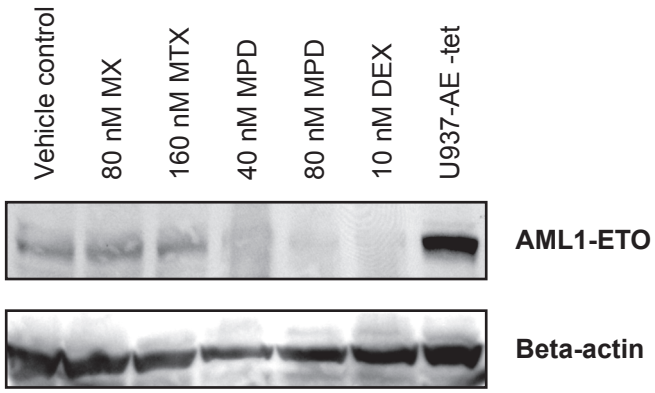
Supplementary Figure S1: Early decrease in AML1-ETO protein abundance upon corticosteroid treatment for 24 hours



Kasumi-1 immunoblot with anti-AML1 antibody. AML1-ETO protein loss was seen upon treatment with methylprednisolone (MPD) or dexamethasone (DEX) for 24 hours. AML1-ETO protein expression was maintained in the methotrexate (MTX)-treated samples.

Supplementary Table 1. Kasumi-1 AML1-ETO knockdown (Affymetrix U133A microarray)

Sample Name	Scan Name	Construct	Transfect Method
Kasumi_d4-1	CL2004072907AA	None	None
Kasumi_d4-3	CL2004072909AA	None	None
Kas_Amx_d4-1	CL2004100118AA	None	Amaxa nucleofection
siGL_d4-1	CL2004072910AA	luciferase	Biorad siLentFect
siGL_d4-2	CL2004072911AA	luciferase	Biorad siLentFect
siGL_d4-3	CL2004072912AA	luciferase	Biorad siLentFect
siGL_Amx-d4-1	CL2004100119AA	luciferase	Amaxa nucleofection
siGL_Amx-d4-2	CL2004100120AA	luciferase	Amaxa nucleofection
AML1-ETO_d4-1	CL2004072913AA	AML1-ETO	Biorad siLentFect
AML1-ETO_d4-2	CL2004072914AA	AML1-ETO	Biorad siLentFect
AML1-ETO_d4-3	CL2004072915AA	AML1-ETO	Biorad siLentFect
AML1-ETO_Amx_d4-1	CL2004100121AA	AML1-ETO	Amaxa nucleofection
AML1-ETO_Amx_d4-2	CL2004100122AA	AML1-ETO	Amaxa nucleofection
AML1-ETO_Amx_d4-3	CL2004100123AA	AML1-ETO	Amaxa nucleofection

Supplementary Table 2. U937 AML1-ETO induced samples (Affymetrix U95A microarray)

Sample Name	Scan Name	Class	Time
480H1	CL2001012507AA	Control	0
48Nt12H1	CL2001012508AA	AML1-ETO Induced	12
48Nt24H1	CL2001012509AA	AML1-ETO Induced	24
48NT48H1	CL2001012510AA	AML1-ETO Induced	48
48NT72H1	CL2001012511AA	AML1-ETO Induced	72
480H2	CL2001012512AA	Control	0
48NT12H2	CL2001012513AA	AML1-ETO Induced	12
48NT24H2	CL2001012514AA	AML1-ETO Induced	24
48NT48H2	CL2001012515AA	AML1-ETO Induced	48
48NT72H2	CL2001012516AA	AML1-ETO Induced	72
48T24H1	CL2001012517AA	Control	24
48T48H1	CL2001012518AA	Control	48
48T72H1	CL2001012519AA	Control	72
48T24H2	CL2001012520AA	Control	24
48T48H2	CL2001012521AA	Control	48
48T72H2	CL2001012522AA	Control	72

Supplementary Table 3. AML1-ETO Marker Genes

GENE NAME	RefSeq	LUA TAG	PROBE SEQUENCE
IL8	NM_000584	1	5'-TAATACGACTCACTATAGGGCTTTAATCTCAATCAATACAAATCACAATCCTAGTTTGATACTC-3'
			5'-PO4-CCAGTCTTGTCATTGCCAGCTCCCTTTAGTGAGGGTTAAT-3'
BCL2	NM_000633	2	5'-TAATACGACTCACTATAGGGCTTTATCAATACATACTACAATCAACATCCATTATAAGCTGTCG-3'
			5'-PO4-CAGAGGGGCTACGAGTGGGATCCCTTTAGTGAGGGTTAAT-3'
ATP2B4	NM_0010013	3	5'-TAATACGACTCACTATAGGGTACACTTTATCAAATCTTACAATCGGAGCCAATAAAGCTTTTTG-3'
			5'-PO4-CTGATGAACAGAAACCAATATCCCTTTAGTGAGGGTTAAT-3'
CXCR4	NM_0010085	4	5'-TAATACGACTCACTATAGGGTACATTACCAATAATCTTCAAATCCAGGAGTGGGTTGATTTCAG-3'
			5'-PO4-CACCTACAGTGTACAGTCTTTCCCTTTAGTGAGGGTTAAT-3'
IGFBP7	NM_001553	5	5'-TAATACGACTCACTATAGGGCAATTCAAATCACAATAATCAATCTCCTCTAAGTAAGGAAGATG-3'
			5'-PO4-CTGGAGAATATGAGTGCCATTCCCTTTAGTGAGGGTTAAT-3'
AIF1	NM_001623	6	5'-TAATACGACTCACTATAGGGTCAACAATCTTTTACAATCAAATCTGTCTCCCCACCTCTACCAG-3'
			5'-PO4-CATCTGCTGAGCTATGAGCCTCCCTTTAGTGAGGGTTAAT-3'
ALCAM	NM_001627	7	5'-TAATACGACTCACTATAGGGCAATTCATTTACCAATTTACCAATTTGCTCTTTCAAGCAGAAGC-3'
			5'-PO4-CTGGTTTCTGGGAGAACACTTCCCTTTAGTGAGGGTTAAT-3'
BPI	NM_001725	9	5'-TAATACGACTCACTATAGGGTAATCTTCTATATCAACATCTTACCTCCAGATCTTAACCAAGAG-3'
			5'-PO4-CCCCTTGCAAACTTCTTCGATCCCTTTAGTGAGGGTTAAT-3'
CTSG	NM_001911	10	5'-TAATACGACTCACTATAGGGATCATACATACATACAAATCTACAGCTCCACAGTGTTGCCAGAG-3'
			5'-PO4-CCTTAATAAACGTCCACAGATCCCTTTAGTGAGGGTTAAT-3'
ICAM3	NM_002162	11	5'-TAATACGACTCACTATAGGGTACAAATCATCAATCACTTTAATCTAATGTACGTCTTCAGGGAG-3'
			5'-PO4-CACCAACGGAGCGGCAGTTATCCCTTTAGTGAGGGTTAAT-3'
PLP2	NM_002668	15	5'-TAATACGACTCACTATAGGGATACTTCATTCATTCATCAATTCATTGAAATAACTCCTCCCCAC-3'
			5'-PO4-CCCAACAACAACATTCCCAGTCCCTTTAGTGAGGGTTAAT-3'
PRG1	NM_002727	16	5'-TAATACGACTCACTATAGGGAATCAATCTTCATTCAAATCATCAATGTGTTTGCAGAGCTAGTG-3'
			5'-PO4-GATGTGTTTGTCTACAAGTATCCCTTTAGTGAGGGTTAAT-3'
RAC2	NM_002872	18	5'-TAATACGACTCACTATAGGGTCAAAATCTCAAATACTCAAATCACCCAACTCAACCTGCTTAAG-3'
			5'-PO4-CAGAAAATAAATTTATTGATTCCCTTTAGTGAGGGTTAAT-3'
RNASE2	NM_002934	19	5'-TAATACGACTCACTATAGGGTCAATCAATTACTTACTCAAATACTGTCCTAGTAACAAAACTCG-3'
			5'-PO4-CAAAAATTGTCACCACAGTGTCCCTTTAGTGAGGGTTAAT-3'
RNASE3	NM_002935	20	5'-TAATACGACTCACTATAGGGCTTTTACAATACTTCAATACAATCAGTCTGAACCCCCCTCGATG-3'
			5'-PO4-CACCATTGCAATGCGGGCAATCCCTTTAGTGAGGGTTAAT-3'
TYROBP	NM_003332	22	5'-TAATACGACTCACTATAGGGAATCCTTTTTACTCAATTCAATCAATCCCTGAGAGACCAGACCG-3'
			5'-PO4-CTCCCCAATACTCTCCTAAATCCCTTTAGTGAGGGTTAAT-3'
CST7	NM_003650	24	5'-TAATACGACTCACTATAGGGTCAATTACCTTTTCAATACAATACCTACCTGCAAGAAAAACCAG-3'
			5'-PO4-CACCTGCGTCTGGATGACTGTCCCTTTAGTGAGGGTTAAT-3'
CBFA2T1	NM_004349	25	5'-TAATACGACTCACTATAGGGCTTTTCAATTACTTCAAATCTTCAGCCCTAAATAACCCTTCAAC-3'
			5'-PO4-GTTTCTTCACTTTTGCAAGTTCCCTTTAGTGAGGGTTAAT-3'
RASGRP2	NM_005825	27	5'-TAATACGACTCACTATAGGGCTTTTCAAATCAATACTCAACTTTAGGATGGGGTGTTTGACATC-3'
			5'-PO4-CACTTGTAATAGATGCTGTGTCCCTTTAGTGAGGGTTAAT-3'
MS4A3	NM_006138	28	5'-TAATACGACTCACTATAGGGCTACAAACAAACAAACATTATCAAGATTTTATTTCAGTGAACTG-3'
			5'-PO4-CTGGAACTCACACATGCCCTTCCCTTTAGTGAGGGTTAAT-3'
LAPTM5	NM_006762	30	5'-TAATACGACTCACTATAGGGTTACCTTTATACCTTTCTTTTTACAATACCCCCTTGTGTAATTG-3'
			5'-PO4-CTTTGTGTGCGACAGGGAGGTCCCTTTAGTGAGGGTTAAT-3'
ZFP36L2	NM_006887	31	5'-TAATACGACTCACTATAGGGTTCACTTTTCAATCAACTTTAATCGAACTCTGTGCCGGGAGGGG-3'
			5'-PO4-CCCCCACCCCTCCTTTTTCGTCCCTTTAGTGAGGGTTAAT-3'
CD24	NM_013230	33	5'-TAATACGACTCACTATAGGGTCAATTACTTCACTTTAATCCTTTTAAAAGTGGGCTTGATTCTG-3'
			5'-PO4-CAGTAAATCTTTTACAACTGTCCCTTTAGTGAGGGTTAAT-3'
SLA	NM_006748	40	5'-TAATACGACTCACTATAGGGCTTTCTACATTATTCACAACATTAGCTACTGGTATGTGTATGTG-3'
			5'-PO4-CAGTTACACAGTTTCCTGTATCCCTTTAGTGAGGGTTAAT-3'
GAPDH	NM_002046	42	5'-TAATACGACTCACTATAGGGCTATCTTCATATTTCACTATAAACCCCCTTGAAGAGGGGAGGGG-3'
			5'-PO4-CCTAGGGAGCCGCACCTTGTTCCCTTTAGTGAGGGTTAAT-3'
ACTB	NM_001101	44	5'-TAATACGACTCACTATAGGGTCATTTACCAATCTTTCTTTATACCCTCTCCCAAGTCCACACAG-3'
			5'-PO4-GGGAGGTGATAGCATTGCTTTCCCTTTAGTGAGGGTTAAT-3'
RPLP0	NM_001002	45	5'-TAATACGACTCACTATAGGGTCATTTCACAATTCAATTACTCAAAACTTAGCCAGTTTTATTTG-3'
			5'-PO4-CAAAACAAGGAAATAAAGGCTCCCTTTAGTGAGGGTTAAT-3'

AML1	NM_001754	47	5'-TAATACGACTCACTATAGGGCTTCTCATTAACTTACTTCATAATCTGTTCAGGAGCCACCAGAG-3'
			5'-PO4-CCTTCCTCTCTTTGTACCACTCCCTTTAGTGAGGGTTAAT-3'
LST1	NM_007161	51	5'-TAATACGACTCACTATAGGGTCATTTCAATCAATCATCAACAATGTGTCTCAGTCCTCTCAGTC-3'
			5'-PO4-CATCTCGAGCCTCCGTTCAATCCCTTTAGTGAGGGTTAAT-3'

Supplementary Table 4. Myeloid Differentiation Marker Genes

GENE NAME	RefSeq	LUA TAG	PROBE SEQUENCE
RGS2	NM_002923	1	5'-TAATACGACTCACTATAGGGCTTTAATCTCAATCAATACAAATCAGGGAATAGGTGGTCTGAAC-3'
			5'-Phos-GTGGTGTCTCACTCTGAAAATCCCTTTAGTGAGGGTTAAT-3'
NCF1	NM_000265	2	5'-TAATACGACTCACTATAGGGCTTTATCAATACATACTACAATCATGGACGCCGAGGGCAGCCCC-3'
			5'-Phos-GACCCCTGTCCAGCGCGGCTTCCCTTTAGTGAGGGTTAAT-3'
KIAA0513	NM_014732	3	5'-TAATACGACTCACTATAGGGTACACTTTATCAAATCTTACAATCCACCAGTATCTTCTCTGTTG-3'
			5'-Phos/CATTTTTGCAATCTTGTGTCTCCCTTTAGTGAGGGTTAAT-3'
IER3	NM_003897	4	5'-TAATACGACTCACTATAGGGTACATTACCAATAATCTTCAAATCGCTGTCACGGAGCGACTGTC-3'
			5'-Phos-GAGATCGCCTAGTATGTTCTTCCCTTTAGTGAGGGTTAAT-3'
EMR3	NM_032571	5	5'-TAATACGACTCACTATAGGGCAATTCAAATCACAATAATCAATCGATGGGTCCTGACTCAAAAC-3'
			5'-Phos-CCAGTGAGGGGGATGTTTTTTCCCTTTAGTGAGGGTTAAT-3'
KIAA0913	NM_015037	9	5'-TAATACGACTCACTATAGGGTAATCTTCTATATCAACATCTTACTGGGAGGGGGCGTTGGGTGG-3'
			5'-Phos-CCTCTGGTATTTATTTGGCATCCCTTTAGTGAGGGTTAAT-3'
CYP4F3	NM_000896	15	5'-TAATACGACTCACTATAGGGATACTTCATTCATTCATCAATTCATCTGGATTTTCTATCTATTC-3'
			5'-Phos-CATGTTGGACCAATACCACATCCCTTTAGTGAGGGTTAAT-3'
PSMG1	NM_003720	24	5'-TAATACGACTCACTATAGGGTCAATTACCTTTTCAATACAATACAACAACCGAATATAGTACAC-3'
			5'-Phos-GACCTTCCTGCAGCAGTTCTTCCCTTTAGTGAGGGTTAAT-3'
NPM1	NM_002520	25	5'-TAATACGACTCACTATAGGGCTTTTCAATTACTTCAAATCTTCATGATAGGACATAGTAGTAGC-3'
			5'-Phos-GGTGGTCAGACATGGAAATGTCCCTTTAGTGAGGGTTAAT-3'
PEBP1	NM_002567	26	5'-TAATACGACTCACTATAGGGTTACTCAAAATCTACACTTTTTCAGAAAAGCTGGTCTGGAGTTG-3'
			5'-Phos-CTGAATGTTGCATTAATTGTTCCCTTTAGTGAGGGTTAAT-3'
ANP32E	NM_030920	27	5'-TAATACGACTCACTATAGGGAAAGTTGAGTATTGATTTGAAAAGATATTTTGTAGAAGTTTTCG-3'
			5'-Phos-GTCCTATTTTAATGCTTTTGTCCCTTTAGTGAGGGTTAAT-3'
BCLAF1	NM_001077440	31	5'-TAATACGACTCACTATAGGGTTCACTTTTCAATCAACTTTAATCAAATAACTCACTGATACCTG-3'
			5'-Phos-CGTTAACATACTTTGTTTTGTCCCTTTAGTGAGGGTTAAT-3'
LAS1L	NM_031206	35	5'-TAATACGACTCACTATAGGGCAATTTCATCATTCATTCATTTCATGGGAGACAGCCTGGATCAG-3'
			5'-Phos-CCACATCAACTCAGTTGTCCTCCCTTTAGTGAGGGTTAAT-3'
MPO	NM_000250	40	5'-TAATACGACTCACTATAGGGCTTTCTACATTATTCACAACATTATTCCTCACCCTGATTTCTTG-3'
			5'-Phos-CTTATTCACTGAAGTTCTCCTCCCTTTAGTGAGGGTTAAT-3'
HSP90B1	NM_003299	42	5'-TAATACGACTCACTATAGGGCTATCTTCATATTTCACTATAAACGGAGAGACTTGTTTTGGATG-3'
			5'-Phos-CCCCCTAATCCCCTTCTCCCTCCCTTTAGTGAGGGTTAAT-3'
GINS2	NM_016095	43	5'-TAATACGACTCACTATAGGGCTTTCAATTACAATACTCATTACAGCCAACAATGCTGACCGGTG-3'
			5'-Phos-CTTATCCTCTAAGCCCTGATTCCCTTTAGTGAGGGTTAAT-3'
CTA-126B4.3	NM_015703	45	5'-TAATACGACTCACTATAGGGTCATTTCACAATTCAATTACTCAACCTCAATGCAAAAGCCCTTG-3'
			5'-Phos-CTGGCAACGAAAAAGCCTCATCCCTTTAGTGAGGGTTAAT-3'
PRTN3	NM_002777	51	5'-TAATACGACTCACTATAGGGTCATTTCAATCAATCATCAACAATCTTCGTGATCTGGGGATGTG-3'
			5'-Phos-CCACCCGCCTTTTCCCTGACTCCCTTTAGTGAGGGTTAAT-3'
HSPB1	NM_001537	95	5'-TAATACGACTCACTATAGGGTACACTTTAAACTTACTACACTAAAAATCCGATGAGACTGCCGC-3'
			5'-Phos-CAAGTAAAGCCTTAGCCTGGTCCCTTTAGTGAGGGTTAAT-3'
G0S2	NM_015714	92	5'-TAATACGACTCACTATAGGGCTATTACACTTTAAACATCAATACTAGAACTGACCTACCACAAG-3'

			5'-Phos-CATCCACCAAAGGAGTTTGGTCCCTTTAGTGAGGGTTAAT-3'
SLC2A3	NM_006931	93	5'-TAATACGACTCACTATAGGGCTTTCTATTCATCTAAATACAAACACTTCATGTCAACTTTCTGG-3'
			5'-Phos-CTCCTCAAACAGTAGGTTGGTCCCTTTAGTGAGGGTTAAT-3'
S100P	NM_005980	94	5'-TAATACGACTCACTATAGGGCTTTCTATCTTTCTACTCAATAATTCACAGATTCCTGGCAGAGC-3'
			5'-Phos-CATGGTCCCAGGCTTCCCAATCCCTTTAGTGAGGGTTAAT-3'
SERPINA1	NM_000295	98	5'-TAATACGACTCACTATAGGGAATCATACTCAACTAATCATTCAATTACATTTACCCAAACTGTC-3'
			5'-Phos-CATTACTGGAACCTATGATCTCCCTTTAGTGAGGGTTAAT-3'
FUCA1	NM_000147	99	5'-TAATACGACTCACTATAGGGAATCTACACTAACAATTTCATAACGGAAAAGGCTTACCAGGCTG-3'
			5'-Phos-CTATGGTCAACTCTTCAGAATCCCTTTAGTGAGGGTTAAT-3'
ALOX5	NM_000698	14	5'-TAATACGACTCACTATAGGGCTACTATACATCTTACTATACTTTCTCAGCATTTCCACACCAAG-3'
			5'-Phos-CAGCAACAGCAAATCACGACTCCCTTTAGTGAGGGTTAAT-3'
NPC2	NM_006432	96	5'-TAATACGACTCACTATAGGGATACTAACTCAACTAACTTTAAACCAGAAACTGAGCTCCGGGTG-3'
			5'-Phos-GCTGGTTCTCAGTGGTTGTCTCCCTTTAGTGAGGGTTAAT-3'
FCER1G	NM_004106	44	5'-TAATACGACTCACTATAGGGTCATTTACCAATCTTTCTTTATACCCAGGAACCAGGAGACTTAC-3'
			5'-Phos-GAGACTCTGAAGCATGAGAATCCCTTTAGTGAGGGTTAAT-3'
NCF2	NM_000433	28	5'-TAATACGACTCACTATAGGGCTACAAACAAACAAACATTATCAAAAGGGCACGAGAGAGTCTTC-3'
			5'-Phos-CAGGTACTGATCCTGTTTCTTCCCTTTAGTGAGGGTTAAT-3'
ITGAM	NM_000632	12	5'-TAATACGACTCACTATAGGGTACACTTTCTTTCTTTCTTTCTTTGGTTTCCTTCAGACAGATTC-3'
			5'-Phos-CAGGCGATGTGCAAGTGTATTCCCTTTAGTGAGGGTTAAT-3'
ITGB2	NM_000211	39	5'-TAATACGACTCACTATAGGGTACACAATCTTTTCATTACATCATAGAAATCCAGTTATTTTCCG-3'
			5'-Phos-CCCTCAAAATGACAGCCATGTCCCTTTAGTGAGGGTTAAT-3'
GAPDH	NM_002046	34	5'-TAATACGACTCACTATAGGGTCATTCATATACATACCAATTCATATCTCCCCTCCTCACAGTTG-3'
			5'-Phos-CCATGTAGACCCCTTGAAGATCCCTTTAGTGAGGGTTAAT-3'
HNRNPAB	NM_031266	52	5'-TAATACGACTCACTATAGGGTCAATCATCTTTATACTTCACAATGCCTGGACCTGTGGACCCTG-3'
			5'-Phos-GTTGTAAAGAGTAAATTGTATCCCTTTAGTGAGGGTTAAT-3'