

Suppl Table 1. SNPs association with daunorubicin IC<sub>50</sub>, gene expression in the combined and separated CEU and YRI populations using QTDT and linear regression analysis.

SNP	Host Gene				Target Gene			P values		Gene expression and IC <sub>50</sub>	Population
	Location	SNP location	Host gene ID	Transcript ClusterID	Target genes ID	Location	Effect	Genotype and IC <sub>50</sub>	Genotype and expression		
rs2664420	chr10	intron	CXXC6	3884830	PPP1R16B	chr20	trans	0.00001	0.000001	1.04E-05	CEU+YRI
rs2664420	chr10	intron	CXXC6	3884830	ANAPC1	chr20	trans	0.00001	0.000001	1.04E-05	CEU+YRI
rs7704526	chr5	intron	SLIT3	3735383	GALR2	chr17	trans	0.00002	0.000002	2.73E-03	CEU+YRI
rs17128525	chr8	intron	ChGn	3263555	ADD3	chr10	trans	0.00002	0.0000001	3.56E-04	CEU+YRI
rs17128525	chr8	intron	ChGn	3281068	PIP5K2A	chr10	trans	0.00002	0.000001		CEU+YRI
rs17128525	chr8	intron	ChGn	3401804	RAD51AP1	chr12	trans	0.00002	0.000002	3.24E-02	CEU+YRI
rs17128525	chr8	intron	ChGn	3608398	FURIN	chr15	trans	0.00002	0.000003	4.77E-02	CEU+YRI
rs944109	chr20	intron	ANGPT4	2766289	FLJ23235	chr4	trans	0.00003	0.000003	3.70E-05	CEU+YRI
rs7005075	chr8	intron	ChGn	2320683	TNFRSF8	chr1	trans	0.00003	0.000002		CEU+YRI
rs7005075	chr8	intron	ChGn	2447414	FLJ25102	chr1	trans	0.00003	0.000002	4.18E-02	CEU+YRI
rs7005075	chr8	intron	ChGn	2447414	NCF2	chr1	trans	0.00003	0.000002	4.18E-02	CEU+YRI
rs7005075	chr8	intron	ChGn	3263555	ADD3	chr10	trans	0.00003	0.0000004	3.56E-04	CEU+YRI
rs220200	chr21	promoter	LOC645401	3142217	PAG1	chr8	trans	0.00004	0.000003	4.39E-02	CEU+YRI
rs220200	chr21	promoter	ZNF295	3142217	PAG1	chr8	trans	0.00004	0.000003	4.39E-02	CEU+YRI
rs220200	chr21	promoter	C21orf121	3142217	PAG1	chr8	trans	0.00004	0.000003	4.39E-02	CEU+YRI
rs6586840	chr8	intron	ChGn	2320683	TNFRSF8	chr1	trans	0.00004	0.000002		CEU+YRI
rs6586840	chr8	intron	ChGn	2447414	FLJ25102	chr1	trans	0.00004	0.000002	4.18E-02	CEU+YRI
rs6586840	chr8	intron	ChGn	2447414	NCF2	chr1	trans	0.00004	0.000002	4.18E-02	CEU+YRI
rs6586840	chr8	intron	ChGn	3263555	ADD3	chr10	trans	0.00004	0.0000003	3.56E-04	CEU+YRI
rs944115	chr20	intron	ANGPT4	2766289	FLJ23235	chr4	trans	0.00005	0.000001	3.70E-05	CEU+YRI
rs220213	chr21	promoter	LOC645401	3142217	PAG1	chr8	trans	0.00005	0.000003	4.39E-02	CEU+YRI
rs220213	chr21	promoter	C21orf121	3142217	PAG1	chr8	trans	0.00005	0.000003	4.39E-02	CEU+YRI
rs220213	chr21	promoter	ZNF295	3142217	PAG1	chr8	trans	0.00005	0.000003	4.39E-02	CEU+YRI
rs9849144	chr3	tail	OR5H6	2320374	FBXO6	chr1	trans	0.00005	0.000003		CEU+YRI
rs17195199	chr3	gene-near	OR5H6	2320374	FBXO6	chr1	trans	0.00005	0.000003		CEU+YRI
rs9849144	chr3	tail	OR5H6	2694931	TMCC1	chr3	cis	0.00005	0.000001		CEU+YRI
rs17195199	chr3	gene-near	OR5H6	2694931	TMCC1	chr3	cis	0.00005	0.000001		CEU+YRI

rs9849144	chr3	tail	OR5H6	2948587	FLOT1	chr6	trans	0.00005	0.000001	CEU+YRI
rs17195199	chr3	gene-near	OR5H6	2948587	FLOT1	chr6	trans	0.00005	0.000001	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048241	HLA-DRB5	chr6	cis	0.00005	0.0000009	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048241	HLA-DRB1	chr6	cis	0.00005	0.0000009	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048241	HLA-DRB4	chr6	cis	0.00005	0.0000009	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048241	HLA-DRB3	chr6	cis	0.00005	0.0000009	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB2	chr6	cis	0.00005	0.0000007	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB6	chr6	cis	0.00005	0.0000007	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB5	chr6	cis	0.00005	0.0000007	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB4	chr6	cis	0.00005	0.0000007	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB3	chr6	cis	0.00005	0.0000007	CEU+YRI
rs1265758	chr6	intron	C6orf10	4048265	HLA-DRB1	chr6	cis	0.00005	0.0000007	CEU+YRI
rs4705808	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00006	0.0000009	1.09E-05 CEU+YRI
rs4857357	chr3	gene-near	OR5H6	2813060	PIK3R1	chr5	trans	0.00007	0.000003	CEU+YRI
rs11743052	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs11744606	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs1997521	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs7724717	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs7724936	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs12518849	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000002	1.09E-05 CEU+YRI
rs4705809	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.00007	0.000003	1.09E-05 CEU+YRI
rs6859237	chr5	tail	LOC643594	2345286	LMO4	chr1	trans	0.00008	0.0000007	1.97E-03 CEU+YRI
rs6859237	chr5	tail	LOC442147	2345286	LMO4	chr1	trans	0.00008	0.0000007	1.97E-03 CEU+YRI
rs2053456	chr2	intron	PPM1B	3838094	FTL	chr19	trans	0.00009	0.000003	1.02E-05 CEU+YRI
rs17756850	chr6	intron	EXOC2	3721452	FKBP10	chr17	trans	0.00009	0.000001	CEU+YRI
rs2677111	chr1	intron	USH2A	2319832	APITD1	chr1	cis	0.0001	0.000003	CEU+YRI
rs2677111	chr1	intron	USH2A	2319832	CORT	chr1	cis	0.0001	0.000003	CEU+YRI
rs4844411	chr1	intron	PLXNA2	3457336	SILV	chr12	trans	0.0001	0.000001	CEU+YRI
rs1831567	chr13	intron	GPC5	2406926	GRIK3	chr1	trans	0.0001	0.000003	CEU+YRI
rs1831567	chr13	intron	GPC5	3837193	CCDC9	chr19	trans	0.0001	0.0000005	3.84E-02 CEU+YRI
rs1412312	chr13	intron	GPC5	3837193	CCDC9	chr19	trans	0.0001	0.0000006	3.84E-02 CEU+YRI
rs7327552	chr13	intron	C13orf24	3944564	CSF2RB	chr22	trans	0.0001	0.000002	CEU+YRI
rs1958674	chr14	intron	C14orf143	3972361	MAGEB6B	chrX	trans	0.0001	0.000003	CEU+YRI
rs1958674	chr14	intron	C14orf143	3972361	MAGEB6	chrX	trans	0.0001	0.000003	CEU+YRI
rs10932125	chr2	intron	NRP2	2548699	CYP1B1	chr2	cis	0.0001	0.000001	3.26E-05 CEU+YRI

rs6888602	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.0001	0.0000007	1.09E-05	CEU+YRI
rs4705807	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.0001	0.0000001	1.09E-05	CEU+YRI
rs17135488	chr5	intron	MCC	3275729	IL2RA	chr10	trans	0.0001	0.0000003	1.09E-05	CEU+YRI
rs6897941	chr5	intron	SDCCAG10	3454006	FMNL3	chr12	trans	0.0001	0.0000007	1.08E-05	CEU+YRI
rs17756826	chr6	intron	EXOC2	3721452	FKBP10	chr17	trans	0.0001	0.0000001		CEU+YRI
rs17756886	chr6	intron	EXOC2	3721452	FKBP10	chr17	trans	0.0001	0.0000001		CEU+YRI
rs7772761	chr6	intron	EXOC2	3721452	FKBP10	chr17	trans	0.0001	0.0000001		CEU+YRI
rs2702183	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.000007	0.0000003		CEU
rs1536984	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00002	0.0000003		CEU
rs509168	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00002	0.0000003		CEU
rs1541170	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00002	0.0000003		CEU
rs1536984	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00002	0.0000003		CEU
rs1541170	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00002	0.0000003		CEU
rs509168	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00002	0.0000003		CEU
rs1536985	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00003	0.0000002		CEU
rs2811557	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00004	0.0000002		CEU
rs481157	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00004	0.0000002		CEU
rs542349	chr1	intron	NMNAT2	3825838	FLJ44968	chr19	trans	0.00004	0.0000002		CEU
rs2811553	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00005	0.0000003		CEU
rs2788051	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00006	0.0000002		CEU
rs12052523	chr2	gene-near	TM4SF20	2605674	ILKAP	chr2	cis	0.00006	0.0000001	2.67E-02	CEU
rs12052523	chr2	gene-near	TM4SF20	2743800	PCDH10	chr4	trans	0.00006	0.0000001	4.29E-02	CEU
rs6726680	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00006	0.0000006		CEU
rs6726680	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00006	0.0000006		CEU
rs2570367	chr1	promoter	PARP1	3933566	TMPRSS3	chr21	trans	0.00008	0.0000002		CEU
rs1551315	chr2	intron	PPM1B	2409507	SLC6A9	chr1	trans	0.00008	0.0000003	6.49E-03	CEU
rs1551315	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00008	0.0000004		CEU
rs1551315	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00008	0.0000004		CEU
rs6544744	chr2	gene-near	LOC646790	3770512	C17orf28	chr17	trans	0.00008	0.0000006		CEU
rs6544746	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00008	0.0000006		CEU
rs6544744	chr2	gene-near	LOC646790	3770512	FLJ40453	chr17	trans	0.00008	0.0000006		CEU
rs6544746	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00008	0.0000006		CEU
rs7602070	chr2	gene-near	LOC646790	3770512	FLJ40453	chr17	trans	0.00008	0.0000006		CEU
rs7602070	chr2	gene-near	LOC646790	3770512	C17orf28	chr17	trans	0.00008	0.0000006		CEU
rs3750518	chr9	gene-near	LOC286260, MAN1B1	2775463	HNRPD	chr4	trans	0.00008	0.0000003	8.27E-04	CEU
rs3750518	chr9	intron	LOC286260, MAN1B1	2775463	HNRPD	chr4	trans	0.00008	0.0000003	8.27E-04	CEU

rs9411307	chr9	intron	MAN1B1	2775463	HNRPD	chr4	trans	0.00008	0.000003	8.27E-04	CEU
rs3750518	chr9	intron	LOC286260, MAN1B1	3260937	PEO1	chr10	trans	0.00008	0.000003		CEU
rs3750518	chr9	gene-near	LOC286260, MAN1B1	3260937	PEO1	chr10	trans	0.00008	0.000003		CEU
rs9411307	chr9	intron	MAN1B1	3260937	PEO1	chr10	trans	0.00008	0.000003		CEU
rs546435	chr1	intron	NMNAT2	2672333	TESSP5	chr3	trans	0.00009	0.0000009		CEU
rs2195830	chr2	intron	KIAA1679	3360189	TRIM68	chr11	trans	0.00009	0.000002	1.66E-02	CEU
rs7593987	chr2	gene-near	LOC646790	3770512	C17orf28	chr17	trans	0.00009	0.0000005		CEU
rs7593987	chr2	gene-near	LOC646790	3770512	FLJ40453	chr17	trans	0.00009	0.0000005		CEU
rs920519	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00009	0.0000005		CEU
rs2054005	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00009	0.0000005		CEU
rs2054005	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00009	0.0000005		CEU
rs2053456	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00009	0.0000005		CEU
rs2053456	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.00009	0.0000005		CEU
rs920519	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.00009	0.0000005		CEU
rs623360	chr1	intron	TRAF3IP3	3181460	NANS	chr9	trans	0.0001	0.000002	4.64E-05	CEU
rs623360	chr1	intron	TRAF3IP3	3761959	SLC35B1	chr17	trans	0.0001	0.000002	5.05E-03	CEU
rs623360	chr1	intron	TRAF3IP3	3844822	THRAP5	chr19	trans	0.0001	0.0000003		CEU
rs623360	chr1	intron	TRAF3IP3	3950452	MGC11256	chr22	trans	0.0001	0.000003		CEU
rs12884348	chr14	tail	LOC653751	3577612	SERPINA2	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs10083335	chr14	tail	ERH	3577612	SERPINA1	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs10083335	chr14	tail	ERH	3577612	SERPINA2	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs10142144	chr14	tail	ERH	3577612	SERPINA1	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs10142144	chr14	tail	ERH	3577612	SERPINA2	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs12884348	chr14	tail	GALNTL1	3577612	SERPINA1	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs12884348	chr14	tail	GALNTL1	3577612	SERPINA2	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs12884348	chr14	tail	LOC653751	3577612	SERPINA1	chr14	cis	0.0001	0.000002	3.97E-02	CEU
rs6738023	chr2	intron	PPM1B	3770512	C17orf28	chr17	trans	0.0001	0.0000009		CEU
rs6738023	chr2	intron	PPM1B	3770512	FLJ40453	chr17	trans	0.0001	0.0000009		CEU
rs293381	chr15	intron	ABHD2	3854954	LRRC25	chr19	trans	0.0000008	0.000002	1.61E-04	YRI
rs2255796	chr5	intron	TCOF1	3320717	LOC284950	chr11	trans	0.000004	0.000002	3.64E-04	YRI
rs2255796	chr5	intron	TCOF1	3320717	MICAL2	chr11	trans	0.000004	0.000002	3.64E-04	YRI
rs7177792	chr15	intron	ABHD2	3757399	LOC400464	chr17	trans	0.00001	0.0000003	4.13E-04	YRI
rs7177792	chr15	intron	ABHD2	3757399	MGC20781	chr17	trans	0.00001	0.0000003	4.13E-04	YRI
rs3797443	chr5	intron	IQGAP2	2946208	HIST1H4B	chr6	trans	0.00001	0.0000006	4.69E-02	YRI
rs3797443	chr5	intron	IQGAP2	2946208	HIST2H4	chr6	trans	0.00001	0.0000006	4.69E-02	YRI
rs3797443	chr5	intron	IQGAP2	2946319	HIST1H4D	chr6	trans	0.00001	0.0000003	5.53E-03	YRI

rs3797443	chr5	intron	IQGAP2	2946364	HIST1H3F	chr6	trans	0.00001	0.0000008	2.06E-02	YRI
rs9655467	chr7	intron	MGC11257	3472312	SLC24A6	chr12	trans	0.00001	0.0000007		YRI
rs7223543	chr17	intron	CA10	3601741	CLK3	chr15	trans	0.00002	0.000002	3.79E-03	YRI
rs1263980	chr17	intron	CA10	3601741	CLK3	chr15	trans	0.00004	0.000003	3.79E-03	YRI
rs6603859	chr1	intron	C1orf144	2950167	TAP2	chr6	trans	0.00005	0.000003	1.20E-02	YRI
rs6603859	chr1	intron	C1orf144	2999948	OGDH	chr7	trans	0.00005	0.000002	3.89E-02	YRI
rs6603859	chr1	intron	C1orf144	3315952	RASSF7	chr11	trans	0.00005	0.000001	5.29E-03	YRI
rs6603859	chr1	intron	C1orf144	3455973	FLJ14800	chr12	trans	0.00005	0.0000004		YRI
rs6603859	chr1	intron	C1orf144	3880767	PYGB	chr20	trans	0.00005	0.000002	8.42E-03	YRI
rs6603859	chr1	intron	C1orf144	3950726	SAPS2	chr22	trans	0.00005	0.000001	1.60E-02	YRI
rs6603859	chr1	intron	C1orf144	3950726	LOC442582	chr22	trans	0.00005	0.000001	1.60E-02	YRI
rs10887684	chr10	intron	SNCG	2949197	C6orf47	chr6	trans	0.00005	0.000003	1.43E-02	YRI
rs10887684	chr10	intron	SNCG	3950726	SAPS2	chr22	trans	0.00005	0.000002	1.60E-02	YRI
rs10887684	chr10	intron	SNCG	3950726	LOC442582	chr22	trans	0.00005	0.000002	1.60E-02	YRI
rs7929521	chr11	intron	LOC645490	2376849	RPL7A	chr1	trans	0.00005	0.000002	2.28E-03	YRI
rs7929521	chr11	intron	LOC645490	2376849	RASSF5	chr1	trans	0.00005	0.000002	2.28E-03	YRI
rs7929521	chr11	intron	LOC645490	2376849	IKBKE	chr1	trans	0.00005	0.000002	2.28E-03	YRI
rs7929521	chr11	intron	LOC645490	2773756	G3BP2	chr4	trans	0.00005	0.000003		YRI
rs7929521	chr11	intron	LOC645490	3603199	IDH3A	chr15	trans	0.00005	0.0000006	5.28E-03	YRI
rs7929521	chr11	intron	LOC645490	3837132	SAE1	chr19	trans	0.00005	0.000003		YRI
rs7929521	chr11	intron	LOC645490	3888383	SLC9A8	chr20	trans	0.00005	0.000003	8.26E-03	YRI
rs6503253	chr17	gene-near	LOC644070	3340449	SLCO2B1	chr11	trans	0.00005	0.000002	1.27E-02	YRI
rs6503253	chr17	gene-near	LOC644070	3707214	PLD2	chr17	cis	0.00005	0.000003	4.12E-02	YRI
rs1862876	chr5	intron	STK32A	2450798	LAD1	chr1	trans	0.00007	0.0000008	1.23E-03	YRI
rs1862876	chr5	intron	STK32A	3886938	WFDC2	chr20	trans	0.00007	0.0000002	1.92E-03	YRI
rs9730073	chr1	intron	FMN2	3237788	C10orf112	chr10	trans	0.00008	0.000003	1.58E-02	YRI
rs9730073	chr1	intron	FMN2	3237788	PLXDC2	chr10	trans	0.00008	0.000003	1.58E-02	YRI
rs293382	chr15	intron	ABHD2	3757399	MGC20781	chr17	trans	0.00008	0.0000001	4.13E-04	YRI
rs293382	chr15	intron	ABHD2	3757399	LOC400464	chr17	trans	0.00008	0.0000001	4.13E-04	YRI
rs2664420	chr10	intron	CXXC6	3393704	LOC196264	chr11	trans	0.00009	0.0000008		YRI
rs7529524	chr1	intron	KCNH1	3104698	ZBTB10	chr8	trans	0.0001	0.000002	3.74E-02	YRI
rs16852022	chr1	gene-near	LOC440567	3178679	GADD45G	chr9	trans	0.0001	0.000001	3.65E-02	YRI
rs12250538	chr10	intron	TCERG1L	2824089	TIGA1	chr5	trans	0.0001	0.0000004	3.09E-04	YRI
rs12783321	chr10	intron	KIAA1975	3334571	RPS6KA4	chr11	trans	0.0001	0.000001	1.10E-02	YRI
rs12250538	chr10	intron	TCERG1L	3382948	CLNS1A	chr11	trans	0.0001	0.000001	2.23E-04	YRI
rs12250538	chr10	intron	TCERG1L	3625234	C15orf15	chr15	trans	0.0001	0.000003	5.82E-05	YRI
rs12250538	chr10	intron	TCERG1L	3625234	LOC148198	chr15	trans	0.0001	0.000003	5.82E-05	YRI

rs12250538	chr10	intron	TCERG1L	3625234	LOC284288	chr15	trans	0.0001	0.000003	5.82E-05	YRI
rs12783321	chr10	intron	KIAA1975	3677662	NOD3	chr16	trans	0.0001	0.000003		YRI
rs6552429	chr4	tail	LOC643179	2946319	HIST1H4D	chr6	trans	0.0001	0.000003	5.53E-03	YRI