

Tables

Supplementary Table 1 Primer sequences used in the experiments

overexpression	sense sequence	anti-sense sequence
miR-10a-5p	5'-CAAUUCGGAUCUACAGGGUAUU-3'	5'-UACCCUGUAGAUCCGAAUUUGUG-3'
SHANK3	5'-ATGGTGAGCAAGGGCGAGGAG-3'	5'-GCGGACTTGAAGAAGTCGTGC-3'
luciferase reporter	sense sequence	anti-sense sequence
SHANK3-UTR	5'-CCCTCCCTTCTACTTCCACTGGTCC-3'	5'-GCTGGGTGAGGCTCTGGAAGGACA-3'
SHANK3-UTR-mut	5'-CCCTCCCTTCTGAGGAAGAGGGTCC-3'	5'-GCTGGGTGAGGCCACTTCCATACA-3'
qRT-PCR	sense sequence	anti-sense sequence
miR-10a-5p	5'-CGCTACCCTGTAGATCCGAA-3'	5'-GTGCAGGGTCCGAGGT-3'
SHANK3	5'-GAAACTTTACAGCGCCGTCC-3'	5'-CACCTTCACGGCCTCG-3'
U6	5'-CTCGCTTCGGCAGCACA-3'	5'-AACGCTTCACGAATTTGCGT-3'
GAPDH	5'-ACAACCTTTGGTATCGTGGAAGG-3'	5'-GCCATCACGCCACAGTTTC-3'

Supplementary Table 2 Antibody information used in the experiments

Antibody	WB	Specificity	Company
GAPDH	1:1000	Mouse monoclonal	Abcam, China
SHANK3	1:1000	Mouse monoclonal	Abcam, China
IgG	/	Goat anti Mouse	Abcam, China

Supplementary Table 3 The differentially down-regulated mRNAs identified from AML patients in GEO database

	logFC	AveExpr	t	P.Value	adj.P.Val	B	Type
APP	-1.40399	7.283853	-6.29427	6.67E-09	4.66E-06	10.07429	down
GNG7	-1.50151	8.403756	-5.30245	6.06E-07	0.000136	5.851891	down
SORL1	-1.25496	9.738148	-4.62765	1.03E-05	0.001076	3.217326	down
IFITM1	-1.69264	10.41961	-4.45789	2.02E-05	0.001602	2.590849	down
GYPC	-1.5617	11.06564	-4.41017	2.44E-05	0.001844	2.417609	down
ITM2C	-1.35668	10.54624	-4.27388	4.14E-05	0.002656	1.92989	down
C12orf75	-1.21713	8.401795	-4.25071	4.52E-05	0.002862	1.848025	down
SPINT2	-1.43617	9.847921	-4.01372	0.00011	0.005131	1.029058	down
HIST1H2AE	-1.04573	6.700301	-3.6299	0.000434	0.012029	-0.22303	down
CD34	-1.11927	7.271069	-3.5604	0.000551	0.013945	-0.43941	down
RETN	-1.90708	8.9301	-3.54025	0.00059	0.014608	-0.50155	down
TSPAN13	-1.148	7.593346	-3.47436	0.000737	0.016505	-0.70277	down
CD69	-1.19782	9.990181	-3.39679	0.000953	0.01926	-0.93581	down
BIN1	-1.04743	8.465503	-3.37028	0.00104	0.020386	-1.01448	down
SHANK3	-1.45469	8.327581	-3.28498	0.001373	0.024251	-1.26427	down
BAALC	-1.1564	6.9071	-3.27879	0.001401	0.024553	-1.28218	down
DHRS3	-1.20731	7.532751	-3.22237	0.001678	0.027142	-1.4443	down

HIST1H2BG	-1.38711	7.802248	-3.15925	0.002049	0.030825	-1.62292	down
C1QTNF4	-1.67475	8.385592	-3.1311	0.002238	0.032519	-1.70164	down
NPW	-1.25686	8.580568	-3.01869	0.003164	0.040593	-2.01012	down
TRH	-1.81526	7.003857	-2.98971	0.003454	0.04305	-2.08813	down
RASD1	-1.2318	7.623899	-2.96097	0.003766	0.045456	-2.16485	down
ITM2A	-1.24844	9.42792	-2.90974	0.004388	0.049829	-2.30007	down