

**Ecto-5'-Nucleotidase (NT5E) and Thiopurine Cellular Circulation:
Association with Cytotoxicity**

Fang Li, Brooke L. Fridley, Alice Matimba, Krishna R. Kalari, Linda Pelleymounter, Irene Moon, Yuan Ji, Gregory D. Jenkins, Anthony Batzler, Liewei Wang, Richard M. Weinshilboum
Drug Metabolism and Disposition

Supplemental Table 1. *NT5E* resequencing primers.

Gene Region	Forward Primer	Reverse Primer
5'UTR	tgtaaacgacggccagtGACAAAGGGAATGTGTGAGGA	TAATGTCATGCTTTGCAAGGTT
5'UTR	ATAAGGCAATATGGGTGATGG	GGCAGAGAGGAGGAGTAAAGA
5'UTR	GATTTTACCCAATCGTGTTTC	GTGAACTGGGTGCGAAAGC
Exon 1	CGGGAACAACCTCTCCACTCT	CTTCTACGCACCCACCTTA
Exon 2	CAGGTGAGGAGGACACAAAATC	GTTCACTGAGCAGAAGAGGACA
Exon 3	AAACAATATCTGAAGCCTCCTCAC	TGCACATGTTCCCATTTAATGTAT
Exon 4	GGATACTCTTCACGGCGTTC	AAGAAGCAAGTGGGGCTTTT
Exon 5	CCACTAATGCTGTCCAGGT	CAAGCCATCTTCCACCTAA
Exon 6	AGGAGGGGGAAATAAGAGTTTG	GTGTGTCCTTCAGGCTAGGTTT
Exon 7	TTCCTTCCTCAGTGTGTCAGG	CACAGCCATTAAGGGTAAGGT
Exon 8	CCAGTGTTTCTCATATGTCCTGTA	GTTTTGTCTCTGGGGTTGGA
Exon 9	ACACATTTTACATCTGGAGCATGA	ACTAGGTTGCTGACCCTGAGTAAT

Supplemental Table 2. SNP correlations with *NT5E* expression. **(A)** SNPs from the *NT5E* resequencing analysis; **(B)** Hapmap SNPs; **(C)** Imputed SNPs. The correlations are based on 287 cell lines, for SNPs in and near the *NT5E* gene. The SNPs have been correlated with *NT5E* expression determined with Affymetrix probeset 203939_at. MAF=minor allele frequencies for combined populations (AA, EA and HCA).

(A) SNPs from the *NT5E* resequencing analysis

SNP	Chr position	NT5E probe	Correlation	P-value	MAF
rs9450278	86215061	203939_at	-0.3760	2.350 x 10 ⁻¹⁰	0.186
rs9450279	86215943	203939_at	-0.3515	4.290 x 10 ⁻⁹	0.191
rs4599602	86215137	203939_at	-0.3521	4.290 x 10 ⁻⁹	0.188
rs4458647	86215224	203939_at	-0.3517	4.830 x 10 ⁻⁹	0.189
rs3812139	86253709	203939_at	-0.3092	2.410 x 10 ⁻⁷	0.179
rs4463232	86214879	203939_at	-0.3089	2.740 x 10 ⁻⁷	0.16
rs2229524	86255962	203939_at	-0.3073	3.190 x 10 ⁻⁷	0.172
rs2295890	86216181	203939_at	-0.2831	3.09 x 10 ⁻⁶	0.179
rs9450282	86252017	203939_at	0.1949	1.403 x 10 ⁻³	0.451
I1p103	86217018	203939_at	-0.1400	2.263 x 10 ⁻²	0.011
m637	86215940	203939_at	-0.1241	4.357 x 10 ⁻²	0.009
I6m371	86256574	203939_at	0.1234	4.595 x 10 ⁻²	0.027
m85	86216492	203939_at	0.1170	5.818 x 10 ⁻²	0.002
I2p53	86233772	203939_at	0.1154	5.921 x 10 ⁻²	0.012
rs35478984	86251817	203939_at	0.1083	7.664 x 10 ⁻²	0.024
I7m81	86258333	203939_at	0.1011	9.917 x 10 ⁻²	0.002
m93	86216484	203939_at	0.0983	1.119 x 10 ⁻¹	0.002
I5p160	86254086	203939_at	-0.0907	1.393 x 10 ⁻¹	0.005
I8m101	86260177	203939_at	0.0900	1.416 x 10 ⁻¹	0.009
rs2229523	86255952	203939_at	0.0872	1.562 x 10 ⁻¹	0.239
rs41271619	86256868	203939_at	0.0813	1.854 x 10 ⁻¹	0.012
rs2065114	86215862	203939_at	0.0813	1.878 x 10 ⁻¹	0.239
rs60666442	86255885	203939_at	0.0799	1.933 x 10 ⁻¹	0.157
I7p11	86257105	203939_at	-0.0751	2.211 x 10 ⁻¹	0.002
I7p12	86257106	203939_at	-0.0751	2.211 x 10 ⁻¹	0.002
I4m350	86253422	203939_at	-0.0748	2.242 x 10 ⁻¹	0.002
rs9450284	86256048	203939_at	-0.0733	2.336 x 10 ⁻¹	0.481
rs35694460	86233685	203939_at	-0.0717	2.421 x 10 ⁻¹	0.023
m1364	86215213	203939_at	-0.0698	2.576 x 10 ⁻¹	0.002
I2m194	86237480	203939_at	0.0689	2.621 x 10 ⁻¹	0.005
E2p342	86233499	203939_at	0.0660	2.818 x 10 ⁻¹	0.019
m930	86215647	203939_at	0.0660	2.841 x 10 ⁻¹	0.002
E6p1207	86256033	203939_at	0.0654	2.877 x 10 ⁻¹	0.002
m824	86215753	203939_at	0.0631	3.062 x 10 ⁻¹	0.002
E2p555	86233712	203939_at	-0.0616	3.152 x 10 ⁻¹	0.002
rs34160251	86260304	203939_at	-0.0592	3.342 x 10 ⁻¹	0.003

m1855	86214722	203939_at	0.0588	3.395 x 10 ⁻¹	0.002
E1p141	86216717	203939_at	0.0531	3.895 x 10 ⁻¹	0.002
rs10565593	86215149	203939_at	0.0529	3.938 x 10 ⁻¹	0.358
E7p1221	86256955	203939_at	0.0513	4.038 x 10 ⁻¹	0.002
rs10944129	86237645	203939_at	0.0495	4.201 x 10 ⁻¹	0.378
m417	86216160	203939_at	0.0473	4.422 x 10 ⁻¹	0.007
I1p13	86216928	203939_at	0.0474	4.422 x 10 ⁻¹	0.007
rs58285927	86260060	203939_at	-0.0471	4.500 x 10 ⁻¹	0.031
rs10944128	86237451	203939_at	0.0423	4.907 x 10 ⁻¹	0.375
I1m26	86233471	203939_at	0.0399	5.154 x 10 ⁻¹	0.002
m1271	86215306	203939_at	-0.0387	5.307 x 10 ⁻¹	0.004
I3m225	86251447	203939_at	0.0289	6.412 x 10 ⁻¹	0.014
E1p184	86216760	203939_at	-0.0271	6.611 x 10 ⁻¹	0.002
m1407	86215170	203939_at	-0.0235	7.036 x 10 ⁻¹	0.011
I5p87	86254013	203939_at	0.0217	7.240 x 10 ⁻¹	0.002
m220	86216357	203939_at	0.0191	7.579 x 10 ⁻¹	0.002
I3m109	86251563	203939_at	-0.0175	7.757 x 10 ⁻¹	0.002
E1p167	86216743	203939_at	0.0164	7.899 x 10 ⁻¹	0.002
I5m117	86255814	203939_at	-0.0137	8.249 x 10 ⁻¹	0.005
m1570	86215007	203939_at	0.0134	8.274 x 10 ⁻¹	0.002
I6p33	86256069	203939_at	-0.0130	8.327 x 10 ⁻¹	0.002
I4m209	86253563	203939_at	-0.0129	8.330 x 10 ⁻¹	0.002
I2p37	86233756	203939_at	0.0100	8.703 x 10 ⁻¹	0.002
rs6919558	86216095	203939_at	0.0091	8.824 x 10 ⁻¹	0.016
m77	86216500	203939_at	0.0081	8.956 x 10 ⁻¹	0.002
I6m79	86256866	203939_at	0.0056	9.270 x 10 ⁻¹	0.096
m1551	86215026	203939_at	0.0055	9.283 x 10 ⁻¹	0.004
I1m14	86233483	203939_at	0.0038	9.505 x 10 ⁻¹	0.003
I4p70	86251939	203939_at	-0.0038	9.510 x 10 ⁻¹	0.002
m1368	86215209	203939_at	0.0026	9.669 x 10 ⁻¹	0.002
E4p840	86251760	203939_at	0.0003	9.962 x 10 ⁻¹	0.002
m79	86216498	203939_at	0.0001	9.985 x 10 ⁻¹	0.004

(B) Hapmap SNPs.

dbSNP ID	Chr position	NT5E probe	Correlation	P-value	MAF
rs12055597	86194552	203939_at	-0.3047	3.640 x 10 ⁻⁷	0.199
rs9353319	86289262	203939_at	-0.3005	5.370 x 10 ⁻⁷	0.134
rs7745560	86345640	203939_at	-0.3005	5.370 x 10 ⁻⁷	0.134
rs9450286	86265244	203939_at	-0.2968	7.470 x 10 ⁻⁷	0.143
rs3812137	86273344	203939_at	-0.2847	2.170 x 10 ⁻⁶	0.134
rs1570311	86211870	203939_at	-0.2839	2.320 x 10 ⁻⁶	0.167
rs4487548	86199130	203939_at	-0.2839	2.320 x 10 ⁻⁶	0.167
rs9344525	86208157	203939_at	-0.2839	2.320 x 10 ⁻⁶	0.167
rs6913634	86260682	203939_at	-0.2841	2.390 x 10 ⁻⁶	0.128
rs6910543	86285460	203939_at	-0.2767	4.260 x 10 ⁻⁶	0.125
rs7771366	86348630	203939_at	-0.2690	8.010 x 10 ⁻⁶	0.134
rs9450294	86307149	203939_at	-0.2690	8.010 x 10 ⁻⁶	0.134
rs4400191	86222521	203939_at	-0.2670	9.370 x 10 ⁻⁶	0.152
rs7753022	86233344	203939_at	-0.2604	1.570 x 10 ⁻⁵	0.171
rs4373339	86230763	203939_at	-0.2477	4.140 x 10 ⁻⁵	0.155
rs9359655	86228662	203939_at	-0.2335	1.141 x 10 ⁻⁴	0.167
rs9362215	86193152	203939_at	-0.2193	3.059 x 10 ⁻⁴	0.075
rs6942065	86224984	203939_at	-0.2080	6.118 x 10 ⁻⁴	0.157
rs7775864	86304478	203939_at	0.2015	9.307 x 10 ⁻⁴	0.481
rs7771612	86321093	203939_at	0.2018	9.322 x 10 ⁻⁴	0.481
rs6909767	86284828	203939_at	0.1989	1.160 x 10 ⁻³	0.484
rs9344533	86292907	203939_at	0.1827	2.677 x 10 ⁻³	0.481
rs727870	86187875	203939_at	-0.1809	2.962 x 10 ⁻³	0.2
rs632163	86178781	203939_at	-0.1747	4.334 x 10 ⁻³	0.167
rs7742691	86335410	203939_at	0.1713	5.425 x 10 ⁻³	0.45
rs494562	86173848	203939_at	-0.1604	8.539 x 10 ⁻³	0.171
rs640093	86172585	203939_at	-0.1604	8.903 x 10 ⁻³	0.174
rs4441928	86298613	203939_at	0.1561	1.050 x 10 ⁻²	0.324
rs9294335	86183399	203939_at	-0.1537	1.173 x 10 ⁻²	0.169
rs7753711	86187418	203939_at	-0.1429	1.923 x 10 ⁻²	0.164
rs7765636	86193380	203939_at	0.1346	2.753 x 10 ⁻²	0.258
rs987892	86106589	203939_at	-0.1302	3.309 x 10 ⁻²	0.429
rs4593336	86238650	203939_at	0.1227	4.482 x 10 ⁻²	0.479
rs9362203	86139457	203939_at	-0.1226	4.489 x 10 ⁻²	0.183
rs313240	86116176	203939_at	0.1230	4.626 x 10 ⁻²	0.076
rs4707190	86105759	203939_at	-0.1146	6.105 x 10 ⁻²	0.418

rs313243	86113502	203939_at	0.1142	6.189×10^{-2}	0.077
rs6931295	86201594	203939_at	0.1135	6.722×10^{-2}	0.238
rs4707207	86242062	203939_at	0.1062	8.260×10^{-2}	0.235
rs11753050	86161175	203939_at	0.1010	1.014×10^{-1}	0.2
rs2842608	86352577	203939_at	0.0988	1.067×10^{-1}	0.265
rs494688	86156808	203939_at	-0.0986	1.071×10^{-1}	0.129
rs3812138	86255952	203939_at	0.0964	1.154×10^{-1}	0.239
rs6454463	86135253	203939_at	-0.0961	1.173×10^{-1}	0.351
rs2842613	86362421	203939_at	0.0945	1.237×10^{-1}	0.253
rs2842609	86353507	203939_at	0.0957	1.258×10^{-1}	0.243
rs2758840	86361344	203939_at	0.0907	1.387×10^{-1}	0.249
rs2842612	86359810	203939_at	0.0907	1.387×10^{-1}	0.249
rs7452605	86297670	203939_at	0.0907	1.387×10^{-1}	0.249
rs9344532	86290789	203939_at	0.0907	1.387×10^{-1}	0.249
rs9362230	86361732	203939_at	0.0907	1.387×10^{-1}	0.249
rs4351223	86294516	203939_at	0.0907	1.394×10^{-1}	0.248
rs9450269	86171403	203939_at	-0.0887	1.485×10^{-1}	0.131
rs6922	86262042	203939_at	0.0820	1.809×10^{-1}	0.251
rs9450270	86171485	203939_at	-0.0811	1.913×10^{-1}	0.186
rs12201128	86120126	203939_at	-0.0797	1.935×10^{-1}	0.341
rs653241	86173251	203939_at	0.0783	2.015×10^{-1}	0.172
rs9362197	86128476	203939_at	-0.0769	2.098×10^{-1}	0.228
rs313242	86114087	203939_at	0.0708	2.489×10^{-1}	0.175
rs9444340	86156532	203939_at	0.0688	2.617×10^{-1}	0.364
rs1407447	86103634	203939_at	0.0687	2.624×10^{-1}	0.368
rs184332	86170494	203939_at	-0.0662	2.804×10^{-1}	0.389
rs9362210	86175447	203939_at	0.0635	3.007×10^{-1}	0.221
rs10498955	86150906	203939_at	0.0618	3.175×10^{-1}	0.168
rs4626396	86325758	203939_at	-0.0617	3.191×10^{-1}	0.089
rs12527778	86311241	203939_at	-0.0609	3.206×10^{-1}	0.089
rs3900740	86357570	203939_at	0.0598	3.302×10^{-1}	0.156
rs512365	86103257	203939_at	0.0562	3.594×10^{-1}	0.204
rs505923	86124266	203939_at	0.0548	3.714×10^{-1}	0.455
rs313156	86100864	203939_at	0.0550	3.732×10^{-1}	0.201
rs12190637	86354438	203939_at	0.0536	3.818×10^{-1}	0.084
rs16876172	86162811	203939_at	0.0535	3.827×10^{-1}	0.169
rs970568	86113446	203939_at	-0.0530	3.946×10^{-1}	0.203
rs16876113	86155942	203939_at	-0.0490	4.247×10^{-1}	0.218

rs313245	86111916	203939_at	0.0493	4.337 x 10 ⁻¹	0.185
rs487669	86102899	203939_at	0.0467	4.467 x 10 ⁻¹	0.183
rs4296866	86336456	203939_at	0.0451	4.623 x 10 ⁻¹	0.329
rs16876340	86281779	203939_at	0.0430	4.835 x 10 ⁻¹	0.157
rs7740830	86319446	203939_at	0.0430	4.835 x 10 ⁻¹	0.157
rs545969	86149598	203939_at	-0.0419	4.948 x 10 ⁻¹	0.192
rs2842611	86358753	203939_at	0.0396	5.191 x 10 ⁻¹	0.395
rs4707202	86148443	203939_at	-0.0394	5.204 x 10 ⁻¹	0.22
rs17440806	86291554	203939_at	0.0376	5.408 x 10 ⁻¹	0.122
rs7740378	86118498	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs1322410	86117899	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs950030	86115806	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs2208727	86117045	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs1407446	86111438	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs17217313	86117611	203939_at	-0.0367	5.501 x 10 ⁻¹	0.204
rs969918	86108152	203939_at	-0.0339	5.808 x 10 ⁻¹	0.203
rs586364	86130426	203939_at	0.0320	6.021 x 10 ⁻¹	0.327
rs9444331	86129281	203939_at	0.0320	6.025 x 10 ⁻¹	0.161
rs17217341	86117674	203939_at	-0.0318	6.045 x 10 ⁻¹	0.206
rs9450288	86278305	203939_at	0.0292	6.347 x 10 ⁻¹	0.376
rs16876230	86189082	203939_at	0.0280	6.479 x 10 ⁻¹	0.166
rs4431401	86246239	203939_at	0.0255	6.780 x 10 ⁻¹	0.366
rs7775853	86157635	203939_at	-0.0205	7.387 x 10 ⁻¹	0.416
rs615848	86158613	203939_at	-0.0197	7.489 x 10 ⁻¹	0.414
rs9450247	86116621	203939_at	0.0196	7.513 x 10 ⁻¹	0.133
rs9444352	86314254	203939_at	0.0190	7.565 x 10 ⁻¹	0.359
rs6929086	86127703	203939_at	0.0187	7.612 x 10 ⁻¹	0.132
rs597623	86156828	203939_at	-0.0168	7.842 x 10 ⁻¹	0.371
rs9450285	86264815	203939_at	0.0154	8.017 x 10 ⁻¹	0.362
rs6454472	86280772	203939_at	-0.0153	8.033 x 10 ⁻¹	0.402
rs6911143	86278490	203939_at	0.0147	8.111 x 10 ⁻¹	0.442
rs577388	86157551	203939_at	-0.0143	8.158 x 10 ⁻¹	0.369
rs3734442	86217988	203939_at	-0.0134	8.278 x 10 ⁻¹	0.185
rs514998	86143241	203939_at	0.0050	9.353 x 10 ⁻¹	0.326
rs2224595	86117342	203939_at	0.0028	9.639 x 10 ⁻¹	0.359
rs9450273	86194607	203939_at	0.0028	9.642 x 10 ⁻¹	0.366
rs9450248	86116890	203939_at	0.0021	9.724 x 10 ⁻¹	0.353
rs7745109	86118763	203939_at	0.0015	9.808 x 10 ⁻¹	0.355

rs7766485	86320274	203939_at	-0.0011	9.864 x 10 ⁻¹	0.368
rs4331953	86188080	203939_at	0.0005	9.937 x 10 ⁻¹	0.057

(C) Imputed SNPs.

dbSNP ID	Chr position	NT5E probe	Correlation	P-value	MAF
rs7772233	86202743	203939_at	0.3389	1.260 x 10 ⁻⁸	0.187
rs10081139	86255962	203939_at	0.3104	2.140 x 10 ⁻⁷	0.176
rs1590279	86195292	203939_at	0.2985	6.410 x 10 ⁻⁷	0.156
rs9344524	86206370	203939_at	0.2979	6.770 x 10 ⁻⁷	0.157
rs12528808	86262363	203939_at	0.2971	7.320 x 10 ⁻⁷	0.138
rs9344530	86248976	203939_at	0.2907	1.280 x 10 ⁻⁶	0.134
rs9344521	86193182	203939_at	0.2906	1.300 x 10 ⁻⁶	0.165
rs9362213	86193126	203939_at	0.2906	1.300 x 10 ⁻⁶	0.165
rs7754559	86191050	203939_at	0.2902	1.350 x 10 ⁻⁶	0.165
rs1322401	86190106	203939_at	0.2898	1.390 x 10 ⁻⁶	0.165
rs1000633	86189472	203939_at	0.2897	1.400 x 10 ⁻⁶	0.165
rs9362211	86189258	203939_at	0.2894	1.450 x 10 ⁻⁶	0.17
rs6902904	86259422	203939_at	0.2892	1.470 x 10 ⁻⁶	0.129
rs7744309	86323201	203939_at	0.2882	1.600 x 10 ⁻⁶	0.133
rs9344528	86219946	203939_at	0.2865	1.850 x 10 ⁻⁶	0.177
rs6900270	86271226	203939_at	0.2852	2.070 x 10 ⁻⁶	0.167
rs12662033	86198397	203939_at	0.2840	2.300 x 10 ⁻⁶	0.167
rs9362223	86249339	203939_at	0.2839	2.320 x 10 ⁻⁶	0.143
rs9362218	86206482	203939_at	0.2839	2.320 x 10 ⁻⁶	0.167
rs9353315	86206657	203939_at	0.2797	3.300 x 10 ⁻⁶	0.159
rs6930790	86276278	203939_at	0.2774	4.020 x 10 ⁻⁶	0.133
rs4144167	86229171	203939_at	0.2655	1.060 x 10 ⁻⁵	0.18
rs12664908	86235381	203939_at	0.2581	1.890 x 10 ⁻⁵	0.144
rs9359656	86236554	203939_at	0.2578	1.930 x 10 ⁻⁵	0.144
rs12524836	86232675	203939_at	0.2530	2.770 x 10 ⁻⁵	0.154
rs4565270	86231169	203939_at	0.2529	2.810 x 10 ⁻⁵	0.155
rs9450280	86226356	203939_at	0.2387	7.920 x 10 ⁻⁵	0.146
rs521005	86173261	203939_at	0.2082	6.029 x 10 ⁻⁴	0.143
rs9353310	86182918	203939_at	0.2072	6.424 x 10 ⁻⁴	0.143
rs6919207	86185990	203939_at	0.2061	6.874 x 10 ⁻⁴	0.142
rs9444346	86222350	203939_at	0.1948	1.352 x 10 ⁻³	0.34

rs9353309	86182864	203939_at	0.1781	3.442 x 10 ⁻³	0.188
rs6935918	86340294	203939_at	0.1752	4.012 x 10 ⁻³	0.544
rs520090	86173354	203939_at	0.1613	8.165 x 10 ⁻³	0.17
rs490079	86174318	203939_at	0.1604	8.539 x 10 ⁻³	0.171
rs573892	86174908	203939_at	0.1604	8.539 x 10 ⁻³	0.171
rs573737	86174952	203939_at	0.1603	8.562 x 10 ⁻³	0.171
rs567686	86180883	203939_at	0.1602	8.585 x 10 ⁻³	0.171
rs7767626	86181113	203939_at	0.1601	8.632 x 10 ⁻³	0.171
rs7767800	86181245	203939_at	0.1601	8.656 x 10 ⁻³	0.171
rs522129	86173100	203939_at	0.1597	8.831 x 10 ⁻³	0.171
rs522915	86173040	203939_at	0.1596	8.860 x 10 ⁻³	0.171
rs550499	86172321	203939_at	0.1562	1.043 x 10 ⁻²	0.172
rs527670	86172498	203939_at	0.1560	1.053 x 10 ⁻²	0.172
rs638745	86172306	203939_at	0.1560	1.056 x 10 ⁻²	0.172
rs637346	86172001	203939_at	0.1542	1.147 x 10 ⁻²	0.182
rs554113	86171963	203939_at	0.1538	1.169 x 10 ⁻²	0.182
rs9344518	86181863	203939_at	0.1537	1.173 x 10 ⁻²	0.169
rs1322404	86183631	203939_at	0.1535	1.189 x 10 ⁻²	0.169
rs1744122	86171937	203939_at	0.1533	1.198 x 10 ⁻²	0.182
rs1322403	86183881	203939_at	0.1532	1.206 x 10 ⁻²	0.169
rs7750970	86185289	203939_at	0.1450	1.755 x 10 ⁻²	0.164
rs4624841	86186970	203939_at	0.1442	1.815 x 10 ⁻²	0.164
rs4373337	86236125	203939_at	-0.1369	2.505 x 10 ⁻²	0.467
rs9450302	86346392	203939_at	0.1287	3.528 x 10 ⁻²	0.406
rs6914591	86148522	203939_at	0.1239	4.269 x 10 ⁻²	0.212
rs17805597	86112439	203939_at	-0.1194	5.095 x 10 ⁻²	0.065
rs683218	86175303	203939_at	0.1147	6.070 x 10 ⁻²	0.16
rs6454468	86207103	203939_at	-0.1113	6.893 x 10 ⁻²	0.24
rs12197281	86152956	203939_at	0.1052	8.557 x 10 ⁻²	0.794
rs4235826	86241609	203939_at	-0.0983	1.083 x 10 ⁻¹	0.236
rs9444349	86268745	203939_at	-0.0968	1.141 x 10 ⁻¹	0.239
rs12199873	86351666	203939_at	0.0922	1.322 x 10 ⁻¹	0.751
rs9294337	86305179	203939_at	0.0920	1.331 x 10 ⁻¹	0.751
rs9353318	86288440	203939_at	0.0896	1.436 x 10 ⁻¹	0.253
rs9450271	86171556	203939_at	0.0862	1.592 x 10 ⁻¹	0.193
rs2104184	86135084	203939_at	0.0855	1.630 x 10 ⁻¹	0.356
rs4304137	86274167	203939_at	0.0820	1.807 x 10 ⁻¹	0.746
rs6454471	86271175	203939_at	-0.0811	1.858 x 10 ⁻¹	0.253
rs313202	86169457	203939_at	0.0786	1.997 x 10 ⁻¹	0.198

rs4706236	86130569	203939_at	0.0753	2.191 x 10 ⁻¹	0.634
rs9359652	86110761	203939_at	-0.0749	2.218 x 10 ⁻¹	0.345
rs490055	86127723	203939_at	-0.0665	2.780 x 10 ⁻¹	0.446
rs4707197	86130815	203939_at	0.0632	3.026 x 10 ⁻¹	0.219
rs172687	86169210	203939_at	0.0624	3.088 x 10 ⁻¹	0.208
rs540822	86142707	203939_at	0.0557	3.634 x 10 ⁻¹	0.194
rs13198956	86272616	203939_at	-0.0501	4.143 x 10 ⁻¹	0.159
rs16876341	86282390	203939_at	0.0498	4.167 x 10 ⁻¹	0.086
rs12524265	86153992	203939_at	0.0490	4.247 x 10 ⁻¹	0.218
rs1020423	86150775	203939_at	0.0487	4.274 x 10 ⁻¹	0.218
rs4707213	86318105	203939_at	-0.0448	4.654 x 10 ⁻¹	0.157
rs10498954	86122273	203939_at	0.0444	4.689 x 10 ⁻¹	0.208
rs10498953	86122010	203939_at	0.0443	4.705 x 10 ⁻¹	0.208
rs482433	86137505	203939_at	0.0414	5.002 x 10 ⁻¹	0.676
rs1026064	86114329	203939_at	0.0399	5.157 x 10 ⁻¹	0.201
rs4337908	86119387	203939_at	0.0384	5.317 x 10 ⁻¹	0.204
rs1322408	86119166	203939_at	0.0383	5.321 x 10 ⁻¹	0.204
rs1322400	86115609	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs1575309	86112858	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs17216964	86112313	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs2181188	86114925	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs2208726	86117152	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs4707193	86113926	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs5019880	86113757	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs5019881	86113716	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs5019884	86113563	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs970569	86113255	203939_at	0.0367	5.501 x 10 ⁻¹	0.204
rs1853254	86109250	203939_at	0.0356	5.622 x 10 ⁻¹	0.205
rs17440948	86323370	203939_at	-0.0314	6.086 x 10 ⁻¹	0.125
rs1026063	86114303	203939_at	0.0283	6.442 x 10 ⁻¹	0.267
rs4707206	86235043	203939_at	-0.0247	6.873 x 10 ⁻¹	0.168
rs313199	86166419	203939_at	0.0233	7.047 x 10 ⁻¹	0.415
rs313196	86163951	203939_at	0.0227	7.111 x 10 ⁻¹	0.415
rs10498956	86166795	203939_at	0.0208	7.347 x 10 ⁻¹	0.19
rs626741	86158768	203939_at	0.0207	7.357 x 10 ⁻¹	0.426
rs528426	86161188	203939_at	0.0205	7.383 x 10 ⁻¹	0.416
rs545407	86158682	203939_at	0.0204	7.392 x 10 ⁻¹	0.416
rs4326211	86159577	203939_at	0.0204	7.398 x 10 ⁻¹	0.416
rs645265	86160602	203939_at	0.0202	7.417 x 10 ⁻¹	0.416

rs493641	86156960	203939_at	0.0201	7.437 x 10 ⁻¹	0.416
rs16876114	86156062	203939_at	0.0199	7.462 x 10 ⁻¹	0.19
rs614124	86158254	203939_at	0.0177	7.729 x 10 ⁻¹	0.422
rs9444348	86232293	203939_at	0.0175	7.759 x 10 ⁻¹	0.633
rs645354	86160671	203939_at	0.0161	7.932 x 10 ⁻¹	0.37
rs532366	86155057	203939_at	0.0147	8.103 x 10 ⁻¹	0.369
rs560334	86152654	203939_at	0.0143	8.155 x 10 ⁻¹	0.37
rs4707211	86289429	203939_at	-0.0091	8.817 x 10 ⁻¹	0.369
rs12203963	86280035	203939_at	-0.0073	9.050 x 10 ⁻¹	0.367
rs313198	86166334	203939_at	0.0072	9.068 x 10 ⁻¹	0.379
rs1322409	86118139	203939_at	-0.0056	9.271 x 10 ⁻¹	0.358
rs4706238	86178192	203939_at	0.0028	9.642 x 10 ⁻¹	0.608
rs6908264	86110429	203939_at	-0.0026	9.657 x 10 ⁻¹	0.359

Supplemental Table 3. Summary of *NT5E* SNP correlation with *NT5E* expression (p-value cut off = 10^{-6}).

dbSNP ID	Position	pos rel ATG*	Correlation	P-value
rs9450278	86215061	-1516	-0.3760	2.349×10^{-10}
rs9450279	86215943	-634	-0.3515	4.290×10^{-9}
rs4599602	86215137	-1440	-0.3521	4.292×10^{-9}
rs4458647	86215224	-1353	-0.3517	4.828×10^{-9}
rs7772233	86202743	-13834	-0.3389	1.264×10^{-8}
rs3812139	86253709	37132	-0.3092	2.407×10^{-7}
rs4463232	86214879	-1698	-0.3080	2.738×10^{-7}
rs2229524	86255962	39385	-0.3073	3.191×10^{-7}
rs12055597	86194552	-22025	-0.3047	3.640×10^{-7}
rs9353319	86289262	72685	-0.3005	5.370×10^{-7}
rs7745560	86345640	129063	-0.3005	5.370×10^{-7}
rs1590279	86195292	-21285	0.2985	6.415×10^{-7}
rs9344524	86206370	-10207	0.2979	6.768×10^{-7}
rs12528808	86262363	45786	0.2971	7.321×10^{-7}
rs9450286	86265244	48667	-0.2968	7.470×10^{-7}
rs9344530	86248976	32399	0.2907	1.283×10^{-6}
rs9344521	86193182	-23395	0.2906	1.297×10^{-6}
rs9362213	86193126	-23451	0.2906	1.299×10^{-6}
rs7754559	86191050	-25527	0.2902	1.349×10^{-6}
rs1322401	86190106	-26471	0.2898	1.394×10^{-6}
rs1000633	86189472	-27105	0.2897	1.403×10^{-6}
rs9362211	86189258	-27319	0.2894	1.446×10^{-6}
rs6902904	86259422	42845	0.2892	1.467×10^{-6}
rs7744309	86323201	106624	0.2882	1.600×10^{-6}
rs9344528	86219946	3369	0.2865	1.852×10^{-6}
rs6900270	86271226	54649	0.2852	2.069×10^{-6}
rs3812137	86273344	56767	-0.2847	2.170×10^{-6}
rs12662033	86198397	-18180	0.2840	2.300×10^{-6}
rs4487548	86199130	-17447	-0.2839	2.320×10^{-6}
rs9344525	86208157	-8420	-0.2839	2.320×10^{-6}
rs1570311	86211870	-4707	-0.2839	2.320×10^{-6}
rs9362223	86249339	32762	0.2839	2.321×10^{-6}
rs9362218	86206482	-10095	0.2839	2.324×10^{-6}
rs6913634	86260682	44105	-0.2841	2.390×10^{-6}
rs2295890 [†]	86216181	-396	-0.2831	3.093×10^{-6}
rs9353315	86206657	-9920	0.2797	3.303×10^{-6}
rs6930790	86276278	59701	0.2774	4.018×10^{-6}
rs6910543	86285460	68883	-0.2767	4.260×10^{-6}
rs9450294	86307149	90572	-0.2690	8.010×10^{-6}
rs7771366	86348630	132053	-0.2690	8.010×10^{-6}
rs4400191	86222521	5944	-0.2670	9.370×10^{-6}

Ethnic-Specific 6-MP and 6-TG IC₅₀ Values

