

**Supplementary Table 1. Sequences of siRNA Against Specific Targets**

si-CD44-1	5'-3'	CCCAGTATGACACATATTGCTTC
si-CD44-2	5'-3'	ATCTTTTACACCTTTTCTACTGT
si-MZF1-1	5'-3'	CCCAGTATGACACATATTGCTTC
si-MZF1-2	5'-3'	TGGTTTTCATGGTTGTTTCTACC

**Supplementary Table 2. Sequences of PCR primers used in this study**

CD44	Forward(5'-3')	CTGCCGCTTTGCAGGTGTA
	Reverse(5'-3')	CATTGTGGGCAAGGTGCTATT
hsa-miR-328-3	Forward(5'-3')	GCCCTCTCTGCCCTTC
p	Reverse(5'-3')	GTCCAGTTTTTTTTTTTTTTTACGGA
U6	Forward(5'-3')	CGCTTC ACGAATTTGCGTGTCAT
	Reverse(5'-3')	GCTTCGGCAGCACATATACTAAAAT
GAPDH	Forward(5'-3')	GGAGCGAGATCCCTCCAAAAT
	Reverse(5'-3')	GGCTGTTGTCATACTTCTCATGG

**Supplementary Table 3. Cox regression analysis of the relationship between 34 overlapped genes and prognostic parameters**

Characteristic	Total(N)	HR(95% CI) Univariate analysis	P value Univariate analysis	HR(95% CI) Multivariate analysis	P value Multivariate analysis
ADNP	349	1.080 (0.795-1.466)	0.623		
AEBP2	349	1.270 (0.919-1.755)	0.148		
AGO1	349	1.049 (0.773-1.423)	0.759		
ALDH1B1	349	0.993 (0.820-1.203)	0.942		
APP	349	0.985 (0.727-1.336)	0.925		
ARL6IP1	349	1.104 (0.839-1.453)	0.478		
CBX4	349	1.181 (0.911-1.530)	0.21		
CD44	349	1.197 (1.007-1.423)	0.041	1.204(1.012-1.432)	0.036
DYNLL1	349	1.615 (0.977-2.670)	0.062		
GDI2	349	0.847 (0.573-1.251)	0.404		
PKM	349	1.053 (0.814-1.363)	0.693		
POLR3G	349	0.870 (0.665-1.140)	0.313		
RAD51	349	0.887 (0.687-1.146)	0.36		
SCD	349	1.064 (0.929-1.219)	0.369		
SLC25A40	349	0.953 (0.668-1.358)	0.789		

SMC1A	349	0.801 (0.583-1.100)	0.171
TMEM33	349	0.874 (0.637-1.199)	0.404
TOMM40	349	0.955 (0.737-1.239)	0.731
H2AX	349	0.936 (0.744-1.177)	0.572
HMGB1	349	0.858 (0.585-1.259)	0.435
HNRNPF	349	0.753 (0.531-1.067)	0.11
IRAK1	349	0.809 (0.625-1.048)	0.109
MKI67	349	0.932 (0.771-1.126)	0.466
RAB43	349	0.982 (0.716-1.348)	0.912
SCAMP2	349	0.968 (0.687-1.365)	0.855
SERBP1	349	0.855 (0.569-1.285)	0.452
SKA1	349	0.887 (0.715-1.102)	0.279
SLC7A1	349	0.869 (0.672-1.124)	0.285
STT3A	349	0.940 (0.675-1.309)	0.716
TAPBP	349	1.057 (0.773-1.446)	0.729
TMOD3	349	1.150 (0.799-1.655)	0.45
VPS53	349	0.986 (0.668-1.457)	0.945
YWHAQ	349	1.096 (0.743-1.616)	0.644
ZC3H12D	349	0.936 (0.738-1.185)	0.582