

Supplementary

SUPPLEMENTARY TABLE 1. Clinical Information of AML Patients.

Sample ID	Gender	Age	WBC (10 ⁹ /L)	FAB	CR/CS	Gene mutation
AML-1	Female	44	108.5	M5	CS	No fusion gene was detected
AML-2	Male	24	6.27	M5	CR	<i>NRAS</i> gene mutation; Overexpression of WT1
AML-3	Female	24	58.04	M5 ^b	CS	No fusion gene was detected
AML-4	Male	48	20.74	M5	CR	<i>IDH1</i> , <i>PTPN11</i> gene mutation positive, <i>TPM4</i> , <i>P2PY8</i> , <i>LATS2</i> fusion gene positive
AML-5	Male	40	221.28	M5 ^b	CS	Whole exon: DNMT3A, NPM1, FLT3 positive mutation; Fusion gene: not detected
AML-6	Male	36	114.66	M5	CR	<i>KIT</i> , <i>SRP72</i> , <i>PMS2</i> , <i>USB1</i> gene mutation positive, <i>CEFB-MYH11</i> , <i>TPM4-KLF3</i> , <i>P2RY8-CD99</i> fusion gene positive
AML-7	Female	28	1.93	M5 ^b	CS	<i>RUNX1</i> and <i>TPM4</i> fusion genes were positive, and <i>KRAS</i> and <i>WT1</i> genes were mutated
AML-8	Female	40	188.27	M2	CS	<i>DEK/CAN</i> fusion gene positive, FLT3-ITD mutation
AML-9	Male	48	1.89	M2 ^a	CS	DNMT3A, IDH2 mutation
AML-10	Female	35	3.35	M5 ^b	CR	HOX11 gene positive; With <i>IDH2</i> , <i>NPM1</i> , <i>ETV6</i> gene mutations
AML-11	Male	29	81	M1	CR	With CEBPA, NRAS, IDH1 mutations
AML-12	Male	35	6.05	M5 ^b	CR	With CEBPA, NF1 mutation
AML-13	Male	51	21.44	M5	CS	DNMT3A, CEBPA, NRAS, NPM1 mutations
AML-14	Male	39	2.8	M5	CS	With PTPN11 mutation
AML-15	Male	34	79.5	M1	CS	FLT3 and IDH1 mutations were positive
AML-16	Female	50	2.82	M5	CS	With PTPN11 mutation, <i>KMT2A-MLL10</i> fusion gene was positive
AML-17	Female	44	2.93	M0	CR	WT1 fusion gene was positive. PTPN11, RUNX1, SF3B1 mutations were positive
AML-18	Female	47	6.59	M5 ^b	CR	With CEBPA double mutation
AML-19	Female	39	4.39	M5	CR	With <i>CEBPA</i> , <i>SRSF2</i> gene mutation
AML-20	Male	32	5.67	M5	CR	No fusion gene was detected

FAB, French-American-British classification; WBC, white blood cell count; CR, Chemotherapy-resistant AML; CS, Chemotherapy-sensitive AML.

SUPPLEMENTARY TABLE 2. qPCR Primers Sequence.

Name of primers	Sequence (5'→3')
PPAR γ -F	CCTCCCTGAATAAAGATGG
PPAR γ -R	CACAGCAAACTCAAAGTAGGC
METTL3-F	CAGGGCTGGGAGACTAGGAT
METTL3-R	CTGGGCTGCTACTACGGAAG
METTL14-F	AGGGGTTGGACCTTGAAGA
METTL14-R	GAAGTCCCCGTCTGTGCTAC
WTAP-F	TCCCTCCCTTCACCTTTCCT
WTAP-R	TGGGAAGAGGTTCTTCGTTGG
FTO-F	GCTCCCTATCTGACCCCCA
FTO-R	CCCGAAATAAGCAGCCATGC
ALKBH5-F	TCAAGCCTATTCGGGTGTGC
ALKBH5-R	CCAACCGGGTGCATCTAAT
β -Actin -F	CATCCGCAAAGACCTGTACGC
β -Actin -R	AGTACTTGCCTCAGGAGGAG