

Supplementary

Table S1 Clinicopathological characteristics

Characteristic	343 hepatocellular carcinoma patients
Age	
≤65 years	216
>65 years	127
Sex	
Female	110
Male	233
Status	
Alive	220
Dead	123
Tumor grade	
G1	53
G2	161
G3	112
G4	12
Unknown	5
Pathologic T stage	
T1	168
T2	84
T3	75
T4	13
Unknown	3
Pathologic N stage	
N0	239
N1	3
Unknown	101
Pathologic M stage	
M0	245
M1	3
Unknown	95
Tumor stage	
I	161
II	77
III	80
IV	3
Unknown	22

Table S2 detailed clinical parameters in TCGA-LIHC cohort

Id	fustat	Age	Gender	Grade	Stage	T	M	N
TCGA-2Y-A9GS	1	58	Male	G2	Unknown	T2	Unknown	Unknown
TCGA-2Y-A9GT	1	51	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9GU	0	55	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9GV	1	54	Female	G1	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9GW	1	64	Male	G2	Stage I	T1	Unknown	N0
TCGA-2Y-A9GX	0	68	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9GY	1	64	Female	G3	Stage II	T2	Unknown	Unknown
TCGA-2Y-A9GZ	1	82	Female	G2	Stage II	T2	Unknown	Unknown
TCGA-2Y-A9H0	0	49	Male	G1	Stage III	T3	M0	N0
TCGA-2Y-A9H1	1	58	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9H2	0	64	Female	G3	Stage I	T1	Unknown	N0
TCGA-2Y-A9H3	0	45	Male	G1	Stage II	T2	Unknown	Unknown
TCGA-2Y-A9H4	0	68	Male	G2	Stage I	T1	Unknown	N0
TCGA-2Y-A9H5	1	59	Female	G3	Stage I	T1	Unknown	N0
TCGA-2Y-A9H6	0	68	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-2Y-A9H7	0	81	Female	G2	Stage I	T1	Unknown	N0
TCGA-2Y-A9H8	1	85	Female	G2	Unknown	T1	Unknown	Unknown
TCGA-2Y-A9H9	0	70	Male	G2	Stage I	T1	Unknown	N0
TCGA-2Y-A9HA	1	70	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-2Y-A9HB	0	66	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-3K-AAZ8	0	65	Male	G1	Stage III	T3	Unknown	Unknown
TCGA-4R-AA8I	1	66	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-5C-A9VG	0	58	Male	G2	Stage II	T2	M0	N0
TCGA-5C-A9VH	0	70	Male	G2	Stage I	T1	M0	N0
TCGA-5R-AA1C	0	57	Male	G2	Stage II	T2	M0	N0
TCGA-5R-AA1D	0	17	Female	G3	Stage III	T3	M0	N0
TCGA-5R-AAAM	1	65	Female	G2	Stage II	T2	M0	N0
TCGA-BC-4072	1	74	Female	G3	Stage III	T3	M0	N0
TCGA-BC-4073	0	73	Male	G3	Stage III	T3	Unknown	N0
TCGA-BC-A10Q	1	72	Female	Unknown	Unknown	T2	Unknown	Unknown
TCGA-BC-A10R	1	66	Female	G2	Unknown	T3	Unknown	Unknown
TCGA-BC-A10S	1	81	Male	G1	Unknown	T3	Unknown	Unknown
TCGA-BC-A10T	1	76	Male	G1	Unknown	T4	Unknown	Unknown
TCGA-BC-A10U	1	69	Male	G2	Unknown	T2	Unknown	Unknown
TCGA-BC-A10W	1	50	Male	G3	Unknown	T4	Unknown	Unknown
TCGA-BC-A10X	1	52	Female	G2	Stage III	T3	Unknown	N0
TCGA-BC-A10Y	1	76	Male	G3	Unknown	T4	Unknown	Unknown

TCGA-BC-A10Z	1	62	Female	G2	Stage I	T1	Unknown	N0
TCGA-BC-A110	1	51	Female	G1	Unknown	T1	Unknown	Unknown
TCGA-BC-A112	1	80	Male	G2	Unknown	T3	Unknown	Unknown
TCGA-BC-A216	0	62	Female	G2	Stage III	T3	M0	Unknown
TCGA-BC-A217	1	75	Female	G3	Stage II	T2	M0	Unknown
TCGA-BC-A3KG	0	68	Female	G3	Stage II	T2	M0	N0
TCGA-BC-A5W4	1	69	Male	G3	Stage III	T3	M0	Unknown
TCGA-BC-A69H	0	64	Male	G3	Stage II	T2	M0	Unknown
TCGA-BC-A69I	0	69	Male	G1	Stage I	T1	M0	N0
TCGA-BC-A8YO	0	66	Female	G3	Stage III	T4	M0	N0
TCGA-BD-A2L6	0	69	Male	G2	Unknown	T2	Unknown	Unknown
TCGA-BD-A3EP	0	75	Female	G2	Stage I	T1	M0	N0
TCGA-BD-A3ER	0	62	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-CC-5258	1	48	Male	G2	Stage II	T2	M0	N0
TCGA-CC-5259	0	60	Female	G2	Stage III	T4	M0	N0
TCGA-CC-5260	1	61	Female	G1	Stage III	T4	M0	N0
TCGA-CC-5261	1	44	Male	G2	Stage II	T2	M0	N0
TCGA-CC-5262	1	67	Male	G1	Stage III	T4	M0	N0
TCGA-CC-5263	1	35	Male	G1	Stage III	T3	M0	N0
TCGA-CC-5264	1	71	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A123	0	24	Female	G1	Stage III	T3	M0	N0
TCGA-CC-A1HT	1	50	Male	G3	Stage III	T3	M0	N0
TCGA-CC-A3M9	1	45	Male	G3	Stage III	T3	M0	N0
TCGA-CC-A3MA	1	61	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A3MB	1	36	Male	G1	Stage III	T3	M0	N0
TCGA-CC-A3MC	0	54	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A5UC	1	63	Male	G3	Stage III	T3	M0	N0
TCGA-CC-A5UD	1	45	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A5UE	1	48	Male	G2	Stage III	T4	M0	N0
TCGA-CC-A7IE	1	57	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A7IF	1	59	Male	G1	Stage III	T3	M0	N0
TCGA-CC-A7IG	1	47	Male	G2	Stage II	T2	M0	N0
TCGA-CC-A7IH	0	58	Male	G1	Stage III	T3	M0	N0
TCGA-CC-A7II	0	54	Male	G3	Stage III	T3	M0	N0
TCGA-CC-A7IJ	0	56	Male	G3	Stage II	T2	M0	N0
TCGA-CC-A7IK	1	59	Male	G3	Stage III	T3	M0	N0
TCGA-CC-A7IL	1	61	Male	G1	Stage III	T3	M0	N0
TCGA-CC-A8HS	1	18	Male	G1	Stage III	T3	M0	N1
TCGA-CC-A8HT	1	74	Male	G2	Stage III	T3	M0	N0
TCGA-CC-A8HU	1	39	Female	G3	Stage III	T3	M0	N0
TCGA-CC-A8HV	1	51	Female	G2	Stage II	T2	M0	N0
TCGA-CC-A9FS	0	55	Male	G2	Stage II	T2	M0	N0
TCGA-CC-A9FW	0	68	Male	G2	Stage III	T3	M0	N0

TCGA-DD-A113	0	55	Female	G3	Stage II	T2	M0	N0
TCGA-DD-A114	1	42	Male	G3	Stage II	T2	M0	Unknown
TCGA-DD-A115	1	53	Male	G2	Stage III	T3	M0	N0
TCGA-DD-A116	1	68	Male	G3	Stage III	T3	M0	N0
TCGA-DD-A118	0	77	Female	G2	Stage II	T2	M0	N0
TCGA-DD-A119	1	40	Male	G3	Stage IV	T3	M1	N0
TCGA-DD-A11A	0	67	Male	G3	Stage I	T1	M0	N0
TCGA-DD-A11C	0	69	Male	G3	Stage I	T1	M0	N0
TCGA-DD-A11D	1	57	Female	G2	Stage I	T1	M0	N0
TCGA-DD-A1EA	0	68	Male	G2	Stage II	T2	M0	N0
TCGA-DD-A1EB	0	72	Female	G2	Stage I	T1	M0	N0
TCGA-DD-A1EC	0	20	Female	G3	Stage I	T1	M0	N0
TCGA-DD-A1ED	0	68	Male	G1	Stage I	T1	M0	N0
TCGA-DD-A1EE	1	73	Male	G3	Stage III	T3	M0	N0
TCGA-DD-A1EF	1	57	Female	G3	Stage I	T1	M0	N0
TCGA-DD-A1EG	1	76	Male	G3	Stage I	T1	M0	N0
TCGA-DD-A1EH	0	23	Male	G3	Stage III	T3	M0	N0
TCGA-DD-A1EI	0	46	Male	G2	Stage I	T1	M0	N0
TCGA-DD-A1EJ	1	71	Female	G2	Stage III	T1	M0	N1
TCGA-DD-A1EK	1	64	Female	G2	Stage IV	T4	M1	N0
TCGA-DD-A1EL	1	23	Male	G3	Stage II	T2	M0	N0
TCGA-DD-A39V	1	77	Male	G3	Stage II	T2	M0	Unknown
TCGA-DD-A39W	1	29	Female	G2	Stage III	T3	M0	N0
TCGA-DD-A39X	1	78	Female	G2	Stage I	T1	M0	Unknown
TCGA-DD-A39Y	1	67	Male	G3	Stage I	T1	M0	Unknown
TCGA-DD-A39Z	1	43	Female	G2	Stage II	T2	M0	Unknown
TCGA-DD-A3A1	1	65	Male	G2	Stage III	T3	M0	N0
TCGA-DD-A3A2	1	76	Female	G1	Stage I	T1	M0	N0
TCGA-DD-A3A3	1	45	Male	G2	Stage I	T1	M0	N0
TCGA-DD-A3A4	1	37	Male	G3	Stage III	T3	M0	N0
TCGA-DD-A3A5	1	66	Female	G2	Stage III	T3	M0	N0
TCGA-DD-A3A6	1	72	Female	G2	Stage II	T2	M0	N0
TCGA-DD-A3A7	1	67	Male	G3	Stage III	T3	M0	N0
TCGA-DD-A3A9	1	64	Female	G2	Stage IV	T4	M1	N0
TCGA-DD-A4NA	0	67	Female	G3	Stage III	T2	M0	N1
TCGA-DD-A4NB	0	25	Male	G2	Stage I	T1	M0	N0
TCGA-DD-A4ND	0	56	Female	G3	Stage I	T1	M0	N0
TCGA-DD-A4NE	1	75	Female	G3	Stage III	T3	M0	N0
TCGA-DD-A4NF	0	72	Male	G2	Stage I	T1	M0	N0
TCGA-DD-A4NG	1	77	Male	G2	Stage III	T3	M0	Unknown
TCGA-DD-A4NH	0	65	Female	G3	Stage III	T3	M0	N0
TCGA-DD-A4NI	0	67	Male	G2	Stage II	T2	M0	Unknown
TCGA-DD-A4NJ	0	54	Female	G2	Stage II	T2	M0	N0

TCGA-DD-A4NK	1	80	Female	G2	Stage III	T3	M0	N0
TCGA-DD-A4NL	0	46	Male	G1	Stage I	T1	M0	N0
TCGA-DD-A4NN	1	56	Female	G3	Stage I	T1	M0	N0
TCGA-DD-A4NO	0	65	Male	G1	Stage I	T1	M0	N0
TCGA-DD-A4NP	0	32	Male	G3	Stage I	T1	M0	N0
TCGA-DD-A4NQ	1	60	Male	G3	Stage II	T2	M0	N0
TCGA-DD-A4NS	1	61	Female	G2	Stage I	T1	M0	N0
TCGA-DD-A4NV	0	61	Male	G1	Stage III	T3	M0	N0
TCGA-DD-A73A	0	71	Male	G2	Stage I	T1	M0	N0
TCGA-DD-A73B	1	72	Female	G2	Stage I	T1	M0	N0
TCGA-DD-A73C	0	65	Female	G1	Stage III	T3	M0	N0
TCGA-DD-A73D	0	68	Female	G1	Stage II	T2	Unknown	Unknown
TCGA-DD-A73E	0	66	Male	G1	Stage I	T1	M0	N0
TCGA-DD-A73F	0	77	Female	G1	Stage I	T1	M0	N0
TCGA-DD-A73G	0	73	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AA3A	1	81	Female	G4	Stage I	T1	Unknown	N0
TCGA-DD-AAC9	0	51	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AACA	0	65	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACB	0	74	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AACC	1	61	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AACD	1	48	Male	G4	Stage I	T1	M0	N0
TCGA-DD-AACE	0	62	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACF	1	68	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACG	1	52	Male	G4	Stage II	T2	M0	N0
TCGA-DD-AACH	1	69	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AACI	0	69	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AACJ	0	75	Male	G2	Stage II	T2	M0	N0
TCGA-DD-AACL	1	66	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AACN	0	32	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACO	0	40	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACP	0	64	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACQ	1	50	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AACS	0	39	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACT	0	69	Female	G2	Stage I	T1	M0	N0
TCGA-DD-AACU	0	59	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACV	0	53	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACW	0	43	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACX	0	66	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AACY	0	61	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AACZ	1	63	Female	G4	Stage I	T1	M0	N0
TCGA-DD-AAD0	0	73	Female	G2	Stage I	T1	M0	N0
TCGA-DD-AAD1	0	51	Female	G4	Stage I	T1	M0	N0
TCGA-DD-AAD2	0	66	Male	G2	Stage I	T1	M0	N0

TCGA-DD-AAD3	0	43	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAD5	0	54	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAD6	0	66	Male	G3	Stage III	T3	M0	N0
TCGA-DD-AAD8	0	73	Female	G2	Stage I	T1	M0	N0
TCGA-DD-AADA	0	66	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AADB	0	51	Male	G4	Stage I	T1	M0	N0
TCGA-DD-AADC	1	53	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADD	0	51	Male	G4	Stage I	T1	M0	N0
TCGA-DD-AADF	1	64	Female	G4	Stage I	T1	M0	N0
TCGA-DD-AADG	0	70	Male	G3	Stage III	T3	M0	N0
TCGA-DD-AADI	0	43	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AADJ	0	70	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AADK	0	68	Female	G3	Stage II	T2	M0	N0
TCGA-DD-AADL	0	58	Male	G4	Stage I	T1	M0	N0
TCGA-DD-AADN	0	59	Male	G4	Stage I	T1	Unknown	Unknown
TCGA-DD-AADO	0	55	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADP	0	45	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADQ	0	59	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AADR	0	58	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADS	0	63	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AADU	0	60	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AADV	0	50	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADW	0	48	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AADY	0	55	Female	G2	Stage I	T1	M0	N0
TCGA-DD-AAE0	0	45	Female	G4	Stage III	T3	M0	N0
TCGA-DD-AAE1	0	52	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAE2	0	51	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAE3	0	50	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAE4	0	49	Female	G1	Stage I	T1	M0	N0
TCGA-DD-AAE6	0	59	Female	G2	Stage I	T1	M0	N0
TCGA-DD-AAE7	0	72	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAE9	0	69	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAEA	0	65	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAEB	0	60	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAED	0	51	Male	G3	Stage I	T1	M0	N0
TCGA-DD-AAEE	0	55	Male	G4	Stage I	T1	M0	N0
TCGA-DD-AAEG	0	59	Female	G3	Stage I	T1	M0	N0
TCGA-DD-AAEH	0	73	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAEI	0	72	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAEK	0	51	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AAVP	0	48	Male	G1	Stage I	T1	M0	N0
TCGA-DD-AAVQ	0	38	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAVR	0	44	Male	G2	Stage I	T1	M0	N0

TCGA-DD-AAVS	0	56	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAVU	0	46	Male	G2	Stage II	T2	M0	N0
TCGA-DD-AAVV	0	56	Male	G3	Stage II	T2	M0	N0
TCGA-DD-AAVW	0	35	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAVX	0	38	Male	G2	Stage II	T2	M0	N0
TCGA-DD-AAVY	0	56	Male	G2	Stage III	T3	M0	N0
TCGA-DD-AAVZ	0	38	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAW0	0	54	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAW1	0	55	Male	G2	Stage III	T3	M0	N0
TCGA-DD-AAW2	0	69	Male	G2	Stage I	T1	M0	N0
TCGA-DD-AAW3	0	69	Male	G2	Stage I	T1	M0	N0
TCGA-ED-A459	0	47	Male	G2	Stage II	T2	M0	N0
TCGA-ED-A4XI	0	58	Male	G3	Stage II	T2	M0	N0
TCGA-ED-A5KG	0	60	Female	G2	Stage II	T2	M0	N0
TCGA-ED-A627	0	74	Male	G2	Stage I	T1	M0	Unknown
TCGA-ED-A66X	0	35	Male	G3	Stage III	T3	M0	N0
TCGA-ED-A66Y	1	51	Female	G3	Stage III	T3	M0	N0
TCGA-ED-A7PY	0	20	Female	G3	Stage II	T2	M0	Unknown
TCGA-ED-A7XO	0	29	Male	G2	Stage III	T3	M0	N0
TCGA-ED-A7XP	0	53	Female	G3	Stage II	T2	M0	N0
TCGA-ED-A82E	0	60	Female	G2	Stage III	T3	M0	N0
TCGA-ED-A8O5	0	59	Female	G3	Stage III	T3	M0	N0
TCGA-ED-A8O6	1	50	Female	G3	Stage III	T3	M0	N0
TCGA-EP-A12J	0	62	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-EP-A26S	0	70	Male	G2	Stage I	T1	Unknown	N0
TCGA-EP-A2KA	1	52	Female	G3	Stage III	T3	Unknown	Unknown
TCGA-EP-A2KB	1	46	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-EP-A3JL	0	76	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-EP-A3RK	0	73	Male	G2	Stage III	T3	Unknown	Unknown
TCGA-ES-A2HS	1	80	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-ES-A2HT	1	54	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-FV-A23B	1	70	Female	Unknown	Stage II	T2	M0	N0
TCGA-FV-A2QQ	0	80	Male	G2	Stage I	T1	Unknown	N0
TCGA-FV-A2QR	1	75	Male	G1	Stage I	T1	M0	N0
TCGA-FV-A3I0	0	76	Female	G2	Stage II	T2	M0	Unknown
TCGA-FV-A3I1	1	81	Female	G2	Stage II	T2	Unknown	N0
TCGA-FV-A3R2	1	75	Male	Unknown	Stage I	T1	Unknown	Unknown
TCGA-FV-A3R3	1	38	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-FV-A4ZP	1	78	Male	G2	Stage III	T3	M0	Unknown
TCGA-G3-A25S	1	64	Male	G2	Stage I	T1	M0	N0
TCGA-G3-A25T	0	45	Female	G2	Stage III	T3	M0	N0
TCGA-G3-A25U	0	63	Female	G3	Stage I	T1	M0	N0
TCGA-G3-A25V	0	68	Male	G2	Stage I	T1	M0	N0

TCGA-G3-A25X	0	73	Male	G3	Stage II	T2	M0	N0
TCGA-G3-A25Y	1	52	Female	G3	Stage I	T1	M0	N0
TCGA-G3-A25Z	0	58	Male	G2	Stage I	T1	M0	N0
TCGA-G3-A3CG	0	80	Male	G2	Stage I	T1	M0	N0
TCGA-G3-A3CH	0	53	Male	G2	Stage III	T3	M0	N0
TCGA-G3-A3CI	0	71	Male	G2	Stage I	T1	M0	N0
TCGA-G3-A3CJ	0	52	Male	G2	Stage II	T2	M0	N0
TCGA-G3-A3CK	0	61	Male	G2	Stage I	T1	M0	N0
TCGA-G3-A5SI	1	44	Male	G2	Stage II	T2	M0	N0
TCGA-G3-A5SJ	0	59	Male	G2	Stage I	T1	M0	Unknown
TCGA-G3-A5SK	0	58	Male	G1	Stage I	T1	M0	Unknown
TCGA-G3-A5SL	0	70	Male	G2	Stage II	T2	M0	Unknown
TCGA-G3-A5SM	0	58	Male	G3	Stage II	T2	M0	Unknown
TCGA-G3-A6UC	0	65	Male	G2	Stage III	T3	M0	N0
TCGA-G3-A7M5	0	76	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-G3-A7M6	0	60	Female	G3	Stage I	T1	Unknown	Unknown
TCGA-G3-A7M7	0	65	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-G3-A7M8	0	31	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-G3-A7M9	1	70	Male	G2	Stage III	T3	Unknown	Unknown
TCGA-G3-AAUZ	0	48	Male	G2	Stage I	T1	M0	N0
TCGA-G3-AAV0	0	58	Male	G2	Stage I	T1	M0	N0
TCGA-G3-AAV1	1	51	Male	G3	Stage III	T4	M0	N0
TCGA-G3-AAV2	0	50	Male	G1	Stage I	T1	M0	N0
TCGA-G3-AAV3	0	58	Female	G2	Stage II	T2	M0	N0
TCGA-G3-AAV5	0	67	Male	G2	Stage II	T2	M0	N0
TCGA-G3-AAV6	1	53	Female	G3	Stage III	T3	M0	N0
TCGA-G3-AAV7	0	38	Male	G2	Stage II	T2	M0	N0
TCGA-GJ-A3OU	0	59	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-GJ-A6C0	1	75	Female	G2	Stage II	T2	Unknown	Unknown
TCGA-GJ-A9DB	1	68	Male	G2	Stage I	T1	Unknown	N0
TCGA-HP-A5MZ	1	78	Male	G2	Stage I	T1	M0	Unknown
TCGA-HP-A5N0	1	90	Female	Unknown	Unknown	Unknown	M0	Unknown
TCGA-K7-A5RF	0	64	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-K7-A5RG	0	66	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-K7-A6G5	0	66	Male	G2	Stage I	T1	Unknown	N0
TCGA-K7-AAU7	0	61	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-KR-A7K0	1	65	Male	G1	Stage I	T1	M0	N0
TCGA-KR-A7K2	0	64	Male	G1	Stage I	T1	M0	N0
TCGA-KR-A7K7	0	61	Female	G1	Stage II	T2	M0	N0
TCGA-KR-A7K8	0	57	Male	G1	Stage I	T1	M0	N0
TCGA-LG-A6GG	0	79	Female	G2	Stage II	T2	M0	Unknown
TCGA-LG-A9QC	0	48	Male	G2	Stage I	T1	M0	Unknown
TCGA-LG-A9QD	0	68	Male	G2	Stage III	T3	M0	N0

TCGA-MI-A75C	0	64	Male	G3	Stage I	T1	M0	N0
TCGA-MI-A75E	0	61	Male	G2	Stage III	T4	M0	N0
TCGA-MI-A75G	0	63	Male	G2	Stage II	T2	M0	N0
TCGA-MI-A75H	0	77	Male	Unknown	Unknown	Unknown	Unknown	Unknown
TCGA-MI-A75I	0	61	Male	G1	Unknown	T2	Unknown	Unknown
TCGA-MR-A520	0	58	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-MR-A8JO	0	34	Male	G3	Stage I	T1	Unknown	N0
TCGA-NI-A4U2	1	71	Male	G1	Stage III	T3	Unknown	Unknown
TCGA-NI-A8LF	0	74	Male	G3	Stage I	T1	Unknown	Unknown
TCGA-O8-A75V	0	54	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-PD-A5DF	1	58	Female	G2	Stage III	T4	M0	N0
TCGA-QA-A7B7	0	48	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-RC-A7S9	0	47	Female	G3	Stage I	T1	M0	N0
TCGA-RC-A7SB	0	53	Male	G2	Stage II	T2	M0	N0
TCGA-RC-A7SF	0	66	Male	G2	Stage I	T1	M0	N0
TCGA-RC-A7SH	0	42	Male	G3	Stage II	T2	M0	N0
TCGA-RC-A7SK	0	59	Male	G3	Stage I	T1	M0	N0
TCGA-RG-A7D4	0	69	Male	G2	Stage II	T2	M0	N0
TCGA-UB-A7MA	0	62	Female	G2	Stage II	T2	M0	N0
TCGA-UB-A7MB	0	24	Male	G3	Stage II	T2	Unknown	Unknown
TCGA-UB-A7MC	0	59	Male	G3	Stage III	T3	Unknown	N0
TCGA-UB-A7MD	1	67	Male	G3	Stage I	T1	Unknown	N0
TCGA-UB-A7ME	0	51	Male	G2	Stage I	T1	Unknown	Unknown
TCGA-UB-A7MF	1	56	Male	G2	Stage III	T3	Unknown	Unknown
TCGA-UB-AA0U	0	60	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-UB-AA0V	0	69	Female	G1	Stage I	Unknown	Unknown	Unknown
TCGA-WJ-A86L	0	68	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-WQ-A9G7	0	71	Female	G3	Unknown	T3	M0	Unknown
TCGA-WQ-AB4B	0	62	Male	G2	Stage II	T2	M0	Unknown
TCGA-WX-AA44	0	64	Female	G3	Stage I	T1	Unknown	Unknown
TCGA-WX-AA46	0	61	Male	G1	Stage II	T2	Unknown	Unknown
TCGA-WX-AA47	1	33	Female	G2	Stage III	T3	Unknown	Unknown
TCGA-XR-A8TC	0	43	Female	G2	Stage I	T1	Unknown	Unknown
TCGA-XR-A8TD	0	49	Female	G3	Stage III	T3	M0	N0
TCGA-XR-A8TE	0	16	Male	G1	Stage III	T3	Unknown	N0
TCGA-XR-A8TF	1	74	Male	G1	Stage I	T1	Unknown	Unknown
TCGA-XR-A8TG	0	58	Male	G2	Stage I	T1	M0	Unknown
TCGA-YA-A8S7	1	68	Male	G3	Stage III	T3	Unknown	N0
TCGA-ZP-A9CV	1	59	Male	G1	Unknown	T1	Unknown	Unknown
TCGA-ZP-A9CY	0	66	Female	G1	Unknown	T1	Unknown	Unknown
TCGA-ZP-A9CZ	0	72	Male	G1	Unknown	T1	Unknown	Unknown
TCGA-ZP-A9D0	0	67	Female	G1	Unknown	T1	Unknown	Unknown
TCGA-ZP-A9D2	1	51	Male	G2	Unknown	T2	Unknown	Unknown

TCGA-ZP-A9D4	0	64	Female	G1	Unknown	T1	Unknown	Unknown
TCGA-ZS-A9CD	1	73	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-ZS-A9CE	0	79	Female	G1	Stage II	T2	Unknown	Unknown
TCGA-ZS-A9CF	0	64	Male	G2	Stage II	T2	Unknown	Unknown
TCGA-ZS-A9CG	0	55	Male	G2	Stage II	T2	Unknown	Unknown

Table S3 Correlations between 9 m7G-related genes and 465 m7G-related lncRNAs

m7G-related genes	lncRNA	cor	P value	Regulation
<i>NCBP2</i>	SNHG32	0.417562081	3.26E-17	Positive
<i>NCBP3</i>	AL928654.2	0.418935277	2.51E-17	Positive
<i>CYFIP1</i>	CR936218.1	0.400525912	7.64E-16	Positive
<i>NCBP1</i>	CR936218.1	0.461425326	4.06E-21	Positive
<i>NCBP3</i>	CR936218.1	0.452284579	2.95E-20	Positive
<i>NCBP2</i>	ZNF252P-AS1	0.411837387	9.61E-17	Positive
<i>AGO2</i>	ZNF252P-AS1	0.529649327	1.97E-28	Positive
<i>NCBP2</i>	HCG18	0.640312105	1.54E-44	Positive
<i>CYFIP1</i>	HCG18	0.413166959	7.49E-17	Positive
<i>LARP1</i>	HCG18	0.482149861	3.61E-23	Positive
<i>GEMIN5</i>	HCG18	0.547921383	1.09E-30	Positive
<i>AGO2</i>	HCG18	0.465588039	1.61E-21	Positive
<i>NCBP1</i>	HCG18	0.460241257	5.26E-21	Positive
<i>NCBP3</i>	HCG18	0.423740077	9.94E-18	Positive
<i>LARP1</i>	LINC01278	0.412940135	7.82E-17	Positive
<i>GEMIN5</i>	LINC01278	0.426418246	5.89E-18	Positive
<i>NCBP1</i>	LINC01278	0.442617168	2.25E-19	Positive
<i>NCBP2</i>	AP000873.2	0.531712375	1.11E-28	Positive
<i>NCBP2</i>	AC008969.1	0.512977241	1.72E-26	Positive
<i>NCBP2</i>	AC127024.5	0.558522632	4.62E-32	Positive
<i>NCBP2</i>	VPS9D1-AS1	0.424779629	8.12E-18	Positive
<i>AGO2</i>	VPS9D1-AS1	0.406590798	2.54E-16	Positive
<i>NCBP3</i>	CTBP1-AS	0.447828243	7.58E-20	Positive
<i>NCBP2</i>	Z95115.1	0.492807588	2.80E-24	Positive
<i>NCBP2</i>	AL353801.1	0.412824663	7.99E-17	Positive

<i>NCBP2</i>	AC010201.2	0.463145071	2.78E-21	Positive
<i>NCBP2</i>	AC091057.1	0.543836258	3.58E-30	Positive
<i>CYFIP1</i>	AC091057.1	0.438349411	5.41E-19	Positive
<i>GEMIN5</i>	AC091057.1	0.419649049	2.19E-17	Positive
<i>AGO2</i>	AC091057.1	0.414212864	6.15E-17	Positive
<i>NCBP1</i>	AC091057.1	0.550085954	5.78E-31	Positive
<i>NCBP3</i>	AC091057.1	0.494237445	1.97E-24	Positive
<i>NCBP2</i>	AC006504.7	0.517709584	4.96E-27	Positive
<i>NCBP2</i>	AC004076.2	0.503810867	1.82E-25	Positive
<i>AGO2</i>	AC004076.2	0.436025745	8.68E-19	Positive
<i>NCBP3</i>	AC004076.2	0.435137961	1.04E-18	Positive
<i>NCBP1</i>	AC012313.1	0.414989466	5.31E-17	Positive
<i>NCBP2</i>	AC107375.1	0.447258573	8.55E-20	Positive
<i>AGO2</i>	AC107375.1	0.567263121	3.12E-33	Positive
<i>NCBP2</i>	AC126118.1	0.467429313	1.07E-21	Positive
<i>NCBP2</i>	GPRC5D-AS1	0.473904736	2.46E-22	Positive
<i>EIF4E2</i>	GPRC5D-AS1	0.488631065	7.70E-24	Positive
<i>NCBP2</i>	AC013403.2	0.418266749	2.85E-17	Positive
<i>EIF4E2</i>	AL121899.1	0.454640963	1.78E-20	Positive
<i>NCBP2</i>	CAPN10-DT	0.598686239	9.66E-38	Positive
<i>NCBP2</i>	AL671710.1	0.434063371	1.29E-18	Positive
<i>CYFIP1</i>	AC002091.1	0.401792499	6.08E-16	Positive
<i>NCBP2</i>	AC139768.1	0.463526471	2.55E-21	Positive
<i>NCBP2</i>	AL031186.1	0.47959408	6.57E-23	Positive
<i>NCBP2</i>	AC124045.1	0.521531871	1.79E-27	Positive
<i>NCBP1</i>	AC124045.1	0.413490602	7.05E-17	Positive
<i>NCBP3</i>	AC124045.1	0.472677739	3.25E-22	Positive
<i>NCBP2</i>	LINC00665	0.575382229	2.37E-34	Positive
<i>NCBP2</i>	AL358472.3	0.406478416	2.59E-16	Positive
<i>AGO2</i>	WASHC5-AS1	0.402910884	4.97E-16	Positive
<i>NCBP2</i>	LINC00342	0.482379118	3.42E-23	Positive
<i>NCBP3</i>	LINC00342	0.434063513	1.29E-18	Positive

<i>NCBP2</i>	SNHG1	0.6513797	1.58E-46	Positive
<i>AGO2</i>	SNHG1	0.514692702	1.10E-26	Positive
<i>NCBP2</i>	AC002398.1	0.419655163	2.19E-17	Positive
<i>LARP1</i>	MKLN1-AS	0.423187356	1.11E-17	Positive
<i>GEMIN5</i>	MKLN1-AS	0.472552828	3.35E-22	Positive
<i>NCBP2</i>	SBF2-AS1	0.513866075	1.37E-26	Positive
<i>CYFIP1</i>	AC245060.2	0.4214058	1.56E-17	Positive
<i>NCBP1</i>	AC245060.2	0.435426291	9.80E-19	Positive
<i>NCBP3</i>	AC245060.2	0.418394774	2.78E-17	Positive
<i>NCBP2</i>	AC008870.2	0.45917372	6.65E-21	Positive
<i>NCBP2</i>	AC004801.6	0.439098938	4.64E-19	Positive
<i>NCBP2</i>	AC092614.1	0.444215347	1.62E-19	Positive
<i>CYFIP1</i>	AC092614.1	0.445906947	1.14E-19	Positive
<i>LARP1</i>	AC092614.1	0.452902696	2.58E-20	Positive
<i>GEMIN5</i>	AC092614.1	0.444947688	1.39E-19	Positive
<i>AGO2</i>	AC092614.1	0.421185598	1.63E-17	Positive
<i>NCBP1</i>	AC092614.1	0.471727054	4.04E-22	Positive
<i>NCBP2</i>	AL050341.2	0.47436087	2.21E-22	Positive
<i>NCBP1</i>	AL050341.2	0.450536318	4.28E-20	Positive
<i>NCBP2</i>	AC012073.1	0.425189376	7.49E-18	Positive
<i>CYFIP1</i>	AC138028.4	0.476816058	1.25E-22	Positive
<i>NCBP3</i>	AC138028.4	0.409925973	1.37E-16	Positive
<i>NCBP2</i>	AC016394.2	0.574188316	3.48E-34	Positive
<i>NCBP2</i>	AC018904.1	0.469134895	7.27E-22	Positive
<i>NCBP2</i>	AC021321.1	0.498136571	7.53E-25	Positive
<i>NCBP2</i>	AC099778.1	0.420651556	1.81E-17	Positive
<i>GEMIN5</i>	AC098484.1	0.49845111	6.97E-25	Positive
<i>NCBP1</i>	AC098484.1	0.412148875	9.06E-17	Positive
<i>LARP1</i>	STARD4-AS1	0.435849506	8.99E-19	Positive
<i>NCBP3</i>	STARD4-AS1	0.417180582	3.51E-17	Positive
<i>GEMIN5</i>	HCG15	0.437866202	5.97E-19	Positive
<i>EIF4E2</i>	MIR4435-2HG	0.455047257	1.63E-20	Positive

<i>AGO2</i>	OTUD6B-AS1	0.405579648	3.06E-16	Positive
<i>NCBP2</i>	AP001107.4	0.405815486	2.93E-16	Positive
<i>EIF4E2</i>	AC027644.3	0.462235859	3.39E-21	Positive
<i>LARP1</i>	CDC37L1-DT	-0.419064626	2.45E-17	Negative
<i>NCBP2</i>	AC092301.1	0.420544517	1.84E-17	Positive
<i>AGO2</i>	AC092301.1	0.416643507	3.89E-17	Positive
<i>LARP1</i>	AC021078.1	0.419872635	2.10E-17	Positive
<i>NCBP2</i>	AL159169.2	0.400901324	7.14E-16	Positive
<i>NCBP2</i>	AC011921.1	0.480850597	4.90E-23	Positive
<i>NCBP2</i>	GEMIN7-AS1	0.468850583	7.75E-22	Positive
<i>NCBP2</i>	AC092953.2	0.475919405	1.54E-22	Positive
<i>NCBP2</i>	INE1	0.415506637	4.82E-17	Positive
<i>NCBP3</i>	INE1	0.403421935	4.53E-16	Positive
<i>NCBP3</i>	AC005519.1	0.458370063	7.92E-21	Positive
<i>NCBP3</i>	AC084018.1	0.432579032	1.74E-18	Positive
<i>NCBP2</i>	AL137058.2	0.425182853	7.50E-18	Positive
<i>NCBP1</i>	AL137058.2	0.42762222	4.65E-18	Positive
<i>NCBP2</i>	AC232271.1	0.462269859	3.37E-21	Positive
<i>NCBP3</i>	AC232271.1	0.432131465	1.90E-18	Positive
<i>NCBP2</i>	PRKAR1B-AS2	0.400486399	7.70E-16	Positive
<i>CYFIP1</i>	MAP3K14-AS1	0.46789599	9.61E-22	Positive
<i>NCBP1</i>	MAP3K14-AS1	0.415173466	5.13E-17	Positive
<i>NCBP2</i>	TRAF3IP2-AS1	0.550881293	4.57E-31	Positive
<i>GEMIN5</i>	TRAF3IP2-AS1	0.433899606	1.33E-18	Positive
<i>NCBP1</i>	TRAF3IP2-AS1	0.522238099	1.48E-27	Positive
<i>NCBP3</i>	TRAF3IP2-AS1	0.463828531	2.39E-21	Positive
<i>LARP1</i>	AC068580.1	0.438904983	4.83E-19	Positive
<i>NCBP2</i>	MIATNB	0.402943693	4.94E-16	Positive
<i>CYFIP1</i>	LINC02331	0.514335812	1.21E-26	Positive
<i>GEMIN5</i>	AC120114.1	0.479527107	6.68E-23	Positive
<i>NCBP1</i>	AC120114.1	0.486174748	1.39E-23	Positive
<i>CYFIP1</i>	PPIC-AS1	0.435145252	1.04E-18	Positive

<i>NCBP2</i>	AC012467.2	0.46160871	3.90E-21	Positive
<i>AGO2</i>	AC012467.2	0.408841194	1.68E-16	Positive
<i>NCBP1</i>	AC012467.2	0.450128305	4.66E-20	Positive
<i>CYFIP1</i>	EBLN3P	0.450380082	4.42E-20	Positive
<i>GEMIN5</i>	EBLN3P	0.404274996	3.88E-16	Positive
<i>NCBP1</i>	EBLN3P	0.621434904	2.49E-41	Positive
<i>NCBP2</i>	AC093227.1	0.467458435	1.06E-21	Positive
<i>NCBP1</i>	AC093227.1	0.492120448	3.31E-24	Positive
<i>NCBP3</i>	AC093227.1	0.497977399	7.84E-25	Positive
<i>NCBP2</i>	AC092119.2	0.407186871	2.28E-16	Positive
<i>NCBP2</i>	AL049539.1	0.490975529	4.37E-24	Positive
<i>NCBP2</i>	DDX11-AS1	0.489551316	6.17E-24	Positive
<i>NCBP1</i>	DDX11-AS1	0.4373892	6.58E-19	Positive
<i>NCBP2</i>	SNHG14	0.529058273	2.32E-28	Positive
<i>LARP1</i>	SNHG14	0.414088923	6.30E-17	Positive
<i>AGO2</i>	SNHG14	0.48874364	7.50E-24	Positive
<i>CYFIP1</i>	NNT-AS1	0.412889798	7.89E-17	Positive
<i>NCBP1</i>	AL354733.3	0.428446441	3.95E-18	Positive
<i>NCBP2</i>	WAC-AS1	0.562094224	1.55E-32	Positive
<i>GEMIN5</i>	WAC-AS1	0.408788982	1.69E-16	Positive
<i>NCBP2</i>	AC107959.3	0.419838947	2.11E-17	Positive
<i>CYFIP1</i>	AC107959.3	0.442171003	2.47E-19	Positive
<i>NCBP2</i>	THUMPD3-AS1	0.557288366	6.71E-32	Positive
<i>AGO2</i>	AP002907.1	0.457739566	9.09E-21	Positive
<i>CYFIP1</i>	ANKRD10-IT1	0.401446008	6.48E-16	Positive
<i>NCBP3</i>	ANKRD10-IT1	0.479145753	7.30E-23	Positive
<i>NCBP2</i>	CHROMR	0.423178829	1.11E-17	Positive
<i>NCBP3</i>	CHROMR	0.412833989	7.97E-17	Positive
<i>CYFIP1</i>	LINC01521	0.511698806	2.40E-26	Positive
<i>NCBP2</i>	TMED2-DT	0.407350573	2.21E-16	Positive
<i>NCBP2</i>	AC093788.1	0.428446915	3.95E-18	Positive
<i>CYFIP1</i>	HCG11	0.404375606	3.81E-16	Positive

<i>EIF4E2</i>	GIHCG	0.496779741	1.05E-24	Positive
<i>NCBP2</i>	SNHG3	0.484553758	2.04E-23	Positive
<i>NCBP2</i>	MIR222HG	0.425163192	7.53E-18	Positive
<i>NCBP3</i>	MIR222HG	0.472054675	3.75E-22	Positive
<i>LARP1</i>	AC027682.6	-0.411960461	9.39E-17	Negative
<i>EIF4E2</i>	PANK2-AS1	0.407318284	2.22E-16	Positive
<i>GEMIN5</i>	AC022211.3	0.459998862	5.55E-21	Positive
<i>EIF4E2</i>	AC012063.1	0.420436964	1.88E-17	Positive
<i>NCBP2</i>	AC048341.2	0.484478499	2.08E-23	Positive
<i>CYFIP1</i>	AC024075.1	0.489882428	5.70E-24	Positive
<i>LARP1</i>	AC024075.1	0.441196319	3.02E-19	Positive
<i>NCBP3</i>	AC024075.1	0.407909071	1.99E-16	Positive
<i>EIF4E2</i>	RPARP-AS1	0.426313423	6.01E-18	Positive
<i>NCBP2</i>	SNHG20	0.57080132	1.02E-33	Positive
<i>NCBP2</i>	AC073254.1	0.403509133	4.46E-16	Positive
<i>LARP1</i>	AC073254.1	0.487648341	9.76E-24	Positive
<i>GEMIN5</i>	AC073254.1	0.50104293	3.65E-25	Positive
<i>AGO2</i>	AC073254.1	0.418363815	2.80E-17	Positive
<i>NCBP1</i>	AC073254.1	0.410364197	1.26E-16	Positive
<i>NCBP2</i>	ASH1L-AS1	0.553140205	2.33E-31	Positive
<i>NCBP2</i>	LINC01948	0.402139652	5.71E-16	Positive
<i>NCBP2</i>	AL031985.3	0.501319382	3.40E-25	Positive
<i>GEMIN5</i>	AL031985.3	0.452524945	2.80E-20	Positive
<i>NCBP1</i>	AC011451.1	0.417067015	3.59E-17	Positive
<i>NCBP3</i>	AC011451.1	0.436025033	8.68E-19	Positive
<i>NCBP2</i>	AC005253.1	0.434437748	1.20E-18	Positive
<i>NCBP1</i>	AC005253.1	0.418770509	2.59E-17	Positive
<i>NCBP3</i>	AC005253.1	0.449938617	4.86E-20	Positive
<i>NCBP2</i>	LINC02449	0.537164352	2.41E-29	Positive
<i>NCBP2</i>	CD27-AS1	0.505497134	1.18E-25	Positive
<i>NCBP2</i>	ZNF529-AS1	0.494174186	2.00E-24	Positive
<i>EIF4E2</i>	ZNF529-AS1	0.40259311	5.26E-16	Positive

<i>CYFIP1</i>	AC073046.1	0.532377	9.24E-29	Positive
<i>LARP1</i>	AC073046.1	0.498641978	6.64E-25	Positive
<i>GEMIN5</i>	AC073046.1	0.455705285	1.41E-20	Positive
<i>NCBP1</i>	AC073046.1	0.43833616	5.43E-19	Positive
<i>CYFIP1</i>	AC008764.2	0.444062104	1.67E-19	Positive
<i>LARP1</i>	AC008764.2	0.429189475	3.41E-18	Positive
<i>NCBP3</i>	AC008764.2	0.438922908	4.81E-19	Positive
<i>NCBP2</i>	AC004923.4	0.448259926	6.92E-20	Positive
<i>NCBP2</i>	SCAT2	0.539933125	1.10E-29	Positive
<i>NCBP2</i>	AL133215.2	0.461010314	4.45E-21	Positive
<i>NCBP2</i>	ZNF528-AS1	0.403947866	4.12E-16	Positive
<i>NCBP3</i>	KIF1C-AS1	0.444257598	1.60E-19	Positive
<i>NCBP2</i>	MED8-AS1	0.510524044	3.26E-26	Positive
<i>LARP1</i>	AC005586.1	0.437859349	5.98E-19	Positive
<i>CYFIP1</i>	AP003392.1	0.460829094	4.63E-21	Positive
<i>NCBP2</i>	AC234582.1	0.433655311	1.40E-18	Positive
<i>NCBP2</i>	AL117379.1	0.454430237	1.86E-20	Positive
<i>CYFIP1</i>	AC115618.2	0.501290455	3.43E-25	Positive
<i>NCBP2</i>	AL590652.1	0.418714676	2.62E-17	Positive
<i>NCBP2</i>	AC007066.2	0.592053104	9.51E-37	Positive
<i>AGO2</i>	AC007066.2	0.419534881	2.24E-17	Positive
<i>NCBP1</i>	AC007066.2	0.479559129	6.63E-23	Positive
<i>NCBP3</i>	AC007066.2	0.483573104	2.58E-23	Positive
<i>NCBP2</i>	TMCC1-AS1	0.50556917	1.16E-25	Positive
<i>GEMIN5</i>	TMCC1-AS1	0.406829329	2.43E-16	Positive
<i>NCBP2</i>	FAM111A-DT	0.504113906	1.68E-25	Positive
<i>CYFIP1</i>	FAM111A-DT	0.537450614	2.23E-29	Positive
<i>GEMIN5</i>	FAM111A-DT	0.448295007	6.87E-20	Positive
<i>NCBP1</i>	FAM111A-DT	0.437356509	6.62E-19	Positive
<i>NCBP2</i>	AC010319.4	0.416902311	3.70E-17	Positive
<i>CYFIP1</i>	AC145098.1	0.425578928	6.94E-18	Positive
<i>NCBP2</i>	ZNF674-AS1	0.420876772	1.73E-17	Positive

<i>NCBP3</i>	ZNF674-AS1	0.448011208	7.30E-20	Positive
<i>CYFIP1</i>	AL122035.1	0.512554363	1.92E-26	Positive
<i>EIF4E2</i>	IDH1-AS1	0.552419703	2.89E-31	Positive
<i>AGO2</i>	AL158212.3	0.439601003	4.19E-19	Positive
<i>GEMIN5</i>	AC067852.2	0.487282632	1.07E-23	Positive
<i>NCBP3</i>	AC008982.2	0.415232726	5.08E-17	Positive
<i>CYFIP1</i>	AC007731.2	0.406734446	2.47E-16	Positive
<i>NCBP1</i>	AC007731.2	0.453564781	2.24E-20	Positive
<i>NCBP3</i>	AC007731.2	0.405354189	3.18E-16	Positive
<i>NCBP2</i>	AC095057.3	0.449518585	5.31E-20	Positive
<i>CYFIP1</i>	AC124312.3	0.415671377	4.67E-17	Positive
<i>LARP1</i>	AC124312.3	0.445127036	1.34E-19	Positive
<i>AGO2</i>	AC124312.3	0.41117369	1.09E-16	Positive
<i>NCBP2</i>	DGUOK-AS1	0.479046809	7.47E-23	Positive
<i>LARP1</i>	AP001318.2	0.403380045	4.56E-16	Positive
<i>NCBP3</i>	AL513534.2	0.433911376	1.33E-18	Positive
<i>NCBP2</i>	AL356481.1	0.557168094	6.96E-32	Positive
<i>AGO2</i>	AL356481.1	0.408902349	1.66E-16	Positive
<i>NCBP1</i>	AL356481.1	0.457107276	1.04E-20	Positive
<i>NCBP2</i>	PTOV1-AS1	0.566876202	3.52E-33	Positive
<i>NCBP1</i>	PTOV1-AS1	0.498742362	6.48E-25	Positive
<i>NCBP2</i>	SNHG4	0.619629133	4.92E-41	Positive
<i>LARP1</i>	SNHG4	0.493689741	2.26E-24	Positive
<i>GEMIN5</i>	SNHG4	0.536475944	2.93E-29	Positive
<i>AGO2</i>	SNHG4	0.441246226	2.99E-19	Positive
<i>NCBP2</i>	AC009120.2	0.428234995	4.12E-18	Positive
<i>NCBP1</i>	AL355075.2	0.410948812	1.13E-16	Positive
<i>NCBP3</i>	AL355075.2	0.467820794	9.78E-22	Positive
<i>GEMIN5</i>	AP001372.2	0.410026218	1.35E-16	Positive
<i>NCBP1</i>	AP001372.2	0.414335499	6.01E-17	Positive
<i>NCBP2</i>	LINC00653	0.50289908	2.29E-25	Positive
<i>NCBP2</i>	AC022167.2	0.441773548	2.68E-19	Positive

<i>NCBP2</i>	LINC02802	0.463807903	2.40E-21	Positive
<i>NCBP2</i>	AL592435.1	0.4609031	4.55E-21	Positive
<i>NCBP2</i>	LINC00205	0.599812951	6.52E-38	Positive
<i>NCBP1</i>	LINC00205	0.426395894	5.92E-18	Positive
<i>NCBP2</i>	AC015961.2	0.471703777	4.06E-22	Positive
<i>NCBP2</i>	AC010536.1	0.433593435	1.42E-18	Positive
<i>EIF4E2</i>	AC046143.2	0.43104932	2.36E-18	Positive
<i>NCBP2</i>	AC007996.1	0.449939017	4.86E-20	Positive
<i>NCBP2</i>	AL353708.3	0.415106255	5.20E-17	Positive
<i>NCBP2</i>	AC112220.2	0.461096484	4.36E-21	Positive
<i>NCBP1</i>	AC112220.2	0.464777684	1.93E-21	Positive
<i>NCBP2</i>	AC102953.2	0.478905743	7.72E-23	Positive
<i>LARP1</i>	AC102953.2	0.411128619	1.10E-16	Positive
<i>AGO2</i>	AC102953.2	0.470870472	4.91E-22	Positive
<i>NCBP2</i>	AL355574.1	0.435967798	8.78E-19	Positive
<i>GEMIN5</i>	AL606489.1	0.424448725	8.66E-18	Positive
<i>NCBP1</i>	AL606489.1	0.495609001	1.41E-24	Positive
<i>NCBP2</i>	AC112907.3	0.440221788	3.69E-19	Positive
<i>NCBP2</i>	AC016065.1	0.535724338	3.62E-29	Positive
<i>NCBP1</i>	AC016065.1	0.402481123	5.37E-16	Positive
<i>NCBP2</i>	LINC01106	0.525333511	6.41E-28	Positive
<i>NCBP2</i>	AC093297.2	0.408654885	1.74E-16	Positive
<i>LARP1</i>	AC093297.2	0.470594881	5.22E-22	Positive
<i>NCBP3</i>	AC093297.2	0.440891835	3.21E-19	Positive
<i>NCBP2</i>	SREBF2-AS1	0.434797027	1.11E-18	Positive
<i>AGO2</i>	SREBF2-AS1	0.410063792	1.34E-16	Positive
<i>EIF4E2</i>	SREBF2-AS1	0.402488467	5.36E-16	Positive
<i>NCBP2</i>	NIFK-AS1	0.571558584	8.06E-34	Positive
<i>NCBP2</i>	SNHG26	0.479449986	6.80E-23	Positive
<i>NCBP2</i>	LINC00941	0.445653782	1.20E-19	Positive
<i>CYFIP1</i>	AC245041.2	0.403779189	4.24E-16	Positive
<i>NCBP2</i>	AL355102.4	0.475083678	1.87E-22	Positive

<i>NCBP3</i>	AC004148.1	0.578647006	8.26E-35	Positive
<i>NCBP2</i>	AC253576.2	0.457658932	9.25E-21	Positive
<i>AGO2</i>	AC069234.5	0.435123676	1.04E-18	Positive
<i>NCBP1</i>	AC109460.2	0.45693722	1.08E-20	Positive
<i>NCBP3</i>	AC109460.2	0.401176232	6.80E-16	Positive
<i>NCBP2</i>	AP001469.2	0.518365951	4.17E-27	Positive
<i>CYFIP1</i>	AP001469.2	0.43074723	2.50E-18	Positive
<i>LARP1</i>	AP001469.2	0.470216918	5.69E-22	Positive
<i>GEMIN5</i>	AP001469.2	0.407201958	2.27E-16	Positive
<i>AGO2</i>	AP001469.2	0.488466576	8.02E-24	Positive
<i>NCBP1</i>	AP001469.2	0.430644006	2.56E-18	Positive
<i>CYFIP1</i>	AC009120.3	0.489543861	6.18E-24	Positive
<i>EIF4E2</i>	AC022007.1	0.41069178	1.19E-16	Positive
<i>NCBP2</i>	PTOV1-AS2	0.450923993	3.94E-20	Positive
<i>NCBP1</i>	PTOV1-AS2	0.402911071	4.97E-16	Positive
<i>NCBP2</i>	AC083799.1	0.529562063	2.02E-28	Positive
<i>NCBP2</i>	AC090181.2	0.436161718	8.44E-19	Positive
<i>NCBP2</i>	AC007383.1	0.448934534	6.01E-20	Positive
<i>NCBP3</i>	AC007383.1	0.442353493	2.38E-19	Positive
<i>GEMIN5</i>	AC005670.3	0.480403805	5.44E-23	Positive
<i>NCBP1</i>	AC005670.3	0.419020365	2.47E-17	Positive
<i>NCBP2</i>	AP001628.1	0.404244532	3.90E-16	Positive
<i>NCBP2</i>	THAP9-AS1	0.506474322	9.23E-26	Positive
<i>NCBP2</i>	MELTF-AS1	0.564431406	7.54E-33	Positive
<i>NCBP2</i>	ABALON	0.444418064	1.55E-19	Positive
<i>CYFIP1</i>	ABALON	0.620784227	3.19E-41	Positive
<i>LARP1</i>	ABALON	0.433721482	1.38E-18	Positive
<i>GEMIN5</i>	ABALON	0.406382076	2.64E-16	Positive
<i>NCBP3</i>	ABALON	0.42081727	1.75E-17	Positive
<i>NCBP2</i>	AL121772.3	0.493574282	2.32E-24	Positive
<i>NCBP2</i>	AP001469.3	0.546666357	1.58E-30	Positive
<i>AGO2</i>	AP001469.3	0.434865932	1.10E-18	Positive

<i>EIF4E2</i>	AP001469.3	0.429922938	2.95E-18	Positive
<i>NCBP2</i>	AC018690.1	0.456753717	1.13E-20	Positive
<i>LARP1</i>	AC018690.1	0.43172292	2.06E-18	Positive
<i>GEMIN5</i>	AC018690.1	0.428424564	3.97E-18	Positive
<i>AGO2</i>	AC018690.1	0.413491744	7.05E-17	Positive
<i>NCBP1</i>	AC018690.1	0.47935206	6.96E-23	Positive
<i>NCBP3</i>	AC018690.1	0.437821159	6.03E-19	Positive
<i>NCBP3</i>	AC093752.1	0.412371918	8.69E-17	Positive
<i>GEMIN5</i>	AC004943.2	0.40100899	7.01E-16	Positive
<i>NCBP1</i>	AC004943.2	0.478882536	7.76E-23	Positive
<i>NCBP2</i>	BACE1-AS	0.583902641	1.47E-35	Positive
<i>AGO2</i>	BACE1-AS	0.505078976	1.32E-25	Positive
<i>NCBP2</i>	AC010326.3	0.486180331	1.39E-23	Positive
<i>AGO2</i>	AC010326.3	0.406458454	2.60E-16	Positive
<i>NCBP2</i>	UBR5-AS1	0.41770835	3.17E-17	Positive
<i>AGO2</i>	UBR5-AS1	0.551741478	3.54E-31	Positive
<i>NCBP1</i>	AL603839.2	0.440700005	3.34E-19	Positive
<i>NCBP2</i>	LINC02041	0.401247185	6.71E-16	Positive
<i>CYFIP1</i>	PAXIP1-AS2	0.537892109	1.96E-29	Positive
<i>EIF4E2</i>	CYTOR	0.509869629	3.86E-26	Positive
<i>AGO2</i>	AC022210.1	0.414101995	6.28E-17	Positive
<i>NCBP2</i>	AL008721.2	0.554893473	1.38E-31	Positive
<i>AGO2</i>	AL008721.2	0.438958472	4.78E-19	Positive
<i>NCBP1</i>	AL008721.2	0.410987825	1.13E-16	Positive
<i>NCBP2</i>	AP005136.3	0.402425783	5.43E-16	Positive
<i>NCBP1</i>	AP005136.3	0.487609119	9.85E-24	Positive
<i>NCBP2</i>	NCK1-DT	0.536309484	3.07E-29	Positive
<i>NCBP3</i>	AL139349.1	0.448996676	5.93E-20	Positive
<i>CYFIP1</i>	AC009053.2	0.493361651	2.44E-24	Positive
<i>GEMIN5</i>	AC009053.2	0.406251289	2.70E-16	Positive
<i>NCBP1</i>	AC009053.2	0.425837247	6.60E-18	Positive
<i>NCBP2</i>	AL031714.1	0.406340426	2.66E-16	Positive

<i>NCBP1</i>	AL031714.1	0.448978354	5.95E-20	Positive
<i>NCBP3</i>	AL031714.1	0.450688128	4.14E-20	Positive
<i>NCBP2</i>	AL096701.3	0.429956273	2.93E-18	Positive
<i>EIF4E2</i>	TRIM52-AS1	0.462582923	3.14E-21	Positive
<i>CYFIP1</i>	TAPT1-AS1	0.405118385	3.32E-16	Positive
<i>NCBP2</i>	RNF216P1	0.531856168	1.07E-28	Positive
<i>LARP1</i>	RNF216P1	0.475795539	1.59E-22	Positive
<i>GEMIN5</i>	RNF216P1	0.437383671	6.59E-19	Positive
<i>AGO2</i>	RNF216P1	0.441172215	3.03E-19	Positive
<i>NCBP2</i>	PAN3-AS1	0.42510735	7.61E-18	Positive
<i>EIF4E3</i>	AC004067.1	0.42558598	6.93E-18	Positive
<i>NCBP3</i>	AC004067.1	0.428496301	3.91E-18	Positive
<i>CYFIP1</i>	AL031282.2	0.448411726	6.71E-20	Positive
<i>NCBP2</i>	LINC02019	0.451367608	3.58E-20	Positive
<i>NCBP2</i>	HMGN3-AS1	0.516724582	6.44E-27	Positive
<i>NCBP2</i>	AC048341.1	0.403504297	4.46E-16	Positive
<i>NCBP2</i>	AF131215.5	0.447140952	8.76E-20	Positive
<i>CYFIP1</i>	AF131215.5	0.460770812	4.69E-21	Positive
<i>NCBP2</i>	AC034229.4	0.4621819	3.43E-21	Positive
<i>NCBP2</i>	TBC1D8-AS1	0.468028954	9.33E-22	Positive
<i>GEMIN5</i>	TBC1D8-AS1	0.412809276	8.01E-17	Positive
<i>NCBP2</i>	AL035071.1	0.436851392	7.34E-19	Positive
<i>CYFIP1</i>	AL109614.1	0.401737645	6.14E-16	Positive
<i>CYFIP1</i>	AL031846.2	0.418916762	2.52E-17	Positive
<i>NCBP2</i>	AL731569.1	0.444604635	1.49E-19	Positive
<i>NCBP2</i>	AC006064.3	0.410859856	1.15E-16	Positive
<i>LARP1</i>	AC008443.1	0.464580317	2.02E-21	Positive
<i>GEMIN5</i>	AC008443.1	0.480974623	4.76E-23	Positive
<i>EIF4E2</i>	AP001505.1	0.449364452	5.48E-20	Positive
<i>EIF4E2</i>	AL390195.2	0.426445569	5.86E-18	Positive
<i>NCBP2</i>	AC010834.3	0.478136788	9.24E-23	Positive
<i>CYFIP1</i>	AC010834.3	0.479369844	6.93E-23	Positive

<i>LARP1</i>	AC010834.3	0.452041771	3.10E-20	Positive
<i>GEMIN5</i>	AC010834.3	0.430933664	2.41E-18	Positive
<i>AGO2</i>	AC010834.3	0.470367549	5.50E-22	Positive
<i>NCBP1</i>	AC010834.3	0.491011651	4.33E-24	Positive
<i>NCBP3</i>	AC010834.3	0.494030754	2.08E-24	Positive
<i>CYFIP1</i>	NORAD	0.473096458	2.95E-22	Positive
<i>LARP1</i>	NORAD	0.467366793	1.08E-21	Positive
<i>GEMIN5</i>	NORAD	0.443174818	2.01E-19	Positive
<i>NCBP3</i>	NORAD	0.473371364	2.77E-22	Positive
<i>NCBP2</i>	AL512770.1	0.454036976	2.02E-20	Positive
<i>AGO2</i>	AL512770.1	0.45346116	2.29E-20	Positive
<i>NCBP3</i>	AL512770.1	0.4376671	6.22E-19	Positive
<i>NCBP2</i>	ZBTB11-AS1	0.51716615	5.73E-27	Positive
<i>GEMIN5</i>	SNHG16	0.500595211	4.08E-25	Positive
<i>NCBP2</i>	U47924.3	0.415664719	4.68E-17	Positive
<i>NCBP2</i>	AC004812.2	0.545873808	1.99E-30	Positive
<i>AGO2</i>	ERICD	0.451472542	3.50E-20	Positive
<i>NCBP3</i>	AC087500.1	0.496343145	1.17E-24	Positive
<i>EIF4E2</i>	AC010969.2	0.546325455	1.74E-30	Positive
<i>NCBP3</i>	Z83843.1	0.438248115	5.52E-19	Positive
<i>NCBP2</i>	GARS1-DT	0.404356163	3.82E-16	Positive
<i>NCBP2</i>	LINC01011	0.472183192	3.64E-22	Positive
<i>NCBP2</i>	AC109449.1	0.404804248	3.52E-16	Positive
<i>NCBP2</i>	AC116351.1	0.452967998	2.55E-20	Positive
<i>NCBP2</i>	AC005261.1	0.492712045	2.86E-24	Positive
<i>AGO2</i>	AC005261.1	0.426364977	5.95E-18	Positive
<i>NCBP2</i>	TMCO1-AS1	0.4300029	2.90E-18	Positive
<i>GEMIN5</i>	TMCO1-AS1	0.473499659	2.69E-22	Positive
<i>NCBP1</i>	TMCO1-AS1	0.407951943	1.98E-16	Positive
<i>NCBP2</i>	RNASEH1-AS1	0.423045137	1.14E-17	Positive
<i>NCBP2</i>	OSMR-AS1	0.41217896	9.01E-17	Positive
<i>NCBP2</i>	AC046143.1	0.443874759	1.73E-19	Positive

<i>NCBP2</i>	LINC00641	0.467727496	9.98E-22	Positive
<i>AGO2</i>	LINC00641	0.444338053	1.57E-19	Positive
<i>NCBP1</i>	LINC00641	0.467073963	1.16E-21	Positive
<i>NCBP3</i>	LINC00641	0.413443604	7.11E-17	Positive
<i>NCBP2</i>	AC027097.1	0.56943116	1.58E-33	Positive
<i>GEMIN5</i>	AC027097.1	0.421031715	1.68E-17	Positive
<i>AGO2</i>	AC027097.1	0.417231615	3.47E-17	Positive
<i>NCBP2</i>	AL161452.1	0.428819086	3.67E-18	Positive
<i>NCBP3</i>	AL132989.1	0.441458953	2.86E-19	Positive
<i>NCBP2</i>	AC026401.3	0.465812955	1.53E-21	Positive
<i>EIF4E2</i>	AC026401.3	0.440005501	3.86E-19	Positive
<i>CYFIP1</i>	TRAPPC12-AS1	0.431902487	1.99E-18	Positive
<i>NCBP2</i>	AP000759.1	0.425725863	6.75E-18	Positive
<i>CYFIP1</i>	AP000759.1	0.420037586	2.03E-17	Positive
<i>AGO2</i>	AP002449.1	0.423968554	9.51E-18	Positive
<i>NCBP2</i>	NUTM2B-AS1	0.489097612	6.89E-24	Positive
<i>AGO2</i>	NUTM2B-AS1	0.406662999	2.51E-16	Positive
<i>NCBP3</i>	N4BP2L2-IT2	0.418873497	2.54E-17	Positive
<i>NCBP3</i>	AC015849.3	0.411538302	1.02E-16	Positive
<i>EIF4E2</i>	AC112491.1	0.49750765	8.81E-25	Positive
<i>NCBP3</i>	PSMA3-AS1	0.524626209	7.77E-28	Positive
<i>NCBP2</i>	LINC02709	0.475022056	1.90E-22	Positive
<i>GEMIN5</i>	LINC02709	0.410018615	1.35E-16	Positive
<i>NCBP2</i>	FBXL19-AS1	0.443310853	1.95E-19	Positive
<i>CYFIP1</i>	FBXL19-AS1	0.492337828	3.14E-24	Positive
<i>LARP1</i>	FBXL19-AS1	0.411259974	1.07E-16	Positive
<i>NCBP2</i>	LINC00265	0.495873106	1.32E-24	Positive
<i>CYFIP1</i>	LINC00265	0.487568102	9.95E-24	Positive
<i>NCBP1</i>	LINC00265	0.423562085	1.03E-17	Positive
<i>NCBP3</i>	LINC00265	0.451959044	3.16E-20	Positive
<i>CYFIP1</i>	AC005034.6	0.418583255	2.69E-17	Positive
<i>LARP1</i>	AC005034.6	0.432561427	1.74E-18	Positive

<i>GEMIN5</i>	AC005034.6	0.430340063	2.72E-18	Positive
<i>NCBP3</i>	AC005034.6	0.413203502	7.44E-17	Positive
<i>NCBP2</i>	AC024060.2	0.417262442	3.45E-17	Positive
<i>NCBP2</i>	AL138756.1	0.402136549	5.72E-16	Positive
<i>NCBP2</i>	TMEM147-AS1	0.539032209	1.42E-29	Positive
<i>NCBP1</i>	TMEM147-AS1	0.407683729	2.08E-16	Positive
<i>EIF4E2</i>	AC135178.6	0.468216623	8.94E-22	Positive
<i>NCBP2</i>	AL157392.3	0.479120045	7.34E-23	Positive
<i>NCBP1</i>	AL157392.3	0.400682073	7.43E-16	Positive
<i>NCBP3</i>	AL157392.3	0.504443172	1.55E-25	Positive
<i>NCBP2</i>	AC006504.5	0.417346532	3.40E-17	Positive
<i>NCBP2</i>	AL008729.1	0.606264413	6.63E-39	Positive
<i>NCBP1</i>	AL008729.1	0.404286384	3.87E-16	Positive
<i>NCBP3</i>	AL008729.1	0.411702857	9.85E-17	Positive
<i>NCBP2</i>	AL161729.4	0.512311663	2.05E-26	Positive
<i>NCBP2</i>	NRSN2-AS1	0.538287066	1.76E-29	Positive
<i>CYFIP1</i>	NRSN2-AS1	0.412132717	9.09E-17	Positive
<i>NCBP1</i>	NRSN2-AS1	0.415380051	4.94E-17	Positive
<i>CYFIP1</i>	AL049840.5	0.508588769	5.37E-26	Positive
<i>LARP1</i>	AL049840.5	0.491487099	3.86E-24	Positive
<i>GEMIN5</i>	AL049840.5	0.428357097	4.02E-18	Positive
<i>AGO2</i>	AL049840.5	0.475859681	1.57E-22	Positive
<i>NCBP1</i>	AL049840.5	0.436752744	7.49E-19	Positive
<i>NCBP3</i>	AL049840.5	0.473908964	2.45E-22	Positive
<i>NCBP2</i>	AC037459.2	0.419698633	2.17E-17	Positive
<i>CYFIP1</i>	AC037459.2	0.422852359	1.18E-17	Positive
<i>NCBP1</i>	AC037459.2	0.529892184	1.84E-28	Positive
<i>NCBP3</i>	AC037459.2	0.430036558	2.88E-18	Positive
<i>NCBP2</i>	CCDC18-AS1	0.431350219	2.22E-18	Positive
<i>NCBP2</i>	AL513218.1	0.425865274	6.56E-18	Positive
<i>NCBP2</i>	AC010761.1	0.548710338	8.66E-31	Positive
<i>AGO2</i>	AC010761.1	0.410345625	1.27E-16	Positive

<i>NCBP2</i>	AL139286.1	0.465918078	1.50E-21	Positive
<i>NCBP1</i>	UBL7-AS1	0.415294858	5.02E-17	Positive
<i>NCBP2</i>	TPT1-AS1	0.454504398	1.83E-20	Positive
<i>AGO2</i>	TPT1-AS1	0.431139163	2.32E-18	Positive
<i>NCBP2</i>	AL592148.3	0.490835955	4.52E-24	Positive
<i>NCBP3</i>	AL592148.3	0.419459856	2.27E-17	Positive
<i>NCBP2</i>	WARS2-AS1	0.540136157	1.04E-29	Positive
<i>CYFIP1</i>	WARS2-AS1	0.446251038	1.06E-19	Positive
<i>GEMIN5</i>	WARS2-AS1	0.426771299	5.50E-18	Positive
<i>NCBP1</i>	WARS2-AS1	0.414727806	5.58E-17	Positive
<i>EIF4E2</i>	AC011468.1	0.446186903	1.07E-19	Positive
<i>CYFIP1</i>	AC115837.1	0.481140608	4.58E-23	Positive
<i>LARP1</i>	AC115837.1	0.455654602	1.43E-20	Positive
<i>GEMIN5</i>	AC115837.1	0.598963752	8.77E-38	Positive
<i>NCBP1</i>	AC115837.1	0.55942784	3.51E-32	Positive
<i>NCBP2</i>	LENG8-AS1	0.553018914	2.42E-31	Positive
<i>CYFIP1</i>	AC091185.1	0.413181055	7.47E-17	Positive
<i>CYFIP1</i>	AC011476.3	0.501492481	3.26E-25	Positive
<i>NCBP2</i>	AL355488.1	0.532883755	8.03E-29	Positive
<i>NCBP2</i>	AC013468.1	0.440919154	3.20E-19	Positive
<i>EIF4E2</i>	AC142472.1	0.408919369	1.65E-16	Positive
<i>EIF4E2</i>	AC138207.2	0.529444957	2.08E-28	Positive
<i>NCBP3</i>	AC104532.2	0.423083402	1.13E-17	Positive
<i>NCBP2</i>	LINC01560	0.418160642	2.91E-17	Positive
<i>CYFIP1</i>	LINC01560	0.45288481	2.59E-20	Positive
<i>GEMIN5</i>	LINC01560	0.412231858	8.92E-17	Positive
<i>NCBP1</i>	LINC01560	0.4891818	6.75E-24	Positive
<i>NCBP2</i>	MRPS30-DT	0.52451025	8.02E-28	Positive
<i>NCBP2</i>	CTBP1-DT	0.415033336	5.27E-17	Positive
<i>CYFIP1</i>	CTBP1-DT	0.441682414	2.73E-19	Positive
<i>LARP1</i>	CTBP1-DT	0.466574249	1.29E-21	Positive
<i>GEMIN5</i>	CTBP1-DT	0.445753952	1.17E-19	Positive

<i>CYFIP1</i>	AC138932.1	0.48748638	1.01E-23	Positive
<i>LARP1</i>	AC138932.1	0.467383548	1.08E-21	Positive
<i>GEMIN5</i>	AC138932.1	0.453236609	2.40E-20	Positive
<i>AGO2</i>	AC138932.1	0.410614122	1.21E-16	Positive
<i>NCBP1</i>	AC138932.1	0.489130948	6.83E-24	Positive
<i>NCBP3</i>	AC138932.1	0.47178108	3.99E-22	Positive
<i>AGO2</i>	AC008735.1	0.406558684	2.55E-16	Positive
<i>NCBP3</i>	AC008735.1	0.416985552	3.64E-17	Positive
<i>NCBP2</i>	AC063948.1	0.406234019	2.71E-16	Positive
<i>NCBP3</i>	AC012615.6	0.464893582	1.88E-21	Positive
<i>NCBP1</i>	LINC01224	0.404372897	3.81E-16	Positive
<i>CYFIP1</i>	OIP5-AS1	0.567808193	2.63E-33	Positive
<i>NCBP2</i>	UBA6-AS1	0.419148024	2.41E-17	Positive
<i>CYFIP1</i>	UBA6-AS1	0.405767587	2.95E-16	Positive
<i>NCBP2</i>	FGD5-AS1	0.441954656	2.58E-19	Positive
<i>CYFIP1</i>	FGD5-AS1	0.539877723	1.12E-29	Positive
<i>LARP1</i>	FGD5-AS1	0.464688379	1.97E-21	Positive
<i>GEMIN5</i>	FGD5-AS1	0.542114224	5.89E-30	Positive
<i>NCBP1</i>	FGD5-AS1	0.567869582	2.58E-33	Positive
<i>NCBP3</i>	FGD5-AS1	0.427392459	4.86E-18	Positive
<i>CYFIP1</i>	Z68871.1	0.539829655	1.13E-29	Positive
<i>LARP1</i>	Z68871.1	0.458579491	7.57E-21	Positive
<i>GEMIN5</i>	Z68871.1	0.471623648	4.14E-22	Positive
<i>NCBP1</i>	Z68871.1	0.504922075	1.37E-25	Positive
<i>LARP1</i>	ZNF346-IT1	0.422277908	1.32E-17	Positive
<i>NCBP2</i>	AL139287.1	0.402198392	5.65E-16	Positive
<i>EIF4E2</i>	AL031673.1	0.454616551	1.79E-20	Positive
<i>NCBP2</i>	AC074117.1	0.466179082	1.41E-21	Positive
<i>NCBP2</i>	AL033384.2	0.45059263	4.23E-20	Positive
<i>AGO2</i>	AL033384.2	0.410073242	1.33E-16	Positive
<i>NCBP2</i>	AC006252.1	0.492178748	3.26E-24	Positive
<i>GEMIN5</i>	AC006252.1	0.401180097	6.79E-16	Positive

<i>NCBP1</i>	AC006252.1	0.400759209	7.33E-16	Positive
<i>NCBP2</i>	AP001432.1	0.445706019	1.18E-19	Positive
<i>NCBP2</i>	SNHG10	0.461693469	3.82E-21	Positive
<i>CYFIP1</i>	AL031600.1	0.421889113	1.42E-17	Positive
<i>NCBP3</i>	ALOX12-AS1	0.49122216	4.12E-24	Positive
<i>NCBP2</i>	ADNP-AS1	0.466868339	1.21E-21	Positive
<i>CYFIP1</i>	AC004596.1	0.574684311	2.97E-34	Positive
<i>LARP1</i>	AC004596.1	0.431684733	2.08E-18	Positive
<i>CYFIP1</i>	AL391121.1	0.40694925	2.38E-16	Positive
<i>NCBP2</i>	AC025176.1	0.442088019	2.51E-19	Positive
<i>NCBP2</i>	AL031670.1	0.4094012	1.51E-16	Positive
<i>CYFIP1</i>	AL031670.1	0.40922422	1.56E-16	Positive
<i>NCBP1</i>	AL031670.1	0.451862616	3.23E-20	Positive
<i>NCBP3</i>	AL031670.1	0.44478977	1.43E-19	Positive
<i>NCBP2</i>	AC008760.1	0.470491423	5.35E-22	Positive
<i>NCBP2</i>	NFYC-AS1	0.41831398	2.83E-17	Positive
<i>CYFIP1</i>	NFYC-AS1	0.403642382	4.35E-16	Positive
<i>NCBP1</i>	NFYC-AS1	0.403467028	4.49E-16	Positive
<i>NCBP2</i>	STARD7-AS1	0.555739253	1.07E-31	Positive
<i>EIF4E2</i>	STARD7-AS1	0.514828286	1.06E-26	Positive
<i>LARP1</i>	AC139795.2	0.403911737	4.14E-16	Positive
<i>NCBP2</i>	SNHG12	0.536928306	2.58E-29	Positive
<i>NCBP2</i>	C2orf27A	0.62618705	4.07E-42	Positive
<i>NCBP3</i>	C2orf27A	0.421220853	1.62E-17	Positive
<i>NCBP2</i>	LINC00630	0.436869587	7.31E-19	Positive
<i>CYFIP1</i>	LINC00630	0.589556429	2.22E-36	Positive
<i>LARP1</i>	LINC00630	0.416547553	3.96E-17	Positive
<i>GEMIN5</i>	LINC00630	0.48255306	3.28E-23	Positive
<i>NCBP1</i>	LINC00630	0.576810552	1.50E-34	Positive
<i>NCBP3</i>	LINC00630	0.452055794	3.09E-20	Positive
<i>NCBP2</i>	RAD51-AS1	0.410134902	1.32E-16	Positive
<i>NCBP2</i>	AC084824.5	0.422426867	1.28E-17	Positive

<i>NCBP2</i>	AC068987.3	0.424634905	8.35E-18	Positive
<i>CYFIP1</i>	AC090559.1	0.553417981	2.15E-31	Positive
<i>EIF4E3</i>	AC090559.1	0.401206317	6.76E-16	Positive
<i>NCBP3</i>	AC090559.1	0.400486254	7.70E-16	Positive
<i>EIF4E3</i>	AC011899.2	0.404249329	3.90E-16	Positive
<i>NCBP2</i>	ZNF32-AS1	0.439206107	4.54E-19	Positive
<i>AGO2</i>	AC020656.2	0.4153881	4.93E-17	Positive
<i>NCBP2</i>	AL356481.3	0.406043624	2.81E-16	Positive
<i>NCBP2</i>	AC080013.3	0.470992294	4.77E-22	Positive
<i>NCBP2</i>	AC006435.2	0.490669997	4.71E-24	Positive
<i>NCBP3</i>	AC006435.2	0.558488796	4.67E-32	Positive
<i>NCBP2</i>	AC010186.3	0.466732866	1.25E-21	Positive
<i>NCBP1</i>	AC010186.3	0.487783426	9.45E-24	Positive
<i>EIF4E2</i>	PXN-AS1	0.530038824	1.77E-28	Positive
<i>CYFIP1</i>	AP005899.1	0.419102198	2.43E-17	Positive
<i>NCBP2</i>	AC145207.5	0.447933768	7.42E-20	Positive
<i>EIF4E2</i>	AC145207.5	0.485440346	1.65E-23	Positive
<i>NCBP2</i>	NUTM2A-AS1	0.536038555	3.32E-29	Positive
<i>GEMIN5</i>	NUTM2A-AS1	0.410187999	1.31E-16	Positive
<i>AGO2</i>	NUTM2A-AS1	0.443640741	1.82E-19	Positive
<i>NCBP3</i>	NUTM2A-AS1	0.405006949	3.39E-16	Positive
<i>GEMIN5</i>	AC114763.1	0.467555139	1.04E-21	Positive
<i>CYFIP1</i>	AL118506.1	0.492935624	2.71E-24	Positive
<i>NCBP1</i>	AL118506.1	0.405257711	3.24E-16	Positive
<i>NCBP2</i>	LINC00662	0.453246437	2.40E-20	Positive
<i>NCBP2</i>	AC004908.3	0.445018396	1.37E-19	Positive
<i>NCBP2</i>	ZNF32-AS2	0.519879639	2.79E-27	Positive
<i>GEMIN5</i>	ZNF32-AS2	0.402035003	5.82E-16	Positive
<i>AGO2</i>	ZNF32-AS2	0.408175808	1.90E-16	Positive
<i>NCBP1</i>	ZNF32-AS2	0.445964088	1.12E-19	Positive
<i>NCBP3</i>	ZNF32-AS2	0.473006082	3.02E-22	Positive
<i>NCBP2</i>	AC125257.1	0.484192437	2.23E-23	Positive

<i>GEMIN5</i>	AC125257.1	0.447598056	7.96E-20	Positive
<i>NCBP2</i>	AC004908.2	0.450038132	4.75E-20	Positive
<i>EIF4E2</i>	ZFAS1	0.423849243	9.73E-18	Positive
<i>NCBP2</i>	AL513320.1	0.438196392	5.58E-19	Positive
<i>NCBP2</i>	AC060766.5	0.407257966	2.25E-16	Positive
<i>CYFIP1</i>	AC060766.5	0.401192801	6.78E-16	Positive
<i>GEMIN5</i>	AC060766.5	0.42866899	3.78E-18	Positive
<i>NCBP2</i>	NOP14-AS1	0.459511892	6.18E-21	Positive
<i>NCBP2</i>	SEC24B-AS1	0.4353471	9.96E-19	Positive
<i>CYFIP1</i>	AC108010.1	0.531329823	1.24E-28	Positive
<i>EIF4E2</i>	AC005261.3	0.463822443	2.39E-21	Positive
<i>NCBP2</i>	AC010168.2	0.446347926	1.04E-19	Positive
<i>NCBP2</i>	AC005332.5	0.423392854	1.06E-17	Positive
<i>NCBP2</i>	AC004803.1	0.444223953	1.61E-19	Positive
<i>NCBP1</i>	AC004803.1	0.435098913	1.05E-18	Positive
<i>EIF4E2</i>	ARF4-AS1	0.416461566	4.02E-17	Positive
<i>NCBP2</i>	AL357079.1	0.452015354	3.12E-20	Positive
<i>CYFIP1</i>	AC010761.3	0.417720475	3.17E-17	Positive
<i>NCBP2</i>	AC010789.1	0.417674265	3.19E-17	Positive
<i>NCBP2</i>	RNF139-AS1	0.534032367	5.83E-29	Positive
<i>AGO2</i>	RNF139-AS1	0.535968894	3.38E-29	Positive
<i>CYFIP1</i>	AC004771.2	0.512265445	2.07E-26	Positive
<i>NCBP3</i>	AC004771.2	0.522147971	1.52E-27	Positive
<i>NCBP2</i>	LINC00294	0.405433756	3.14E-16	Positive
<i>NCBP1</i>	LINC00294	0.407750145	2.05E-16	Positive
<i>NCBP3</i>	LINC00294	0.463964575	2.31E-21	Positive
<i>NCBP2</i>	KANSL1L-AS1	0.442630042	2.25E-19	Positive
<i>NCBP3</i>	KANSL1L-AS1	0.424932517	7.88E-18	Positive
<i>NCBP2</i>	EIF3J-DT	0.479025579	7.51E-23	Positive
<i>CYFIP1</i>	EIF3J-DT	0.490758342	4.61E-24	Positive
<i>NCBP2</i>	AC017083.1	0.556316396	9.00E-32	Positive
<i>EIF4E2</i>	SNHG25	0.463098631	2.80E-21	Positive

<i>NCBP2</i>	AL355388.1	0.581936073	2.82E-35	Positive
<i>NCBP2</i>	MCM3AP-AS1	0.615535998	2.27E-40	Positive
<i>CYFIP1</i>	MCM3AP-AS1	0.452997939	2.53E-20	Positive
<i>LARP1</i>	MCM3AP-AS1	0.510743724	3.08E-26	Positive
<i>GEMIN5</i>	MCM3AP-AS1	0.492424729	3.07E-24	Positive
<i>AGO2</i>	MCM3AP-AS1	0.550535857	5.06E-31	Positive
<i>NCBP1</i>	MCM3AP-AS1	0.499856592	4.91E-25	Positive
<i>NCBP3</i>	MCM3AP-AS1	0.44547479	1.24E-19	Positive
<i>NCBP2</i>	AC008735.2	0.424329016	8.86E-18	Positive
<i>AGO2</i>	AC008735.2	0.416170144	4.25E-17	Positive
<i>NCBP3</i>	AC008735.2	0.423741997	9.93E-18	Positive
<i>NCBP2</i>	AC016737.1	0.438695421	5.04E-19	Positive
<i>EIF4E2</i>	AC092171.5	0.405202823	3.27E-16	Positive
<i>EIF4E2</i>	AC073896.4	0.408099665	1.92E-16	Positive
<i>NCBP2</i>	AC092118.2	0.413019477	7.70E-17	Positive
<i>NCBP1</i>	AC139887.2	0.41403123	6.37E-17	Positive
<i>NCBP2</i>	AC007038.1	0.537323908	2.31E-29	Positive
<i>NCBP2</i>	AC011462.4	0.553805178	1.91E-31	Positive
<i>NCBP2</i>	AP003390.1	0.439857159	3.97E-19	Positive
<i>NCBP2</i>	ZEB1-AS1	0.471878587	3.90E-22	Positive
<i>NCBP1</i>	ZEB1-AS1	0.454579398	1.80E-20	Positive
<i>NCBP2</i>	AC108463.2	0.425454846	7.11E-18	Positive
<i>CYFIP1</i>	AC067852.3	0.410438154	1.25E-16	Positive
<i>NCBP2</i>	AL080317.2	0.460869498	4.59E-21	Positive
<i>AGO2</i>	AL080317.2	0.489197293	6.72E-24	Positive
<i>NCBP2</i>	ZKSCAN2-DT	0.460597596	4.87E-21	Positive
<i>NCBP2</i>	AC021851.1	0.523440936	1.07E-27	Positive
<i>NCBP2</i>	MIR600HG	0.479982342	6.00E-23	Positive
<i>LARP1</i>	MIR600HG	0.410552333	1.22E-16	Positive
<i>AGO2</i>	MIR600HG	0.578610817	8.36E-35	Positive
<i>NCBP1</i>	MIR600HG	0.451309659	3.63E-20	Positive
<i>NCBP3</i>	MIR600HG	0.417252663	3.46E-17	Positive

<i>NCBP2</i>	AC087289.5	0.449974793	4.82E-20	Positive
<i>NCBP2</i>	AC073842.2	0.403143645	4.76E-16	Positive
<i>LARP1</i>	AC073842.2	0.408122428	1.92E-16	Positive
<i>AGO2</i>	AC073842.2	0.424413077	8.72E-18	Positive
<i>CYFIP1</i>	AL157932.1	0.401345865	6.59E-16	Positive
<i>NCBP2</i>	AC093620.1	0.443150071	2.02E-19	Positive
<i>NCBP2</i>	AC020916.1	0.432799079	1.66E-18	Positive
<i>NCBP2</i>	AP000866.6	0.415425552	4.89E-17	Positive
<i>NCBP2</i>	LINC01004	0.480276489	5.60E-23	Positive
<i>CYFIP1</i>	WDFY3-AS2	0.445528892	1.23E-19	Positive
<i>NCBP2</i>	AC096586.2	0.434480133	1.19E-18	Positive
<i>NCBP3</i>	AC096586.2	0.43889499	4.84E-19	Positive
<i>NCBP2</i>	AL133410.1	0.456114808	1.29E-20	Positive
<i>NCBP1</i>	AC007216.4	0.432573444	1.74E-18	Positive
<i>GEMIN5</i>	LINC01515	0.454368568	1.89E-20	Positive
<i>NCBP1</i>	LINC01515	0.407237371	2.25E-16	Positive
<i>NCBP2</i>	ARRDC1-AS1	0.451284915	3.65E-20	Positive
<i>NCBP2</i>	AL136531.1	0.517480898	5.27E-27	Positive
<i>EIF4E2</i>	AL136531.1	0.448244928	6.95E-20	Positive
<i>CYFIP1</i>	LINC01094	0.43773549	6.13E-19	Positive
<i>NCBP2</i>	AL133355.1	0.401998058	5.86E-16	Positive
<i>CYFIP1</i>	AL133355.1	0.539500075	1.24E-29	Positive
<i>NCBP3</i>	AL133355.1	0.402308039	5.54E-16	Positive
<i>NCBP2</i>	KDM4A-AS1	0.432346514	1.82E-18	Positive
<i>NCBP1</i>	KDM4A-AS1	0.451710666	3.33E-20	Positive
<i>NCBP2</i>	LINC02035	0.516657131	6.56E-27	Positive
<i>CYFIP1</i>	LINC02035	0.503694374	1.87E-25	Positive
<i>NCBP1</i>	LINC02035	0.434404282	1.20E-18	Positive
<i>NCBP3</i>	LINC02035	0.400211005	8.09E-16	Positive
<i>NCBP2</i>	AC114956.2	0.405711771	2.98E-16	Positive
<i>CYFIP1</i>	AC114956.2	0.456694887	1.14E-20	Positive
<i>AGO2</i>	RHPN1-AS1	0.414548281	5.78E-17	Positive

<i>NCBP2</i>	SNHG21	0.520850202	2.15E-27	Positive
<i>AGO2</i>	LAMC1-AS1	0.432557334	1.74E-18	Positive
<i>NCBP3</i>	AC116914.2	0.602549618	2.49E-38	Positive
<i>NCBP2</i>	AL133243.2	0.469417981	6.82E-22	Positive
<i>NCBP1</i>	AL133243.2	0.463391648	2.63E-21	Positive
<i>NCBP3</i>	AC002553.1	0.448066276	7.21E-20	Positive
<i>NCBP2</i>	AC016747.1	0.436823528	7.38E-19	Positive
<i>NCBP2</i>	AL662791.1	0.426194779	6.15E-18	Positive
<i>NCBP2</i>	AC008124.1	0.459846039	5.74E-21	Positive
<i>NCBP2</i>	POLH-AS1	0.427859586	4.44E-18	Positive
<i>NCBP2</i>	Z97989.1	0.443691598	1.80E-19	Positive
<i>NCBP3</i>	Z97989.1	0.417809498	3.11E-17	Positive
<i>LARP1</i>	MID1IP1-AS1	0.41353517	6.99E-17	Positive
<i>NCBP2</i>	JMJD1C-AS1	0.508263189	5.84E-26	Positive
<i>EIF4E2</i>	JMJD1C-AS1	0.448164202	7.07E-20	Positive
<i>CYFIP1</i>	BX322234.1	0.484630275	2.01E-23	Positive
<i>EIF4E2</i>	SNHG8	0.443838031	1.75E-19	Positive
<i>EIF4E2</i>	AC009961.1	0.400502989	7.68E-16	Positive
<i>NCBP2</i>	AC107068.1	0.406681507	2.50E-16	Positive
<i>NCBP2</i>	AC107027.3	0.479189778	7.23E-23	Positive
<i>LARP1</i>	AC107027.3	0.412153884	9.06E-17	Positive
<i>NCBP1</i>	AC107027.3	0.446300105	1.05E-19	Positive
<i>NCBP2</i>	AC145423.2	0.421411858	1.56E-17	Positive
<i>EIF4E2</i>	AC097468.3	0.414121677	6.26E-17	Positive
<i>CYFIP1</i>	AL133367.1	0.438605887	5.14E-19	Positive
<i>NCBP2</i>	AC026368.1	0.403626673	4.36E-16	Positive
<i>NCBP2</i>	NDUFB2-AS1	0.546160683	1.83E-30	Positive
<i>NCBP2</i>	AL592166.1	0.419934071	2.07E-17	Positive
<i>GEMIN5</i>	AL513550.1	0.401112468	6.88E-16	Positive
<i>NCBP1</i>	AL513550.1	0.43651956	7.85E-19	Positive
<i>EIF4E2</i>	AL392172.1	0.400589497	7.56E-16	Positive
<i>NCBP2</i>	MIR181A2HG	0.433282255	1.51E-18	Positive

<i>NCBP2</i>	MAPKAPK5-AS1	0.451076495	3.81E-20	Positive
<i>EIF4E2</i>	MAPKAPK5-AS1	0.456170573	1.28E-20	Positive
<i>NCBP2</i>	AC026412.3	0.473070662	2.97E-22	Positive
<i>CYFIP1</i>	AC026412.3	0.466526527	1.31E-21	Positive
<i>LARP1</i>	AC026412.3	0.470963167	4.81E-22	Positive
<i>GEMIN5</i>	AC026412.3	0.423326218	1.08E-17	Positive
<i>NCBP1</i>	AC026412.3	0.403980764	4.09E-16	Positive
<i>GEMIN5</i>	ALMS1-IT1	0.410725776	1.18E-16	Positive
<i>NCBP2</i>	AC092910.3	0.420689884	1.79E-17	Positive
<i>CYFIP1</i>	AC092910.3	0.414269826	6.09E-17	Positive
<i>GEMIN5</i>	AC092910.3	0.408702587	1.72E-16	Positive
<i>NCBP1</i>	AC092910.3	0.433225006	1.53E-18	Positive
<i>NCBP2</i>	UBE2Q1-AS1	0.457055938	1.05E-20	Positive
<i>NCBP1</i>	UBE2Q1-AS1	0.401943381	5.92E-16	Positive
<i>NCBP3</i>	UBE2Q1-AS1	0.422776977	1.20E-17	Positive
<i>NCBP2</i>	AC004816.1	0.453676272	2.19E-20	Positive
<i>CYFIP1</i>	EPB41L4A-DT	0.418376333	2.79E-17	Positive
<i>NCBP2</i>	AC127024.4	0.473567808	2.65E-22	Positive
<i>NCBP1</i>	AC127024.4	0.426853676	5.41E-18	Positive
<i>NCBP3</i>	AC127024.4	0.423789716	9.84E-18	Positive
<i>NCBP2</i>	LINC00909	0.46950534	6.69E-22	Positive
<i>GEMIN5</i>	LINC00909	0.422192559	1.34E-17	Positive
<i>NCBP1</i>	LINC00909	0.518537226	3.98E-27	Positive
<i>NCBP2</i>	AC005034.4	0.490656096	4.72E-24	Positive
<i>NCBP2</i>	AC008764.8	0.549575753	6.71E-31	Positive
<i>CYFIP1</i>	AC104083.1	0.438362337	5.40E-19	Positive
<i>EIF4E2</i>	SNHG30	0.436781049	7.45E-19	Positive
<i>NCBP2</i>	NRAV	0.603089043	2.06E-38	Positive
<i>CYFIP1</i>	NRAV	0.44992223	4.87E-20	Positive
<i>GEMIN5</i>	NRAV	0.491875386	3.51E-24	Positive
<i>NCBP2</i>	AC096642.1	0.492655087	2.91E-24	Positive
<i>EIF4E2</i>	AL049840.6	0.482821878	3.08E-23	Positive

<i>NCBP2</i>	AC145285.6	0.429801196	3.02E-18	Positive
<i>NCBP2</i>	AF117829.1	0.435144678	1.04E-18	Positive
<i>AGO2</i>	AF117829.1	0.415161118	5.15E-17	Positive
<i>NCBP2</i>	AC092171.4	0.40939746	1.51E-16	Positive
<i>LARP1</i>	AC000123.1	0.464363233	2.12E-21	Positive
<i>GEMIN5</i>	AC000123.1	0.413131998	7.54E-17	Positive
<i>NCBP2</i>	AC120053.1	0.477488818	1.07E-22	Positive
<i>NCBP1</i>	AL161891.1	0.407395324	2.19E-16	Positive
<i>NCBP2</i>	AC005288.1	0.462163306	3.45E-21	Positive
<i>CYFIP1</i>	AC005288.1	0.644448	2.84E-45	Positive
<i>LARP1</i>	AC005288.1	0.584990389	1.03E-35	Positive
<i>GEMIN5</i>	AC005288.1	0.675494019	3.66E-51	Positive
<i>NCBP1</i>	AC005288.1	0.603085808	2.06E-38	Positive
<i>NCBP3</i>	AC005288.1	0.496506407	1.13E-24	Positive
<i>CYFIP1</i>	AL049840.4	0.543666541	3.77E-30	Positive
<i>LARP1</i>	AL049840.4	0.519848526	2.81E-27	Positive
<i>GEMIN5</i>	AL049840.4	0.435784547	9.11E-19	Positive
<i>AGO2</i>	AL049840.4	0.4510386	3.84E-20	Positive
<i>NCBP1</i>	AL049840.4	0.425716194	6.76E-18	Positive
<i>NCBP3</i>	AL049840.4	0.465104328	1.80E-21	Positive
<i>NCBP2</i>	AC093484.4	0.406634742	2.52E-16	Positive
<i>NCBP3</i>	AC093484.4	0.46000784	5.54E-21	Positive
<i>NCBP2</i>	AC026356.1	0.521094169	2.01E-27	Positive
<i>NCBP1</i>	AC026356.1	0.495089115	1.60E-24	Positive
<i>NCBP2</i>	AC004908.1	0.455403492	1.51E-20	Positive

Table S4 The 32 m7G-related prognostic lncRNAs

m7G-related lncRNA	HR	HR.95L	HR.95H	P value
MKLN1-AS	3.487361915	2.328313634	5.223391278	1.36E-09
AC012073.1	1.502961168	1.306496505	1.728969242	1.20E-08
AC016394.2	1.653646453	1.290514534	2.118958385	7.01E-05
DDX11-AS1	5.293490806	2.565007621	10.92435152	6.54E-06
WAC-AS1	1.09822242	1.052177279	1.146282577	1.81E-05
THUMPD3-AS1	1.417562002	1.208169534	1.663245077	1.88E-05
SNHG3	1.074261939	1.044165903	1.105225435	7.77E-07
AL031985.3	1.940877422	1.598047026	2.357255517	2.27E-11
MED8-AS1	2.638414115	1.631964075	4.265552868	7.55E-05
TMCC1-AS1	2.776262136	1.933730473	3.985887153	3.13E-08
SNHG4	1.485983142	1.27916306	1.726242704	2.22E-07
SNHG26	2.76523138	1.788605679	4.275120376	4.75E-06
AC018690.1	2.189256958	1.479708314	3.239047847	8.83E-05
BACE1-AS	1.226284419	1.109386797	1.355499706	6.58E-05
NCK1-DT	1.588407737	1.267123643	1.991154653	5.99E-05
RNF216P1	1.328814441	1.154868475	1.528960099	7.14E-05
HMG3-AS1	2.295671298	1.541002403	3.419921149	4.38E-05
AC034229.4	2.097363167	1.492768125	2.946828902	1.96E-05
AC027097.1	2.184022844	1.560252777	3.05716859	5.30E-06
AC026401.3	1.096823881	1.049092337	1.146727112	4.68E-05
LINC01224	1.994645843	1.508589966	2.637305118	1.26E-06
SNHG10	1.350752911	1.171469622	1.557473956	3.50E-05
AC025176.1	2.403017878	1.571279844	3.675026409	5.24E-05
C2orf27A	1.695447696	1.36964684	2.098747507	1.24E-06
AC145207.5	1.837400037	1.414349046	2.38699132	5.20E-06
AC010789.1	2.021222013	1.465676673	2.78733946	1.77E-05
AP003390.1	2.201572214	1.482400791	3.269642221	9.20E-05
KDM4A-AS1	3.094555941	2.039275259	4.695921469	1.10E-07
POLH-AS1	2.783807101	1.839185753	4.213593958	1.29E-06
AC026412.3	16.84687992	5.121412075	55.4177947	3.34E-06

NRAV	1.252755634	1.146060293	1.369384042	6.99E-07
AC026356.1	4.869973351	2.610479924	9.085164847	6.49E-07

Table S5 detailed cluster parameters in TCGA-LIHC cohort

Id	cluster
TCGA-DD-AAVS	1
TCGA-DD-AAE3	1
TCGA-DD-A4NS	1
TCGA-5R-AA1D	1
TCGA-DD-AADL	1
TCGA-XR-A8TC	1
TCGA-2Y-A9GS	1
TCGA-CC-A1HT	2
TCGA-DD-AACL	2
TCGA-ED-A7XP	1
TCGA-G3-AAUZ	1
TCGA-DD-A3A5	1
TCGA-RC-A7SK	1
TCGA-DD-A73D	1
TCGA-2Y-A9H1	1
TCGA-DD-AACI	1
TCGA-DD-AAVP	1
TCGA-EP-A26S	1
TCGA-DD-A4NB	1
TCGA-LG-A6GG	1
TCGA-4R-AA8I	1
TCGA-ED-A5KG	2
TCGA-DD-AADO	1
TCGA-DD-AADK	1
TCGA-LG-A9QD	1
TCGA-EP-A3RK	1
TCGA-DD-AACA	1
TCGA-2Y-A9H3	1
TCGA-CC-A5UE	2
TCGA-CC-5259	1

TCGA-FV-A23B	1
TCGA-ZP-A9CV	1
TCGA-ES-A2HS	1
TCGA-2Y-A9H8	1
TCGA-G3-A5SK	1
TCGA-DD-AACO	1
TCGA-DD-AAW3	1
TCGA-ED-A4XI	1
TCGA-ZP-A9D2	1
TCGA-G3-AAV3	1
TCGA-K7-AAU7	1
TCGA-MI-A75I	1
TCGA-CC-5263	1
TCGA-DD-A3A9	1
TCGA-G3-A5SM	1
TCGA-DD-AADV	1
TCGA-DD-A11A	1
TCGA-ZP-A9D0	1
TCGA-DD-A4NN	1
TCGA-DD-AACG	1
TCGA-UB-A7MC	1
TCGA-DD-A1EA	1
TCGA-DD-A4NG	1
TCGA-O8-A75V	1
TCGA-DD-A39V	1
TCGA-BC-A69I	1
TCGA-ZS-A9CF	1
TCGA-DD-A4ND	1
TCGA-DD-AADC	2
TCGA-DD-AAEH	1
TCGA-BC-A217	2
TCGA-DD-AAE9	1

TCGA-G3-A25S	1
TCGA-BC-A10S	1
TCGA-NI-A4U2	1
TCGA-G3-A3CK	1
TCGA-RC-A7SF	1
TCGA-DD-AACD	1
TCGA-2Y-A9H0	1
TCGA-DD-A3A6	1
TCGA-DD-AAW2	1
TCGA-3K-AAZ8	1
TCGA-DD-A4NH	2
TCGA-MI-A75H	1
TCGA-DD-AAEB	1
TCGA-ZP-A9CY	1
TCGA-BD-A3EP	1
TCGA-EP-A2KB	1
TCGA-CC-A8HU	2
TCGA-DD-AADF	1
TCGA-DD-AACH	1
TCGA-BC-A10X	1
TCGA-CC-5262	1
TCGA-CC-A7IK	1
TCGA-RC-A7SH	2
TCGA-ED-A7XO	1
TCGA-G3-A7M6	2
TCGA-G3-A7M8	1
TCGA-DD-AAW1	1
TCGA-G3-A7M7	1
TCGA-CC-A7IG	2
TCGA-CC-5261	1
TCGA-WQ-A9G7	2
TCGA-WX-AA47	1

TCGA-ZP-A9CZ	1
TCGA-DD-AA3A	2
TCGA-DD-A3A4	1
TCGA-DD-A39Y	1
TCGA-2Y-A9H5	1
TCGA-DD-A114	1
TCGA-DD-A4NI	1
TCGA-BC-A110	1
TCGA-UB-A7MA	2
TCGA-CC-A3MB	1
TCGA-KR-A7K2	1
TCGA-FV-A3I0	1
TCGA-RC-A7SB	1
TCGA-GJ-A9DB	1
TCGA-UB-A7ME	1
TCGA-DD-AADU	1
TCGA-2Y-A9HB	1
TCGA-DD-A1EK	1
TCGA-DD-AAE1	1
TCGA-BC-A10U	1
TCGA-DD-AACV	1
TCGA-DD-AAVY	1
TCGA-FV-A3R3	1
TCGA-BC-A10W	1
TCGA-DD-AACT	1
TCGA-5R-AA1C	1
TCGA-5R-AAAM	1
TCGA-WX-AA44	1
TCGA-DD-A1EH	1
TCGA-DD-A3A1	1
TCGA-KR-A7K0	1
TCGA-FV-A3R2	1

TCGA-DD-AACN	1
TCGA-DD-AAE4	1
TCGA-DD-AAEG	1
TCGA-DD-A1EJ	1
TCGA-FV-A2QQ	1
TCGA-G3-AAV7	2
TCGA-CC-A9FW	1
TCGA-G3-A3CG	1
TCGA-DD-A11C	1
TCGA-DD-AAD2	1
TCGA-NI-A8LF	1
TCGA-DD-AADN	2
TCGA-EP-A12J	1
TCGA-DD-A73G	1
TCGA-DD-AAED	2
TCGA-DD-AADJ	1
TCGA-DD-AAVZ	1
TCGA-XR-A8TF	1
TCGA-DD-AACF	1
TCGA-DD-A3A3	1
TCGA-MI-A75C	1
TCGA-DD-AAVX	1
TCGA-DD-AAE7	1
TCGA-ZS-A9CE	1
TCGA-CC-5264	1
TCGA-HP-A5N0	1
TCGA-G3-A5SJ	1
TCGA-DD-A3A2	1
TCGA-2Y-A9H6	1
TCGA-DD-AAEE	1
TCGA-UB-AA0U	1
TCGA-CC-A3M9	2

TCGA-CC-A8HT	2
TCGA-WQ-AB4B	1
TCGA-DD-AADY	1
TCGA-2Y-A9GZ	1
TCGA-DD-A11D	1
TCGA-KR-A7K7	1
TCGA-BC-4072	1
TCGA-K7-A5RF	1
TCGA-DD-AAVU	1
TCGA-DD-A73B	1
TCGA-PD-A5DF	1
TCGA-BC-A8YO	1
TCGA-EP-A2KA	1
TCGA-DD-AACQ	1
TCGA-DD-AADI	1
TCGA-CC-A5UD	2
TCGA-ZS-A9CD	1
TCGA-DD-A1ED	1
TCGA-DD-AAEK	1
TCGA-BC-A10T	1
TCGA-XR-A8TE	1
TCGA-K7-A6G5	1
TCGA-WX-AA46	1
TCGA-DD-AADD	1
TCGA-DD-A1EF	1
TCGA-DD-AACP	2
TCGA-G3-A3CJ	1
TCGA-DD-AAVR	1
TCGA-DD-AAVQ	1
TCGA-G3-A3CI	1
TCGA-ED-A8O5	1
TCGA-BC-A5W4	1

TCGA-DD-AAD6	1
TCGA-K7-A5RG	1
TCGA-G3-AAV5	1
TCGA-2Y-A9GY	2
TCGA-UB-A7MD	1
TCGA-DD-A4NF	1
TCGA-DD-A113	1
TCGA-DD-AAW0	1
TCGA-DD-A1EI	1
TCGA-CC-A7IF	1
TCGA-2Y-A9GW	1
TCGA-2Y-A9H4	1
TCGA-DD-A39Z	1
TCGA-CC-5260	1
TCGA-DD-AAE0	2
TCGA-DD-A116	1
TCGA-RC-A7S9	1
TCGA-BC-A3KG	1
TCGA-DD-A1EG	1
TCGA-DD-A1EL	2
TCGA-2Y-A9GU	1
TCGA-G3-A25V	1
TCGA-ED-A66Y	1
TCGA-DD-AADB	1
TCGA-YA-A8S7	2
TCGA-GJ-A3OU	1
TCGA-BD-A2L6	1
TCGA-ED-A627	1
TCGA-2Y-A9GX	1
TCGA-DD-A115	1
TCGA-DD-A73C	1
TCGA-MI-A75G	1

TCGA-G3-AAV0	1
TCGA-CC-A8HS	2
TCGA-DD-AACY	1
TCGA-CC-A7IE	1
TCGA-2Y-A9HA	1
TCGA-G3-A6UC	1
TCGA-CC-A7IH	1
TCGA-ZP-A9D4	1
TCGA-MI-A75E	1
TCGA-DD-AAD5	2
TCGA-DD-A39W	1
TCGA-2Y-A9GT	1
TCGA-ED-A8O6	2
TCGA-DD-A39X	1
TCGA-2Y-A9GV	1
TCGA-DD-AACJ	1
TCGA-DD-AAE6	1
TCGA-5C-A9VG	1
TCGA-DD-AADS	1
TCGA-DD-A4NV	1
TCGA-DD-AACC	1
TCGA-DD-A73E	1
TCGA-DD-AAEA	1
TCGA-HP-A5MZ	1
TCGA-MR-A8JO	1
TCGA-G3-A25T	2
TCGA-BC-A112	1
TCGA-DD-A73A	1
TCGA-BC-4073	1
TCGA-DD-A4NJ	1
TCGA-ED-A7PY	1
TCGA-DD-A4NQ	1

TCGA-G3-A25U	1
TCGA-BD-A3ER	1
TCGA-BC-A10R	1
TCGA-DD-AACS	1
TCGA-DD-A1EE	1
TCGA-CC-A7IL	1
TCGA-CC-A7IJ	2
TCGA-DD-AADA	1
TCGA-FV-A4ZP	2
TCGA-G3-A7M9	2
TCGA-CC-A5UC	1
TCGA-EP-A3JL	1
TCGA-G3-A25Y	1
TCGA-DD-AADQ	1
TCGA-5C-A9VH	1
TCGA-UB-AA0V	1
TCGA-DD-A4NE	1
TCGA-DD-A119	1
TCGA-G3-A3CH	1
TCGA-DD-AACZ	2
TCGA-WJ-A86L	1
TCGA-CC-A9FS	1
TCGA-G3-AAV2	1
TCGA-LG-A9QC	1
TCGA-ED-A82E	2
TCGA-DD-A4NK	1
TCGA-DD-AAD3	1
TCGA-DD-AACU	1
TCGA-KR-A7K8	1
TCGA-CC-A3MC	1
TCGA-G3-A5SL	1
TCGA-UB-A7MB	1

TCGA-DD-A1EB	1
TCGA-BC-A10Z	1
TCGA-BC-A216	1
TCGA-BC-A69H	1
TCGA-G3-A7M5	1
TCGA-BC-A10Y	1
TCGA-DD-AAVV	1
TCGA-DD-A4NP	1
TCGA-DD-AADR	1
TCGA-BC-A10Q	2
TCGA-CC-A8HV	2
TCGA-DD-AAEI	1
TCGA-CC-A3MA	2
TCGA-FV-A3I1	1
TCGA-G3-AAV6	2
TCGA-CC-A123	1
TCGA-G3-A5SI	1
TCGA-2Y-A9H2	1
TCGA-CC-A7II	2
TCGA-UB-A7MF	1
TCGA-DD-AAE2	1
TCGA-DD-A1EC	1
TCGA-DD-AACE	1
TCGA-ED-A66X	1
TCGA-DD-AACW	1
TCGA-DD-AAD0	1
TCGA-DD-A4NL	1
TCGA-DD-A4NA	1
TCGA-ED-A459	1
TCGA-DD-AAD8	1
TCGA-XR-A8TD	1
TCGA-2Y-A9H7	1

TCGA-RG-A7D4	2
TCGA-ES-A2HT	1
TCGA-QA-A7B7	1
TCGA-XR-A8TG	1
TCGA-DD-AAC9	1
TCGA-DD-A3A7	1
TCGA-MR-A520	1
TCGA-ZS-A9CG	1
TCGA-DD-A73F	1
TCGA-DD-AADP	1
TCGA-GJ-A6C0	1
TCGA-DD-AAVW	1
TCGA-2Y-A9H9	1
TCGA-G3-AAV1	1
TCGA-G3-A25X	1
TCGA-CC-5258	1
TCGA-FV-A2QR	1
TCGA-DD-A4NO	1
TCGA-DD-AAD1	1
TCGA-DD-AADW	1
TCGA-DD-AACB	1
TCGA-DD-A118	1
TCGA-DD-AACX	1
TCGA-DD-AADG	1
TCGA-G3-A25Z	1

Table S6 LASSO Cox regression result

lncRNA symbol	Coef
MKLN1-AS	0.452253961
AL031985.3	0.156153421
TMCC1-AS1	0.274062674

SNHG26	0.570698196
RNF216P1	0.034777968
AC034229.4	0.105369596
LINC01224	0.545649233
SNHG10	0.020778875
AC025176.1	0.000205483
AP003390.1	0.465599554
POLH-AS1	0.239908465
AC026356.1	0.271425817

Table S7 the P value of immune cells between two risk groups

Immune	P value
B cell_TIMER	4.86E-09
T cell CD4+_TIMER	4.29E-09
Neutrophil_TIMER	3.27E-10
Macrophage_TIMER	6.94E-10
Myeloid dendritic cell_TIMER	9.00E-11
B cell memory_CIBERSORT	0.006331658
T cell CD4+ memory activated_CIBERSORT	2.16E-06
T cell follicular helper_CIBERSORT	0.034080391
T cell regulatory (Tregs)_CIBERSORT	0.015135355
NK cell resting_CIBERSORT	0.02191609
Monocyte_CIBERSORT	3.86E-05
Macrophage M0_CIBERSORT	4.53E-07
Mast cell activated_CIBERSORT	0.00136831
B cell memory_CIBERSORT-ABS	0.002613136
T cell CD8+_CIBERSORT-ABS	0.025340501
T cell CD4+ memory resting_CIBERSORT-ABS	0.002021897
T cell CD4+ memory activated_CIBERSORT-ABS	2.18E-06
T cell follicular helper_CIBERSORT-ABS	9.11E-06
T cell regulatory (Tregs)_CIBERSORT-ABS	8.51E-08

NK cell resting_CIBERSORT-ABS	0.030074852
NK cell activated_CIBERSORT-ABS	0.000184129
Macrophage M0_CIBERSORT-ABS	1.30E-11
Macrophage M1_CIBERSORT-ABS	0.001963693
Macrophage M2_CIBERSORT-ABS	1.35E-06
Neutrophil_CIBERSORT-ABS	0.032996487
B cell_QUANTISEQ	7.51E-10
Macrophage M1_QUANTISEQ	6.96E-06
Macrophage M2_QUANTISEQ	7.78E-06
Monocyte_QUANTISEQ	0.000108383
Neutrophil_QUANTISEQ	0.042154489
T cell CD4+ (non-regulatory)_QUANTISEQ	0.001359586
T cell CD8+_QUANTISEQ	2.37E-05
T cell regulatory (Tregs)_QUANTISEQ	5.09E-08
uncharacterized cell_QUANTISEQ	4.97E-06
T cell_MCPCOUNTER	7.36E-07
T cell CD8+_MCPCOUNTER	0.022322674
B cell_MCPCOUNTER	3.58E-05
Monocyte_MCPCOUNTER	6.50E-14
Macrophage/Monocyte_MCPCOUNTER	6.50E-14
Myeloid dendritic cell_MCPCOUNTER	0.000150714
Cancer associated fibroblast_MCPCOUNTER	0.007376498
B cell_XCELL	0.000159448
T cell CD4+ memory_XCELL	1.23E-06
T cell CD8+ naive_XCELL	0.002979738
Class-switched memory B cell_XCELL	0.03639548
Common lymphoid progenitor_XCELL	5.22E-12
Common myeloid progenitor_XCELL	0.003579557
Endothelial cell_XCELL	1.44E-17
Granulocyte-monocyte progenitor_XCELL	3.24E-06
Hematopoietic stem cell_XCELL	1.06E-11
Macrophage_XCELL	0.005259691

Macrophage M2_XCELL	1.28E-10
Mast cell_XCELL	0.00013418
T cell NK_XCELL	0.024663575
Plasmacytoid dendritic cell_XCELL	0.006919043
T cell CD4+ Th2_XCELL	4.94E-17
stroma score_XCELL	5.42E-14
microenvironment score_XCELL	8.71E-05
Cancer associated fibroblast_EPIC	3.32E-06
Macrophage_EPIC	4.28E-19
uncharacterized cell_EPIC	4.36E-18