

Supporting Table S1. Top 200 significantly up regulated genes in AML cells compare to EB-LCL.

Name	Log2Ratio	Name	Log2Ratio	Name	Log2Ratio	Name	Log2Ratio
LYZ	14.71545345	SERPINA1	7.937607149	PRKCA	6.824219281	QPCT	6.178491524
TSPYL1	12.14510308	SPP1	7.927924596	GLIPR2	6.811637558	BAG4	6.176418898
ITGAX	12.05623577	SHISA2	7.918176619	CD3E	6.801068316	GHRL	6.13145799
CD34	11.44619691	SNCA	7.905076007	IGHA2	6.795754516	IGFBP7	6.122996411
CD3G	11.27608642	GZMB	7.863352595	TMEM33	6.761942926	TMTC3	6.116191233
HS3ST3B1	10.2459614	ITGA2B	7.811637558	HECA	6.735973288	MYADM	6.094766677
RIN2	10.20111058	CARD16	7.807023039	GLT25D1	6.686334593	NFIL3	6.094427259
TNFRSF25	10.16481659	CNOT6L	7.778011437	S100A16	6.667801785	ADNP	6.094184769
TRAT1	10.15965488	CSGALNACT1	7.752524464	BZW2	6.629484854	FBXW4	6.093602626
ADAM19	10.08719569	SLC31A2	7.69659905	TCF7L2	6.623498559	EIF4E3	6.082839285
STON2	10.01052168	ANKRD34B	7.614472283	CCR2	6.620496071	NFIB	6.078469685
MED12L	9.951575864	ACVR2A	7.5414245	KIAA1467	6.610845901	SAR1A	6.073470603
ARRDC3	9.80139978	RAP2B	7.536821052	EEPD1	6.608423238	C1orf162	6.07115748
RGL4	9.699447412	ANKRD40	7.515326663	TRGC2	6.602348724	UBASH3A	6.053455478
MS4A6A	9.682991996	CSF1R	7.508021341	KIT	6.596248524	PRR5L	6.053455478
PACS2	9.494965189	TXK	7.494965189	HBEGF	6.583970195	TULP4	6.048789667
SLC30A4	9.455072461	CD14	7.4817898	MASP2	6.518381853	BCL11A	6.046216652
MEIS1	9.438403519	ELF5	7.438119328	CHP1	6.518302031	USP24	6.040676873
IGSF10	9.404476484	PRG2	7.39073782	TMEM71	6.487074403	RDH10	6.017386223
FCRL3	9.359263907	MTL5	7.386030817	CASP2	6.476007447	NOL9	6.014529966
GSTA1	9.187311225	CSF2RA	7.386030817	CMTM7	6.468492977	GIMAP7	6.012813493
PFKFB2	9.117327661	PYGL	7.303568657	FCGR2A	6.461798325	ARID2	6.006478489
CD2	8.985068503	STK17B	7.301472878	KCNAB1	6.459559852	PPP3CA	5.991187814
ABCA1	8.902606343	GFI1B	7.298567976	FPR1	6.455072461	MMP8	5.986623969
FYB	8.881023621	CYP24A1	7.283461083	MMRN1	6.446055588	DPEP2	5.980392016
NKX3-1	8.853796178	SLC40A1	7.280927817	SEPP1	6.434704664	IGHA1	5.965119872
RNF144B	8.674572743	S100A2	7.268194327	PTGS2	6.427850993	VSIG10	5.959806244
FOS	8.66489019	FCER1A	7.268194327	MTSS1	6.420964607	ITK	5.948821937
HPGD	8.641383437	LTF	7.205458571	WRNIP1	6.419237862	ZNF165	5.945169542
SDK2	8.620496071	GIMAP4	7.178491524	LCLAT1	6.414143573	SPOCK2	5.942424166
PHACTR2	8.586536812	FCN1	7.114484911	SELP	6.407092433	CD163	5.942424166
IL7R	8.559095526	SLC25A37	7.101971898	WIPF3	6.364657166	ULBP1	5.932773995
DHRS3	8.558572716	HBD	7.079927689	CD8B	6.357461665	BANK1	5.913794267
KCNJ2	8.544912719	ERP27	7.056420936	RGS18	6.342962095	IL1B	5.91327782
VSTM1	8.494965189	UBE2W	7.052240577	SPNS3	6.328315319	ARHGAP25	5.909230987
MS4A3	8.475156707	PAN3	7.033898719	EGR1	6.325859667	RBM6	5.902185676
C16orf54	8.375098568	BACH2	7.017386223	CACUL1	6.300225294	MBOAT1	5.89401196
IGHG2	8.333325262	FLT3	7.008226224	TAGAP	6.291034303	CD47	5.893757218
FOXP1	8.300914203	CA5B	6.984401361	TGFBR2	6.275847899	RAB31	5.893514565
SLC48A1	8.233733025	PRKAR2B	6.970993318	CD68	6.274757014	NABP1	5.89147525
FCRL1	8.213451362	XYLT2	6.945749626	KIAA0430	6.274320429	ZNF333	5.879517414
TOB1	8.209873862	TRIB2	6.937607149	APOBEC3A	6.268194327	SEL1L3	5.876225676
PADI2	8.193385739	SRSF6	6.935431954	RRAGD	6.26435226	RNF169	5.8707227
SERPINB6	8.156548971	ITGA6	6.923058841	SOX4	6.263403431	C9orf72	5.867157507
VAT1L	8.114484911	ATP2B4	6.923058841	POLR3E	6.249964171	AASS	5.8470046
SATB1	8.088644906	MXD1	6.905898289	CASP1	6.226959641	ZDHHC2	5.843972817
BROX	8.004482341	PRF1	6.893514565	LAIR1	6.221400115	FAM210B	5.842888492
GPR83	7.944826656	CD8A	6.893514565	SLC18A2	6.213451362	MAF	5.832546548

Supporting Table S2. Top 200 significantly down regulated genes in AML cells compare to EB-LCL.

Name	Log2Ratio	Name	Log2Ratio	Name	Log2Ratio	Name	Log2Ratio
PLA1A	-9.840983377	MGLL	-5.771105552	PRLR	-4.986834243	THOP1	-4.456319526
FABP5	-9.819724257	NARFL	-5.745826144	PDP2	-4.986834243	TMUB1	-4.456319526
LTA	-9.416192698	IFI6	-5.74254356	DTX2	-4.986834243	PDCD1	-4.415677542
CDKN1A	-8.355172803	CHL1	-5.734855026	MRPS2	-4.979881482	ZBTB32	-4.415677542
FXYD2	-8.232813485	NCF1	-5.727263693	PYCRL	-4.968218565	PYURF	-4.415677542
CRYM	-8.153673265	NCF1C	-5.661433956	GRHPR	-4.967244922	FEZ1	-4.401871742
MMP7	-8.128744868	PGAM1	-5.605653693	RPL36	-4.962279569	TGFB11	-4.394918982
HIST1H1C	-7.969389109	GATM	-5.590175273	MAN2B1	-4.951730442	GSTP1	-4.389395201
CD70	-7.545353076	WDR62	-5.534322038	RPLP1	-4.934909583	PPIL1	-4.386854707
FTH1	-7.437507395	TRAF1	-5.495847891	TNN	-4.930250715	AKAP8L	-4.373857366
SERINC2	-7.363210122	DMD	-5.495847891	MTTP	-4.930250715	ARHGAP20	-4.373857366
HNF1B	-7.246396457	RPL14	-5.494047148	MT-CO3	-4.910068094	C5orf55	-4.373857366
HEY1	-7.246396457	TNF	-5.48606687	IL10	-4.901104369	GPR183	-4.373857366
KLK1	-7.205257762	MRPL23	-5.469616349	NCKAP5	-4.871357026	LRRK1	-4.373857366
CCL3	-7.0756021	STEAP3	-5.456319526	AICDA	-4.865565388	PIGR	-4.356783853
OAS3	-7.017713556	LGMN	-5.416536034	HNRNPM	-4.846439394	IER3	-4.352483715
CD80	-6.856250133	RRP1	-5.415677542	RPS19	-4.832002587	NFKBIA	-4.3518176
MSC	-6.856250133	MCOLN2	-5.413802694	MVD	-4.809956481	RPL12	-4.351303355
IFIT3	-6.845016634	CCNG1	-5.40648837	GAS2	-4.797356444	RHOT2	-4.350524862
DFNA5	-6.72178067	FDXR	-5.387932551	LDHA	-4.77642192	TOP3B	-4.345288214
CLNK	-6.687273961	SHKBP1	-5.382318945	CD274	-4.767521215	MFSD2A	-4.330788644
GIN54	-6.64394653	ICAM1	-5.36634983	ADAMTS12	-4.745826144	PRELID1	-4.32967233
CCL3L1	-6.593491815	AK4	-5.365345866	LAMP3	-4.745826144	SCARB1	-4.327871161
SLC1A1	-6.590175273	LGALS3	-5.330788644	HPDL	-4.745826144	LY6E	-4.32410887
QPRT	-6.571796744	IL21R	-5.310778684	GSTT1	-4.745826144	PDE4A	-4.316141868
PMAIP1	-6.553680614	ISYNA1	-5.29762178	IFIT1	-4.71265928	BNIP3	-4.30939635
EEFSEC	-6.495847891	UGT2B17	-5.277349385	PLEKHO2	-4.71265928	SCAMP4	-4.308762338
HSPA4L	-6.479509154	BCAS4	-5.263674448	RPLP2	-4.70249494	NME4	-4.304316433
ALPK2	-6.476219084	TMSB4X	-5.243752514	KCNV1	-4.678711948	TRAPPC5	-4.286394525
PDCD1LG2	-6.456319526	ILDR1	-5.240590835	BOP1	-4.678711948	TNFSF11	-4.286394525
PIK3R6	-6.453454193	CCL4	-5.220213448	TOMM40	-4.678711948	GSDMD	-4.286394525
DBNDD1	-6.308762338	RPS27A	-5.213460414	CXCR7	-4.64394653	BCAR1	-4.286394525
CYBA	-6.286394525	C6orf57	-5.193285121	GHDC	-4.626244528	ABCA6	-4.266216643
SLC12A8	-6.205257762	AHRR	-5.193285121	MYO1C	-4.624264164	MT1E	-4.256020876
ACTB	-6.191952608	STC2	-5.169037574	STEAP2	-4.60832262	ATP5G3	-4.250311601
NRSN2	-6.169037574	CHAC1	-5.164138775	SPAG16	-4.60832262	IL23R	-4.240590835
DUSP4	-6.140817701	CCL4L1	-5.14437552	ACADS	-4.60832262	BAK1	-4.222579427
PFN1	-6.069034067	RAB38	-5.141262908	ARID5A	-4.601091051	DHCR24	-4.219280329
FKBP8	-6.047945757	MYO6	-5.11082296	LPCAT1	-4.590175273	SESN2	-4.217131863
GNG11	-6.01431498	LMNA	-5.107128477	ISG15	-4.574857935	VDAC1	-4.20470736
PPAN	-5.996052773	TPI1	-5.098256552	PTGR1	-4.571796744	ACSM3	-4.200664651
NTRK2	-5.986834243	ARHGDI1	-5.080810391	PTPRCAP	-4.540151117	UPB1	-4.193285121
IFI30	-5.979345264	PYGB	-5.076471456	DENND6B	-4.534322038	DNAJC30	-4.193285121
EBI3	-5.889278934	GAPDH	-5.071976431	RASSF6	-4.534322038	MUC19	-4.193285121
TUBA1B	-5.879426456	PIDD	-5.067754239	NAA60	-4.534322038	C17orf99	-4.193285121
IL4I1	-5.8543506	ATP5D	-5.041282027	ENO2	-4.510396199	GJC1	-4.193285121
ALDOC	-5.851179144	MT2A	-5.041282027	LSM4	-4.503625241	TRAF4	-4.193285121
TMEM38A	-5.840983377	PRDX1	-5.029533631	NCF1B	-4.501407416	HSF1	-4.193285121