Table 2 Set of genes pairs with the highest changes in expression level. Listed are the genes significantly associated with each of the genetic resistance profiles in acute lymphoblastic and myeloblastic leukemia cells of patients, selected according to Spearman's correlation test. The probe sets are ranked according to the fold change and p-value. For each drug, 10 genes with the highest up- and down regulation are given

Probe set ID	**Gene Symbol**	**Gene Title**	**Ref Seq Transcript ID**	**p-value**	**Fold-Change**	**Probe set ID**	**Gene Symbol**	**Gene Title**	**Ref Seq Transcript ID**	**p-value**	**Fold-Change**
Up regulated genes in ALL						Up regulated genes in AML					
210116_at	*SH2D1A*	SH2 domain containing 1A	NM_001114937/// NM_002351	0.0171	4.24208	1170372_at	TESC	tescalcin	NM_001168325/// NM_017899 /// NR_031766	0.00255	12.1493
213539_at	***CD3D***	CD3d molecule, delta (CD3-TCR complex)	NM_000732/// NM_001040651	0.02982	3.53297	11739979_a_at	AKAP2 /// PALM2-AKAP2	A kinase (PRKA) anchor protein 2 /// PALM2-AKAP2 read through	NM_001004065//NM_001136562 /// NM_007203/// NM_147150	0.00082	7.871754
202242_at	TSPAN7	tetraspanin 7	NM_004615	0.02416	3.42316	11758661_s_at	CDKN2C	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	NM_001262 /// NM_078626	0.00778	7.536627
204214_s_at	RAB32	RAB32, member RAS oncogene family	NM_006834	0.00246	3.22785	11742973_at	ACAT1	acetyl-CoA acetyltransferase 1	NM_000019	0.00438	6.061995
205831_at	CD2	CD2 molecule	NM_001767	0.01965	3.21029	11721632_a_at	TMEM97	transmembrane protein 97	NM_014573	0.00842	5.208046
201012_at	ANXA1	annexin A1	NM_000700	0.01128	3.03654	11730900_s_at	MBOAT2	membrane bound O-acyltransferase	NM_138799	0.00375	5.177741

								domain containing 2			
219956_at	GALNT 6	UDP-N-acetyl-alpha- D-galactosamine:polypep tide N-acetylgalactosaminyltransferase	NM_007210	0.004 31	2.9984 2	11739061_at	SLC7A5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	NM_003486	0.0076 9	5.021 94
204319_s_at	RGS10	regulator of G-protein signaling 10	NM_001005339/// NM_002925	0.003 25	2.9910 6	11751921_s_at	AHR	aryl hydrocarbon receptor	NM_001621	0.0009 7	4.383 64
200832_s_at	SCD	stearoyl-CoA desaturase (delta-9-desaturase)	NM_005063	0.026 93	2.9275 7	11755458_a_at	HDDC2	HD domain containing 2	NM_016063	0.0045 5	3.926 8
201324_at	EMP1	epithelial membrane protein 1	NM_001423	0.046 55	2.8945 4	11724510_ at	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	NM_021127	0.0005 6	3.855 37
Down regulated genes in ALL						**Down regulated genes in AML**					
201044_x_at	DUSP1	dual specificity phosphatase 1	NM_004417	0.001 72	-2.9119 7	11744770_ a_at	HOXA11	homeobox A11	NM_005523	>0.000 01	-6.540 49
209374_s_at	IGHM	immunoglobulin heavy constant mu	---	0.021 72	-3.1366 1	11733344_ at	PTPRC	protein tyrosine phosphatase, receptor type, C	NM_002838/// NM_080921///NM_080922///NM_080923	0.0000 2	-6.600 78

221969_at	PAX5	paired box 5	NM_016734	0.0431	-3.29361	11731775_a_at	EMR1	egf-like module containing, mucin-like,	NM_001974	0.00806	-6.87826
202669_s_at	EFNB2	ephrin-B2	NM_004093	0.02139	-3.38863	11757197_s_at	NCRNA00201	hormone receptor-like 1non-protein coding RNA201	NR_026778	0.00445	-7.01821
202178_at	PRKCZ	protein kinase C, zeta	NM_001033581/// NM_001033582	0.00555	-3.43332	11723451_	FTO	fat mass and obesity associated	NM_001080432	0.00549	-7.24986
207655_s_at	BLNK	B-cell linker	/// NM_002744 NM_001114094/// NM_013314	0.04911	-3.4383	x_at 11725531_a_at	DSC2	desmocollin 2	NM_004949 /// NM_024422	0.0008	-9.05312
220068_at	VPREB 3	pre-B lymphocyte 3	NM_013378	0.0401 1	-3.89638	11721736_s_at	TNFRSF19	tumor necrosis factor receptor superfamil, member 19	NM_018647 /// NM_148957	>0.00001	-10.122
202668_at	EFNB2	ephrin-B2	NM_004093	0.01072	-4.56044	11727403_ at	GPC4	glypican 4	NM_001448	>0.00001	-10.3509
219737_s_at	PCDH9	protocadherin 9	NM_020403/// NM_203487	0.01516	-4.58794	11758111_s_at	FOXC1	forkhead box C1	NM_001453	0.00084	-11.8951
204913_s_at	SOX11	SRY (sex determining region Y)-box 11	NM_003108	0.0021	-11.69410	11735303_a_at	HOXA11	homeobox A11	NM_005523	>0.00001	-15.7699