

Variant per Gene	DNA Transcription (N=39)											Epigenetic/Histone Modification (N=38)						FLT3 (N=27)		Splicing Factors (N=16)			RAS,RAF, PI3K/ AKT Pathways (N=11)				Others (N=10)			JAK/STAT Pathway (N=4)		DNA Repair (N=2)						
	KMT2A-PTD	RUNX1	WT1	BCOR	CEBPA	CUX1	ETV6	PHF6	GATA2	IKZF1	IRF1	ASXL1	DNMT3A	TET2	IDH1	IDH2	EZH2	FLT3-ITD	FLT3-TKD	U2AF1	SRSF2	SRSF1	PTPN11	NRAS	KRAS	BRAF	STAG2	CBL	SH2B3	NPM1	JAK2	CALR	CSF3R	JAK1	TP53	PPM1D		
	41	12	5	5	4	3	3	3	2	1	1	9	8	8	6	5	2	22	5	7	5	4	2	5	3	1	5	3	1	1	1	1	1	1	1	1		
1	1																											1										
2	1																			1																		
3	1			1																				1	1				1									
4	1					1		1														1					1								1			
5	1	1										1				1	1	1																				
6	1																	1	1	1																		
7	1																																					
8	1	1		1														1	1					1	1			1										
9	1	2	2										1					1					2															
10	1																																					
11	1					1							1		1									1													1	
12	1							1																														
13	1		1											1				1	2																			
14	1															1		1				1					1											
15	1																			1				1														
16	1																			1				1														
17	1											1			1																							
18	1					1																																
19	1	1				1																																
20	1					1							1															1										
21	1							2																														
22	1			1																																		
23	1																																					
24	1	1				1																															1	
25	1																																					
26	1	1	1			1																																
27	1																																					
28	1																																					1
29	1	1				1																																1
30	1	1																																				
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34	1	1																																				
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36	1																																					
37	1	1																																				
38	1	1																																				
39	1																																					
40	1																																					
41	1																																					1

**Figure S1. Co-occurring variants identified in KMT2A-PTD positive cases by NGS.** Note that cases 2, 3 and 35 were determined not to have a KMT2A-PTD by MLPA and/or OGM. Variants were classified using the AMP/CAP/ASCO somatic variant classification guidelines (Li et al., 2017, PMID: 27993330). Red: Tier-1 and Tier 2. Grey: Tier-3.