Supplementary Table 1. Primers

1st primers			
	5'→3'		5'→3'
Sense	CCGGGAGGTCTCGTAGACCGTGCA	Antisense	GGACACGTTGCGCACTTCATAAGCG
2nd primers			
	5'→3'		5'→3'
Sense-Barcode 1	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGAGTGCGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 1	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGAGTGCGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 2	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGCTCGACAAGCACGAATCCTAAACCTCA	Antisense-Barcode 2	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGCTCGACAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 3	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGACGCACTCAGCACGAATCCTAAACCTCA	Antisense-Barcode 3	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGACGCACTCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 4	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGCACTGTAGAGCACGAATCCTAAACCTCA	Antisense-Barcode 4	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGCACTGTAGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 5	GAATTCCGTATCGCCTCCCTCGCGCCATCAGATCAGACACGAGCACGAATCCTAAACCTCA	Antisense-Barcode 5	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGATCAGACACGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 6	GAATTCCGTATCGCCTCCCTCGCGCCATCAGATATCGCGAGAGAGCACGAATCCTAAACCTCA	Antisense-Barcode 6	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGATATCGCGAGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 7	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGTGTCTCTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 7	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGTGTCTCTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 8	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCTCGCGTGTCAGCACGAATCCTAAACCTCA	Antisense-Barcode 8	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCTCGCGTGTCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 9	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTAGTATCAGCAGCACGAATCCTAAACCTCA	Antisense-Barcode 9	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTAGTATCAGCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 10	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCTCTATGCGAGCACGAATCCTAAACCTCA	Antisense-Barcode 10	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCTCTATGCGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 11	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGATACGTCTAGCACGAATCCTAAACCTCA	Antisense-Barcode 11	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGATACGTCTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 12	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACTGAGCTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 12	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACTGAGCTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 13	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCATAGTAGTGAGCACGAATCCTAAACCTCA	Antisense-Barcode 13	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCATAGTAGTGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 14	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGAGAGATACAGACACGAATCCTAAACCTCA	Antisense-Barcode 14	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGAGAGATACAGAGCCAAGAGGAAGATAGA
Sense-Barcode 15	GAATTCCGTATCGCCTCCCTCGCGCCATCAGATACGACGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 15	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGATACGACGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 16	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCACGTACTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 16	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCACGTACTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 17	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGTCTAGTACAGCACGAATCCTAAACCTCA	Antisense-Barcode 17	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGTCTAGTACAGAGCCAAGAGGAAGATAGA
Sense-Barcode 18	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCTACGTAGCAGCACGAATCCTAAACCTCA	Antisense-Barcode 18	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCTACGTAGCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 19	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGTACTACTCAGCACGAATCCTAAACCTCA	Antisense-Barcode 19	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGTACTACTCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 20	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGACTACAGAGCACGAATCCTAAACCTCA	Antisense-Barcode 20	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGACTACAGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 21	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGTAGACTAGAGCACGAATCCTAAACCTCA	Antisense-Barcode 21	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGTAGACTAGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 22	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACGAGTATGAGCACGAATCCTAAACCTCA	Antisense-Barcode 22	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACGAGTATGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 23	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACTCTCGTGAGCACGAATCCTAAACCTCA	Antisense-Barcode 23	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACTCTCGTGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 24	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTAGAGACGAGAGCACGAATCCTAAACCTCA	Antisense-Barcode 24	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTAGAGACGAGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 25	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCGTCGCTCGAGCACGAATCCTAAACCTCA	Antisense-Barcode 25	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCGTCGCTCGAGAGCCAAGAGGAAGATAGA
Sense-Barcode 26	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACATACGCGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 26	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACATACGCGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 27	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGCGAGTATAGCACGAATCCTAAACCTCA	Antisense-Barcode 27	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGCGAGTATAGAGCCAAGAGGAAGATAGA
Sense-Barcode 28	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACTACTATGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 28	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACTACTATGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 29	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACTGTACAGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 29	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACTGTACAGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 30	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGACTATACTAGCACGAATCCTAAACCTCA	Antisense-Barcode 30	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGACTATACTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 31	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGCGTCGTCTAGCACGAATCCTAAACCTCA	Antisense-Barcode 31	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGCGTCGTCTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 32	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGTACGCTATAGACGAATCCTAAACCTCA	Antisense-Barcode 32	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGTACGCTATAGAGCCAAGAGGAAGATAGA
Sense-Barcode 33	GAATTCCGTATCGCCTCCCTCGCGCCATCAGATAGAGTACTAGCACGAATCCTAAACCTCA	Antisense-Barcode 33	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGATAGAGTACTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 34	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCACGCTACGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 34	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCACGCTACGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 35	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCAGTAGACGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 35	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCAGTAGACGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 36	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGACGTGACTAGCACGAATCCTAAACCTCA	Antisense-Barcode 36	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGACGTGACTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 37	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACACACACTAGCACGAATCCTAAACCTCA	Antisense-Barcode 37	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACACACACTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 38	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACACGTGATAGCACGAATCCTAAACCTCA	Antisense-Barcode 38	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACACGTGATAGAGCCAAGAGGAAGATAGA
Sense-Barcode 39	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACAGATCGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 39	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACAGATCGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 40	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACGCTGTCTAGCACGAATCCTAAACCTCA	Antisense-Barcode 40	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACGCTGTCTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 41	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTAGTGTAGATAGCACGAATCCTAAACCTCA	Antisense-Barcode 41	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTAGTGTAGATAGAGCCAAGAGGAAGATAGA
Sense-Barcode 42	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCGATCACGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 42	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCGATCACGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 43	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCGCACTAGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 43	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCGCACTAGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 44	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCTAGCGACTAGACACGAATCCTAAACCTCA	Antisense-Barcode 44	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCTAGCGACTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 45	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCTATACTATAGCACGAATCCTAAACCTCA	Antisense-Barcode 45	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCTATACTATAGAGCCAAGAGGAAGATAGA
Sense-Barcode 46	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGACGTATGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 46	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGACGTATGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 47	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGTGAGTAGTAGCACGAATCCTAAACCTCA	Antisense-Barcode 47	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGTGAGTAGTAGAGCCAAGAGGAAGATAGA
Sense-Barcode 48	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACAGTATATAAGCACGAATCCTAAACCTCA	Antisense-Barcode 48	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACAGTATATAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 49	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGCGATCGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 49	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGCGATCGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 50	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACTAGCAGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 50	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACTAGCAGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 51	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGCTCACGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 51	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGCTCACGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 52	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGTATACATAAGCACGAATCCTAAACCTCA	Antisense-Barcode 52	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGTATACATAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 53	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGTCGAGAGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 53	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGTCGAGAGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 54	GAATTCCGTATCGCCTCCCTCGCGCCATCAGAGTGCTACGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 54	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGAGTGCTACGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 55	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGATCGTATAAGCACGAATCCTAAACCTCA	Antisense-Barcode 55	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGATCGTATAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 56	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGCAGTACGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 56	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGCAGTACGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 57	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGCGTATACAAGCACGAATCCTAAACCTCA	Antisense-Barcode 57	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGCGTATACAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 58	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGTACAGTCAAGCACGAATCCTAAACCTCA	Antisense-Barcode 58	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGTACAGTCAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 59	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCGTACTCAGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 59	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCGTACTCAGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 60	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCTACGCTCTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 60	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCTACGCTCTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 61	GAATTCCGTATCGCCTCCCTCGCGCCATCAGCTATAGCGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 61	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGCTATAGCGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 62	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTACGTCATCAAGCACGAATCCTAAACCTCA	Antisense-Barcode 62	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTACGTCATCAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 63	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTAGTCGCATAAGCACGAATCCTAAACCTCA	Antisense-Barcode 63	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTAGTCGCATAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 64	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTATATATACAAGCACGAATCCTAAACCTCA	Antisense-Barcode 64	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTATATATACAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 65	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTATGCTAGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 65	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTATGCTAGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 66	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCACGCGAGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 66	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCACGCGAGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 67	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCGATAGTGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 67	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCGATAGTGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 68	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCGCTGCGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 68	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCGCTGCGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 69	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTCTGACGTCAAGCACGAATCCTAAACCTCA	Antisense-Barcode 69	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTCTGACGTCAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 70	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGAGTCAGTAAGCACGAATCCTAAACCTCA	Antisense-Barcode 70	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGAGTCAGTAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 71	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGTAGTGTGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 71	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGTAGTGTGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 72	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGTCACACGAAGCACGAATCCTAAACCTCA	Antisense-Barcode 72	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGTCACACGAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 73	GAATTCCGTATCGCCTCCCTCGCGCCATCAGTGTCGTCGCAAGCACGAATCCTAAACCTCA	Antisense-Barcode 73	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGTGTCGTCGCAAGAGCCAAGAGGAAGATAGA
Sense-Barcode 74	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACACATACGCAGCACGAATCCTAAACCTCA	Antisense-Barcode 74	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACACATACGCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 75	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACAGTCGTGCAGCACGAATCCTAAACCTCA	Antisense-Barcode 75	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACAGTCGTGCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 76	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACATGACGACAGCACGAATCCTAAACCTCA	Antisense-Barcode 76	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACATGACGACAGAGCCAAGAGGAAGATAGA
Sense-Barcode 77	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGACAGCTCAGCACGAATCCTAAACCTCA	Antisense-Barcode 77	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGACAGCTCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 78	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACGTCTCATCAGCACGAATCCTAAACCTCA	Antisense-Barcode 78	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACGTCTCATCAGAGCCAAGAGGAAGATAGA
Sense-Barcode 79	GAATTCCGTATCGCCTCCCTCGCGCCATCAGACTCATCTACAGCACGAATCCTAAACCTCA	Antisense-Barcode 79	GAATTCCTATGCGCCTTGCCAGCCCGCTCAGACTCATCTACAGAGCCAAGAGGAAGATAGA

Supplementary Figure

Nucleotide No.	36	209	271	309	435	481
HCV-J	A	G	A	U	G	G
HCC (N=25)	–	A	C	–	–	–
	–	A	C	–	–	–
	–	–	C	C	A	–
	–	A	–	C	–	–
	–	–	U	C	–	–
	–	A	C	–	A	–
	–	–	U	C	–	–
	–	A	–	–	–	–
	–	A	–	–	–	–
	–	–	C	–	A	–
	–	A	U	–	–	A
	–	–	–	–	–	–
	–	A	–	–	A	–
	–	A	C	C	–	–
	–	A	–	–	–	–
	–	A	U	C	–	–
	–	A	C	–	–	–
	–	A	–	C	–	–
	–	–	U	–	–	–
	–	A	–	–	–	–
	–	–	C	C	A	–
	–	A	C	–	–	–
	–	–	–	–	–	–
	–	A	C	–	A	–
	–	A	–	–	–	–
LC (N=29)	–	A	C	C	–	–
	–	A	–	C	–	–
	–	A	–	C	A	–
	–	–	C	C	–	–
	–	A	C	C	A	–
	–	–	C	C	A	–
	–	A	–	C	–	–
	–	A	C	C	–	–
	–	A	C	–	A	–
	–	–	C	–	A	–
	–	–	U	–	–	A
	–	A	C	–	–	–
	–	–	–	C	A	–
	–	A	–	C	A	A
	–	A	C	C	–	–
	–	–	C	–	A	–
	–	A	–	–	–	–
	–	–	C	C	–	–
	–	–	–	C	–	–
	–	A	–	C	–	–
	–	A	U	C	–	–
	–	A	C	C	A	–
	–	–	C	–	A	–
	–	–	C	–	A	–
	–	A	C	C	–	–
	–	A	U	–	–	–
	–	–	–	C	A	–
	–	A	–	–	–	–
CH (N=25)	–	A	C	–	A	–
	–	A	U	–	–	–
	–	–	C	C	–	–
	C	–	C	C	–	–
	–	–	–	C	–	–
	–	–	–	C	A	–
	–	–	C	C	–	–
	–	–	U	–	–	–
	–	–	–	–	–	–
	–	–	–	C	–	–
	–	–	U	C	–	–
	–	–	C	–	–	–
	–	A	C	–	–	–
	–	A	C	–	–	–
	–	–	C	–	–	–
	–	–	C	C	–	–
	–	–	C	–	A	–
	C	–	–	C	A	–
	–	A	–	C	–	–
	–	–	C	–	A	–
	–	–	C	–	–	–
	–	A	–	–	–	–
	–	–	C	–	–	–
	–	A	C	–	–	–
	–	–	U	–	–	–

Supplementary Figure

An association between nucleotide changes in several sites in the core region and disease progression was investigated using dominant sequencing data in each patient since those sites (nt 36, 209, 271, 309, 435, and 481) not limited to core a.a.R70non-R were reported for their association with HCC occurrence by direct sequencing in a previous study (9). Nucleotide sites at G209 and A271 are the amino acid sites at R70 and M91, respectively.

Supplementary Table 2. Nucleotide changes in several sites in the core region and disease progression

	CH (N=25)	LC (N=29)	HCC (N=25)	P value
A36G/C (%)	2.76	6.20	13.55	0.575
G209A (%)	29.65	56.78	71.8	0.018
A271U/C (%)	58.25	66.54	71.19	0.290
U309A/C (%)	38.55	60.77	44.66	0.116
G435A/C (%)	22.83	40.98	16.71	0.129
G481A (%)	2.52	4.60	0.04	0.648