

Supplemental Data

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Integration of Genomic and Genetic Approaches

Implicates *IREB2* as a COPD Susceptibility Gene

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Table S1: Association Results for 71 Autosomal SNPs Tested in the NETT/NAS Cohort ($p < 0.050$)

<i>Chr.</i>	<i>HUGO Gene Name</i>	<i>SNP</i>	<i>SNP Location</i>	<i>Probe ID from gene expression data set</i>	<i>P value</i>
9	<i>PTCH1</i>	rs16909859	97244613	209815	3.40×10^{-6}
15	<i>IREB2</i>	rs2656069	76532762	225892	1.03×10^{-5}
15	<i>IREB2</i>	rs10851906	76561731	225892	2.46×10^{-5}
15	<i>IREB2</i>	rs2568494	76528019	225892	4.40×10^{-5}
15	<i>SEMA6D</i>	rs7167021	45833273	226492	1.92×10^{-4}
1	<i>SYDE2</i>	rs7511739	85395045	239847	3.15×10^{-4}
15	<i>SEMA6D</i>	rs17388803	45814496	226492	3.25×10^{-4}
15	<i>SEMA6D</i>	rs16960030	45838944	226492	4.58×10^{-4}
15	<i>IREB2</i>	rs1964678	76541055	225892	1.61×10^{-3}
15	<i>IREB2</i>	rs965604	76576278	225892	1.81×10^{-3}
15	<i>IREB2</i>	rs13180	76576543	225892	2.17×10^{-3}
15	<i>SEMA6D</i>	rs76739	45829438	226492	2.76×10^{-3}
15	<i>IREB2</i>	rs12593229	76552345	225892	2.95×10^{-3}
6	<i>PHACTR2</i>	rs9386042	144061147	227947	3.44×10^{-3}
3	<i>TIGIT</i>	rs4682534	115516788	213156	4.02×10^{-3}
1	<i>ARHGAP29</i>	rs3789689	94458173	1558280	4.05×10^{-3}
15	<i>SEMA6D</i>	rs765	45822977	226492	5.40×10^{-3}
14	<i>DAAMI</i>	rs17833769	58725214	226666	7.32×10^{-3}
15	<i>SEMA6D</i>	rs8025861	45836323	226492	7.42×10^{-3}
15	<i>SEMA6D</i>	rs11855291	45858167	226492	8.28×10^{-3}
21	<i>CYYR1</i>	rs17625613	26825130	228665	9.81×10^{-3}
12	<i>AMIGO2</i>	rs2898002	45762494	222108	0.01
14	<i>DAAMI</i>	rs4898983	58828589	226666	0.01
6	<i>PHACTR2</i>	rs9321939	144096465	227947	0.01
15	<i>SEMA6D</i>	rs568215	45850368	226492	0.01
14	<i>DAAMI</i>	rs7150479	58795887	226666	0.01
15	<i>SEMA6D</i>	rs532598	45845363	226492	0.01
15	<i>SEMA6D</i>	rs634939	45858069	226492	0.01
12	<i>ZNF84</i>	rs7958575	132146663	228630	0.01
1	<i>EFCAB7</i>	rs217448	63782062	226800	0.01
12	<i>KITLG</i>	rs11610915*	87426172	226534	0.01
3	<i>TIGIT</i>	rs9825470	115511323	213156	0.01
15	<i>SEMA6D</i>	rs12898855	45801857	226492	0.01
14	<i>DAAMI</i>	rs965590	58818577	226666	0.01
2	<i>DYNC2L1I</i>	rs10205936	43844814	227148	0.02
1	<i>ARHGAP29</i>	rs12077584	94443982	1558280	0.02
6	<i>PHACTR2</i>	rs761627	144078630	227947	0.02
15	<i>SEMA6D</i>	rs586799	45812214	226492	0.02
21	<i>CYYR1</i>	rs222973	26800940	228665	0.02
12	<i>AMIGO2</i>	rs2269828	45757706	222108	0.02
14	<i>DAAMI</i>	rs927964	58873466	226666	0.03
1	<i>ARHGAP29</i>	rs6673184*	94441895	1558280	0.03
6	<i>PHACTR2</i>	rs3811095	143970633	227947	0.03
6	<i>CCDC90A</i>	rs3757251*	13899115	220094	0.03
21	<i>CYYR1</i>	rs2830273	26831258	228665	0.03
12	<i>AMIGO2</i>	rs7979883*	45753285	222108	0.03

<i>Chr.</i>	<i>HUGO Gene Name</i>	<i>SNP</i>	<i>SNP Location</i>	<i>Probe ID from gene expression data set</i>	<i>P value</i>
21	<i>CYYR1</i>	rs2830271	26828867	228665	0.03
21	<i>CYYR1</i>	rs17619458	26803092	228665	0.04
8	<i>WHSCIL1</i>	rs2932005	38351031	225318	0.04
14	<i>DAAMI</i>	rs12888995	58796019	226666	0.04
6	<i>PHACTR2</i>	rs17072830	143982460	227947	0.04
19	<i>HIF3A</i>	rs10414875	51514136	1555318	0.04
21	<i>CYYR1</i>	rs222954	26839258	228665	0.04
19	<i>HIF3A</i>	rs887946	51508628	1555318	0.04
6	<i>PHACTR2</i>	rs2073214	144123302	227947	0.04
21	<i>CYYR1</i>	rs222921	26806368	228665	0.04
12	<i>ZNF84</i>	rs7133210	132129156	228630	0.04
9	<i>PTCH1</i>	rs2236405	97251393	209815	0.04
1	<i>EIF2C4</i>	rs727005	36053923	227930	0.04
14	<i>DAAMI</i>	rs2099636	58838891	226666	0.04
10	<i>ZNF248</i>	rs200932*	38168774	213269	0.04
8	<i>CSPP1</i>	rs16933170	68192032	227105	0.04
8	<i>CSPP1</i>	rs16933182	68236691	227105	0.04
6	<i>KIAA0240</i>	rs9471915	42862590	1559964	0.05
21	<i>CYYR1</i>	rs17536311	26818798	228665	0.05
1	<i>ARHGAP29</i>	rs6682149	94448856	1558280	0.05
19	<i>HIF3A</i>	rs3752207*	51507545	1555318	0.05
1	<i>ITGB3BP</i>	rs17391823	63759453	226800	0.05
8	<i>LETM2</i>	rs12678205	38359165	225318	0.05
19	<i>HIF3A</i>	rs17173172	51507137	1555318	0.05
6	<i>PHACTR2</i>	rs722755	144125078	227947	0.05

***Out of HWE:**

rs6673184 p=0.03
rs3757251 p=0.01
rs200932 p=3x10⁻³
rs7979883 p=1.24x10⁻¹⁷
rs11610915 p=0.02
rs3752207 p=2.28x10⁻¹¹

Table S2: Pedigree-Based Association Test for BEOCPD Families for Post-Bronchodilator FEV₁

<i>Chr.</i>	<i>Gene</i>	<i>SNP rs number</i>	<i>Location</i>	<i>Minor allele</i>	<i>MAF</i>	<i>Informative families for PBAT analysis</i>	<i>NETT/NAS p-value</i>	<i>EOCOPD p-value for post-bronchodilator FEV₁</i>	<i>Combined p-value-Fisher method</i>
15	IREB2	rs2568494*	76528019	A	0.38	23	4.40x10⁻⁵	9.25x10⁻³	6.39 x10⁻⁶
15	IREB2	rs2656069 *	76532762	C	0.19	10	1.03x10⁻⁵	0.35	4.93x10⁻⁵
15	IREB2	rs10851906	76561731	G	0.18	11	2.46x10⁻⁵	0.21	6.68x10⁻⁵
6	<i>PHACTR2</i>	rs9386042	144061147	C	0.25	10	3.44x10 ⁻³	0.07	2.37x10 ⁻³
21	<i>CYYR1</i>	rs222973	26800940	T	0.33	15	0.02	0.01	2.44 x10 ⁻³
14	<i>DAAM1</i>	rs17833769	58725214	A	0.23	10	7.32 x10 ⁻³	0.08	4.97x10 ⁻³
15	<i>SEMA6D</i>	rs76739	45829438	G	0.41	22	2.76x10 ⁻³	0.27	6.24x10 ⁻³
15	IREB2	rs1964678	76541055	A	0.35	20	1.61x10⁻³	0.76	9.44x10⁻³
15	IREB2	rs965604	76576278	G	0.35	22	1.81x10⁻³	0.75	0.01
15	IREB2**	rs13180	76576543	C	0.36	20	2.17x10⁻³	0.71	0.01
15	<i>SEMA6D</i>	rs634939	45858069	C	0.41	16	0.01	0.18	0.01
6	<i>PHACTR2</i>	rs9321939	144096465	C	0.20	14	0.01	0.20	0.01
12	<i>AMIGO2</i>	rs2898002	45762494	G	0.29	22	0.01	0.24	0.02
15	IREB2	rs12593229	76552345	T	0.35	21	2.95x10⁻³	0.87	0.02
15	<i>SEMA6D</i>	rs8025861	45836323	T	0.41	19	7.42x10 ⁻³	0.35	0.02
15	<i>SEMA6D</i>	rs11855291	45858167	A	0.23	13	8.28x10 ⁻³	0.33	0.02
2	<i>DYNC2L1I</i>	rs10205936	43844814	T	0.30	12	0.02	0.19	0.02
15	<i>SEMA6D</i>	rs568215	45850368	T	0.40	20	0.01	0.30	0.02
14	<i>DAAM1</i>	rs965590	58818577	C	0.19	14	0.01	0.23	0.02
14	<i>DAAM1</i>	rs12888995	58796019	A	0.24	14	0.04	0.10	0.02
21	<i>CYYR1</i>	rs222921	26806368	G	0.43	20	0.04	0.10	0.03
15	<i>SEMA6D</i>	rs12898855	45801857	C	0.40	16	0.01	0.35	0.03
1	<i>EIF2C4</i>	rs727005	36053923	G	0.09	10	0.04	0.11	0.03
15	<i>SEMA6D</i>	rs765	45822977	G	0.47	23	5.40x10 ⁻³	0.90	0.03
15	<i>SEMA6D</i>	rs586799	45812214	G	0.39	21	0.02	0.24	0.03
12	<i>ZNF84</i>	rs7958575	132146663	C	0.27	14	0.01	0.46	0.03
1	<i>EFCAB7</i>	rs217448	63782062	G	0.33	21	0.01	0.61	0.04
14	<i>DAAM1</i>	rs4898983	58828589	C	0.32	17	0.01	0.71	0.04
15	<i>SEMA6D</i>	rs532598	45845363	A	0.30	14	0.01	0.76	0.05
12	<i>AMIGO2</i>	rs7979883	45753285	T	0.30	19	0.03	0.24	0.05
14	<i>DAAM1</i>	rs7150479	58795887	G	0.47	17	0.01	0.80	0.05
12	<i>AMIGO2</i>	rs2269828	45757706	A	0.30	20	0.02	0.41	0.06
3	<i>TIGIT</i>	rs9825470	115511323	G	0.42	22	0.01	0.97	0.07
6	<i>PHACTR2</i>	rs761627	144078630	A	0.49	25	0.02	0.69	0.07
6	<i>PHACTR2</i>	rs2073214	144123302	T	0.15	12	0.04	0.40	0.08
14	<i>DAAM1</i>	rs927964	58873466	A	0.32	17	0.03	0.63	0.08
21	<i>CYYR1</i>	rs2830271	26828867	G	0.25	10	0.03	0.53	0.09
19	<i>HIF3A</i>	rs887946	51508628	G	0.33	17	0.04	0.50	0.10
12	<i>ZNF84</i>	rs7133210	132129156	T	0.18	12	0.04	0.48	0.10
8	<i>LETM2</i>	rs12678205	38359165	G	0.21	14	0.05	0.59	0.13
6	<i>PHACTR2</i>	rs722755	144125078	A	0.07	10	0.05	0.65	0.14
1	<i>EFCAB7</i>	rs17391823	63759453	C	0.33	23	0.05	0.80	0.16
14	<i>DAAM1</i>	rs2099636	58838891	A	0.33	17	0.04	0.96	0.17

*Met Fisher combined P value threshold of <5.6x10⁻⁵**GWAS data from British 1958 Birth Cohort Study for FEV₁ p=3x10⁻²

Table S3: Pedigree-Based Association Test for BEOCPD Families for Pre-Bronchodilator FEV₁

<i>Chr.</i>	<i>Gene</i>	<i>SNP rs number</i>	<i>Location</i>	<i>Minor allele</i>	<i>Minor allele frequency EOCOPD</i>	<i>Informative families for PBAT analysis</i>	<i>NETT/NAS p-value</i>	<i>EOCOPD p-value for pre-bronchodilator FEV₁</i>	<i>Combined p-value-Fisher method</i>
15	<i>IREB2</i>	rs2568494*	76528019	A	0.38	23	4.40x10 ⁻⁵	7.90x10 ⁻³	5.52x10 ⁻⁶
15	<i>IREB2</i>	rs2656069*	76532762	C	0.19	10	1.03x10 ⁻⁵	0.20	2.88x10 ⁻⁵
15	<i>IREB2</i>	rs10851906*	76561731	G	0.18	11	2.46x10 ⁻⁵	0.11	3.72x10 ⁻⁵
21	<i>CYYR1</i>	rs222973	26800940	T	0.33	15	0.02	7.91x10 ⁻³	1.61x10 ⁻³
6	<i>PHACTR2</i>	rs9386042	144061147	C	0.25	10	3.44x10 ⁻³	0.14	4.26x10 ⁻³
14	<i>DAAM1</i>	rs17833769	58725214	A	0.23	10	7.32x10 ⁻³	0.12	7.16x10 ⁻³
15	<i>SEMA6D</i>	rs76739	45829438	G	0.41	22	2.76x10 ⁻³	0.36	7.81x10 ⁻³
15	<i>IREB2</i>	rs1964678	76541055	A	0.35	20	1.61x10 ⁻³	0.72	8.98x10 ⁻³
12	<i>AMIGO2</i>	rs2898002	45762494	G	0.29	22	0.01	0.14	0.01
15	<i>IREB2</i>	rs13180**	76576543	C	0.36	20	2.17x10 ⁻³	0.71	0.01
15	<i>IREB2</i>	rs965604	76576278	G	0.35	22	1.81x10 ⁻³	0.88	0.01
15	<i>SEMA6D</i>	rs11855291	45858167	A	0.23	13	8.28x10 ⁻³	0.32	0.02
15	<i>SEMA6D</i>	rs634939	45858069	C	0.41	16	0.01	0.24	0.02
12	<i>ZNF84</i>	rs7958575	132146663	C	0.27	14	0.01	0.25	0.02
21	<i>CYYR1</i>	rs222921	26806368	G	0.43	20	0.04	0.07	0.02
15	<i>IREB2</i>	rs12593229	76552345	T	0.35	21	2.95x10 ⁻³	0.99	0.02
6	<i>PHACTR2</i>	rs9321939	144096465	C	0.2	14	0.01	0.31	0.02
15	<i>SEMA6D</i>	rs8025861	45836323	T	0.41	19	7.42x10 ⁻³	0.46	0.02
14	<i>DAAM1</i>	rs965590	58818577	C	0.19	14	0.01	0.28	0.02
14	<i>DAAM1</i>	rs12888995	58796019	A	0.24	14	0.04	0.10	0.02
15	<i>SEMA6D</i>	rs568215	45850368	T	0.4	20	0.01	0.37	0.03
15	<i>SEMA6D</i>	rs765	45822977	G	0.47	23	5.40x10 ⁻³	0.95	0.03
15	<i>SEMA6D</i>	rs12898855	45801857	C	0.4	16	0.01	0.43	0.03
1	<i>EIF2C4</i>	rs727005	36053923	G	0.09	10	0.04	0.13	0.03
15	<i>SEMA6D</i>	rs586799	45812214	G	0.39	21	0.02	0.27	0.03
2	<i>DYNC2LI1</i>	rs10205936	43844814	T	0.3	12	0.02	0.36	0.03
14	<i>DAAM1</i>	rs4898983	58828589	C	0.32	17	0.01	0.62	0.04
15	<i>SEMA6D</i>	rs532598	45845363	A	0.3	14	0.01	0.68	0.04
1	<i>EFCAB7</i>	rs217448	63782062	G	0.33	21	0.01	0.67	0.04
14	<i>DAAM1</i>	rs7150479	58795887	G	0.47	17	0.01	0.81	0.05
12	<i>AMIGO2</i>	rs7979883	45753285	T	0.3	19	0.03	0.30	0.06
12	<i>AMIGO2</i>	rs2269828	45757706	A	0.3	20	0.02	0.50	0.06
3	<i>TIGIT</i>	rs9825470	115511323	G	0.42	22	0.01	0.97	0.07
14	<i>DAAM1</i>	rs927964	58873466	A	0.32	17	0.03	0.57	0.08
6	<i>PHACTR2</i>	rs761627	144078630	A	0.49	25	0.02	0.84	0.08
6	<i>PHACTR2</i>	rs2073214	144123302	T	0.15	12	0.04	0.46	0.09
12	<i>ZNF84</i>	rs7133210	132129156	T	0.18	12	0.04	0.52	0.10
19	<i>HIF3A</i>	rs887946	51508628	G	0.33	17	0.04	0.66	0.12
21	<i>CYYR1</i>	rs2830271	26828867	G	0.25	10	0.03	0.81	0.13
8	<i>LETM2</i>	rs12678205	38359165	G	0.21	14	0.05	0.60	0.13
6	<i>PHACTR2</i>	rs722755	144125078	A	0.07	10	0.05	0.81	0.17
14	<i>DAAM1</i>	rs2099636	58838891	A	0.33	17	0.05	0.99	0.18
1	<i>EFCAB7</i>	rs17391823	63759453	C	0.33	23	0.05	0.97	0.19

*Met Fisher combined P value threshold of <5.6x10⁻⁵**GWAS data from British 1958 Birth Cohort Study for FEV₁ p=3x10⁻²

Table S4: Pedigree-Based Association Test for ICGN Families for Pre-Bronchodilator FEV₁

<i>SNP rs number</i>	<i>Minor allele</i>	<i>MAF</i>	<i>Informative families for PBAT analysis</i>	<i>ICGN p-value for pre-bronchodilator FEV₁</i>	<i>NETT/NAS p-value</i>	<i>EOCOPD p-value for pre-bronchodilator FEV₁</i>	<i>Combined p-value-Fisher method</i>
rs2568494	A	0.41	479	8.36x10 ⁻⁴	4.4x10 ⁻⁵	7.90x10 ⁻³	7.68x10⁻⁸
rs2656069	C	0.19	386	4.68x10 ⁻³	1.03x10 ⁻⁵	0.20	1.81x10⁻⁶
rs1964678	A	0.35	484	1.72x10 ⁻³	1.61x10 ⁻³	0.72	2.00x10⁻⁴
rs12593229	T	0.35	481	1.24x10 ⁻³	2.95x10 ⁻³	0.99	3.34x10⁻⁴
rs10851906	G	0.19	384	6.16x10 ⁻³	2.46x10 ⁻⁵	0.11	2.98x10⁻⁶
rs965604	G	0.35	483	1.38x10 ⁻³	1.81x10 ⁻³	0.88	2.18x10⁻⁴
rs13180	C	0.36	467	1.90x10 ⁻³	2.17x10 ⁻³	0.71	2.79x10⁻⁴

Table S5: Association in NETT/NAS and BEOCPD of *IREB2* SNPs Identified by Lung Cancer GWAS

SNP	Location	NETT/NAS p value	EOCOPD p value for post-bronchodilator FEV ₁	Combined p-value- Fisher method
rs17484235	76548469	1.16x10 ⁻³	6.55x10 ⁻³	9.75x10 ⁻⁵
rs2656052	76527987	1.81x10 ⁻⁵	0.01	3.60x10 ⁻⁶

Table S6: Association Results for all 889 SNPs Tested in the NETT/NAS Cohort

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
9	<i>PTCH1</i>	rs16909859	97244613	209815	3.40x10 ⁻⁶
15	<i>IREB2</i>	rs2656069	76532762	225892	1.03155x10 ⁻⁵
15	<i>IREB2</i>	rs10851906	76561731	225892	2.45534x10 ⁻⁵
15	<i>IREB2</i>	rs2568494	76528019	225892	4.40284x10 ⁻⁵
15	<i>SEMA6D</i>	rs7167021	45833273	226492	0.000191742
1	<i>SYDE2</i>	rs7511739	85395045	239847	0.00031479
15	<i>SEMA6D</i>	rs17388803	45814496	226492	0.000324633
15	<i>SEMA6D</i>	rs16960030	45838944	226492	0.000458457
15	<i>IREB2</i>	rs1964678	76541055	225892	0.001613314
15	<i>IREB2</i>	rs965604	76576278	225892	0.001805237
15	<i>IREB2</i>	rs13180	76576543	225892	0.002167198
15	<i>SEMA6D</i>	rs76739	45829438	226492	0.002757333
15	<i>IREB2</i>	rs12593229	76552345	225892	0.002949799
6	<i>PHACTR2</i>	rs9386042	144061147	227947	0.003442967
3	<i>TIGIT</i>	rs4682534	115516788	213156	0.004019466
1	<i>ARHGAP29</i>	rs3789689	94458173	1558280	0.00404652
15	<i>SEMA6D</i>	rs765	45822977	226492	0.005397607
14	<i>DAAM1</i>	rs17833769	58725214	226666	0.007323409
15	<i>SEMA6D</i>	rs8025861	45836323	226492	0.007415389
15	<i>SEMA6D</i>	rs11855291	45858167	226492	0.008280308
21	<i>CYYR1</i>	rs17625613	26825130	228665	0.009813239
12	<i>AMIGO2</i>	rs2898002	45762494	222108	0.010032808
14	<i>DAAM1</i>	rs4898983	58828589	226666	0.010092594
6	<i>PHACTR2</i>	rs9321939	144096465	227947	0.010148547
15	<i>SEMA6D</i>	rs568215	45850368	226492	0.010175735
14	<i>DAAM1</i>	rs7150479	58795887	226666	0.010192679
15	<i>SEMA6D</i>	rs532598	45845363	226492	0.010484875
15	<i>SEMA6D</i>	rs634939	45858069	226492	0.011189204
12	<i>ZNF84</i>	rs7958575	132146663	228630	0.011421443
1	<i>EFCAB7</i>	rs217448	63782062	226800	0.011443478
12	<i>KITLG</i>	rs11610915	87426172	226534	0.011729391
3	<i>TIGIT</i>	rs9825470	115511323	213156	0.012349392
15	<i>SEMA6D</i>	rs12898855	45801857	226492	0.01254413
14	<i>DAAM1</i>	rs965590	58818577	226666	0.013441002
2	<i>DYNC2LI1</i>	rs10205936	43844814	227148	0.015302231
1	<i>ARHGAP29</i>	rs12077584	94443982	1558280	0.016443797
6	<i>PHACTR2</i>	rs761627	144078630	227947	0.019209569
15	<i>SEMA6D</i>	rs586799	45812214	226492	0.02006552
21	<i>CYYR1</i>	rs222973	26800940	228665	0.020939464
12	<i>AMIGO2</i>	rs2269828	45757706	222108	0.023818954
14	<i>DAAM1</i>	rs927964	58873466	226666	0.026059542
1	<i>ARHGAP29</i>	rs6673184	94441895	1558280	0.026426997
6	<i>PHACTR2</i>	rs3811095	143970633	227947	0.026724192
6	<i>CCDC90A</i>	rs3757251	13899115	220094	0.026972738
21	<i>CYYR1</i>	rs2830273	26831258	228665	0.033481447
12	<i>AMIGO2</i>	rs7979883	45753285	222108	0.034269004
21	<i>CYYR1</i>	rs2830271	26828867	228665	0.034337196
21	<i>CYYR1</i>	rs17619458	26803092	228665	0.035161706
8	<i>WHSC1L1</i>	rs2932005	38351031	225318	0.035221034
14	<i>DAAM1</i>	rs12888995	58796019	226666	0.035717969
6	<i>PHACTR2</i>	rs17072830	143982460	227947	0.035805348
19	<i>HIF3A</i>	rs10414875	51514136	1555318	0.036684338
21	<i>CYYR1</i>	rs222954	26839258	228665	0.036872187
19	<i>HIF3A</i>	rs887946	51508628	1555318	0.038367475

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
6	<i>PHACTR2</i>	rs2073214	144123302	227947	0.039351035
21	<i>CYYR1</i>	rs222921	26806368	228665	0.039896652
12	<i>ZNF84</i>	rs7133210	132129156	228630	0.039988404
9	<i>PTCH1</i>	rs2236405	97251393	209815	0.040380621
1	<i>EIF2C4</i>	rs727005	36053923	227930	0.042076479
14	<i>DAAM1</i>	rs2099636	58838891	226666	0.042087954
10	<i>ZNF248</i>	rs200932	38168774	213269	0.042393791
8	<i>CSPP1</i>	rs16933170	68192032	227105	0.043358642
8	<i>CSPP1</i>	rs16933182	68236691	227105	0.044325008
6	<i>KIAA0240</i>	rs9471915	42862590	1559964	0.047468503
21	<i>CYYR1</i>	rs17536311	26818798	228665	0.047642786
1	<i>ARHGAP29</i>	rs6682149	94448856	1558280	0.047820355
19	<i>HIF3A</i>	rs3752207	51507545	1555318	0.047841623
1	<i>ITGB3BP</i>	rs17391823	63759453	226800	0.048031994
8	<i>LETM2</i>	rs12678205	38359165	225318	0.048471569
19	<i>HIF3A</i>	rs17173172	51507137	1555318	0.049176999
6	<i>PHACTR2</i>	rs722755	144125078	227947	0.049663881
1	<i>SYDE2</i>	rs817399	85386139	239847	0.050744811
6	<i>PHACTR2</i>	rs17073064	144141568	227947	0.054467718
9	<i>MAK10</i>	rs11789292	87804682	220925	0.059103457
1	<i>SYDE2</i>	rs12026642	85388277	239847	0.059295531
2	<i>DYNC2LI1</i>	rs3762571	43853238	227148	0.059736156
4	<i>HPGD</i>	rs2555632	175670737	211548	0.061500595
6	<i>PHACTR2</i>	rs2488102	144074515	227947	0.064211572
12	<i>ZNF84</i>	rs7961667	132128064	228630	0.065952402
6	<i>PHACTR2</i>	rs9484805	144099809	227947	0.070496091
14	<i>SLC25A29</i>	rs3742379	99829030	224711	0.074489048
14	<i>DAAM1</i>	rs1957408	58870074	226666	0.078930955
14	<i>DAAM1</i>	rs17255507	58806410	226666	0.080169135
14	<i>DAAM1</i>	rs17833798	58753334	226666	0.081382087
9	<i>PTCH1</i>	rs357563	97244020	209815	0.081610184
1	<i>SYDE2</i>	rs7535388	85388784	239847	0.084193749
6	<i>PHACTR2</i>	rs6937056	144095901	227947	0.084872423
19	<i>ZNF44</i>	rs2458998	12231583	215359	0.085160723
6	<i>PHACTR2</i>	rs7772565	144034763	227947	0.085455948
14	<i>DAAM1</i>	rs1252992	58735039	226666	0.090801652
6	<i>FAM162B</i>	rs1165552	117184072	228875	0.091989436
14	<i>DAAM1</i>	rs17096088	58861960	226666	0.09214588
14	<i>DAAM1</i>	rs11158252	58795659	226666	0.093557295
21	<i>CYYR1</i>	rs1395053	26853119	228665	0.094022735
6	<i>CCDC90A</i>	rs6940337	13897316	220094	0.095270746
6	<i>PHACTR2</i>	rs13214849	144016742	227947	0.097485937
13	<i>TNFRSF19</i>	rs9580701	23103412	227812	0.097698133
17	<i>ZNF207</i>	rs2286645	27720405	228157	0.09784967
13	<i>RCBTB1</i>	rs9535262	49032695	218352	0.100687293
15	<i>SEMA6D</i>	rs3985863	45820660	226492	0.101694681
19	<i>HIF3A</i>	rs4803932	51537918	1555318	0.102708707
6	<i>COQ3</i>	rs4144165	99953981	212179	0.105197151
6	<i>PHACTR2</i>	rs2295202	144136641	227947	0.106926076
12	<i>ZNF84</i>	rs11297	132149732	228630	0.107968167
19	<i>HIF3A</i>	rs10411556	51516744	1555318	0.108343934
21	<i>CYYR1</i>	rs191996	26796014	228665	0.108469775
14	<i>DAAM1</i>	rs721069	58757058	226666	0.108941033
10	<i>ZNF248</i>	rs200936	38174941	213269	0.109763561
6	<i>QKI</i>	rs2759386	163764382	212263	0.113432183
14	<i>DAAM1</i>	rs17833810	58767499	226666	0.114189114

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
21	CYYR1	rs222935	26821069	228665	0.115024138
8	RUNX1T1	rs10098853	93037086	205528	0.116332199
21	CYYR1	rs219632	26789430	228665	0.117895461
10	ZNF248	rs200937	38175778	213269	0.118083083
1	EIF2C4	rs7525882	36080484	227930	0.118630291
4	HPGD	rs12644138	175674467	211548	0.119421153
19	HIF3A	rs8101480	51507339	1555318	0.122255472
17	C17ORF73	rs17564062	46188680	242389	0.122303448
1	SYDE2	rs817403	85389939	239847	0.122701786
1	EFCAB7	rs217451	63776221	226800	0.122758255
2	PLEKHH2	rs4953011	43827862	227148	0.123033914
8	CSPP1	rs1808140	68265531	227105	0.123469362
8	CSPP1	rs6998170	68187128	227105	0.123469362
14	SLC25A29	rs11848624	99823495	224711	0.124037428
13	RCBTB1	rs2296502	49012982	218352	0.124433295
1	EFCAB7	rs217463	63814375	226800	0.124896011
1	ARHGAP29	rs17399943	94473272	1558280	0.125312358
19	HIF3A	rs757638	51503966	1555318	0.12910219
2	PLEKHH2	rs7603323	43813051	227148	0.12944055
13	RCBTB1	rs2274278	49024383	218352	0.12993422
4	SLIT2	rs1457916	20234787	228850	0.130568842
6	COQ3	rs3811072	99958698	212179	0.130880505
8	CSPP1	rs2358043	68259006	227105	0.131442282
1	EFCAB7	rs170090	63807735	226800	0.133475291
8	WHSC1L1	rs2280847	38295344	225318	0.133733288
12	AMIGO2	rs854889	45757304	222108	0.13553911
6	PHACTR2	rs10484828	144077122	227947	0.139757775
5	SLC12A2	rs17607500	127496887	225835	0.142683126
2	PLEKHH2	rs1432280	43766065	227148	0.144190611
1	ARHGAP29	rs1411701	94407616	1558280	0.145656982
8	WHSC1L1	rs10102341	38280626	225318	0.148237161
8	WHSC1L1	rs11774214	38331570	225318	0.148237161
14	DAAM1	rs17096179	58908520	226666	0.148387109
6	PHACTR2	rs6570567	143973425	227947	0.149291334
9	MAK10	rs1328923	87808282	220925	0.149823813
6	PHACTR2	rs1015339	144076541	227947	0.149939954
4	KIT	rs11721352	55250635	205051	0.150132909
6	PHACTR2	rs9496711	143987327	227947	0.150414565
21	CYYR1	rs2830235	26755620	228665	0.150598842
4	KIT	rs4355454	55305605	205051	0.151207455
21	CYYR1	rs222977	26802387	228665	0.151599579
14	SLC25A29	rs1059263	99839120	224711	0.15254143
4	HPGD	rs3756273	175681812	211548	0.153000191
13	RCBTB1	rs7317140	49015037	218352	0.154117721
2	DYNC2LI1	rs7601418	43848995	227148	0.156737105
8	WHSC1L1	rs10100894	38262514	225318	0.157252896
14	DAAM1	rs1008734	58809703	226666	0.158948842
6	PHACTR2	rs9390123	143985007	227947	0.159407769
9	PTCH1	rs4448343	97306191	209815	0.160918986
13	RCBTB1	rs7995006	49011730	218352	0.164834939
12	ZNF84	rs3805728	132143609	228630	0.166601932
21	CYYR1	rs2830259	26791471	228665	0.16800627
12	AMIGO2	rs2106928	45761112	222108	0.168675133
6	PHACTR2	rs9386041	144026546	227947	0.172439856
15	GOLGA8B	rs16954442	32606319	213650	0.172463373
7	RSBN1L	rs10263369	77244340	228963	0.172655993

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
8	<i>RUNX1T1</i>	rs11985869	93035527	205528	0.173174446
12	<i>KITLG</i>	rs1492354	87472109	226534	0.178629245
12	<i>RECQL</i>	rs10161132	21518554	213878	0.17908092
1	<i>ARHGAP29</i>	rs1411698	94458698	1558280	0.179673714
4	<i>SLIT2</i>	rs17544103	20228988	228850	0.182473485
18	<i>POLI</i>	rs596986	50075498	238992	0.182738321
8	<i>WHSC1L1</i>	rs2234549	38307170	225318	0.18352309
2	<i>PLEKHH2</i>	rs17031287	43773525	227148	0.184278411
3	<i>INTERGENIC</i>	rs2688464	196906558	1557293	0.185585869
14	<i>DAAM1</i>	rs941882	58861382	226666	0.185634832
6	<i>COQ3</i>	rs9376137	99948777	212179	0.187330503
1	<i>EIF2C4</i>	rs11264211	36043194	227930	0.187341336
6	<i>FAM162B</i>	rs647689	117187923	228875	0.189700545
1	<i>EFCAB7</i>	rs1740397	63804871	226800	0.193794173
6	<i>HMGN3</i>	rs9343886	79983800	209377	0.197686167
6	<i>PHACTR2</i>	rs9390143	144181078	227947	0.197727172
14	<i>DAAM1</i>	rs8003365	58852266	226666	0.197832946
19	<i>ZNF30</i>	rs1811	40126078	232014	0.198422155
17	<i>C17ORF73</i>	rs2159432	46191051	242389	0.201183547
8	<i>PPAPDC1B</i>	rs7845911	38254569	225318	0.201380798
1	<i>ARHGAP29</i>	rs1048866	94411299	1558280	0.204721434
13	<i>RCBTB1</i>	rs729051	49018210	218352	0.20591582
21	<i>CYYR1</i>	rs222931	26819270	228665	0.207208624
21	<i>CYYR1</i>	rs2830236	26756495	228665	0.208164559
6	<i>PHACTR2</i>	rs1014900	144069276	227947	0.208318832
4	<i>HPGD</i>	rs17060521	175647010	211548	0.213757748
21	<i>CYYR1</i>	rs2830266	26800371	228665	0.215012818
6	<i>QKI</i>	rs803612	163778227	212263	0.215382267
12	<i>KITLG</i>	rs1022034	87442874	226534	0.219839621
15	<i>IREB2</i>	rs12916396	76531579	225892	0.220543551
1	<i>ARHGAP29</i>	rs4847296	94463383	1558280	0.220888364
21	<i>CYYR1</i>	rs222961	26847600	228665	0.220989705
4	<i>KIT</i>	rs4406072	55305417	205051	0.222710872
14	<i>DAAM1</i>	rs8022614	58859480	226666	0.225078069
6	<i>HMGN3</i>	rs4706754	79969588	209377	0.229520511
6	<i>PHACTR2</i>	rs12193494	143979636	227947	0.229950619
17	<i>C17ORF73</i>	rs1984555	46191196	242389	0.230326388
7	<i>TMEM60</i>	rs6465825	77254375	228963	0.231356743
19	<i>HIF3A</i>	rs731293	51503655	1555318	0.231377279
1	<i>EIF2C4</i>	rs515346	36048224	227930	0.233954606
12	<i>KITLG</i>	rs1492348	87460779	226534	0.236382493
6	<i>FAM162B</i>	rs9374622	117178076	228875	0.236615558
17	<i>CROP</i>	rs4794179	46148229	208835	0.238317001
8	<i>PPAPDC1B</i>	rs1488934	38252769	225318	0.238578551
6	<i>HMGN3</i>	rs2322216	79980383	209377	0.23929758
21	<i>CYYR1</i>	rs8128305	26783864	228665	0.240950953
6	<i>PHACTR2</i>	rs10457752	144073101	227947	0.24439041
13	<i>RCBTB1</i>	rs17073188	49042198	218352	0.244936163
17	<i>ZNF207</i>	rs11080180	27707111	228157	0.245349003
6	<i>PHACTR2</i>	rs9403521	144035892	227947	0.24570547
7	<i>RP9</i>	rs10281469	33110798	227852	0.249444724
6	<i>SFRS18</i>	rs9385739	99960448	212179	0.249866647
1	<i>LEPR</i>	rs11585329	65846402	227095	0.250111547
18	<i>POLI</i>	rs652994	50080235	238992	0.251160777
13	<i>RCBTB1</i>	rs7337571	49052554	218352	0.253167161
6	<i>PHACTR2</i>	rs9321941	144106597	227947	0.254274521

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
12	<i>KITLG</i>	rs10506957	87491138	226534	0.254472999
19	<i>ZNF30</i>	rs2651109	40126352	232014	0.256745305
19	<i>ZNF30</i>	rs1345658	40126846	232014	0.257847668
6	<i>PHACTR2</i>	rs12196139	144006085	227947	0.260195501
6	<i>PHACTR2</i>	rs926794	144181257	227947	0.260912113
6	<i>FAM162B</i>	rs686708	117198376	228875	0.261963544
13	<i>RCBTB1</i>	rs2274281	49024668	218352	0.262004367
12	<i>RECQL</i>	rs997820	21518824	213878	0.262750812
14	<i>DAAM1</i>	rs12433411	58763260	226666	0.263610475
6	<i>CCDC90A</i>	rs3823246	13902500	220094	0.264018924
21	<i>CYYR1</i>	rs1847861	26844063	228665	0.264174626
15	<i>LPCAT4</i>	rs8037671	32456454	213650	0.264978286
4	<i>HPGD</i>	rs2303520	175653541	211548	0.265620858
14	<i>DAAM1</i>	rs17255395	58739147	226666	0.268054906
14	<i>DAAM1</i>	rs10143918	58842961	226666	0.268321507
7	<i>RP9</i>	rs12667900	33098254	227852	0.268766327
12	<i>KITLG</i>	rs1703081	87475518	226534	0.268973624
10	<i>ZNF248</i>	rs1208642	38168589	213269	0.270241293
19	<i>ZNF302</i>	rs17718247	39873192	218490	0.271428046
1	<i>LEPR</i>	rs6662904	65770328	227095	0.271570893
1	<i>EFCAB7</i>	rs217473	63802436	226800	0.271908646
14	<i>DAAM1</i>	rs17096074	58859645	226666	0.271922494
13	<i>RCBTB1</i>	rs4941648	49054166	218352	0.272063626
21	<i>CYYR1</i>	rs222925	26809366	228665	0.272358279
6	<i>PHACTR2</i>	rs7745196	143999273	227947	0.276569185
10	<i>ZNF248</i>	rs200914	38157697	213269	0.277913239
13	<i>RCBTB1</i>	rs17073145	49032100	218352	0.279405945
5	<i>SLC12A2</i>	rs790154	127529134	225835	0.282623568
2	<i>PLEKHH2</i>	rs2288710	43823791	227148	0.283290554
21	<i>CYYR1</i>	rs219645	26766282	228665	0.283503614
1	<i>EIF2C4</i>	rs4652895	36089158	227930	0.283846542
12	<i>AMIGO2</i>	rs7963939	45751349	222108	0.285561758
21	<i>CYYR1</i>	rs2830284	26859410	228665	0.288223643
4	<i>HPGD</i>	rs9312555	175648528	211548	0.289391737
21	<i>CYYR1</i>	rs17002187	26762664	228665	0.291818961
10	<i>PPP1R3C</i>	rs10509632	93374298	204284	0.292702187
7	<i>RP9</i>	rs6980186	33103190	227852	0.292823687
15	<i>LPCAT4</i>	rs4299123	32454055	213650	0.296720184
10	<i>ZNF248</i>	rs10827834	38190470	213269	0.296993929
14	<i>DAAM1</i>	rs7153158	58784239	226666	0.297459812
13	<i>TNFRSF19</i>	rs932880	23086039	227812	0.29980276
10	<i>ZNF248</i>	rs12256794	38179120	213269	0.299936322
1	<i>LEPR</i>	rs11587159	65759793	227095	0.30053626
9	<i>MAK10</i>	rs17353510	87801499	220925	0.303502649
1	<i>EFCAB7</i>	rs217478	63763855	226800	0.303850141
6	<i>PHACTR2</i>	rs9496767	144128087	227947	0.304028437
4	<i>HPGD</i>	rs7349744	175660747	211548	0.304999055
21	<i>CYYR1</i>	rs7510108	26803786	228665	0.305995909
12	<i>RECQL</i>	rs6499	21515813	213878	0.309978167
2	<i>PLEKHH2</i>	rs11885893	43800822	227148	0.310165804
12	<i>KITLG</i>	rs10777131	87486142	226534	0.310429846
13	<i>RCBTB1</i>	rs1925742	49007585	218352	0.31043741
12	<i>RECQL</i>	rs1029931	21520580	213878	0.310953495
4	<i>KIT</i>	rs17084745	55302601	205051	0.3121608
21	<i>CYYR1</i>	rs2830257	26790460	228665	0.312475158
10	<i>ZNF248</i>	rs1779089	38166711	213269	0.317407933

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
12	<i>PYROXD1</i>	rs11046075	21512686	213878	0.318653588
6	<i>PHACTR2</i>	rs2073215	144123461	227947	0.319421545
5	<i>SLC12A2</i>	rs12189448	127533047	225835	0.321042369
2	<i>DYNC2LI1</i>	rs10495907	43852230	227148	0.323277415
1	<i>EFCAB7</i>	rs217454	63771675	226800	0.323316519
13	<i>RCBTB1</i>	rs7996012	49053640	218352	0.323471176
4	<i>HPGD</i>	rs2612658	175664894	211548	0.326883795
13	<i>RCBTB1</i>	rs9568256	49029076	218352	0.327546529
6	<i>PHACTR2</i>	rs7760144	144072540	227947	0.327590882
4	<i>SLIT2</i>	rs8663	20230788	228850	0.329562724
1	<i>ARHGAP29</i>	rs1999271	94473797	1558280	0.335776243
4	<i>HPGD</i>	rs8752	175649052	211548	0.338770856
2	<i>PLEKHH2</i>	rs6716551	43789229	227148	0.339026804
3	<i>C3ORF50</i>	rs12374050	170026871	1558411	0.341835482
1	<i>EIF2C4</i>	rs671944	36067219	227930	0.34198152
5	<i>SLC12A2</i>	rs790155	127526279	225835	0.342928538
6	<i>FLJ38717</i>	rs2150911	42857066	1559964	0.343883999
8	<i>WHSC1L1</i>	rs7821392	38344506	225318	0.346873567
13	<i>TNFRSF19</i>	rs7329483	23140801	227812	0.34796224
2	<i>PLEKHH2</i>	rs2163652	43753422	227148	0.348767657
4	<i>KIT</i>	rs6554198	55216917	205051	0.350348305
17	<i>C17ORF73</i>	rs9747888	46192334	242389	0.350900997
6	<i>PHACTR2</i>	rs2051008	144064405	227947	0.353579329
14	<i>DAAM1</i>	rs1957406	58859031	226666	0.355435787
13	<i>RCBTB1</i>	rs1359541	49056940	218352	0.355550061
3	<i>TIGIT</i>	rs11921850	115514550	213156	0.355964046
15	<i>INTERGENIC</i>	rs687566	45818573	226492	0.356886618
8	<i>WHSC1L1</i>	rs11777811	38340625	225318	0.357722246
4	<i>KIT</i>	rs2237033	55224027	205051	0.357911769
10	<i>ZNF248</i>	rs1208664	38181742	213269	0.359118101
1	<i>LEPR</i>	rs1171279	65761081	227095	0.359212364
8	<i>WHSC1L1</i>	rs10101168	38312675	225318	0.360605135
15	<i>SEMA6D</i>	rs501916	45840521	226492	0.360948713
10	<i>ZNF248</i>	rs1208723	38156172	213269	0.361806139
5	<i>INTERGENIC</i>	rs1864922	127448599	225835	0.364276571
12	<i>KITLG</i>	rs869408	87498886	226534	0.364594191
2	<i>PLEKHH2</i>	rs17413944	43738359	227148	0.365194382
19	<i>HIF3A</i>	rs16980431	51498097	1555318	0.366208586
21	<i>CYYR1</i>	rs4817119	26779877	228665	0.368733128
14	<i>SLC25A29</i>	rs8007427	99841325	224711	0.368758306
1	<i>ARHGAP29</i>	rs3789687	94466291	1558280	0.368890362
6	<i>QKI</i>	rs13207769	163869017	212263	0.371904357
2	<i>PLEKHH2</i>	rs719424	43762555	227148	0.372539948
13	<i>RCBTB1</i>	rs9568269	49056143	218352	0.375757182
14	<i>SLC25A29</i>	rs4905945	99847546	224711	0.376873175
4	<i>KIT</i>	rs2237034	55223410	205051	0.382006036
8	<i>CSPP1</i>	rs12681862	68204344	227105	0.382722739
2	<i>PLEKHH2</i>	rs6544691	43789734	227148	0.384859876
1	<i>ARHGAP29</i>	rs12724116	94462322	1558280	0.38509949
12	<i>RECQL</i>	rs10841830	21516764	213878	0.38700695
8	<i>WHSC1L1</i>	rs2234555	38297924	225318	0.390479153
14	<i>DAAM1</i>	rs1252915	58735874	226666	0.392584765
6	<i>PHACTR2</i>	rs12213878	143988707	227947	0.39672528
13	<i>RCBTB1</i>	rs7322971	49025720	218352	0.397498671
10	<i>ZNF248</i>	rs1208650	38173548	213269	0.398052245
21	<i>CYYR1</i>	rs2830243	26767851	228665	0.398320333

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
6	<i>PHACTR2</i>	rs11155313	144003270	227947	0.398592168
6	<i>COQ3</i>	rs9402748	99949426	212179	0.399200392
6	<i>PHACTR2</i>	rs11155319	144051933	227947	0.400193655
2	<i>PLEKHH2</i>	rs919688	43738264	227148	0.402719662
14	<i>SLC25A29</i>	rs3825555	99828799	224711	0.403617289
6	<i>FAM162B</i>	rs654128	117193071	228875	0.404995933
1	<i>ARHGAP29</i>	rs10782980	94470337	1558280	0.406138741
6	<i>HMG3</i>	rs12191682	80000505	209377	0.407515985
6	<i>PHACTR2</i>	rs17072918	144061598	227947	0.408953423
8	<i>RUNX1T1</i>	rs4500123	93039329	205528	0.409198832
13	<i>RCBTB1</i>	rs7328860	49027122	218352	0.41026187
9	<i>PTCH1</i>	rs574688	97279011	209815	0.413889723
4	<i>KIT</i>	rs3822214	55288221	205051	0.415468897
6	<i>PHACTR2</i>	rs6907742	144057326	227947	0.416933075
10	<i>INTERGENIC</i>	rs12262390	94436103	215933	0.417204775
1	<i>MASP2</i>	rs7548659	11030026	229111	0.41778984
6	<i>QKI</i>	rs9346960	163805280	212263	0.4180383
6	<i>QKI</i>	rs3857504	163753600	212263	0.418742876
1	<i>EIF2C4</i>	rs16822342	36047775	227930	0.4205922
11	<i>CREBZF</i>	rs17811094	85058218	225595	0.421826304
13	<i>RCBTB1</i>	rs3751383	49021650	218352	0.422314672
12	<i>KITLG</i>	rs11104940	87456855	226534	0.425530045
6	<i>PHACTR2</i>	rs12660418	144144221	227947	0.425531033
2	<i>PLEKHH2</i>	rs10514787	43784213	227148	0.427992722
7	<i>RSBN1L</i>	rs3944103	77250425	228963	0.429084534
8	<i>WHSC1L1</i>	rs1599918	38283444	225318	0.429337359
19	<i>ZNF302</i>	rs2305762	39861380	218490	0.432739995
4	<i>KIT</i>	rs3733542	55297522	205051	0.437741517
15	<i>INTERGENIC</i>	rs628501	45814620	226492	0.43774746
4	<i>KIT</i>	rs11735550	55283476	205051	0.440596804
13	<i>RCBTB1</i>	rs7982555	49009511	218352	0.442431382
5	<i>SLC12A2</i>	rs4836369	127514361	225835	0.44478868
12	<i>KITLG</i>	rs7953414	87481499	226534	0.445003657
12	<i>KITLG</i>	rs4842632	87455663	226534	0.446547393
1	<i>EIF2C4</i>	rs2791966	36087448	227930	0.446552345
1	<i>MASP2</i>	rs2273344	11027709	229111	0.447336887
4	<i>KIT</i>	rs6554200	55224166	205051	0.447725621
4	<i>HPGD</i>	rs17360144	175659576	211548	0.44829065
4	<i>SLIT2</i>	rs1379659	20229781	228850	0.450870478
2	<i>PLEKHH2</i>	rs713262	43821026	227148	0.451742387
19	<i>HIF3A</i>	rs11665853	51526523	1555318	0.452471721
7	<i>RP9</i>	rs11771864	33105400	227852	0.454433246
6	<i>PHACTR2</i>	rs9386046	144095189	227947	0.454836733
8	<i>WHSC1L1</i>	rs7837189	38266997	225318	0.456039356
6	<i>FAM162B</i>	rs9489034	117181912	228875	0.456441644
8	<i>RUNX1T1</i>	rs2294091	93036143	205528	0.457094239
19	<i>ZNF30</i>	rs765746	40126909	232014	0.457617412
2	<i>PLEKHH2</i>	rs6710907	43749203	227148	0.458555842
2	<i>PLEKHH2</i>	rs1560599	43799550	227148	0.458853354
6	<i>PHACTR2</i>	rs12214478	144092498	227947	0.459243208
14	<i>DAAM1</i>	rs8016509	58735496	226666	0.459792295
5	<i>SLC12A2</i>	rs10519973	127501029	225835	0.460068589
12	<i>KITLG</i>	rs1907702	87479600	226534	0.461255248
4	<i>HPGD</i>	rs1863642	175670488	211548	0.463160099
6	<i>PHACTR2</i>	rs6931865	144121547	227947	0.463204908
8	<i>RUNX1T1</i>	rs2976501	93045739	205528	0.46599068

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
17	ZNF207	rs3795244	27716509	228157	0.466673657
19	HIF3A	rs2072491	51499429	1555318	0.466740558
21	CYYR1	rs219628	26787291	228665	0.468086821
14	DAAM1	rs1252909	58723047	226666	0.469718676
13	TNFRSF19	rs9507124	23106927	227812	0.470528079
1	EFCAB7	rs10889430	63766885	226800	0.470903564
1	EFCAB7	rs11805892	63785553	226800	0.472492482
8	WHSC1L1	rs10958606	38268561	225318	0.472713695
21	CYYR1	rs2830281	26851793	228665	0.473628418
21	CYYR1	rs222971	26798338	228665	0.473747461
15	IREB2	rs1847529	76522125	225892	0.475517181
13	TNFRSF19	rs9510787	23103195	227812	0.475851688
11	CREBZF	rs17743826	85050819	225595	0.476154453
6	HMG3	rs9343884	79978997	209377	0.478183553
6	HMG3	rs10943623	79971452	209377	0.478629678
8	WHSC1L1	rs11985168	38279200	225318	0.479020133
6	PHACTR2	rs17073061	144138559	227947	0.479918
3	INTERGENIC	rs11719903	196910459	1557293	0.480830313
9	MAK10	rs954124	87752884	220925	0.482596677
14	DAAM1	rs1272669	58885535	226666	0.482901039
6	HMG3	rs6912569	79965948	209377	0.48462673
6	PHACTR2	rs12524982	144050854	227947	0.486891359
8	PPAPDC1B	rs3824289	38249590	225318	0.487414845
12	KITLG	rs3782174	87463008	226534	0.487527016
3	C3ORF50	rs17744226	170010239	1558411	0.487632843
1	LEPR	rs1171276	65760037	227095	0.487781007
11	SFRS2B	rs4753652	94446370	228760	0.487990768
6	QKI	rs9458846	163858321	212263	0.488934146
4	KIT	rs2237025	55236636	205051	0.489031551
18	POLI	rs3218786	50074207	238992	0.489182303
7	RP9	rs3915352	33104997	227852	0.489467562
2	PLEKHH2	rs6544681	43719282	227148	0.490438184
11	CREBZF	rs17810766	85053249	225595	0.490648003
1	ARHGAP29	rs3789688	94463828	1558280	0.490927749
6	HMG3	rs9361503	79992718	209377	0.496521334
1	LEPR	rs17127828	65868114	227095	0.496790573
6	PHACTR2	rs9376769	143970130	227947	0.498187399
4	SLIT2	rs2322560	20235195	228850	0.502553216
4	KIT	rs3134889	55276825	205051	0.502658031
19	ZNF30	rs2032828	40106861	232014	0.504851694
6	CCDC90A	rs6903118	13918564	220094	0.505301355
8	RUNX1T1	rs2920468	93035671	205528	0.50719732
21	CYYR1	rs219625	26786845	228665	0.508033791
8	RUNX1T1	rs2976505	93064148	205528	0.509682335
14	DAAM1	rs7149497	58847352	226666	0.510084572
6	HMG3	rs11759494	79997836	209377	0.510539005
11	CREBZF	rs290171	85055344	225595	0.510660318
10	ZNF248	rs1148287	38175903	213269	0.511344377
15	IREB2	rs12909921	76530315	225892	0.511506589
5	SLC12A2	rs10477682	127539219	225835	0.512223481
6	HMG3	rs1060419	80001713	209377	0.514478151
19	ZNF30	rs2546019	40129107	232014	0.516030675
2	PLEKHH2	rs6544683	43732886	227148	0.516033536
2	PLEKHH2	rs7606783	43780447	227148	0.517643909
1	EFCAB7	rs3861944	63772998	226800	0.51938044
1	EFCAB7	rs9804078	63770221	226800	0.519884446

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
1	LEPR	rs4655518	65812446	227095	0.520077221
10	PPP1R3C	rs1044563	93380129	204284	0.522922959
21	CYYR1	rs222972	26800448	228665	0.522972733
4	KIT	rs2237017	55269911	205051	0.526328055
1	EFCAB7	rs6657480	63772456	226800	0.527713187
1	LEPR	rs7535099	65823585	227095	0.528241301
5	SLC12A2	rs4835943	127485468	225835	0.529831064
18	POLI	rs11660002	50081173	238992	0.530145028
19	ZNF302	rs8109787	39873271	218490	0.530731393
1	MASP2	rs3819991	11027299	229111	0.531483336
13	TNFRSF19	rs7319955	23080378	227812	0.532393907
13	TNFRSF19	rs7338164	23098266	227812	0.53247058
6	HMG3	rs12202025	80001776	209377	0.533460167
2	PLEKHH2	rs17335631	43727009	227148	0.533952745
21	CYYR1	rs2830241	26767184	228665	0.538879139
9	PTCH1	rs357564	97249415	209815	0.540585829
4	HPGD	rs17060596	175676840	211548	0.540743404
6	PHACTR2	rs9496739	144062593	227947	0.541462166
8	RUNX1T1	rs2920466	93067272	205528	0.543383262
12	KITLG	rs10506955	87453157	226534	0.544034343
12	KITLG	rs10777127	87478426	226534	0.545612066
19	ZNF30	rs10421478	40124778	232014	0.547267619
5	INTERGENIC	rs17675580	127455979	225835	0.547950772
14	DAAM1	rs1958181	58904756	226666	0.549561153
2	PLEKHH2	rs1991739	43797029	227148	0.551110634
6	HMG3	rs9343883	79966999	209377	0.553641286
6	QKI	rs2294698	163915727	212263	0.555892385
13	TNFRSF19	rs3751358	23142894	227812	0.558885199
6	PHACTR2	rs960710	144102651	227947	0.560083708
8	RUNX1T1	rs2920467	93070437	205528	0.560705802
14	DAAM1	rs4901918	58887236	226666	0.561621965
1	EIF2C4	rs6674772	36090422	227930	0.562761476
5	SLC12A2	rs1993878	127504870	225835	0.563092695
2	PLEKHH2	rs755862	43756015	227148	0.563651204
4	HPGD	rs1050145	175679731	211548	0.564614505
1	LEPR	rs3790429	65809364	227095	0.564733999
6	HMG3	rs12661489	79998552	209377	0.564755889
6	PHACTR2	rs17072851	144011212	227947	0.565048471
13	TNFRSF19	rs6490812	23101027	227812	0.56582695
2	PLEKHH2	rs6713194	43792062	227148	0.566152235
14	DAAM1	rs1253035	58895625	226666	0.570806505
17	CROP	rs1055371	46171261	208835	0.572282997
4	HPGD	rs1346271	175680581	211548	0.573781458
1	MASP2	rs12143364	11033740	229111	0.574813682
6	PHACTR2	rs7757372	143972097	227947	0.575049277
13	TNFRSF19	rs7332106	23073420	227812	0.578133465
10	PPP1R3C	rs10509633	93385768	204284	0.578219746
6	QKI	rs3756879	163910298	212263	0.579344084
19	ZNF302	rs2290652	39867048	218490	0.57984682
1	LEPR	rs7413823	65796304	227095	0.580844572
1	LEPR	rs1171267	65776442	227095	0.581987418
6	PHACTR2	rs2474152	144054752	227947	0.582547493
19	CIRBP	rs11555031	1221981	230142	0.583052552
12	KITLG	rs7135958	87457875	226534	0.585473696
1	LEPR	rs3790424	65816601	227095	0.585646372
6	PHACTR2	rs3818113	144116362	227947	0.585690159

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
6	<i>HMGN3</i>	rs2236543	79968908	209377	0.586819827
13	<i>TNFRSF19</i>	rs9553020	23100405	227812	0.588067724
12	<i>KITLG</i>	rs1388789	87412346	226534	0.590043554
6	<i>PHACTR2</i>	rs1546947	144145254	227947	0.595386967
14	<i>DAAM1</i>	rs8016570	58735687	226666	0.596153288
13	<i>TNFRSF19</i>	rs1928114	23077705	227812	0.596822394
19	<i>ZNF44</i>	rs2438558	12214830	215359	0.597308716
14	<i>SLC25A29</i>	rs1059264	99838916	224711	0.59832654
13	<i>PHF11</i>	rs2981	48999095	218352	0.601055062
1	<i>MASP2</i>	rs3765900	11026957	229111	0.601406779
12	<i>KITLG</i>	rs11104952	87480531	226534	0.604501148
21	<i>CYYR1</i>	rs2830279	26846849	228665	0.604847489
6	<i>FAM162B</i>	rs11153626	117178262	228875	0.605574104
8	<i>RUNX1T1</i>	rs7845969	93091263	205528	0.606783852
8	<i>RUNX1T1</i>	rs1814032	93074623	205528	0.609439196
12	<i>KITLG</i>	rs1162372	87428062	226534	0.609455255
2	<i>PLEKHH2</i>	rs17414174	43791004	227148	0.610227269
10	<i>ZNF248</i>	rs2295872	38186224	213269	0.61073307
8	<i>RUNX1T1</i>	rs1443558	93055561	205528	0.611201677
15	<i>IREB2</i>	rs10519198	76529809	225892	0.612486892
14	<i>DAAM1</i>	rs2757117	58764396	226666	0.613484343
1	<i>ARHGAP29</i>	rs3789693	94413476	1558280	0.614491809
6	<i>CCDC90A</i>	rs3734669	13898281	220094	0.614641631
1	<i>EFCAB7</i>	rs2273367	63793684	226800	0.615981548
6	<i>PHACTR2</i>	rs6570581	144142558	227947	0.616336073
10	<i>PPP1R3C</i>	rs2242121	93382960	204284	0.617344354
6	<i>QKI</i>	rs6931903	163830315	212263	0.61751371
9	<i>MAK10</i>	rs4877956	87797808	220925	0.619431233
19	<i>ZNF302</i>	rs10418293	39873668	218490	0.620989112
13	<i>TNFRSF19</i>	rs4770469	23094178	227812	0.62161633
15	<i>INTERGENIC</i>	rs1439319	45796262	226492	0.623666229
21	<i>CYYR1</i>	rs2830244	26769135	228665	0.625041227
14	<i>DAAM1</i>	rs11844752	58728478	226666	0.625899249
6	<i>PHACTR2</i>	rs1082	144187490	227947	0.625914603
8	<i>RUNX1T1</i>	rs7004147	93093581	205528	0.626779285
19	<i>ZNF44</i>	rs1047138	12216506	215359	0.628749016
2	<i>PLEKHH2</i>	rs10211617	43777675	227148	0.629064351
12	<i>KITLG</i>	rs2407205	87467727	226534	0.629167156
6	<i>PHACTR2</i>	rs9403527	144089526	227947	0.629259348
8	<i>RUNX1T1</i>	rs2920462	93054684	205528	0.630320351
12	<i>ZNF84</i>	rs623100	132144523	228630	0.633148197
12	<i>KITLG</i>	rs7313352	87473255	226534	0.634315677
8	<i>RUNX1T1</i>	rs2920471	93051050	205528	0.63434421
2	<i>PLEKHH2</i>	rs4952997	43776180	227148	0.635518894
6	<i>PHACTR2</i>	rs6570569	143981332	227947	0.635560439
21	<i>CYYR1</i>	rs222950	26835579	228665	0.635684997
4	<i>HPGD</i>	rs3846298	175665788	211548	0.635993533
10	<i>PPP1R3C</i>	rs11186638	93386994	204284	0.637292698
14	<i>DAAM1</i>	rs1252989	58748939	226666	0.63924107
14	<i>DAAM1</i>	rs1253005	58800998	226666	0.641423045
18	<i>POLI</i>	rs8305	50074803	238992	0.641573825
12	<i>KITLG</i>	rs10858758	87468649	226534	0.641990028
6	<i>FLJ38717</i>	rs2894478	42861382	1559964	0.643270365
21	<i>CYYR1</i>	rs2830253	26777248	228665	0.643307596
19	<i>ZNF302</i>	rs2100609	39872607	218490	0.643458884
12	<i>KITLG</i>	rs2291557	87434438	226534	0.643997256

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
8	<i>RUNX1T1</i>	rs7827887	93095550	205528	0.646584354
1	<i>LEPR</i>	rs6661050	65845484	227095	0.647460697
1	<i>LEPR</i>	rs1171281	65762699	227095	0.647644613
15	<i>SEMA6D</i>	rs10519143	45842859	226492	0.647967398
12	<i>KITLG</i>	rs11104907	87417390	226534	0.648618013
3	<i>C3ORF50</i>	rs603638	170021687	1558411	0.650045211
13	<i>TNFRSF19</i>	rs12429321	23108575	227812	0.651685075
12	<i>KITLG</i>	rs1472898	87475764	226534	0.65173284
6	<i>CCDC90A</i>	rs9370483	13926710	220094	0.652068444
12	<i>KITLG</i>	rs1907699	87414108	226534	0.652347026
11	<i>CREBZF</i>	rs1192	85052641	225595	0.654241686
4	<i>KIT</i>	rs759083	55232238	205051	0.654501569
19	<i>ZNF302</i>	rs10401309	39867589	218490	0.655115486
1	<i>EFCAB7</i>	rs12124096	63759045	226800	0.65547637
14	<i>DAAM1</i>	rs12878070	58889427	226666	0.658239999
12	<i>KITLG</i>	rs1000788	87470908	226534	0.658444306
13	<i>TNFRSF19</i>	rs3794360	23060001	227812	0.659201658
13	<i>RBM26</i>	rs9545061	78782831	226316	0.65933372
1	<i>LEPR</i>	rs12038998	65821716	227095	0.660337213
12	<i>KITLG</i>	rs1061981	87411420	226534	0.660883716
6	<i>PHACTR2</i>	rs9496751	144075685	227947	0.661544729
4	<i>KIT</i>	rs2213180	55296084	205051	0.663844631
13	<i>RBM26</i>	rs1980883	78782765	226316	0.666119425
8	<i>RUNX1T1</i>	rs7830403	93078028	205528	0.666674632
4	<i>KIT</i>	rs3134884	55261023	205051	0.666974455
6	<i>PHACTR2</i>	rs7742964	144147096	227947	0.667003277
6	<i>FAM162B</i>	rs633420	117188839	228875	0.669187999
11	<i>SFRS2B</i>	rs1447388	94437811	228760	0.669786831
8	<i>RUNX1T1</i>	rs2976502	93049910	205528	0.669977035
6	<i>PHACTR2</i>	rs2328516	144157729	227947	0.670266976
4	<i>KIT</i>	rs2159935	55215774	205051	0.670403743
2	<i>PLEKHH2</i>	rs7602498	43844007	227148	0.670953687
14	<i>DAAM1</i>	rs1253010	58796192	226666	0.671131369
8	<i>RUNX1T1</i>	rs2083844	93083325	205528	0.67227569
2	<i>PLEKHH2</i>	rs4953002	43784680	227148	0.672357773
13	<i>RCBTB1</i>	rs12146924	49032359	218352	0.672545497
2	<i>PLEKHH2</i>	rs6741367	43724779	227148	0.67304863
3	<i>C3ORF50</i>	rs3732460	170013264	1558411	0.673052245
13	<i>RBM26</i>	rs1408656	78784655	226316	0.673274699
3	<i>C3ORF50</i>	rs2671260	170018257	1558411	0.673524833
17	<i>ZNF207</i>	rs8068787	27725992	228157	0.673735394
1	<i>ARHGAP29</i>	rs1411700	94407551	1558280	0.674528185
10	<i>PPP1R3C</i>	rs12261209	93379323	204284	0.674727885
12	<i>KITLG</i>	rs7969188	87448198	226534	0.675165072
7	<i>RP9</i>	rs9692506	33119281	227852	0.678585785
1	<i>ARHGAP29</i>	rs12044374	94408574	1558280	0.678876533
12	<i>KITLG</i>	rs906639	87415584	226534	0.682842862
2	<i>PLEKHH2</i>	rs1368087	43818341	227148	0.683942161
7	<i>RP9</i>	rs9690597	33119590	227852	0.684904575
13	<i>TNFRSF19</i>	rs17079176	23150985	227812	0.689735104
6	<i>PHACTR2</i>	rs9484785	144001451	227947	0.690789486
13	<i>TNFRSF19</i>	rs1928120	23065838	227812	0.691339214
12	<i>KITLG</i>	rs1492347	87450104	226534	0.691608819
2	<i>PLEKHH2</i>	rs11695642	43806199	227148	0.693163342
11	<i>SFRS2B</i>	rs663629	94444156	228760	0.693800693
13	<i>TNFRSF19</i>	rs9510795	23114012	227812	0.693813597

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
10	ZNF248	rs9417268	38173200	213269	0.693818075
12	KITLG	rs11104903	87407546	226534	0.694339072
7	RSBN1L	rs11970824	77245492	228963	0.694907427
13	TNFRSF19	rs17419586	23148712	227812	0.696294627
12	RECQL	rs10841832	21519603	213878	0.69644679
5	SLC12A2	rs4835941	127458804	225835	0.697806887
5	SLC12A2	rs10463838	127546204	225835	0.698296959
2	PLEKHH2	rs2374569	43738561	227148	0.699387705
13	RBM26	rs1410332	78787307	226316	0.700261397
6	QKI	rs6902608	163797747	212263	0.701228813
13	RBM26	rs1927506	78783486	226316	0.701976938
21	CYYR1	rs2830249	26772842	228665	0.703584007
13	TNFRSF19	rs4770467	23081145	227812	0.703594321
13	RBM26	rs3818563	78790723	226316	0.706102158
1	LEPR	rs3790431	65808616	227095	0.706598878
12	ZNF84	rs2230099	132143971	228630	0.706869728
13	TNFRSF19	rs9507136	23127353	227812	0.707455417
15	IREB2	rs17405883	76549446	225892	0.707593222
13	TNFRSF19	rs3751364	23132517	227812	0.709167338
19	C19ORF24	rs757292	1228275	230142	0.709883987
14	DAAM1	rs1253008	58798133	226666	0.710666654
13	TNFRSF19	rs8001054	23138331	227812	0.712238663
14	DAAM1	rs1253012	58792467	226666	0.712845935
8	RUNX1T1	rs6987763	93097694	205528	0.713434612
21	CYYR1	rs369515	26812202	228665	0.715781509
13	TNFRSF19	rs7400079	23118816	227812	0.71672031
2	PLEKHH2	rs12473033	43716392	227148	0.720136027
2	ORC2L	rs4381763	201485233	235423	0.720455186
4	SLIT2	rs11930632	20233074	228850	0.720952083
19	ZNF44	rs776291	12269593	215359	0.722670402
6	CCDC90A	rs3180196	13909594	220094	0.723586664
1	EFCAB7	rs10889427	63763306	226800	0.726174259
17	CROP	rs9911873	46163464	208835	0.726529846
1	LEPR	rs4655537	65831389	227095	0.727246054
12	AMIGO2	rs854892	45763954	222108	0.727464993
2	PLEKHH2	rs17031309	43782914	227148	0.729890276
12	KITLG	rs10506953	87424377	226534	0.730651583
14	DAAM1	rs10083442	58900633	226666	0.73286435
13	RCBTB1	rs4942848	49039346	218352	0.733142771
13	PHF11	rs9535255	49002387	218352	0.733454694
19	HIF3A	rs3810300	51492037	1555318	0.734209213
21	CYYR1	rs979343	26797463	228665	0.73499224
4	KIT	rs13119906	55214529	205051	0.735516493
12	KITLG	rs11104906	87415907	226534	0.736085751
4	KIT	rs4864920	55285378	205051	0.737266737
5	SLC12A2	rs10478798	127470293	225835	0.737718957
4	KIT	rs11946333	55248558	205051	0.741691895
15	SEMA6D	rs3743281	45844250	226492	0.741722718
8	RUNX1T1	rs2976506	93068050	205528	0.742928724
14	DAAM1	rs1536619	58883114	226666	0.74380088
19	ZNF30	rs1053213	40127616	232014	0.745837639
12	KITLG	rs995029	87414652	226534	0.752896597
6	QKI	rs11964059	163895813	212263	0.753380998
1	LEPR	rs3790419	65839697	227095	0.754195345
1	ARHGAP29	rs1048854	94416119	1558280	0.754201038
1	LEPR	rs3790428	65814666	227095	0.75468231

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
21	CYYR1	rs2830254	26781725	228665	0.754775522
5	SLC12A2	rs3805616	127548796	225835	0.755163213
13	TNFRSF19	rs9550987	23065505	227812	0.757060655
13	TNFRSF19	rs11616958	23071049	227812	0.757334143
1	ARHGAP29	rs6657063	94431982	1558280	0.757755165
12	KITLG	rs11104923	87445248	226534	0.758186093
10	PPP1R3C	rs4933680	93385216	204284	0.758930276
13	PHF11	rs3794378	49001218	218352	0.759729107
13	TNFRSF19	rs9507128	23115092	227812	0.764418999
6	PHACTR2	rs12661297	144129002	227947	0.764693774
6	PHACTR2	rs9373395	143981805	227947	0.765059009
6	PHACTR2	rs7740883	144064081	227947	0.766398666
11	CREBZF	rs471226	85055685	225595	0.766987542
2	PLEKHH2	rs989381	43770242	227148	0.768603795
19	ZNF44	rs2458997	12240079	215359	0.771257917
13	TNFRSF19	rs1928113	23078190	227812	0.771268468
21	CYYR1	rs222966	26851729	228665	0.772589956
21	CYYR1	rs2830237	26758024	228665	0.773743571
5	SLC12A2	rs3805604	127496699	225835	0.776033492
21	CYYR1	rs2830247	26770869	228665	0.776372169
13	TNFRSF19	rs9510777	23042278	227812	0.776713174
1	LEPR	rs8179183	65848540	227095	0.776922994
13	TNFRSF19	rs9550986	23064932	227812	0.777485248
5	SLC12A2	rs806100	127496076	225835	0.778903935
6	PHACTR2	rs9386043	144066351	227947	0.779334111
9	MAK10	rs10868362	87824482	220925	0.779678014
21	CYYR1	rs2830242	26767406	228665	0.779837854
1	ARHGAP29	rs3814019	94476984	1558280	0.779921409
1	LEPR	rs3790437	65858021	227095	0.780328934
12	ATP6V0A2	rs2333834	122811957	229572	0.783017189
13	RCBTB1	rs12430435	49040501	218352	0.783058815
4	SLIT2	rs17544415	20235752	228850	0.783722472
21	CYYR1	rs222934	26820863	228665	0.785184253
6	CCDC90A	rs3734672	13895557	220094	0.785930485
12	ATP6V0A2	rs7976110	122815771	229572	0.786588701
15	GOLGA8A	rs7727	32458730	213650	0.788947822
4	HPGD	rs2612656	175658864	211548	0.789449339
8	RUNX1T1	rs2920464	93056929	205528	0.789740353
6	PHACTR2	rs3734226	144192524	227947	0.79393325
8	RUNX1T1	rs2977677	93036748	205528	0.794158489
10	PPP1R3C	rs10881935	93387681	204284	0.794619881
12	KITLG	rs3907470	87482481	226534	0.795334341
4	KIT	rs3819389	55221677	205051	0.795735403
6	PHACTR2	rs761626	144167380	227947	0.798762043
4	KIT	rs17084644	55260202	205051	0.79889444
21	CYYR1	rs966410	26774595	228665	0.799292569
12	KITLG	rs11104911	87428895	226534	0.800308025
13	PHF11	rs9568239	49003056	218352	0.800757978
6	PHACTR2	rs4896668	144069846	227947	0.800874143
13	TNFRSF19	rs9507130	23117960	227812	0.802933975
6	PHACTR2	rs12524707	143995365	227947	0.806249856
9	MAK10	rs10868357	87787082	220925	0.807918689
13	RCBTB1	rs12429331	49040230	218352	0.810080973
19	HIF3A	rs3764609	51515542	1555318	0.810240941
1	ARHGAP29	rs1541098	94440558	1558280	0.812729374
21	CYYR1	rs219643	26762438	228665	0.81536619

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21	CYYR1	rs2830274	26831574	228665	0.817137794
12	KITLG	rs2407206	87467454	226534	0.817615117
11	CREBZF	rs3824956	85048130	225595	0.819104636
21	CYYR1	rs222970	26861474	228665	0.819709956
5	SLC12A2	rs3805603	127479480	225835	0.820699722
4	HPGD	rs2555629	175666863	211548	0.822378763
3	FOXP1	rs6808430	71710847	238712	0.823292425
1	LEPR	rs1137101	65831101	227095	0.824268841
21	CYYR1	rs150754	26767528	228665	0.825050886
19	ZNF44	rs2459040	12246749	215359	0.825615072
10	PPP1R3C	rs3781228	93380660	204284	0.827052803
7	RP9	rs10281493	33119787	227852	0.831895345
7	RP9	rs9692508	33119193	227852	0.831977956
4	KIT	rs2237023	55252741	205051	0.832377968
10	ZNF248	rs11011379	38161637	213269	0.833909847
21	CYYR1	rs219648	26767987	228665	0.834022545
15	SEMA6D	rs1045688	45852779	226492	0.834811498
10	INTERGENIC	rs2488087	94436021	215933	0.834850595
7	RSBN1L	rs6954671	77248250	228963	0.837278253
1	LEPR	rs1137100	65809029	227095	0.838420622
4	HPGD	rs3775977	175666383	211548	0.840188676
1	ARHGAP29	rs2274788	94447314	1558280	0.840455371
19	ZNF44	rs2438531	12245988	215359	0.842007275
13	PHF11	rs9526569	49000220	218352	0.842243917
14	DAAM1	rs1438521	58723553	226666	0.84351352
19	ZNF44	rs2943690	12239371	215359	0.844825434
21	CYYR1	rs952830	26834573	228665	0.849783337
19	ZNF44	rs386901	12266552	215359	0.850759806
1	LEPR	rs3790423	65837577	227095	0.85093875
21	CYYR1	rs951810	26804130	228665	0.853213126
6	PHACTR2	rs7741506	143993560	227947	0.854403065
21	CYYR1	rs222979	26866502	228665	0.855276519
4	KIT	rs2282779	55228340	205051	0.859398661
19	ZNF44	rs438963	12265576	215359	0.859483815
21	CYYR1	rs2830245	26769202	228665	0.859635062
2	PLEKHH2	rs17031368	43826603	227148	0.859797888
9	PTCH1	rs2066836	97278179	209815	0.860353629
1	LEPR	rs10889567	65829638	227095	0.861291537
13	TNFRSF19	rs2149499	23059499	227812	0.863251033
6	QKI	rs9347755	163852573	212263	0.863565275
14	DAAM1	rs9323341	58746921	226666	0.863920583
13	TNFRSF19	rs9550985	23055969	227812	0.864717051
13	RCBTB1	rs11148151	49042614	218352	0.864725208
4	KIT	rs2855772	55243232	205051	0.867203731
6	HMGN3	rs9361502	79987750	209377	0.867332071
4	KIT	rs2213181	55299629	205051	0.867575203
19	ZNF44	rs2438589	12256022	215359	0.868022959
13	RCBTB1	rs7995684	49004956	218352	0.870275225
6	PHACTR2	rs9376784	144089773	227947	0.871372706
1	ARHGAP29	rs1929132	94464727	1558280	0.873354456
9	MAK10	rs13296057	87757580	220925	0.878034138
2	PLEKHH2	rs12466404	43714152	227148	0.878474841
21	CYYR1	rs190100	26756022	228665	0.878629249
9	MAK10	rs4242636	87783798	220925	0.878867035
6	QKI	rs6926584	163895448	212263	0.883752202
8	WHSC1L1	rs13264830	38260330	225318	0.884180685

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
21	CYYR1	rs2830256	26788785	228665	0.885834789
1	LEPR	rs6673324	65803651	227095	0.886258934
9	MAK10	rs11141165	87774834	220925	0.888497924
21	CYYR1	rs2830246	26769774	228665	0.889349683
6	PHACTR2	rs9403533	144168862	227947	0.889779675
1	LEPR	rs4655539	65832251	227095	0.891616365
13	TNFRSF19	rs7337765	23041913	227812	0.892902909
9	MAK10	rs4877955	87795025	220925	0.893256883
19	ZNF44	rs1399699	12234005	215359	0.893851627
1	LEPR	rs1185692	65773247	227095	0.894183436
4	KIT	rs2237028	55231132	205051	0.894399853
2	PLEKHH2	rs17414390	43829767	227148	0.89444245
1	LEPR	rs3828037	65826385	227095	0.895355675
13	TNFRSF19	rs3794359	23061217	227812	0.898670998
6	PHACTR2	rs6931825	144121481	227947	0.900407295
4	KIT	rs1008658	55294193	205051	0.902505477
6	CCDC90A	rs4715568	13902089	220094	0.906571675
13	TNFRSF19	rs7999155	23053915	227812	0.909822545
6	PHACTR2	rs2328521	144184351	227947	0.910333888
10	ZNF248	rs1148292	38184264	213269	0.910533529
4	KIT	rs3822213	55219490	205051	0.910759867
2	PLEKHH2	rs2278358	43821671	227148	0.911236518
12	KITLG	rs10506954	87448883	226534	0.9119477
14	DAAM1	rs11623633	58881418	226666	0.914374695
11	SFRS2B	rs1056986	94441966	228760	0.914922357
1	EIF2C4	rs12089251	36051643	227930	0.915253353
3	TIGIT	rs4682535	115520372	213156	0.915705639
1	SYDE2	rs12036276	85395874	239847	0.919023786
2	PLEKHH2	rs2888881	43792583	227148	0.919336877
14	DAAM1	rs941886	58884255	226666	0.920849414
1	LEPR	rs3762273	65836881	227095	0.921765696
1	LEPR	rs1782763	65780488	227095	0.923339489
4	HPGD	rs3797013	175670969	211548	0.923549546
6	PHACTR2	rs9386049	144171782	227947	0.924576355
14	DAAM1	rs9323342	58750702	226666	0.925801938
1	LEPR	rs10889569	65858782	227095	0.926042636
6	HMGN3	rs4706085	79991150	209377	0.926814919
17	CROP	rs12150475	46173900	208835	0.927300399
13	PHF11	rs3829366	49001412	218352	0.928334805
9	PTCH1	rs473902	97296056	209815	0.92894494
4	HPGD	rs7434504	175673692	211548	0.930333104
11	CREBZF	rs1214001	85057159	225595	0.93089657
6	QKI	rs2784865	163753525	212263	0.93222585
14	DAAM1	rs2146010	58866540	226666	0.932303218
4	KIT	rs13135792	55247087	205051	0.93616815
5	SLC12A2	rs2617615	127492000	225835	0.937141836
2	PLEKHH2	rs12623703	43780963	227148	0.937354523
11	CREBZF	rs7116195	85051316	225595	0.939172724
3	C3ORF50	rs678690	170029608	1558411	0.939267999
19	ZNF44	rs2438527	12249152	215359	0.940141755
6	PHACTR2	rs4624889	144145113	227947	0.941354263
11	SFRS2B	rs620767	94446909	228760	0.943743974
9	MAK10	rs17353249	87786303	220925	0.944012585
6	PHACTR2	rs7752960	144171325	227947	0.944326296
1	LEPR	rs7542446	65863694	227095	0.946960847
1	LEPR	rs1938484	65853870	227095	0.948577486

<i>Chr.</i>	<i>HUGO</i>	<i>SNP</i>	<i>Location</i>	<i>Probe ID from gene expression dataset</i>	<i>P value</i>
1	<i>LEPR</i>	rs4655723	65853372	227095	0.94908323
1	<i>LEPR</i>	rs3762274	65836701	227095	0.949600261
2	<i>PLEKHH2</i>	rs17031284	43773438	227148	0.949643213
6	<i>PHACTR2</i>	rs2024693	144060649	227947	0.950064431
21	<i>CYYR1</i>	rs2830278	26846623	228665	0.951297682
19	<i>ZNF30</i>	rs2546001	40112681	232014	0.952943549
4	<i>HPGD</i>	rs2612694	175650821	211548	0.953605947
6	<i>QKI</i>	rs2759388	163758784	212263	0.95529039
1	<i>EFCAB7</i>	rs7413854	63761072	226800	0.956154748
6	<i>PHACTR2</i>	rs7772898	144034956	227947	0.957464664
6	<i>HMGN3</i>	rs9294133	79999648	209377	0.957693209
21	<i>CYYR1</i>	rs222947	26833323	228665	0.95855747
19	<i>HIF3A</i>	rs8102595	51489670	1555318	0.958577155
13	<i>TNFRSF19</i>	rs765606	23061339	227812	0.95892409
4	<i>KIT</i>	rs6820303	55236165	205051	0.959181446
6	<i>PHACTR2</i>	rs9496715	143992519	227947	0.959677865
4	<i>KIT</i>	rs12646437	55278858	205051	0.959812556
4	<i>HPGD</i>	rs1863641	175670295	211548	0.962166582
1	<i>LEPR</i>	rs6678033	65850212	227095	0.96527596
3	<i>FOXP1</i>	rs830599	71708952	238712	0.965276119
6	<i>PHACTR2</i>	rs7760178	144042549	227947	0.96600483
19	<i>ZNF44</i>	rs403386	12269459	215359	0.967101371
2	<i>PLEKHH2</i>	rs919694	43805426	227148	0.967167639
1	<i>ARHGAP29</i>	rs11577575	94419102	1558280	0.967996856
2	<i>PLEKHH2</i>	rs7571775	43728793	227148	0.970009777
17	<i>CROP</i>	rs11867565	46182105	208835	0.970930128
14	<i>DAAM1</i>	rs941884	58866988	226666	0.973323833
6	<i>FAM162B</i>	rs648248	117187750	228875	0.974135377
1	<i>EFCAB7</i>	rs217452	63775444	226800	0.974496877
6	<i>CCDC90A</i>	rs6926691	13900579	220094	0.980010813
21	<i>CYYR1</i>	rs222941	26826336	228665	0.980032841
3	<i>C3ORF50</i>	rs555998	170032812	1558411	0.982046332
13	<i>TNFRSF19</i>	rs3829942	23050519	227812	0.98240688
12	<i>ZNF84</i>	rs937538	132120315	228630	0.982722787
10	<i>PPP1R3C</i>	rs4382814	93377831	204284	0.983421482
13	<i>TNFRSF19</i>	rs928040	23086233	227812	0.983734203
14	<i>DAAM1</i>	rs8017833	58788168	226666	0.986545891
19	<i>HIF3A</i>	rs7252284	51496547	1555318	0.987938215
19	<i>ZNF302</i>	rs10410491	39865292	218490	0.988689852
6	<i>PHACTR2</i>	rs13214196	144058798	227947	0.990113254
19	<i>CIRBP</i>	rs3170431	1223040	230142	0.990980334
6	<i>PHACTR2</i>	rs9390140	144168719	227947	0.991317619
6	<i>PHACTR2</i>	rs9376791	144170379	227947	0.99337886
6	<i>CCDC90A</i>	rs16874329	13895819	220094	0.994833766
13	<i>TNFRSF19</i>	rs1324969	23124318	227812	0.996299663
19	<i>CIRBP</i>	rs4807050	1222529	230142	0.996307892
6	<i>CCDC90A</i>	rs1053033	13895063	220094	0.997040689
13	<i>RCBTB1</i>	rs7981396	49049927	218352	0.997913493
13	<i>RBM26</i>	rs1155848	78786477	226316	0.998148055
8	<i>RUNX1T1</i>	rs2979853	93046119	205528	0.998609898
6	<i>CCDC90A</i>	rs6922822	13902023	220094	0.999047896