

SUPPLEMENTARY APPENDIX

Acute myeloid leukemia with translocation t(3;5): new molecular insights

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Online Supplementary Table S1. *NPM1* mutation-associated gene and expression profile of these genes for AML with *NPM1-MLF1*.

Signature AML with <i>NPM1</i> mutated		Regulation <i>NPM1m</i> vs <i>NPM1 wt</i>	4 AML with <i>NPM1-MLF1</i>	
Probe Set ID	Gene Symbol		Mean Fold change	Mean Fold change
235700_at	CT45A5	up	18.597033	7.7588769
213844_at	HOXA5	up	9.777305	3.53755518
209543_s_at	CD34	down	-9.433842	-1.27240014
205366_s_at	HOXB6	up	9.272498	4.52701215
209905_at	HOXA9	up	7.5813527	3.14977504
232979_at		up	7.5294228	3.875409
214651_s_at	HOXA9	up	7.5025625	2.90353585
235521_at	HOXA3	up	7.3810534	3.87744585
200602_at	APP	down	-6.9739947	-3.19682728
242172_at	MEIS1	up	6.1069484	2.8934499
214575_s_at	AZU1	up	5.9337544	0.76603186
229638_at	IRX3	up	5.8982453	4.46001338
238021_s_at	hCG_1815491	up	5.8910627	2.66404533
235753_at	HOXA7	up	5.515459	3.19888565
1559477_s_at	MEIS1	up	5.492012	2.96989965
213110_s_at	COL4A5	up	5.3422804	4.91379723
1567912_s_at	CT45A1 /// CT45A2 /// CT45A3 /// CT45A4 /// CT45A5 /// CT45A6 /// LOC100133581	up	5.274157	4.64465368
211732_x_at	HNMT	up	5.2494774	2.38893027
204069_at	MEIS1	up	5.1840262	2.64631128
213150_at	HOXA10	up	5.0176764	2.66265726
238022_at	hCG_1815491	up	5.0106983	2.7614348
205382_s_at	CFD	up	4.8438005	2.76006818
218899_s_at	BAALC	down	-4.8282347	0.15616274
226817_at	DSC2	up	4.781796	2.76131485
1553613_s_at	FOXC1	up	4.7446666	3.96379243
206622_at	TRH	down	-4.723742	-0.14004588
205600_x_at	HOXB5	up	4.5103526	2.43399025
204779_s_at	HOXB7	up	4.4951124	3.09108413
204082_at	PBX3	up	4.479521	2.47237228
213147_at	HOXA10	up	4.345308	2.67984773
205899_at	CCNA1	up	4.1795015	3.0498159
205453_at	HOXB2	up	4.067107	2.0675683
204304_s_at	PROM1	down	-4.017616	2.13327992
222780_s_at	BAALC	down	-3.964345	-0.12072147
210549_s_at	CCL23	up	3.9597466	3.12528885
206847_s_at	HOXA7	up	3.9102056	4.0049753
206289_at	HOXA4	up	3.8065913	2.4007592
210548_at	CCL23	up	3.7859435	3.1812511
204647_at	HOMER3	up	3.7666862	1.41735622
212820_at	DMXL2	up	3.585497	1.67677761
215489_x_at	HOMER3	up	3.48304	1.06837439
220798_x_at	PRG2	up	3.4503477	2.65443443
1564984_at		down	-3.4015858	-0.27349497
213260_at	FOXC1	up	3.3975596	1.95329943
242064_at	SDK2	down	-3.3545523	-1.30109225
1558871_at		up	3.3106391	2.46539543

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205801_s_at	RASGRP3	up	3.3083742	1.74546455
209583_s_at	CD200	down	-3.2610471	-0.38328543
223669_at	HEMGN	down	-3.2492473	1.04282916
1559049_a_at		up	3.2431014	1.04374256
205330_at	MN1	down	-3.2371752	-0.1982528
236738_at	LOC401097	up	3.2312999	3.564707
1569652_at	MLLT3	down	-3.1894782	-0.79798209
204561_x_at	APOC2 /// APOC4	up	3.1649823	2.34699099
1556590_s_at		up	3.1237884	0.99253286
223670_s_at	HEMGN	down	-3.0980866	1.20843661
204112_s_at	HNMT	up	3.0737727	1.57545996
217979_at	TSPAN13	down	-3.0712686	-0.39995347
229309_at	ADRB1	up	3.0607781	2.00661661
204917_s_at	MLLT3	down	-3.0585756	-1.23714434
202242_at	TSPAN7	down	-3.0464053	-0.878433
201360_at	CST3	up	2.9695396	0.47073293
224836_at	TP53INP2	up	2.953251	0.80443541
216973_s_at	HOXB7	up	2.9482567	1.92804265
204984_at	GPC4	up	2.9037933	-0.29099977
1559117_at		up	2.8895197	1.12118318
228150_at	SEC16B	up	2.8679156	2.6198162
241464_s_at		up	2.8676417	1.98285163
214953_s_at	APP	down	-2.8496027	-1.16809461
202747_s_at	ITM2A	down	-2.8434162	-0.32785858
215761_at	DMXL2	up	2.8049102	0.88479877
223092_at	ANKH	down	-2.8032222	-1.43030154
219648_at	MREG	down	-2.7903311	-0.42253386
236893_at	LOC100130740	up	2.7475514	1.84018113
200665_s_at	SPARC	down	-2.735279	-0.26782513
230896_at	BEND4	down	-2.7278364	-0.7098949
202729_s_at	LTBP1	up	2.725278	1.68883123
224772_at	NAV1	down	-2.7170649	-0.58702327
214639_s_at	HOXA1	up	2.704335	1.79096043
222222_s_at	HOMER3	up	2.703439	1.04923594
228365_at	CPNE8	up	2.7012913	1.79165843
209099_x_at	JAG1	up	2.6985936	2.86031223
216268_s_at	JAG1	up	2.6976433	2.87377288
227038_at	SGMS2	up	2.6842163	2.87130418
205780_at	BIK	up	2.6809318	2.52159063
205624_at	CPA3	up	2.6598775	2.40706181
236193_at	HIST1H2BC	up	2.646637	1.60619081
210239_at	IRX5	up	2.6224232	2.00328335
217996_at	PHLDA1	up	2.619512	0.66489339
214455_at	HIST1H2BC	up	2.6099615	2.37336168
235683_at	SESN3	down	-2.605538	-0.91982555
1563035_x_at	GPD1	down	-2.5933406	-0.34087549
235749_at	UGCGL2	up	2.5821729	1.99970973
204778_x_at	HOXB7	up	2.564262	1.4019171
203052_at	C2	up	2.5567253	1.38001275
1556589_at		up	2.521227	0.66469144
221959_at	FAM110B	up	2.5145319	1.25082386
209993_at	ABCB1	down	-2.495992	-0.87782847
212089_at	LMNA	up	2.4872177	-0.37863016
235046_at		down	-2.4826543	-0.18522384

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231929_at	IKZF2	down	-2.459565	-0.70324767
225372_at	C10orf54	up	2.436355	1.84141088
229947_at	PI15	up	2.423173	0.53762854
241607_at	LOC730102	up	2.4110816	1.9199351
243806_at		up	2.3931391	1.4147228
202481_at	DHRS3	down	-2.3879716	-1.29069828
241706_at	CPNE8	up	2.377572	1.16254233
1554600_s_at	LMNA	up	2.3604774	-0.19491315
203411_s_at	LMNA	up	2.347606	-0.2207613
223703_at	C10orf11	up	2.3325944	1.7955885
205933_at	SETBP1	down	-2.32473	-0.84853878
222179_at	CDC5L	down	-2.3217797	-0.69285323
218764_at	PRKCH	down	-2.3199744	-0.34387338
222810_s_at	RASAL2	up	2.3174047	0.88697815
240413_at	PYHIN1	down	-2.3167505	-0.12334118
237833_s_at	SNCAIP	up	2.3156898	-0.5960803
212086_x_at	LMNA	up	2.295216	-0.12564648
1559266_s_at	C10orf140	up	2.2800798	2.35650738
228376_at	GGTA1	down	-2.275746	1.4839685
214255_at	ATP10A	down	-2.2750938	-0.901968
220162_s_at	CARD9	up	2.270291	2.00210215
227036_at	RASAL2	up	2.2648356	1.10258102
1555923_a_at	C10orf114	up	2.2636855	2.78232765
227492_at		up	2.2487912	1.3714347
235684_s_at	SESN3	down	-2.2485805	-0.65041185
204918_s_at	MLLT3	down	-2.2375813	-1.0585624
209994_s_at	ABCB1 /// ABCB4	down	-2.2259064	-1.03564286
222363_at		up	2.2227988	1.08352923
214022_s_at	IFITM1	down	-2.2213721	-0.67259788
211922_s_at	CAT	up	2.211593	1.71494963
219694_at	FAM105A	down	-2.2108002	0.37843894
202708_s_at	HIST2H2BE	up	2.1993654	1.70803425
201069_at	MMP2	up	2.1923945	-0.05526578
201601_x_at	IFITM1	down	-2.1847956	-0.7034037
218801_at	UGCGL2	up	2.1724038	1.71395125
208414_s_at	HOXB3	up	2.1641765	1.68112888
228274_at	SDSL	up	2.1546674	1.58959438
220299_at	SPATA6	up	2.1449835	1.12320745
225745_at	LRP6	down	-2.132306	-0.39837313
231805_at	PRLHR	down	-2.1302638	-0.14029503
209723_at	SERPINB9	down	-2.129239	-0.55455352
1555561_a_at	UGCGL2	up	2.125808	1.67769064
209191_at	TUBB6	up	2.1166725	-0.37852563
218280_x_at	HIST2H2AA3 /// HIST2H2AA4	up	2.1131194	1.26794148
216585_at		up	2.0928333	1.4190818
206298_at	ARHGAP22	up	2.0835023	1.76148603
218532_s_at	FAM134B	down	-2.0764909	-0.91452755
218510_x_at	FAM134B	down	-2.0639205	-0.55572509
227478_at	SETBP1	down	-2.0559907	-0.80326688
209702_at	FTO	up	2.0489857	-0.25433541
232406_at		up	2.0489318	1.71419654
231124_x_at	LY9	down	-2.043434	-0.87557447
231183_s_at	JAG1	up	2.034303	2.51860405
214213_x_at	LMNA	up	2.0234225	-0.17574274

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235574_at	GBP4	down	-2.0159163	-0.45400356
204030_s_at	SCHIP1	up	2.0128877	1.81166544
214290_s_at	HIST2H2AA3 /// HIST2H2AA4	up	2.0034418	0.92468571
209679_s_at	SMAGP	down	-1.9932238	-1.24407257
206134_at	ADAMDEC1	up	1.9856294	0.78781676
238363_at		up	1.9682075	0.78977752
1559724_at		down	-1.9586669	0.16496266
224048_at	USP44	up	1.9550666	0.26280141
230212_at	LOC729345	down	-1.9512717	-0.72778881
210123_s_at	CHRFAM7A /// CHRNA7 /// LOC732445	up	1.9359509	1.8464365
213392_at	IQCK	up	1.9342124	0.93174934
212607_at	AKT3	down	-1.9308898	-0.76530801
238058_at	LOC150381	up	1.9260772	1.04775571
1562640_at	LOC285943	up	1.9171963	0.86067889
1553212_at	KRT78	up	1.9164615	1.00495528
215163_at		up	1.9042245	1.50481751
239089_at		up	1.898441	0.9296783
217226_s_at	SFXN3	up	1.8861258	0.46211576
208130_s_at	TBXAS1	up	1.8744227	0.68737245
208408_at	PTN	down	-1.8724662	0.58174787
208967_s_at	AK2	up	1.8633759	0.54561247
219602_s_at	FAM38B	up	1.8494685	0.74821078
213618_at	ARAP2	down	-1.837755	-0.17202508
1558467_a_at		up	1.826866	0.97782374
225280_x_at	ARSD	up	1.8197634	1.29267931
219304_s_at	PDGFD	up	1.8097119	1.35380445
212558_at	SPRY1	down	-1.8024399	-0.7125039
214472_at	HIST1H2AD /// HIST1H3D	up	1.7927768	1.06828667
232088_x_at	hCG_2039027	up	1.7611898	2.16689672
243546_at		down	-1.7572962	-0.51062584
230131_x_at	ARSD	up	1.7353597	1.26328956
223696_at	ARSD	up	1.7333568	1.34419288
201663_s_at	SMC4	up	1.7066683	0.59501838
204485_s_at	TOM1L1	up	1.6106049	0.9160583
231175_at	BEND6	up	1.6053199	0.50889862

NPM1m: *NPM1* mutated (149 AML); *NPM1 wt*: *NPM1* wild-type (287 AML).