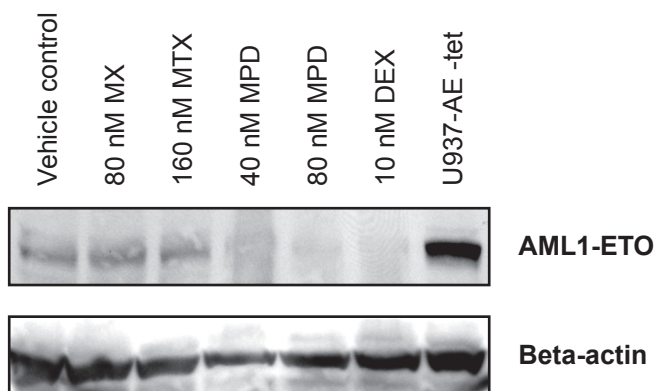


**Supplementary Figure S1: Early decrease in AML1-ETO protein abundance upon corticosteroid treatment for 24 hours**



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)

<b>Sample Name</b>	<b>Scan Name</b>	<b>Construct</b>	<b>Transfect Method</b>
Kasumi_d4-1	CL2004072907AA	None	None
Kasumi_d4-3	CL2004072909AA	None	None
Kas_Amx_d4-1	CL2004100118AA	None	Amaya 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	Amaya nucleofection
siGL_Amx-d4-2	CL2004100120AA	luciferase	Amaya 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	Amaya nucleofection
AML1-ETO_Amx_d4-2	CL2004100122AA	AML1-ETO	Amaya nucleofection
AML1-ETO_Amx_d4-3	CL2004100123AA	AML1-ETO	Amaya nucleofection

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

<b>Sample Name</b>	<b>Scan Name</b>	<b>Class</b>	<b>Time</b>
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'-TAATACGACTCACTATAGGGCTTTAATCTCAATCAATACAAATCACAACTCTAGTTTGATACTC-3' 5'-PO4-CCAGTCTTGTCATTGCCAGCTCCCTTTAGTGAGGGTTAAT-3'
BCL2	NM_000633	2	5'-TAATACGACTCACTATAGGGCTTTATCAATACATACTACAATCAACATCCATTATAAGCTGTGC-3' 5'-PO4-CAGAGGGGCTACGAGTGGGATCCCTTTAGTGAGGGTTAAT-3'
ATP2B4	NM_0010013	3	5'-TAATACGACTCACTATAGGGTACACTTTTATCAAATCTTACAATCGAGCCAAATAAAGCTTTTGTG-3' 5'-PO4-CTGATGAACAGAAACCAATATCCCTTTAGTGAGGGTTAAT-3'
CXCR4	NM_0010085	4	5'-TAATACGACTCACTATAGGGTACATTACCAATAATCTTCAAATCCAGGAGTGGGTTGATTTTCAG-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-CCCCTTGCAAACCTTCTTCGATCCCTTTAGTGAGGGTTAAT-3'
CTSG	NM_001911	10	5'-TAATACGACTCACTATAGGGATCATAACATACATAACAAATCTACAGCTCCACAGTGTGCCAGAG-3' 5'-PO4-CCTTAATAAACGTCACAGATCCCTTTAGTGAGGGTTAAT-3'
ICAM3	NM_002162	11	5'-TAATACGACTCACTATAGGGTACAAATCATCAATCACTTTAATCTAATGTACGCTTTCAGGGAG-3' 5'-PO4-CACCAACGGAGCGGAGTATCCCTTTAGTGAGGGTTAAT-3'
PLP2	NM_002668	15	5'-TAATACGACTCACTATAGGGATATTCATTCAATCAATTCATGAAATAACTCCTCCCCAC-3' 5'-PO4-CCCAACAACAACATTCCCAGTCCCTTTAGTGAGGGTTAAT-3'
PRG1	NM_002727	16	5'-TAATACGACTCACTATAGGGAAATCAATCTTCAATTCAAATCATCAATGTGTTTGAGAGCTAGTG-3' 5'-PO4-GATGTGTTTGTCTACAAGTATCCCTTTAGTGAGGGTTAAT-3'
RAC2	NM_002872	18	5'-TAATACGACTCACTATAGGGTCAAATCTCAAATACTCAAATCACCAACTCAACCTGCTTAAG-3' 5'-PO4-CAGAAAATAAATTTATTGATCCCTTTAGTGAGGGTTAAT-3'
RNASE2	NM_002934	19	5'-TAATACGACTCACTATAGGGTCAATCAATTACTTACTCAAATACTGTCTAGTAACAAAACCTCG-3' 5'-PO4-CAAAAATTGTCACCACAGTGTCCCTTTAGTGAGGGTTAAT-3'
RNASE3	NM_002935	20	5'-TAATACGACTCACTATAGGGCTTTTACAATACTTCAATACAATCAGTCTGAACCCCCCTCGATG-3' 5'-PO4-CACCATTGCAATGCGGGCAATCCCTTTAGTGAGGGTTAAT-3'
TYROBP	NM_003332	22	5'-TAATACGACTCACTATAGGGAATCCTTTTACTCAATTCAAATCAATCCCTGAGAGACCAGACCG-3' 5'-PO4-CTCCCCAATACTCTCCTAAATCCCTTTAGTGAGGGTTAAT-3'
CST7	NM_003650	24	5'-TAATACGACTCACTATAGGGTCAATTACCTTTTCAATACAATACCTACCTGCAAGAAAAACCAG-3' 5'-PO4-CACCTGCGTCTGGATGACTGTCCCTTTAGTGAGGGTTAAT-3'
CBFA2T1	NM_004349	25	5'-TAATACGACTCACTATAGGGCTTTTCAATTACTTCAAATCTTACGCCCTAAATAACCTTCAAC-3' 5'-PO4-GTTTCTTCACTTTTGCAAGTTCCTTTAGTGAGGGTTAAT-3'
RASGRP2	NM_005825	27	5'-TAATACGACTCACTATAGGGCTTTTCAAACTCAACTCAACTTTAGGATGGGGTGTGATGCATC-3' 5'-PO4-CACTTGTAATAGATGCTGTGTCCCTTTAGTGAGGGTTAAT-3'
MS4A3	NM_006138	28	5'-TAATACGACTCACTATAGGGTACAAACAACAACATATCAAGATTTTATTTTCAGTGAAGTGC-3' 5'-PO4-CTGGAACCTCACACATGCCCTTCCCTTTAGTGAGGGTTAAT-3'
LAPTM5	NM_006762	30	5'-TAATACGACTCACTATAGGGTTACCTTTTATACCTTTCTTTTACAATACCCCTTGTGTAATTG-3' 5'-PO4-CTTTGTGTGCGACAGGGAGGTCCTTTAGTGAGGGTTAAT-3'
ZFP36L2	NM_006887	31	5'-TAATACGACTCACTATAGGGTTCACCTTTTCAATCAACTTTAATCGAACTCTGTGCCGGGAGGGG-3' 5'-PO4-CCCCACCCCTCCTTTTTCGTCCTTTAGTGAGGGTTAAT-3'
CD24	NM_013230	33	5'-TAATACGACTCACTATAGGGTCAATTACTTCACTTTAATCCTTTTAAAGTGGGCTTGATTCTG-3' 5'-PO4-CAGTAAATCTTTTACAACCTGTCCCTTTAGTGAGGGTTAAT-3'
SLA	NM_006748	40	5'-TAATACGACTCACTATAGGGCTTCTACATTATTCACAACATTAGCTACTGGTATGTGTATGTG-3' 5'-PO4-CAGTTACACAGTTTCTGTATCCCTTTAGTGAGGGTTAAT-3'
GAPDH	NM_002046	42	5'-TAATACGACTCACTATAGGGCTATCTTCAATTTCACTATAAACCCCTTGAAGAGGGGAGGGG-3' 5'-PO4-CCTAGGGAGCCGACCTTGTTCCTTTAGTGAGGGTTAAT-3'
ACTB	NM_001101	44	5'-TAATACGACTCACTATAGGGTCATTTACCAATCTTTCTTTTATACCTCTCCCAAGTCCACACAG-3' 5'-PO4-GGGAGGTGATAGCATTGCTTTCCCTTTAGTGAGGGTTAAT-3'
RPLP0	NM_001002	45	5'-TAATACGACTCACTATAGGGTCATTTACAATTCAAATTACTCAAACCTTAGCCAGTTTATTG-3' 5'-PO4-CAAAACAAGGAAATAAAGGCTCCCTTTAGTGAGGGTTAAT-3'

**AML1** NM\_001754 47 5' -TAATACGACTCACTATAGGGCTTCTCATTAACTTACTTCATAATCTGTTTCAGGAGCCACCAGAG-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' -TAATACGACTCACTATAGGGCTTTAATCTCAATCAATCAAAATCAGGGAATAGGTGGTCTGAAC-3' 5' -Phos-GTGGTGTCTCACTCTGAAAAATCCCTTTAGTGAGGGTTAAT-3'
NCF1	NM_000265	2	5' -TAATACGACTCACTATAGGGCTTTATCAATACATACTACAATCATGGACGCCGAGGGCAGCCCC-3' 5' -Phos-GACCCCTGTCCAGCGCGGCTTCCCTTTAGTGAGGGTTAAT-3'
KIAA0513	NM_014732	3	5' -TAATACGACTCACTATAGGGTACACTTTATCAAATCTTACAATCCACCAGTATCTTCTCTGTG-3' 5' -Phos/CATTTTTGCAATCTTGTGTCTCCCTTTAGTGAGGGTTAAT-3'
IER3	NM_003897	4	5' -TAATACGACTCACTATAGGGTACATTACCAATAATCTTCAAATCGCTGTACGGAGCGACTGTC-3' 5' -Phos-GAGATCGCCTAGTATGTTCTTCCCTTTAGTGAGGGTTAAT-3'
EMR3	NM_032571	5	5' -TAATACGACTCACTATAGGGCAATTCAAATCACAATAATCAATCGATGGGTCCTGACTCAAAAC-3' 5' -Phos-CCAGTGAGGGGGATGTTTTTCCCTTTAGTGAGGGTTAAT-3'
KIAA0913	NM_015037	9	5' -TAATACGACTCACTATAGGGTAATCTTCTATATCAACATCTTACTGGGAGGGGGCGTTGGGTGG-3' 5' -Phos-CCTCTGGTATTTATTTGGCATCCCTTTAGTGAGGGTTAAT-3'
CYP4F3	NM_000896	15	5' -TAATACGACTCACTATAGGGATACTTCATTTCATCAATTCATCTGGATTTTCTATCTATTC-3' 5' -Phos-CATGTTGGACCAATACCACATCCCTTTAGTGAGGGTTAAT-3'
PSMG1	NM_003720	24	5' -TAATACGACTCACTATAGGGTCAATTACCTTTTCAATAACAATACAACAACCGAATATAGTACAC-3' 5' -Phos-GACCTTCTGCAGCAGTTCCTCCCTTTAGTGAGGGTTAAT-3'
NPM1	NM_002520	25	5' -TAATACGACTCACTATAGGGCTTTTCAATTACTTCAAATCTTCATGATAGGCATAGTAGTAGC-3' 5' -Phos-GGTGGTCAGACATGGAAATGTCCTTTAGTGAGGGTTAAT-3'
PEBP1	NM_002567	26	5' -TAATACGACTCACTATAGGGTACTCAAATCTACACTTTTTAGAAAAGCTGGTCTGGAGTTG-3' 5' -Phos-CTGAATGTTGCATTAATGTTCCCTTTAGTGAGGGTTAAT-3'
ANP32E	NM_030920	27	5' -TAATACGACTCACTATAGGGAAAGTTGAGTATGATTTGAAAAGATATTTGTAGAAGTTTTTCG-3' 5' -Phos-GTCCTATTTTAAATGCTTTTGTCCCTTTAGTGAGGGTTAAT-3'
BCLAF1	NM_001077440	31	5' -TAATACGACTCACTATAGGGTTCACCTTTTCAATCACTTTAATCAAATAACTCACTGATACCTG-3' 5' -Phos-CGTTAACATACTTTGTTTTGTCCCTTTAGTGAGGGTTAAT-3'
LAS1L	NM_031206	35	5' -TAATACGACTCACTATAGGGCAATTTTCATCAATTCATTTTCATGGGAGACAGCCTGGATCAG-3' 5' -Phos-CCACATCAACTCAGTTGTCTCCCTTTAGTGAGGGTTAAT-3'
MPO	NM_000250	40	5' -TAATACGACTCACTATAGGGCTTCTACATTATTCACAACATTATTCCTCACCTGATTTCTTG-3' 5' -Phos-CTTATTCAGTGAAGTTCCTCCCTTTAGTGAGGGTTAAT-3'
HSP90B1	NM_003299	42	5' -TAATACGACTCACTATAGGGCTATCTTCATATTTCACTATAAACGGAGAGACTTGTTTTGGATG-3' 5' -Phos-CCCCCTAATCCCCCTTCTCCCTCCCTTTAGTGAGGGTTAAT-3'
GIN52	NM_016095	43	5' -TAATACGACTCACTATAGGGCTTTCAATTACAATACTCATTACAGCCAACAATGCTGACCCGGTG-3' 5' -Phos-CTTATCCTCTAAGCCCTGATTCCTTTAGTGAGGGTTAAT-3'
CTA-126B4.3	NM_015703	45	5' -TAATACGACTCACTATAGGGTCAATTTACAATTCATTAATCAACCTCAATGCAAAAAGCCCTTG-3' 5' -Phos-CTGGCAACGAAAAGCCCTCATCCCTTTAGTGAGGGTTAAT-3'
PRTN3	NM_002777	51	5' -TAATACGACTCACTATAGGGTCAATTTCAATCAATCATCAACAATCTTCGTGATCTGGGGATGTG-3' 5' -Phos-CCACCCGCTTTTCCCTGACTCCCTTTAGTGAGGGTTAAT-3'
HSPB1	NM_001537	95	5' -TAATACGACTCACTATAGGGTACACTTTAACTTACTACACTAAAAATCCGATGAGACTGCCGC-3' 5' -Phos-CAAGTAAAGCCTTAGCCTGGTCCCTTTAGTGAGGGTTAAT-3'
G0S2	NM_015714	92	5' -TAATACGACTCACTATAGGGCTATTACACTTTAAACATCAATACTAGAAGTACCTACCACAAG-3'

			5' - Phos - CATCCACCAAAGGAGTTTGGTCCCTTTAGTGAGGGTTAAT - 3'
<b>SLC2A3</b>	NM_006931	93	5' - TAATACGACTCACTATAGGGCTTTCTATTCACTAAATACAAACACTTCATGTCAACTTTCTGG - 3'
			5' - Phos - CTCCTCAAACAGTAGGTTGGTCCCTTTAGTGAGGGTTAAT - 3'
<b>S100P</b>	NM_005980	94	5' - TAATACGACTCACTATAGGGCTTTCTATCTTTCTACTCAATAATTACAGATTCCCTGGCAGAGC - 3'
			5' - Phos - CATGGTCCCAGGCTTCCCAATCCCTTTAGTGAGGGTTAAT - 3'
<b>SERPINA1</b>	NM_000295	98	5' - TAATACGACTCACTATAGGGAATCATACTCAACTAATCATTCAATTACATTTACCCAAACTGTC - 3'
			5' - Phos - CATTACTGGAACCTATGATCTCCCTTTAGTGAGGGTTAAT - 3'
<b>FUCA1</b>	NM_000147	99	5' - TAATACGACTCACTATAGGGAATCTACACTAACAATTTCAACGAAAAGGCTTACCAGGCTG - 3'
			5' - Phos - CTATGGTCAACTCTTCAGAATCCCTTTAGTGAGGGTTAAT - 3'
<b>ALOX5</b>	NM_000698	14	5' - TAATACGACTCACTATAGGGCTACTATACATCTTACTATACTTTCTCAGCATTTCCACACCAAG - 3'
			5' - Phos - CAGCAACAGCAAATCACGACTCCCTTTAGTGAGGGTTAAT - 3'
<b>NPC2</b>	NM_006432	96	5' - TAATACGACTCACTATAGGGATACTAACTCAACTAACTTTAAACCAGAAACTGAGCTCCGGGTG - 3'
			5' - Phos - GCTGGTTCTCAGTGGTTGTCTCCCTTTAGTGAGGGTTAAT - 3'
<b>FCER1G</b>	NM_004106	44	5' - TAATACGACTCACTATAGGGTCATTTACCAATCTTTCTTTATACCCAGGAACCAGGAGACTTAC - 3'
			5' - Phos - GAGACTCTGAAGCATGAGAATCCCTTTAGTGAGGGTTAAT - 3'
<b>NCF2</b>	NM_000433	28	5' - TAATACGACTCACTATAGGGCTACAAACAAACAAACATTATCAAAGGGCACGAGAGAGTCTTC - 3'
			5' - Phos - CAGGTACTGATCCTGTTTCTTCCCTTTAGTGAGGGTTAAT - 3'
<b>ITGAM</b>	NM_000632	12	5' - TAATACGACTCACTATAGGGTACACTTTCTTTCTTTCTTTGTTTTCCTTCAGACAGATTC - 3'
			5' - Phos - CAGGCGATGTGCAAGTGATTCCTTTAGTGAGGGTTAAT - 3'
<b>ITGB2</b>	NM_000211	39	5' - TAATACGACTCACTATAGGGTACACAATCTTTTCATTACATCATAGAAATCCAGTTATTTTCCG - 3'
			5' - Phos - CCCTCAAATGACAGCCATGTCCCTTTAGTGAGGGTTAAT - 3'
<b>GAPDH</b>	NM_002046	34	5' - TAATACGACTCACTATAGGGTCATTCATATACATACCAATTCATATCTCCCTCCTCACAGTTG - 3'
			5' - Phos - CCATGTAGACCCCTTGAAGATCCCTTTAGTGAGGGTTAAT - 3'
<b>HNRNPAB</b>	NM_031266	52	5' - TAATACGACTCACTATAGGGTCAATCATCTTTATACTTCACAATGCCTGGACCTGTGGACCCTG - 3'
			5' - Phos - GTTGTAAGAGTAAATTGTATCCCTTTAGTGAGGGTTAAT - 3'