Table S5. Functional categories of up-regulated genes associated with poor prognosis

	Corrected	No. of		Other tags with downregulate
GO category	p-value	genes	Other tags with upregulated genes	genes
ogical Processes	<b>-</b>			
cell cycle	2.49E-15	50	abnormal cytogenetics aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid FLT3-ITD low centrosome aberrations MLL fusion gene
cell cycle process	8.04E-12	33	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid FLT3-ITD good prognosis low centrosome aberrations NPM1 mutation
mitotic cell cycle	6.61E-10	26	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid FLT3-ITD good prognosis low centrosome aberrations NPM1 mutation
cell cycle phase	6.37E-09	26	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid FLT3-ITD good prognosis low centrosome aberrations NPM1 mutation
cell division	2.18E-08	21	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid good prognosis low centrosome aberrations NPM1 mutation
mitosis	4.00E-08	20	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid FLT3-ITD good prognosis NPM1 mutation
M phase of mitotic cell cycle	6.37E-08	20	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid FLT3-ITD good prognosis NPM1 mutation
regulation of cell cycle	2.91E-07	21	abnormal cytogenetics aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid good prognosis low centrosome aberrations
M phase	8.37E-07	21	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid good prognosis NPM1 mutation
negative regulation of transcription negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	3.84E-06 4.31E-06	20 21	good prognosis good prognosis	
interphase of mitotic cell cycle	1.90E-04	10	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid good prognosis low centrosome aberrations NPM1 mutation
regulation of cellular component organization and biogenesis interphase	3.20E-04	17		
	3.70E-04	10	aneuploid CD34+CD38+ fraction high centrosome aberrations	CD34+CD38- fraction euploid good prognosis low centrosome aberrations NPM1 mutation
organelle organization and biogenesis	1.47E-03	45	aneuploid	euploid

				good progriosis
regulation of organelle organization and biogenesis	1.95E-03	10		
organic acid metabolic process	1.95E-03	28		good prognosis
microtubule-based process	2.00E-03	19		
DNA metabolic process	2.46E-03	30	abnormal cytogenetics aneuploid high centrosome aberrations	euploid good prognosis low centrosome aberrations
G1 phase	4.49E-03	5	CD34+CD38+ fraction	CD34+CD38- fraction good prognosis
carboxylic acid metabolic process	5.34E-03	27		good prognosis
regulation of cytoskeleton organization and biogenesis	5.74E-03	9		
ellular Components				
microtubule cytoskeleton	3.65E-06	26	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid good prognosis
spindle	2.68E-05	10	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid good prognosis NPM1 mutation
protein complex	8.99E-05	73	aneuploid high centrosome aberrations	euploid good prognosis low centrosome aberrations
mitochondrion	3.30E-04	34	MLL fusion gene	good prognosis
non-membrane-bound organelle	2.30E-03	68	aneuploid	euploid
intracellular non-membrane-bound organelle	2.30E-03	68	aneuploid	euploid
plasma membrane part	7.59E-03	54	11q23 CBF CEBPA silenced FAB-M4 FAB-M5 FAB-M7 inv(16)	CEBPA mutation t(15;17) good prognosis
microtubule organizing center	7.77E-03	10	aneuploid CD34+CD38+ fraction	CD34+CD38- fraction euploid
				good prognosis

CD34+CD38+ fraction

CD34+CD38- fraction good prognosis

1.85E-03

G1 phase of mitotic cell cycle

Significantly over-represented functional gene ontology (GO) categories of up-regulated genes associated with poor prognosis are presented here. GO categories that are also over-represented in down-regulated genes associated with poor prognosis are not included. Corrected p-value is the Bonferroni multiple hypothesis. Identification tags that are both up-regulated and down-regulated are not included in the 'other tags' columns. Identification tag descriptions can be found in Table S1.