GQ331047, GQ331048
B (20)	AB073858, AB362933, D00329, AY596111, AP011084, GQ924653, M54923, AP011085, AB073835, AB115551, AB219427, AP011086, AB287316, DQ463787, EF473977, AP011091, AP011093, AP011094, GQ358148, GQ358152
C (24)	AB112066, AB031265, X52939, AF533983, AB033553, X75656, X75665, AB048705, AB048704, AP011099, AB241109, AP011102, AP011103, EU670263, AP011107, AP011104, AP011108, AB540583, AB554019, AB554025, AB644281, AB644284, AB644286, AB644287
D (17)	AB555496, GU456647, AB104712, AF280817, AB210820, X97848, Z35716, EU939680, AY233291, AJ132335, GQ922005, AB048701s DQ315779, AB033558, AB493846, FJ904405, AM494716
E (8)	X75664, X75657, FJ349237, AM494694, HM363569, FJ349226, DQ060828, JQ000008
F (10)	AY090459, HQ378247, HE981184, AY090455, AY311369, X69798, X75663, AB036911, AB166850, DQ823090
G (6)	EF464098, HE981172, HE981176, AP007264, GU565217, AB064311
H (5)	AP007261, AB275308, AY090460, AY090454, AB516393
I (2)	FJ023660, FJ023664
J (1)	AB486012

n sequences: Number of sequences.

Supplementary table 2 GenBank Biosample accession numbers of the next-generation sequencing data obtained (Bioproject accession number PRJNA625435).

Clinical stage	Patient	Sample name	Accession number
CHB	1	1CHB	SAMN14601455
	2	2CHB	SAMN14601456
	3	3CHB	SAMN14601457
	4	4CHB	SAMN14601458
	5	5CHB	SAMN14601459
	6	6CHB	SAMN14601460
	7	7CHB	SAMN14601461
	8	8CHB	SAMN14601462
	9	9CHB	SAMN14601463
	10	10CHB	SAMN14601464
	11	11CHB	SAMN14601465
	12	12CHB	SAMN14601466
	13	13CHB	SAMN14601467
	14	14CHB	SAMN14601468
	15	15CHB	SAMN14601469
	16	16CHB	SAMN14601470
HCC	17	17HCC	SAMN14601471
	18	18HCC	SAMN14601472
	19	19HCC	SAMN14601473
	20	20HCC	SAMN14601474
	21	21HCC	SAMN14601475
	22	22HCC	SAMN14601476
	23	23HCC	SAMN14601477
	24	24HCC	SAMN14601478
	25	25HCC	SAMN14601479
	26	26HCC	SAMN14601480
	27	27HCC	SAMN14601481
	28	28HCC	SAMN14601482
	29	29HCC	SAMN14601483
	30	30HCC	SAMN14601484
	31	31HCC	SAMN14601485
	32	32HCC	SAMN14601486
	33	33HCC	SAMN14601487
LC	34	34LC	SAMN14601488
	35	35LC	SAMN14601489
	36	36LC	SAMN14601490
	37	37LC	SAMN14601491
	38	38LC	SAMN14601492

CHB: Chronic hepatitis B infection without liver damages; HCC: Hepatocellular carcinoma; LC: Liver cirrhosis.

