

Table SI. List of 50 genes that performed target sequence analysis in patient with JT-MDS after CBT.

ABL proto-oncogene 1 (ABL1)	ETS variant 6 (ETV6)	Janus kinase 3 (JAK3)	Pre-mRNA processing factor 40 homolog B (PRPF40B)	Structural maintenance of chromosomes 1A (SMC1A)
ASXL transcriptional regulator 1 (ASXL1)	Enhancer of zeste 2 polycomb Repressive complex 2 subunit (EZH2)	lysine acetyltransferase 6A (KAT6A)	Protein tyrosine phosphatase Non-receptor type 11 (PTPN11)	Structural maintenance of chromosomes 3 (SMC3)
ATRX chromatin remodeler (ATRX)	Fms related tyrosine kinase 3 (FLT3)	KIT proto-oncogene receptor tyrosine kinase (KIT)	RAD21 cohesin complex component (RAD21)	Stromal antigen 2 (STAG2)
BCL6 corepressor (BCOR)	GATA binding protein 1 (GATA1)	Lysine methyltransferase 2A (KMT2A)	RB transcriptional corepressor 1 (RB1)	SUZ12 polycomb repressive complex 2 subunit (SUZ12)
BCL6 corepressor like 1 (BCORL1)	GNAS complex locus (GNAS)	KRAS proto-oncogene (KRAS)	RUNX family transcription factor 1 (RUNX1)	Tet methylcytosine dioxygenase 2 (TET2)
Cbl proto-oncogene (CBL)	Isocitrate dehydrogenase 1 (IDH1)	MPL proto-oncogene (MPL)	SET binding protein 1 (SETBP1)	Tumor protein p53 (TP53)
Cbl proto-oncogene B (CBLB)	Isocitrate dehydrogenase 2 (IDH2)	Neurofibromin 1 (NF1)	Splicing factor 1 (SF1)	U2 small nuclear RNA auxiliary factor 1 (U2AF1)
Death domain associated protein (DAXX)	IKAROS family zinc finger 1 (IKZF1)	Nucleophosmin 1 (NPM1)	Splicing factor 3a subunit 1 (SF3A1)	U2 small nuclear RNA auxiliary factor 2 (U2AF2)
DNA methyltransferase 3 alpha (DNMT3A)	Janus kinase 1 (JAK1)	NRAS proto-oncogene (NRAS)	Splicing factor 3b subunit 1 (SF3B1)	WT1 transcription factor (WT1)
Embryonic ectoderm development (EED)	Janus kinase 2 (JAK2)	PHD finger protein 6 (PHF6)	SH2B adaptor protein 3 (SH2B3)	Zinc finger CCH-type, RNA binding motif and serine/arginine rich 2 (ZRSR2)