

Table S1 The clinical characteristics of patients with HCC

sample	height	weight	race	gender	age_at_i
TCGA-2V-A95S	173	78	ASIAN	MALE	[Not Ava
TCGA-2Y-A9GW	182	139	WHITE	MALE	
TCGA-2Y-A9GX	175	104	WHITE	MALE	
TCGA-2Y-A9GY	161	92	WHITE	FEMALE	
TCGA-2Y-A9H0	180	89	WHITE	MALE	
TCGA-2Y-A9H6	156	99	WHITE	FEMALE	
TCGA-2Y-A9H9	178	88	WHITE	MALE	
TCGA-3K-AAZ8	172	84	BLACK OR AFRICAN AMERICAN	MALE	
TCGA-BC-A10S	[Not Available]	74	WHITE	MALE	
TCGA-BC-A10W	[Not Available]	71	ASIAN	MALE	
TCGA-BC-A10Z	[Not Available]	79	WHITE	FEMALE	
TCGA-BD-A2L6	168	110	WHITE	MALE	
TCGA-BD-A3ER	188	111	WHITE	MALE	
TCGA-DD-A113	154	56	WHITE	FEMALE	
TCGA-DD-A115	168	79	WHITE	MALE	
TCGA-DD-A116	175	73	ASIAN	MALE	
TCGA-DD-A118	169	75	WHITE	FEMALE	
TCGA-DD-A119	160	58	ASIAN	MALE	
TCGA-DD-A11A	156	67	BLACK OR AFRICAN AMERICAN	MALE	
TCGA-DD-A11B	181	134	WHITE	MALE	
TCGA-DD-A11C	186	123	WHITE	MALE	
TCGA-DD-A11D	163	73	WHITE	FEMALE	
TCGA-DD-A1EA	168	94	ASIAN	MALE	
TCGA-DD-A1EB	164	57	[Not Available]	FEMALE	
TCGA-DD-A1EC	157	50	WHITE	FEMALE	
TCGA-DD-A1ED	168	85	WHITE	MALE	
TCGA-DD-A1EF	164	81	WHITE	FEMALE	
TCGA-DD-A1EG	168	82	WHITE	MALE	

TCGA-DD-A1EH	179	70	WHITE	MALE	
TCGA-DD-A1EI	175	69	ASIAN	MALE	
TCGA-DD-A1EJ	154	64	WHITE	FEMALE	
TCGA-DD-A1EK	159	97	WHITE	FEMALE	
TCGA-DD-A1EL	182	54	BLACK OR AFRICAN AMERICAN	MALE	
TCGA-DD-A39W	177	74	WHITE	FEMALE	
TCGA-DD-A39X	152	48	WHITE	FEMALE	
TCGA-DD-A39Y	176	85	ASIAN	MALE	
TCGA-DD-A39Z	165	61	[Not Available]	FEMALE	
TCGA-DD-A3A1	185	78	[Not Available]	MALE	
TCGA-DD-A3A2	178	85	WHITE	FEMALE	
TCGA-DD-A3A5	170	58	WHITE	FEMALE	
TCGA-DD-A3A7	188	80	[Unknown]	MALE	
TCGA-DD-A3A8	177	99	WHITE	MALE	
TCGA-DD-A3A9	168	62	WHITE	FEMALE	
TCGA-DD-A4NA	166	93	WHITE	FEMALE	
TCGA-DD-A4NB	185	69	WHITE	MALE	
TCGA-DD-A4ND	162	89	WHITE	FEMALE	
TCGA-DD-A4NG	164	94	WHITE	MALE	
TCGA-DD-A4NH	157	81	WHITE	FEMALE	
TCGA-DD-A4NI	172	99	WHITE	MALE	
TCGA-DD-A4NJ	164	88	WHITE	FEMALE	
TCGA-DD-A4NK	[Not Available]	84	WHITE	FEMALE	
TCGA-DD-A4NL	173	113	WHITE	MALE	
TCGA-DD-A4NN	163	59	WHITE	FEMALE	
TCGA-DD-A4NP	177	79	WHITE	MALE	
TCGA-DD-A4NR	64	54	WHITE	FEMALE	
TCGA-DD-A4NS	167	58	WHITE	FEMALE	
TCGA-DD-A4NV	179	129	WHITE	MALE	
TCGA-DD-A73A	174	102	WHITE	MALE	
TCGA-DD-A73B	154	74	WHITE	FEMALE	
TCGA-DD-A73C	159	49	WHITE	FEMALE	

TCGA-DD-A73E	172	108	WHITE	MALE	
TCGA-DD-A73F	164	69	WHITE	FEMALE	
TCGA-DD-A73G	155	44	WHITE	FEMALE	
TCGA-DD-AA3A	151	60	WHITE	FEMALE	
TCGA-DD-AAC8	156	57	ASIAN	MALE	
TCGA-DD-AAC9	174	81	ASIAN	MALE	
TCGA-DD-AACA	165	70	ASIAN	MALE	
TCGA-DD-AACB	156	72	ASIAN	FEMALE	
TCGA-DD-AACC	165	61	ASIAN	MALE	
TCGA-DD-AACD	182	66	ASIAN	MALE	
TCGA-DD-AACE	162	62	ASIAN	MALE	
TCGA-DD-AACF	168	60	ASIAN	MALE	
TCGA-DD-AACG	168	65	ASIAN	MALE	
TCGA-DD-AACH	160	53	ASIAN	MALE	
TCGA-DD-AACI	155	48	ASIAN	MALE	
TCGA-DD-AACJ	159	73	ASIAN	MALE	
TCGA-DD-AACK	172	68	ASIAN	MALE	
TCGA-DD-AACL	150	69	ASIAN	FEMALE	
TCGA-DD-AACN	171	70	ASIAN	MALE	
TCGA-DD-AACO	164	43	ASIAN	MALE	
TCGA-DD-AACP	155	62	ASIAN	MALE	
TCGA-DD-AACQ	169	64	ASIAN	MALE	
TCGA-DD-AACS	172	80	ASIAN	MALE	

TCGA-DD-AACT	158	62	ASIAN	FEMALE	
TCGA-DD-AACU	166	67	ASIAN	MALE	
TCGA-DD-AACV	169	70	ASIAN	MALE	
TCGA-DD-AACW	166	65	ASIAN	MALE	
TCGA-DD-AACX	155	53	ASIAN	MALE	
TCGA-DD-AACY	162	62	ASIAN	MALE	
TCGA-DD-AACZ	149	52	ASIAN	FEMALE	
TCGA-DD-AAD0	150	54	ASIAN	FEMALE	
TCGA-DD-AAD1	161	44	ASIAN	FEMALE	
TCGA-DD-AAD2	156	52	ASIAN	MALE	
TCGA-DD-AAD3	178	77	ASIAN	MALE	
TCGA-DD-AAD5	170	70	ASIAN	MALE	
TCGA-DD-AAD6	167	93	ASIAN	MALE	
TCGA-DD-AAD8	152	57	ASIAN	FEMALE	
TCGA-DD-AADA	147	59	ASIAN	FEMALE	
TCGA-DD-AADB	165	68	ASIAN	MALE	
TCGA-DD-AADC	176	81	ASIAN	MALE	
TCGA-DD-AADD	168	68	ASIAN	MALE	
TCGA-DD-AADF	145	55	ASIAN	FEMALE	
TCGA-DD-AADG	160	61	ASIAN	MALE	
TCGA-DD-AADI	165	64	ASIAN	FEMALE	
TCGA-DD-AADJ	154	59	ASIAN	FEMALE	

TCGA-DD-AADK	150	51	ASIAN	FEMALE	
TCGA-DD-AADL	159	53	ASIAN	MALE	
TCGA-DD-AADM	159	55	ASIAN	MALE	
TCGA-DD-AADN	160	62	ASIAN	MALE	
TCGA-DD-AADO	168	58	ASIAN	MALE	
TCGA-DD-AADP	167	67	ASIAN	MALE	
TCGA-DD-AADQ	165	64	ASIAN	MALE	
TCGA-DD-AADR	170	75	ASIAN	MALE	
TCGA-DD-AADS	164	53	ASIAN	MALE	
TCGA-DD-AADU	166	73	ASIAN	MALE	
TCGA-DD-AADV	176	64	ASIAN	MALE	
TCGA-DD-AADW	163	49	ASIAN	MALE	
TCGA-DD-AADY	161	55	ASIAN	FEMALE	
TCGA-DD-AAE0	159	56	ASIAN	FEMALE	
TCGA-DD-AAE1	169	62	ASIAN	MALE	
TCGA-DD-AAE2	174	82	ASIAN	MALE	
TCGA-DD-AAE3	165	73	ASIAN	MALE	
TCGA-DD-AAE4	157	62	ASIAN	FEMALE	
TCGA-DD-AAE6	159	46	ASIAN	FEMALE	
TCGA-DD-AAE7	172	74	ASIAN	MALE	
TCGA-DD-AAE9	165	63	ASIAN	MALE	
TCGA-DD-AAEA	163	66	ASIAN	MALE	

TCGA-DD-AAEB	161	75	ASIAN	MALE	
TCGA-DD-AAED	166	69	ASIAN	MALE	
TCGA-DD-AAEE	160	58	ASIAN	MALE	
TCGA-DD-AAEG	149	40	ASIAN	FEMALE	
TCGA-DD-AAEH	163	62	ASIAN	MALE	
TCGA-DD-AAEI	166	79	ASIAN	MALE	
TCGA-DD-AAEK	169	64	ASIAN	MALE	
TCGA-DD-AAVP	167	62	ASIAN	MALE	
TCGA-DD-AAVQ	171	72	ASIAN	MALE	
TCGA-DD-AAVR	165	69	ASIAN	MALE	
TCGA-DD-AAVS	169	72	ASIAN	MALE	
TCGA-DD-AAVU	160	88	ASIAN	MALE	
TCGA-DD-AAVV	158	71	ASIAN	MALE	
TCGA-DD-AAVW	162	62	ASIAN	MALE	
TCGA-DD-AAVX	178	65	ASIAN	MALE	
TCGA-DD-AAVY	161	63	ASIAN	MALE	
TCGA-DD-AAVZ	171	62	ASIAN	MALE	
TCGA-DD-AAW0	172	75	ASIAN	MALE	
TCGA-DD-AAW1	167	60	ASIAN	MALE	
TCGA-DD-AAW2	156	50	ASIAN	MALE	
TCGA-DD-AAW3	162	64	ASIAN	MALE	
TCGA-ED-A459	167	51	ASIAN	MALE	

TCGA-ED-A4XI	170	55	ASIAN	MALE	
TCGA-ED-A5KG	160	61	ASIAN	FEMALE	
TCGA-ED-A66X	170	61	ASIAN	MALE	
TCGA-ED-A66Y	160	59	ASIAN	FEMALE	
TCGA-ED-A7PX	161	43	ASIAN	FEMALE	
TCGA-ED-A7PY	156	40	ASIAN	FEMALE	
TCGA-ED-A7PZ	159	50	ASIAN	MALE	
TCGA-ED-A7XP	157	54	ASIAN	FEMALE	
TCGA-ED-A97K	170	64	ASIAN	MALE	
TCGA-G3-A7M6	158	77	WHITE	FEMALE	
TCGA-G3-AAV3	168	85	WHITE	FEMALE	
TCGA-G3-AAV4	156	56	WHITE	FEMALE	
TCGA-G3-AAV6	165	78	WHITE	FEMALE	
TCGA-G3-AAV7	165	58	ASIAN	MALE	
TCGA-HP-A5N0	156	65	[Not Evaluated]	FEMALE	
TCGA-K7-AAU7	[Not Available]	[Not Available]	WHITE	MALE	
TCGA-KR-A7K7	168	125	WHITE	FEMALE	
TCGA-KR-A7K8	170	109	[Unknown]	MALE	
TCGA-MI-A75I	188	100	BLACK OR AFRICAN AMERICAN	MALE	
TCGA-NI-A4U2	171	82	WHITE	MALE	
TCGA-NI-A8LF	171	104	WHITE	MALE	
TCGA-O8-A75V	180	92	[Unknown]	MALE	
TCGA-PD-A5DF	167	72	WHITE	FEMALE	
TCGA-QA-A7B7	180	108	BLACK OR AFRICAN AMERICAN	MALE	
TCGA-T1-A6J8	188	65	WHITE	MALE	
TCGA-UB-A7ME	165	75	ASIAN	MALE	
TCGA-WQ-A9G7	157	69	WHITE	FEMALE	

TCGA-WQ-AB4B	175	122	WHITE	MALE	
TCGA-YA-A8S7	164	73	WHITE	MALE	
TCGA-ZP-A9CV	173	59	WHITE	MALE	
TCGA-ZP-A9CY	152	83	WHITE	FEMALE	
TCGA-ZP-A9CZ	167	73	ASIAN	MALE	
TCGA-ZP-A9D0	165	78	BLACK OR AFRICAN AMERICAN	FEMALE	
TCGA-ZP-A9D1	170	130	WHITE	FEMALE	
TCGA-ZP-A9D4	155	55	WHITE	FEMALE	