

Supplementary Table 1. Mutation analysis of paired primary and relapse AML samples

Pair	Stage	Response	FLT3/ITD	AS1	NPM1	WT	PTEN1	CEBPA	WT1	Shh	Cytogenetic change
1	Diagnosis	CR									
	Relapse	ND									
2	Diagnosis	CR									
	Relapse	CR									
3	Diagnosis	CR									
	Relapse	CR									
4	Diagnosis	CR									
	Relapse	CR									
5	Diagnosis	CR									
	Relapse	CR									
6	Diagnosis	CR									
	Relapse	CR									
7	Diagnosis	NA									
	Relapse	NA									
8	Diagnosis	CR									
	Relapse	CR									
9	Diagnosis	NA									
	Relapse	NA									
10	Diagnosis	PR									
	Relapse	ND									
11	Diagnosis	CR									
	Relapse	CR									
12	Diagnosis	CR									
	Relapse	CR									
13	Diagnosis	CR									
	Relapse	CR									
14	Diagnosis	PR									
	Relapse	CR									
15	Diagnosis	CR									
	Relapse	CR									
16	Diagnosis	CR									
	Relapse	CR									
17	Diagnosis	NA									
	Relapse	NA									
18	Diagnosis	CR									
	Relapse	CR									
19	Diagnosis	NA									
	Relapse	CR									
20	Diagnosis	CR									
	Relapse	CR									
21	Diagnosis	CR									
	Relapse	CR									
22	Diagnosis	CR									
	Relapse	CR									
23	Diagnosis	NA									
	Relapse	NA									

1 = mutated for selected gene, bold font = mutational shift between diagnosis and relapse, CR=complete response, PR=partial response, NA=response data not acquired