

Patient	Age	Gender	Status	Karyotype	FLT3 Mutations	Other Mutations
1	53	M	Dx	Diploid	ITD, 28%, >170 bp	KMT2D, NPM1
2	71	F	Dx	Diploid	ITD 39%, 15 bp	NOTCH2, IDH1, DNMT3A, NPM1, RECQL4, KDM6A
3	58	F	Dx	Diploid	ITD 83% 12 bp	DNMT3A, NPM1, BCORL3, EP300
4	27	F	Rel	t(5;18)	ITD 273% 90 bp	NOTCH2, WT1, KMT2D, IDH1
5	49	F	Rel	Diploid	ITD 646% 24 bp	WT1, NPM1
6	61	M	Rel	Diploid	ITD 30 bp	WT1, NPM1
7	55	M	Rel	Diploid	ITD 641% 39 bp	WT1, PTPN11, DNMT3A, ASXL1, NPM1
8	56	F	Rel	Diploid	ITD 268% 63 bp	IDH1, CBLB, NPM1, ATRX
9	62	F	Rel	Diploid	ITD 21% 42 bp	PTEN, WT1, KMT2C, RECQL4

**Supplemental Table 1.** Clinical and molecular characteristics of the AML patient samples. Dx = Specimen collected at diagnosis. Rel. = Specimen collected at relapse.