

A: Early vs. Late relapse: Binary Classification

54 Precursor B-ALL Cases, 115 probe sets are selected with FDR cutoff 2.51%

AffyID	Overall Rank	Rank 1	Rank 2	p-value	FDR (%)	Gene Symbol
212694_s_at	1	1		1.5E-05	0	PCCB
210346_s_at	2		1	1.5E-05	0	CLK1
205407_at	3		2	2.1E-05	0	RECK
202705_at	4	2		6.4E-05	0	CCNB2
209251_x_at	5	3		5.6E-05	0	TUBA6
218662_s_at	6	4		0.00017	0	HCAP-G
212639_x_at	7	5		0.00013	0	K-ALPHA-1
201013_s_at	8	6		0.00023	0	PAICS
211072_x_at	9	7		0.00015	0	K-ALPHA-1
201014_s_at	10	8		0.00024	0	PAICS
213646_x_at	11	9		0.00019	0	K-ALPHA-1
210999_s_at	12		3	0.00025	0	GRB10
211750_x_at	13	10		0.00018	0	TUBA6
209123_at	14	11		0.00022	0	QDPR
218663_at	15	12		0.00014	0	HCAP-G
202573_at	16		4	9.6E-05	0	CSNK1G2
202503_s_at	17	13		0.00033	0	KIAA0101
211058_x_at	18	14		0.00021	0	K-ALPHA-1
202143_s_at	19	15		2.6E-05	0	COPS8
203401_at	20	16		0.0004	0	PRPS2
201980_s_at	21	17		0.00032	0	RSU1
204444_at	22	18		0.00057	0	KIF11
203362_s_at	23	19		0.00055	0	MAD2L1
202095_s_at	24	20		0.00039	0	BIRC5
204822_at	25	21		0.00035	0	TTK
201897_s_at	26	22		0.00037	0	CKS1B
202309_at	27	23		0.00034	0	MTHFD1
202345_s_at	28	24		0.00049	0	FABP5
200957_s_at	29	25		0.00019	0	SSRP1
217917_s_at	30	26		9.5E-05	0	DNCL2A
204170_s_at	31	27		0.00054	0	CKS2
220692_at	32		5	0.00026	0	HSPC047
204184_s_at	33		6	1.4E-05	0	ADRBK2
215856_at	34		7	0.00077	0	CD33L3
217942_at	35	28		0.00047	0	MRPS35
212496_s_at	36		8	0.00048	0	JMJD2B
200650_s_at	37	29		0.00036	0	LDHA
209714_s_at	38	30		0.00048	1.45	CDKN3
212020_s_at	39	31		0.00015	1.45	MKI67
219623_at	40		9	0.00035	1.45	ACTR5
202447_at	41	32		0.00047	1.45	DECR1
200654_at	42	33		0.00036	1.45	P4HB
219722_s_at	43		10	8.6E-05	1.45	MGC4171
201090_x_at	44	34		0.00061	1.45	K-ALPHA-1
200681_at	45	35		0.00075	1.45	GLO1
201391_at	46	36		0.00035	1.45	TRAP1
212359_s_at	47		11	0.00033	1.45	KIAA0913
213792_s_at	48		12	0.00084	1.45	INSR
219256_s_at	49		13	0.00086	1.45	SH3TC1

201590_x_at	50	37		0.00112	1.45	ANXA2
221773_at	51		14	0.00147	1.45	ELK3
208322_s_at	52		15	0.00037	1.45	SIAT4A
202519_at	53		16	0.0008	1.45	MONDOA
212873_at	54		17	0.00058	1.45	HA-1
218308_at	55	38		0.00034	1.45	TACC3
201030_x_at	56	39		0.00068	1.45	LDHB
210052_s_at	57	40		0.00071	1.45	TPX2
212949_at	58	41		0.00034	1.45	BRRN1
40225_at	59		18	0.00057	1.45	GAK
203710_at	60		19	0.00135	1.45	ITPR1
202678_at	61	42		0.00057	1.45	GTF2A2
213618_at	62		20	0.00136	1.45	CENTD1
202209_at	63	43		0.00041	1.45	LSM3
210282_at	64		21	0.00029	2.36	ZNF198
202854_at	65	44		0.00153	2.36	HPRT1
208770_s_at	66	45		0.00018	2.36	EIF4EBP2
211626_x_at	67		22	0.00119	2.36	ERG
219359_at	68		23	0.00163	2.36	FLJ22635
211995_x_at	69	46		0.00099	2.36	ACTG1
218425_at	70		24	0.00016	2.36	TRIAD3
35666_at	71		25	0.00161	2.36	SEMA3F
201292_at	72	47		0.00172	2.36	TOP2A
207157_s_at	73	48		0.00073	2.36	GNG5
218355_at	74	49		0.00107	2.36	KIF4A
217848_s_at	75	50		0.00174	2.36	PP
204162_at	76	51		0.00171	2.36	KNTC2
203554_x_at	77	52		0.00133	2.36	PTTG1
210156_s_at	78	53		0.00015	2.36	PCMT1
213564_x_at	79	54		0.00079	2.36	LDHB
218039_at	80	55		0.00172	2.36	NUSAP1
210427_x_at	81	56		0.00177	2.36	ANXA2
201563_at	82	57		0.00144	2.36	SORD
207857_at	83		26	0.00165	2.36	LILRA2
204887_s_at	84	58		0.00102	2.36	PLK4
208002_s_at	85	59		0.00153	2.36	BACH
211935_at	86	60		0.00158	2.36	ARL6IP
218829_s_at	87		27	0.00131	2.36	KIAA1416
212281_s_at	88	61		0.00207	2.36	MAC30
210580_x_at	89		28	0.00106	2.36	SULT1A3
201291_s_at	90	62		0.00225	2.36	TOP2A
212296_at	91	63		0.00158	2.36	PSMD14
212959_s_at	92		29	0.00175	2.36	MGC4170
204119_s_at	93	64		0.00169	2.36	ADK
213503_x_at	94	65		0.00205	2.36	ANXA2
212971_at	95		30	0.00132	2.36	CARS
214710_s_at	96	66		0.00235	2.36	CCNB1
202954_at	97	67		0.00135	2.36	UBE2C
220036_s_at	98		31	0.00104	2.51	LIMR
219493_at	99	68		0.0015	2.51	SHCBP1
200903_s_at	100	69		0.0013	2.51	AHCY
210338_s_at	101	70		0.0017	2.51	HSPA8
202441_at	102	71		0.0021	2.51	C10orf69

208988_at	103		32	0.00131	2.51	FBXL11
206592_s_at	104		33	0.00045	2.51	AP3D1
215299_x_at	105		34	0.00051	2.51	SULT1A1
215157_x_at	106	72		0.00063	2.51	PABPC3
212387_at	107		35	0.00208	2.51	TCF4
205909_at	108	73		0.00144	2.51	POLE2
205412_at	109	74		0.00166	2.51	ACAT1
219547_at	110	75		0.00117	2.51	COX15
202589_at	111	76		0.00264	2.51	TYMS
200853_at	112	77		0.00183	2.51	H2AFZ
218421_at	113		36	0.00166	2.51	CERK
204868_at	114	78		0.00204	2.51	ICT1
204616_at	115	79		0.00177	2.51	UCHL3

Rank 1 = ranks of probe sets with expression values being high in Early Relapse Group

Rank 2 = ranks of probe sets with expression values being high in Late Relapse Group

P values are those of F-test

B: Early vs late relapse: Linear regression

54 Precursor B-ALL Cases, 118 probe sets are selected with FDR ≤ 0.015

AffyID	Overall Rank	Rank 1	Rank 2	p-value	HOC P	FDR (%)	Gene Symbol
201030_x_at	1	1		1.00E-07	0.000864	0.0864	LDHB
213564_x_at	2	2		2.00E-07	0.002208	0.1104	LDHB
208787_at	3	3		1.60E-06	0.015358	0.5121	MRPL3
201013_s_at	4	4		3.70E-06	0.035033	0.5335	PAICS
202934_at	5	5		3.70E-06	0.035121	0.5335	HK2
201014_s_at	6	6		3.70E-06	0.035121	0.5335	PAICS
35666_at	7		1	3.90E-06	0.037325	0.5335	SEMA3F
212359_s_at	8		2	4.70E-06	0.045476	0.5689	KIAA0913
211995_x_at	9	7		0.000006	0.057174	0.5761	ACTG1
217942_at	10	8		6.40E-06	0.061773	0.5761	MRPS35
200903_s_at	11	9		6.60E-06	0.063588	0.5761	AHCY
211755_s_at	12	10		8.10E-06	0.077775	0.5761	ATP5F1
202276_at	13	11		8.30E-06	0.080068	0.5761	SHFM1
201268_at	14	12		8.40E-06	0.080539	0.5761	NME2
204616_at	15	13		9.50E-06	0.090981	0.5905	UCHL3
212694_s_at	16	14		9.80E-06	0.094326	0.5905	PCCB
219006_at	17	15		0.000012	0.115403	0.664	C6orf66
200786_at	18	16		1.31E-05	0.125742	0.664	PSMB7
202143_s_at	19	17		1.31E-05	0.125921	0.664	COPS8
91682_at	20		3	1.65E-05	0.15772	0.7902	EXOSC4
212363_x_at	21	18		0.000018	0.172745	0.8052	ACTG1
208758_at	22	19		1.85E-05	0.176751	0.8052	ATIC
201231_s_at	23	20		2.03E-05	0.194262	0.8275	ENO1
217884_at	24	21		2.21E-05	0.211195	0.8275	FLJ10774
210052_s_at	25	22		2.23E-05	0.213854	0.8275	TPX2
207783_x_at	26		4	2.24E-05	0.214598	0.8275	TPT1
210346_s_at	27		5	2.59E-05	0.247897	0.8548	CLK1
203517_at	28	23		2.68E-05	0.257062	0.8548	MTX2
221773_at	29		6	0.000027	0.258567	0.8548	ELK3
207857_at	30		7	2.77E-05	0.265144	0.8548	LILRA2
200650_s_at	31	24		2.85E-05	0.272486	0.8548	LDHA
204120_s_at	32	25		2.86E-05	0.273319	0.8548	ADK
200708_at	33	26		3.14E-05	0.300084	0.8548	GOT2
201326_at	34	27		3.17E-05	0.30321	0.8548	CCT6A
211970_x_at	35	28		3.18E-05	0.304231	0.8548	ACTG1
212020_s_at	36	29		3.21E-05	0.30659	0.8548	MKI67
216559_x_at	37	30		3.55E-05	0.339844	0.9136	LOC144983
205024_s_at	38	31		3.67E-05	0.350999	0.9136	RAD51
221978_at	39		8	3.71E-05	0.354883	0.9136	HLA-F
212488_at	40		9	3.95E-05	0.377603	0.925	COL5A1
201216_at	41	32		4.14E-05	0.395921	0.925	C12orf8
200763_s_at	42	33		4.25E-05	0.405918	0.925	RPLP1
203095_at	43	34		0.000043	0.411419	0.925	MTIF2
203325_s_at	44		10	4.33E-05	0.413479	0.925	COL5A1
200955_at	45	35		4.37E-05	0.417737	0.925	IMMT
208985_s_at	46	36		4.43E-05	0.423522	0.925	EIF3S1
200966_x_at	47	37		4.68E-05	0.44727	0.9493	ALDOA
200705_s_at	48	38		4.75E-05	0.454293	0.9493	EEF1B2
201563_at	49	39		4.84E-05	0.462843	0.9493	SORD

200957_s_at	50	40		5.57E-05	0.53176	1.069	SSRP1
204444_at	51	41		6.18E-05	0.58987	1.1164	KIF11
200883_at	52	42		6.33E-05	0.604993	1.1164	UQCRC2
208002_s_at	53	43		6.46E-05	0.616961	1.1164	BACH
205027_s_at	54		11	6.59E-05	0.628736	1.1164	MAP3K8
201322_at	55	44		0.000066	0.629625	1.1164	ATP5B
204119_s_at	56	45		6.67E-05	0.637005	1.1164	ADK
201550_x_at	57	46		0.000067	0.639324	1.1164	ACTG1
200806_s_at	58	47		6.81E-05	0.649469	1.1164	HSPD1
201947_s_at	59	48		6.93E-05	0.661235	1.1164	CCT2
201931_at	60	49		7.14E-05	0.681203	1.1164	ETFA
202441_at	61	50		7.22E-05	0.688765	1.1164	C10orf69
216274_s_at	62	51		7.29E-05	0.695466	1.1164	SPC18
202416_at	63	52		7.33E-05	0.698923	1.1164	DNAJC7
217946_s_at	64	53		7.44E-05	0.709818	1.1164	SAE1
204446_s_at	65		12	7.87E-05	0.750467	1.1531	ALOX5
222146_s_at	66		13	7.93E-05	0.755919	1.1531	TCF4
40225_at	67		14	0.000082	0.781489	1.1705	GAK
209900_s_at	68	54		8.29E-05	0.790369	1.1705	SLC16A1
208910_s_at	69	55		0.000085	0.810305	1.1827	C1QBP
201614_s_at	70	56		8.92E-05	0.85035	1.2027	RUVBL1
204868_at	71	57		8.95E-05	0.853025	1.2027	ICT1
208676_s_at	72	58		9.02E-05	0.859511	1.2027	PA2G4
218557_at	73	59		9.17E-05	0.874095	1.2064	NIT2
217768_at	74	60		9.57E-05	0.91183	1.2361	C14orf166
203664_s_at	75	61		9.79E-05	0.932217	1.2361	POLR2D
202954_at	76	62		9.91E-05	0.944217	1.2361	UBE2C
218663_at	77	63		9.92E-05	0.94469	1.2361	HCAP-G
219553_at	78	64		0.000103	0.983544	1.2361	NME7
211626_x_at	79		15	0.000103	0.984012	1.2361	ERG
202591_s_at	80	65		0.000104	0.989431	1.2361	SSBP1
203211_s_at	81	66		0.000105	0.996754	1.2361	MTMR2
211971_s_at	82	67		0.000107	0.999655	1.2361	LRPPRC
200006_at	83	68		0.000109	0.999655	1.2361	PARK7
217848_s_at	84	69		0.00011	0.999655	1.2361	PP
210338_s_at	85	70		0.00011	0.999655	1.2361	HSPA8
208619_at	86	71		0.000111	0.999655	1.2361	DDB1
200079_s_at	87	72		0.000116	0.999655	1.2829	KARS
209568_s_at	88		16	0.000118	0.999655	1.2876	RGL1
212145_at	89	73		0.00012	0.999655	1.2897	MRPS27
218788_s_at	90	74		0.000123	0.999655	1.3119	SMYD3
218568_at	91	75		0.000128	0.999655	1.3476	FLJ10842
202613_at	92	76		0.000129	0.999655	1.3476	CTPS
208696_at	93	77		0.000131	0.999655	1.3528	CCT5
204168_at	94	78		0.000138	0.999655	1.4066	MGST2
205550_s_at	95	79		0.000139	0.999655	1.4066	BRE
205412_at	96	80		0.000141	0.999655	1.408	ACAT1
201036_s_at	97	81		0.000143	0.999655	1.4132	HADHSC
210650_s_at	98		17	0.000148	0.999655	1.4175	PCLO
210250_x_at	99	82		0.000149	0.999655	1.4175	ADSL
212600_s_at	100	83		0.000152	0.999655	1.4175	UQCRC2
212544_at	101	84		0.000152	0.999655	1.4175	TRIP3
219797_at	102		18	0.000152	0.999655	1.4175	MGAT4A

212946_at	103	85		0.000152	0.999655	1.4175	KIAA0564
207574_s_at	104		19	0.00016	0.999655	1.4677	GADD45B
200992_at	105	86		0.000161	0.999655	1.4677	IPO7
201946_s_at	106	87		0.000162	0.999655	1.4677	CCT2
221691_x_at	107	88		0.000165	0.999655	1.4758	NPM1
213738_s_at	108	89		0.000167	0.999655	1.4758	ATP5A1
211710_x_at	109	90		0.000168	0.999655	1.4758	RPL4
209971_x_at	110	91		0.00017	0.999655	1.4758	JTV1
209642_at	111	92		0.000172	0.999655	1.4758	BUB1
215143_at	112	93		0.000173	0.999655	1.4758	FLJ36166
217907_at	113	94		0.000174	0.999655	1.4758	MRPL18
214329_x_at	114		20	0.000178	0.999655	1.4984	TNFSF10
34406_at	115		21	0.000181	0.999655	1.4984	KIAA0602
208752_x_at	116	95		0.000182	0.999655	1.4984	NAP1L1
212489_at	117		22	0.000184	0.999655	1.4984	COL5A1
202231_at	118	96		0.000184	0.999655	1.4984	GA17

Rank 1 = ranks of probe sets with expression values being high in Early Relapse Group

Rank 2 = ranks of probe sets with expression values being high in Late Relapse Group