

GUIDELINE

A gene variant report is a graphical representation of genetic raw data, displayed as a color coded chart. Phenotypes are determined based on the presence or absence of variant alleles in your genotype. Alleles are considered variant if they are the minor allele i.e they occur with less frequency (GMAF) in the default global population. Having "no variant" alleles (green) is not necessarily "normal" or protective, and having a homozygous phenotype (red) is not always "abnormal". What is a normal or abnormal phenotype should NOT be determined solely based on this variant report. Please refer to the table below to explore this issue further.

The significance of your phenotypes should be assessed by reviewing related genome wide studies for context and in consultation with a qualified health practitioner or nutrigenetics specialist.

	By default, green means that there are no minor alleles or Hemizygous and therefore that there are no risk alleles. Sometimes, however a minor allele can be protective and in these cases it will also be marked as green.
	By default, yellow means that there is one minor allele. Sometimes, two major alleles (common alleles) are yellow if the major allele is the risk allele or Heterozygous.
	Red means that you need to pay attention to this SNP. By default, Red means that there are two minor (less common) alleles and therefore risk alleles or Homozygous. Sometimes, we change a color to Red if there is only one minor allele and one minor allele is associated with negative health outcomes.



Alzheimers/Cardio/Lipid



Alzheimers/Cardio/Lipid

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs669	A2M Ile1000Val	CC	TT
rs3764650	ABCA7 T1046520G	GG	TT
rs2478545	AGT 11216C>T	AA	GG
rs3789670	AGT 11623G>A	TT	--
rs2493132	AGT 11780A>G	GG	--
rs2478523	AGT 13828T>C	GG	AG
rs7079	AGT 17006C>A	TT	TG
rs5049	AGT 5254G>A	TT	--
rs11568020	AGT 5319G>A	TT	CC
rs5051	AGT 5465G>A	TT	TC
rs2148582	AGT 5538T>C	GG	AG
rs2493134	AGT 5978A>G	CC	TC
rs2004776	AGT 6635G>A	TT	TC
rs699	AGT M235T/C4072T	GG	AG
rs4762	AGT Thr207Met	AA	--
rs28931576	APOE A178G	GG	AA
rs429358	APOE ApoE epsilon 4	CC	--
rs769455	APOE C8002T	TT	CC
rs769449	APOE G5964A	AA	GG
rs63750847	APP Ala655Thr	TT	--
rs63750671	APP Ala674Gly	CC	--
rs63750066	APP Ala695Thr	TT	CC
rs63750363	APP Glu647Asp	GG	CC
rs63750399	APP Ile698Val	CC	TT
rs63750643	APP Thr696Ala	CC	--
rs63750973	APP Thr696Ile	AA	GG
rs63749964	APP Val586Gly	CC	AA
rs63750734	APP Val697Met	TT	CC
rs179943	ATXN1 C368404T	AA	GG
rs1799807	BCHE A98G	CC	--
rs2049045	BDNF C54365G	CC	--
rs11030104	BDNF T64089C	AA	AA
rs4970834	CELSR2 -20C7927T	TT	TC
rs1800775	CETP C4402A	AA	AA
rs5882	CETP I405V	AA	GG
rs3810950	CHAT A120T	AA	AG
rs1880676	CHAT Asp7Asn	AA	GG
rs11136000	CLU A58V	CC	CC
rs806370	CNR1 C88856331T	TT	--



Alzheimers/Cardio/Lipid

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6454673	CNR1 G88871049A	AA	AG
rs6656401	CR1 A27577G	GG	GG
rs17571	CTSD A58V	AA	GG
rs13146272	CYP4V2 Q259K	AA	AA
rs892086	DNM2 G13923A	AA	AG
rs2254958	EIF2AK2 C12900T	AA	--
rs3211719	F10 113777509 A5397C	GG	AA
rs2289252	F11 C25264T	TT	TC
rs2036914	F11 T10364C	CC	TC
rs5896	F2 C494T	TT	TC
rs3917643	F3 94997288 A10547G	CC	--
rs6025	F5 Factor V Leiden FVL	TT	CC
rs6048	F9 G580A A25386G	GG	AA
rs10793294	GAB2 G137466T	AA	AA
rs2373115	GAB2 G42719T	AA	CC
rs7019241	GOLM1 C17857992T	CC	CC
rs10868366	GOLM1 G88700060T	TT	GG
rs1613662	GP6 Pro219Ser	AA	AG
rs1800730	HFE 193A>T	TT	AA
rs1800562	HFE C282Y	AA	GG
rs1799945	HFE H63D	GG	CC
rs9898	HRG Pro204Ser	TT	--
rs6583817	IDE G91606A	TT	--
rs2069837	IL6 A6262G	GG	AG
rs5918	ITGB3 P1A2/T196C	CC	TC
rs2731672	KNG I598T GP IIIa HPA-1	CC	CC
rs1012672	LRP6 Cys1270	AA	GG
rs2160525	LRP6 T154522C	GG	GG
rs2302685	LRP6 V1062I	TT	TT
rs242557	MAPT A52950A	AA	--
rs11754661	MTHFD1L G25264A	AA	GG
rs1523127	NR1I2 C6709A	AA	AC
rs1050283	OLR1 C17502T	GG	--
rs12316150	OLR1 T17500A	TT	AA
rs11591147	PCSK9 R46L	TT	GG
rs63750526	PSEN1 Ala242Glu	AA	CC
rs63751223	PSEN1 Ala422Pro	CC	GG
rs63749824	PSEN1 Ala75Val	TT	CC



Alzheimers/Cardio/Lipid

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs63750900	PSEN1 Arg265His	GG	GG
rs17125721	PSEN1 Glu314Gly	GG	AA
rs63751068	PSEN1 Gly179Val	TT	GG
rs63750590	PSEN1 His159Arg	GG	AA
rs63751144	PSEN1 Leu170Met	AA	CC
rs63751163	PSEN1 Leu246Ser	CC	TT
rs63750886	PSEN1 Leu267Val	GG	CC
rs63751235	PSEN1 Leu282Val	GG	CC
rs63750218	PSEN1 Leu388Pro	CC	TT
rs63750599	PSEN1 Leu81Pro	CC	TT
rs63751037	PSEN1 Met135Val	GG	AA
rs63751229	PSEN1 Pro263Ser	TT	CC
rs63750577	PSEN1 Ser166Phe	TT	CC
rs63751320	PSEN1 Tyr252Ser	CC	AA
rs63750815	PSEN1 Val85Leu	TT	GG
rs63750048	PSEN2 Ala85Val	TT	CC
rs63750215	PSEN2 Asn141Ile	TT	AA
rs63750110	PSEN2 Asp438Ala	CC	AA
rs63749885	PSEN2 His159Tyr	TT	CC
rs28936379	PSEN2 Met239Val	GG	AA
rs63750197	PSEN2 Ser130Leu	TT	--
rs63749851	PSEN2 Thr122Pro	CC	AA
rs63750666	PSEN2 Thr429Met	TT	CC
rs6859	PVRL2 A37642G	GG	AG
rs2248663	RNF219 T79207588C	CC	TT
rs2227589	SERPINC1 G5301A	TT	CC
rs1792113	SORL1 A146986G	GG	AA
rs3781835	SORL1 G130294A	AA	--
rs241448	TAP2 T14863C	AA	AG
rs1049296	TF Pro589Ser	TT	TC
rs1937	TFAM Ser12Thr	CC	--
rs1042580	THBD A7681G	CC	CC
rs4986790	TLR4 D299G	GG	AA
rs157580	TOMM40 G45395266A	AA	AG
rs1800458	TTR Gly26Ser	AA	GG



COMT Activity



COMT Activity

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2494732	AKT1 A27890G	CC	--
rs4767939	ALDH2 A7550G	GG	AA
rs4648328	ALDH2 C23443T	TT	CC
rs4646778	ALDH2 C36438A	AA	CC
rs16941667	ALDH2 C45068T	TT	CC
rs671	ALDH2 G1369A	AA	GG
rs2238152	ALDH2 G15114T	TT	--
rs2238151	ALDH2 T12488C	CC	CC
rs968529	ALDH2 T35023C	CC	CC
rs72547575	ALDH3A2 A1157G	GG	AA
rs72547566	ALDH3A2 C13996T	TT	--
rs1800869	ALDH3A2 C17571G	GG	--
rs72547564	ALDH3A2 G641A	AA	GG
rs11599164	ANK3 C666301A	TT	GG
rs10994397	ANK3 G219161A	TT	CC
rs10994336	ANK3 G318473A	TT	CC
rs9804190	ANK3 G658454A	TT	CC
rs1938526	ANK3 T197902C	GG	--
rs10761482	ANK3 T62085337C	CC	CC
rs1800497	ANKK1 E713K	AA	GG
rs216013	CACNA1C A2729632G	GG	AA
rs2159100	CACNA1C C271442T	TT	TC
rs1006737	CACNA1C G115699A	AA	AG
rs2302729	CACNA1C T709021C	CC	TC
rs769224	COMT -61 P199P	AA	GG
rs2239393	COMT A 26166G	GG	AG
rs6269	COMT A-1324G	GG	AG
rs933271	COMT A2953G	TT	TT
rs1544325	COMT A7406G	GG	AG
rs4646316	COMT C27870T	TT	CC
rs174696	COMT C28914T	TT	--
rs174699	COMT C30196T	TT	TT
rs9332377	COMT C31430T	TT	TC
rs8192488	COMT C438T	TT	--
rs165599	COMT G*522A	AA	GG
rs165656	COMT G24601C	CC	GG
rs165774	COMT G28299A	AA	--
rs4633	COMT H62H	TT	CC
rs5993883	COMT T13376G	GG	TG
rs4646312	COMT T24075C	CC	TC



COMT Activity

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs740601	COMT T26501G	GG	--
rs4680	COMT V158M	AA	GG
rs1799814	CYP1A1*4 C2453A	TT	GG
rs1056836	CYP1B1 L432V	GG	CG
rs1800440	CYP1B1 N453S	CC	TT
rs1611115	DBH 4031T>C	CC	TC
rs77905	DBH A1410G	AA	AG
rs1108580	DBH A486G	GG	AG
rs1108581	DBH A8757G	GG	AA
rs1611123	DBH C12599T	TT	CC
rs129882	DBH C27185T	TT	TC
rs1611114	DBH C3719T	TT	TC
rs1541332	DBH G15032A	AA	AA
rs3025382	DBH G5837A	AA	GG
rs5320	DBH G631A	AA	GG
rs4531	DBH G952T	TT	GG
rs2519152	DBH T13150C	CC	--
rs2519154	DBH T15791C	CC	CC
rs2797853	DBH T16031C	GG	--
rs2097628	DBH T2145C	AA	AG
rs2007153	DBH T7335C	CC	TC
rs2873804	DBH T9160C	CC	TT
rs251937	DRD1 A9244G	CC	TT
rs686	DRD1 C7464T	AA	GG
rs5326	DRD1 G5968A	TT	CC
rs4532	DRD1 G6014A	TT	CC
rs265981	DRD1 T5262C	GG	AA
rs4245146	DRD2 A33029G	CC	TT
rs4648318	DRD2 A37613G	CC	CC
rs1799978	DRD2 A4651G	CC	TT
rs1125394	DRD2 A53817G	CC	--
rs1079727	DRD2 A61820G	CC	--
rs2440390	DRD2 A64124G	CC	--
rs10891549	DRD2 A72555G	CC	TT
rs4938019	DRD2 A9611G	CC	--
rs4648317	DRD2 C19470T	AA	GG
rs17529477	DRD2 C33935T	AA	GG
rs4620755	DRD2 C41383T	AA	AA
rs2242592	DRD2 C71572T	AA	GG
rs2234689	DRD2 C72519G	CC	--



COMT Activity

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6277	DRD2 C957T	AA	--
rs4581480	DRD2 G26528A	TT	--
rs7125415	DRD2 G40321A	TT	TT
rs4436578	DRD2 G44237A	TT	--
rs2471857	DRD2 G52663A	TT	CC
rs1079596	DRD2 G54383A	TT	CC
rs1079597	DRD2 G54716A	TT	CC
rs2283265	DRD2 G65466T	AA	--
rs7131056	DRD2 T21228G	CC	AA
rs12364283	DRD2 T4047C	GG	AA
rs1076563	DRD2 T55093G	CC	--
rs2734838	DRD2 T64501C	GG	AA
rs6275	DRD2 T852C	AA	AA
rs167771	DRD3 C26625T	AA	AA
rs963468	DRD3 C40013T	AA	AG
rs9828046	DRD3 C44637T	AA	GG
rs10934256	DRD3 G17248T	AA	--
rs1394016	DRD3 G20405035A	GG	GG
rs6280	DRD3 G25A	TT	TT
rs1486009	DRD3 T14368C	GG	AA
rs324029	DRD3 T21277C	GG	GG
rs9825563	DRD3 T2680C	AA	AA
rs3773678	DRD3 T32822C	GG	GG
rs9288993	DRD3 T43727C	GG	AA
rs916457	DRD4 C4710T	TT	--
rs752306	DRD4 C5318T	TT	CC
rs3758653	DRD4 T4095C	CC	TT
rs1800443	DRD4 T581G	GG	--
rs5906957	MAOA A36902G	GG	GG
rs2235186	MAOA A85020G	GG	GG
rs909525	MAOA C42794T	TT	TT
rs5953210	MAOA G3638A	AA	AA
rs6323	MAOA R297R/G492T/T941G	TT	TT
rs1137070	MAOA T1011C/1460C	CC	CC
rs2072743	MAOA T89113C	CC	--
rs1799836	MAOB A118723G	CC	TT
rs10521432	MAOB C112982T	GG	AA
rs6651806	MAOB T57758G	AA	CC
rs5030853	PAH A300S	AA	CC



COMT Activity

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs5030857	PAH A403V	AA	GG
rs3817446	PAH A55562G	CC	TT
rs2037639	PAH C45031T	AA	GG
rs1718301	PAH C45188T	AA	--
rs2245360	PAH C81837T	AA	AG
rs1801153	PAH G*187A	TT	CC
rs772897	PAH G1155C	GG	--
rs1722392	PAH G37636A	TT	TC
rs1042503	PAH G735A	TT	CC
rs5030855	PAH IVS10-11G>A	TT	CC
rs5030861	PAH IVS12+1G>A	TT	CC
rs5030841	PAH L48S	GG	AA
rs5030858	PAH R408W	AA	GG
rs1522307	PAH T17864C	GG	AG
rs10778209	PAH T32409C	GG	GG
rs28934581	TH A733C	GG	TT
rs28934580	TH G1010A//R337H	TT	CC
rs2070762	TH T1090C	GG	GG
rs6356	TH V112M	TT	TC



Cannabinoid



Cannabinoid

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1049748	ABP1 P574P	CC	TC
rs2494732	AKT1 A27890G	CC	--
rs6928813	CNR1 A88861698G	GG	AA
rs806381	CNR1 A88865901G	AA	AG
rs806378	CNR1 C88859551T	TT	CC
rs4707436	CNR1 G88851751A	AA	GG
rs1049353	CNR1 T453T	TT	CC
rs806368	CNR1 T88850100C	CC	TC
rs12720071	CNR1 T88851181C	CC	--
rs806376	CNR1 T88858648C	CC	TC
rs806377	CNR1 T88858723C	CC	TC
rs12205430	CNR1 T88867925C	CC	TT
rs6454674	CNR1 T88872930G	TT	TG
rs2501432	CNR2 G63A	CC	--
rs9424398	CNR2 T24221834G	GG	TG
rs3741775	DAO A14747C	CC	--
rs3918347	DAO A24464G	GG	AA
rs2070586	DAO G8864A	AA	GG
rs2111902	DAO T9891G	GG	TT
rs492602	FUT2 A12190G	GG	AA
rs602662	FUT2 G12758A	AA	GG
rs12150220	NLRP1 7466T>A	TT	TA
rs10733113	NLRP3 247622357A>G	GG	--
rs17221417	NOD2 13533C>G	GG	CC
rs2066843	NOD2 19150C>T	TT	CC
rs5743289	NOD2 30725C>T	TT	CC
rs2066845	NOD2 Gly881Arg	CC	GG
rs2066847	NOD2 L1007P	CC	DD
rs7967152	VDR A48244184C	CC	AA
rs4328262	VDR C18167A	TT	TT
rs3782905	VDR C37648G	CC	--
rs2189480	VDR C39987A	TT	TG
rs3847987	VDR C48238068A	AA	CC
rs757343	VDR C48239675T	TT	--
rs2107301	VDR C48245T	AA	AA
rs2238136	VDR C48277713T	TT	CC
rs11574027	VDR C48287373A	AA	--
rs10875695	VDR C48293037A	AA	AC
rs7299460	VDR C48296268T	TT	--
rs739837	VDR C65594A	TT	--



Cannabinoid

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs3890733	VDR G14442A	TT	CC
rs4760648	VDR G23150A	CC	--
rs2238135	VDR G25625C	GG	--
rs12721370	VDR G41742T	AA	CC
rs12717991	VDR G44689A	TT	--
rs1540339	VDR G46489A	TT	TT
rs2239185	VDR G48244559A	AA	--
rs886441	VDR G48262964A	AA	AA
rs10783218	VDR G48272743A	AA	--
rs2254210	VDR G48273714A	AA	GG
rs2853564	VDR G48278487A	GG	AG
rs11168287	VDR G48285414A	AA	AG
rs4237855	VDR G48287203A	AA	AG
rs11574026	VDR G48288246A	AA	--
rs11168293	VDR G48293716T	TT	GG
rs4760655	VDR G48294131A	AA	--
rs7975232	VDR G64978T	AA	--
rs7136534	VDR G9189A	GG	TC
rs2239186	VDR T34405C	GG	GG
rs3819545	VDR T38809C	GG	--
rs2239181	VDR T47866G	CC	AA
rs11574077	VDR T48252927C	CC	--
rs2239182	VDR T48255411C	CC	TT
rs11168275	VDR T48272275C	CC	CC
rs2248098	VDR T50459C	GG	AA
rs4760658	VDR T7329C	GG	--
rs731236	VDR TAQ	AA	AA
rs1544410	VDR VDR:BsmI	TT	CC



Celiac Disease/Gluten Intolerance



Celiac Disease/Gluten Intolerance

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6441961	3p21 near CCR3 1184A>G	CC	TC
rs6822844	4q27 Region 123509421G>T	TT	GG
rs231775	CTLA4 Thr17Ala	GG	AA
rs2858331	HLA 4126892A>G	GG	GG
rs2187668	HLA DQA1	TT	CC
rs9851967	LPP 220966C>T	TT	TC



Clotting Factors



Clotting Factors

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1800775	CETP C4402A	AA	AA
rs13146272	CYP4V2 Q259K	AA	AA
rs3211719	F10 113777509 A5397C	GG	AA
rs2289252	F11 C25264T	TT	TC
rs2036914	F11 T10364C	CC	TC
rs6025	F5 Factor V Leiden FVL	TT	CC
rs6048	F9 G580A A25386G	GG	AA
rs1613662	GP6 Pro219Ser	AA	AG
rs9898	HRG Pro204Ser	TT	--
rs5918	ITGB3 P1A2/T196C	CC	TC
rs2731672	KNG I598T GP IIIa HPA-1	CC	CC
rs1523127	NR1I2 C6709A	AA	AC
rs2227589	SERPINC1 G5301A	TT	CC



Eye Health



Eye Health

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4889294	BCO1/BCMO1 36464T>C	CC	TC
rs11645428	BCO1/BCMO1 81225291G>A	GG	--
rs6564851	BCO1/BCMO1 81230992T>G	GG	TT
rs6420424	BCO1/BCMO1 (PKD1L2) Arg252Trp	AA	GG
rs7501331	BCO1/BCMO1 A379V Ala379Val	TT	CC



Glyoxylate Metabolic Process



Glyoxylate Metabolic Process

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1049748	ABP1 P574P	CC	TC
rs4426527	AGXT I340M	GG	AA
rs344156	AGXT2 A35035579G	GG	GG
rs40200	AGXT2 A35045745G	GG	GG
rs7717823	AGXT2 C35000795T	TT	CC
rs37369	AGXT2 V140I	TT	CC
rs16899974	AGXT2 V498L	AA	CC
rs1377210	AGXT2L1 S127P	GG	AA
rs3810174	BCKDHA C5472T	TT	TC
rs10455370	BCKDHB C229524T	TT	TC
rs6931421	BCKDHB T68795G	GG	GG
rs3741775	DAO A14747C	CC	--
rs3918347	DAO A24464G	GG	AA
rs2070586	DAO G8864A	AA	GG
rs2111902	DAO T9891G	GG	TT
rs2810424	DBT A56731G	CC	--
rs12021720	DBT G384S	CC	CC
rs2057149	DDO C110717493T	TT	TT
rs3740015	DHTKD1 Y272D	GG	TG
rs2303436	DLAT A43V	TT	--
rs10263341	DLD T19214C	CC	TC
rs732765	DLST A22136G	GG	AA
rs11789777	GLDC A55715G	CC	TT
rs7848919	GLDC C118216T	AA	AG
rs2423322	HAO1 A7873112G	GG	AG
rs6118004	HAO1 C7897049T	TT	CC
rs16994134	HAO1 T7894092C	CC	TT
rs2423334	HAO1 T7905947C	CC	TC
rs2297644	HOGA1 T20638C	CC	TC
rs730168	LDHD C75150275T	TT	TC
rs2259073	LIAS A19410C	CC	AC
rs459894	NDUFAB1 A23601488G	GG	AA
rs497582	PDHX V271V	CC	CC





HLA

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs9271366	HLA 4037578A>G	GG	AG
rs2858331	HLA 4126892A>G	GG	GG
rs2187668	HLA DQA1	TT	CC
rs3823339	HLA-A 7727C>G	GG	GC
rs1061235	HLA-A 8057A>T	TT	AA
rs2523608	HLA-B 7431C>T	AA	AA
rs3819299	HLA-B His363Pro	GG	GG
rs2001181	HLA-C 7911A>G	CC	TT
rs23544	HLA-DMB 4348055C>T	TT	TC
rs151719	HLA-DMB 4348318T>C	CC	TT
rs86567	HLA-DOA 5631C>A	GG	TT
rs2284191	HLA-DOA 5736C>T	AA	GG
rs399604	HLA-DOA 7376A>G	CC	TT
rs2581	HLA-DOA 7989C>A	TT	GG
rs376892	HLA-DOA 9503C>T	AA	GG
rs1044429	HLA-DOA 9748G>A	TT	TT
rs3128935	HLA-DOA 9986A>G	CC	TT
rs7383287	HLA-DOB 6740T>C	GG	AA
rs2071473	HLA-DOB 7221G>A	CC	TT
rs2071474	HLA-DOB 7244G>A	TT	--
rs2856997	HLA-DOB 8050G>T	AA	AA
rs11244	HLA-DOB 9102C>T	AA	AG
rs2301226	HLA-DPA1 18960C>T	AA	AG
rs3077	HLA-DPA1 20534T>C	GG	AA
rs9277535	HLA-DPB1 16159A>G	GG	AA
rs9277555	HLA-DPB1 16903G>A	AA	--
rs9275224	HLA-DQA2 3941621G>A	GG	AA
rs17500468	HLA-DQA2 4156973A>G	GG	--
rs9276431	HLA-DQA2 4158042T>C	TT	CC
rs17500510	HLA-DQA2 4158614G>A	AA	--
rs2239800	HLA-DQA2 4159063A>G	GG	AG
rs7453920	HLA-DQB2 4175809A>G	GG	GG
rs2051549	HLA-DQB2 4175883G>A	AA	AA
rs1573649	HLA-DQB2 Met1Thr	AA	AG
rs3135394	HLA-DRA 5055G>A	GG	AA



HLA

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs9268645	HLA-DRA 5085C>G	GG	CC
rs3129878	HLA-DRA 5293C>A	CC	AC
rs3129882	HLA-DRA 6087A>G	GG	AA
rs6911777	HLA-DRA 6553T>C	CC	--
rs3129883	HLA-DRA 6694C>T	TT	CC
rs9268658	HLA-DRA 7273G>A	AA	AG
rs3135391	HLA-DRA 7544G>A	AA	GG
rs8084	HLA-DRA 7592A>C	CC	AC
rs2239804	HLA-DRA 8080T>C	CC	TC
rs3129888	HLA-DRA 8283A>G	GG	AA
rs2239803	HLA-DRA 8390C>T	TT	TC
rs2239802	HLA-DRA 8403G>C	CC	GG
rs3177928	HLA-DRA 8958G>A	AA	GG
rs7194	HLA-DRA 9003G>A	GG	--
rs1041885	HLA-DRA 9332A>T	AA	AT
rs7192	HLA-DRA Leu242Val	TT	TG
rs660895	HLA-DRB1 4028086A>G	GG	AA
rs7775228	HLA-DRB4 4103732T>C	CC	CC
rs9268831	HLA-DRB9 7239C>T	CC	CC
rs9268832	HLA-DRB9 7280T>C	TT	--
rs2743951	HLA-F-AS1 7747G>A	CC	--
rs2844846	HLA-F-AS1, MICE 4945T>A	TT	AA
rs1632933	HLA-G 8178C>T	TT	TC
rs1063320	HLA-G 8994C>G	CC	--
rs9380142	HLA-G 9039A>G	GG	--
rs1610696	HLA-G 9048C>G	GG	--
rs2517701	HLA-W 2462A>T	TT	TA
rs3094228	HLA-X 441A>G	CC	TT



IgA



IgA

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6677604	CFH 70778G>A	AA	GG
rs516246	FUT2 11945C>T	TT	CC
rs485186	FUT2 12979A>G	AA	AA
rs504963	FUT2 14638G>A	AA	GG
rs492602	FUT2 A12190G	GG	AA
rs1047781	FUT2 A12404T	TT	AA
rs602662	FUT2 G12758A	AA	GG
rs9271366	HLA 4037578A>G	GG	AG
rs9275224	HLA-DQA2 3941621G>A	GG	AA
rs1990760	IFIH1 (HLA) Ala946Thr	TT	CC
rs2229765	IGF1R 290465G>A	AA	GG
rs4728142	IRF5 974G>A	AA	GG
rs9275596	MTC03P1 4127246C>T	CC	--
rs12150220	NLRP1 7466T>A	TT	TA
rs10733113	NLRP3 247622357A>G	GG	--
rs17221417	NOD2 13533C>G	GG	CC
rs2066843	NOD2 19150C>T	TT	CC
rs5743289	NOD2 30725C>T	TT	CC
rs2066845	NOD2 Gly881Arg	CC	GG
rs2066847	NOD2 L1007P	CC	DD
rs9357155	PSMB8 / TAP1 / TAP2 4254376G>A	AA	GG
rs3761847	TRAF1 123690239G>A	AA	AA



IgE



IgE

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2814778	DARC 5174T>C	CC	TT
rs2427837	FCER1A 159258545G>A	AA	AA
rs2251746	FCER1A 159272060T>C	CC	CC
rs2494262	FCER1A / OR10J2P 159253672C>A	AA	AA
rs1800925	IL-13 C1112T 3945C>T	TT	--
rs1295685	IL13 7581A>G	AA	--
rs2040704	RAD50 85562A>G	GG	AA
rs2240032	RAD50 89512C>T	TT	--
rs33977706	SOCS-1 -820G>T 11256298C>A	AA	--



IgG



IgG

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1801274	FCGR2A His167Arg	GG	AA
rs7483	GSTM3 V224I	TT	TT
rs4792800	TNFRSF13B 16845167A>G	GG	AA



Iron Uptake & Transport



Iron Uptake & Transport

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2622621	ABCG2 126555G>C	GG	--
rs2231164	ABCG2 89015857C>T	TT	TC
rs13120400	ABCG2 89033527T>C	CC	TT
rs1481012	ABCG2 89039082A>G	AA	AG
rs4148155	ABCG2 89054667A>G	GG	AA
rs4148152	ABCG2 89060909T>C	CC	TC
rs3114018	ABCG2 89064581A>C	CC	AC
rs2622604	ABCG2 89078924T>C	CC	CC
rs72552713	ABCG2 Gln126Ter	AA	GG
rs2231142	ABCG2 Gln141Lys	TT	GG
rs3116448	ABCG2 Ser248Pro	GG	--
rs2266917	ATP6V1B1 11708C>T	TT	TC
rs2239484	ATP6V1B1 15411A>G	GG	AA
rs2071594	ATP6V1G2- DDX39B,ATP6V1G2 3093G>C	CC	GG
rs235756	BMP2 C282Y	GG	AG
rs701755	CP 148902714T>C	CC	TT
rs13072552	CP 148913126G>T	TT	GG
rs772908	CP 148923656G>A	AA	GG
rs11709714	CP 148931980G>A	AA	AA
rs701753	CP Asp544Glu	AA	--
rs960748	CYBRD1 171523426G>A	AA	AA
rs10455	CYBRD1 Ser208Asn	AA	AG
rs1264216	HEPH 57825T>G	GG	TT
rs17216603	HEPH Ala598Thr	AA	GG
rs1800730	HFE 193A>T	TT	AA
rs1800562	HFE C282Y	AA	GG
rs1799945	HFE H63D	GG	CC
rs2071749	HMOX1 11354A>G	GG	AG
rs11912889	HMOX1 11558G>A	AA	--
rs5755720	HMOX1 14814A>G	GG	AA
rs2071748	HMOX1 5559G>A	AA	AG
rs2071747	HMOX1 Asp7His	CC	GG
rs149411	SLC11A2 51380232A>G	GG	AA
rs224589	SLC11A2 51399050T>G	GG	TT
rs4667287	SLC40A1 190431875C>A	CC	AA



Iron Uptake & Transport

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1123109	SLC40A1 190444392T>C	CC	TT
rs708672	STEAP3 10971G>T	GG	--
rs12711924	STEAP3 35788G>A	AA	AG
rs838102	STEAP3 8350G>A	AA	GG
rs4241357	TF 15587G>T	TT	TT
rs1799852	TF 15746C>T	TT	CC
rs1880669	TF 23720T>C	TT	TC
rs3811647	TF 24053G>A	AA	AG
rs1358024	TF 24212C>T	TT	TC
rs1130459	TF 5307A>G	AA	GG
rs4428180	TF 6398A>G	GG	AA
rs12493168	TF 6612A>G	GG	AA
rs8177190	TF 7720C>T	TT	CC
rs8177191	TF 8163G>A	AA	GG
rs1799899	TF Gly277Ser	AA	GG
rs1049296	TF Pro589Ser	TT	TC
rs406271	TFRC 195776976T>C	TT	CC
rs3804141	TFRC 195796908C>T	TT	CC
rs480760	TFRC 195798258T>C	TT	CC
rs3817672	TFRC Gly142Ser	TT	CC



Liver Detox - Phase I



Liver Detox - Phase I

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1799814	CYP1A1*4 C2453A	TT	GG
rs2470890	CYP1A2 1545T>C	CC	TC
rs2472304	CYP1A2*1F 34356G>A	AA	--
rs762551	CYP1A2*1F C164A	AA	AC
rs2069526	CYP1A2*1K -739T>G	GG	TT
rs56276455	CYP1A2*3 D348N	AA	GG
rs9341266	CYP1B1 C1871T	AA	GG
rs1056836	CYP1B1 L432V	GG	CG
rs1800440	CYP1B1 N453S	CC	TT
rs9282671	CYP1B1 T241A	CC	AA
rs72549389	CYP1B1 T5795C	GG	AA
rs1801272	CYP2A6*2 A1799T	TT	AA
rs35303484	CYP2B6 A136G	GG	AA
rs8192719	CYP2B6 C26570T	TT	CC
rs2279344	CYP2B6 G23280A	GG	--
rs7260329	CYP2B6 G29435A	GG	AG
rs28399499	CYP2B6 I328T	CC	TT
rs3745274	CYP2B6 Q172H	TT	GG
rs1042389	CYP2B6 T1421C	CC	TT
rs36079186	CYP2B6 T20715C	CC	TT
rs2279345	CYP2B6 T23499C	CC	TC
rs12767583	CYP2C19 C5709T	TT	TC
rs4917623	CYP2C19 T106C	CC	TT
rs4986894	CYP2C19 T98C	CC	TC
rs4244285	CYP2C19*2 G681A	AA	AG
rs4986893	CYP2C19*3 G636A	AA	GG
rs28399504	CYP2C19*4 A5001G	GG	AA
rs56337013	CYP2C19*5 C1297T	TT	CC
rs72558186	CYP2C19*7 T24294A	AA	TT
rs41291556	CYP2C19*8 T358C	CC	TT
rs1057911	CYP2C9 50298A>T	TT	AA
rs4917639	CYP2C9 A6326C	CC	AA
rs4086116	CYP2C9 C334T	TT	CC
rs10509680	CYP2C9 G2337T	TT	GG
rs4918758	CYP2C9 T1188C	CC	TC
rs1934967	CYP2C9 T2674C	TT	CC
rs9332239	CYP2C9*12 1465C>T	TT	CC
rs72558187	CYP2C9*13 269T>C	CC	TT
rs1057910	CYP2C9*3 1075A>C	CC	AA
rs2256871	CYP2C9*9 752A>G	GG	AA



Liver Detox - Phase I

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs16947	CYP2D6 C2850T	AA	--
rs61736512	CYP2D6 G1659A	TT	CC
rs5030862	CYP2D6*12 124G>A	TT	CC
rs28371706	CYP2D6*17 T107I	AA	GG
rs3813865	CYP2E1 G3378C	CC	--
rs8192772	CYP2E1 T8845C	CC	TC
rs6413419	CYP2E1*4 A4768G	AA	GG
rs2070673	CYP2E1*7_-333T>A T333A	AA	--
rs2070672	CYP2E1*7_-352A>G A352G	GG	AG
rs6413420	CYP2E1*7_-71G>T G71T	TT	GG
rs2031920	CYP2E1_-1055C>T G1055T	TT	CC
rs3813867	CYP2E1_-1295G>C G1295C	CC	GG
rs4646437	CYP3A4 C202T	AA	AG
rs2246709	CYP3A4 T258C	GG	AA
rs28371759	CYP3A4*18 L293P	GG	--
rs2740574	CYP3A4*1B A392G	TT	TT
rs55785340	CYP3A4*2 S222P	GG	AA
rs55901263	CYP3A4*5 P218R	CC	GG
rs2242480	CYP3A4*_20239G>A G12A	TT	TC
rs28365083	CYP3A5*2 C2899A	TT	--
rs776746	CYP3A5*3 G237A	AA	CC
rs10264272	CYP3A5*6 G624A	TT	CC
rs662	PON1 Q192R	TT	TC



Liver Detox - Phase II



Liver Detox - Phase II

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs3741049	ACAT1 G22670A	AA	AG
rs4343	ACE G2328A	GG	AG
rs11555566	ADA A239G	CC	TT
rs452159	ADA C14275A	TT	GG
rs73598374	ADA G22A	TT	--
rs4961	ADD1 G460W	TT	GG
rs699	AGT M235T/C4072T	GG	AG
rs6875201	BHMT A7961G	GG	AA
rs16876512	BHMT C-448T	TT	CC
rs3733890	BHMT R239Q	AA	GG
rs567754	BHMT-02 C13813T	TT	TC
rs235756	BMP2 C282Y	GG	AG
rs2155219	C11orf30 76588150G>T	TT	TG
rs480575	CAT A12175G	GG	AG
rs11032703	CAT C14185T	TT	--
rs2300181	CAT C21068T	TT	TC
rs737866	COMT/TXNRD2 A4251G	TT	TC
rs2020917	COMT/TXNRD2 C4622T	TT	--
rs3741775	DAO A14747C	CC	--
rs3918347	DAO A24464G	GG	AA
rs2070586	DAO G8864A	AA	GG
rs2111902	DAO T9891G	GG	TT
rs1650697	DHFR/MSH T-473A	GG	GG
rs3738401	DISC1 R264Q	AA	--
rs2253262	DMGDH T372G	CC	CC
rs1018381	DTNBP1 C11202T	AA	--
rs2619522	DTNBP1 T14623G	CC	AA
rs2071010	FOLR1 G-20A	AA	AA
rs7925545	FOLR3 A3771G	GG	AA
rs7926875	FOLR3 C7672A	AA	CC
rs492602	FUT2 A12190G	GG	AA
rs1047781	FUT2 A12404T	TT	AA
rs602662	FUT2 G12758A	AA	GG
rs1050829	G6PD A376G	CC	TT
rs72554664	G6PD R493H	TT	CC
rs1050828	G6PD V98M	TT	CC
rs769395	GAD1 (GAD) A48604A	AA	AG



Liver Detox - Phase II

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2241165	GAD1 (GAD) C10180T	TT	TT
rs3828275	GAD1 (GAD) C14541T	TT	TC
rs2241164	GAD1 (GAD) C18360T	TT	TC
rs12185692	GAD1 (GAD) C2627A	AA	--
rs701492	GAD1 (GAD) C34281T	TT	TC
rs769407	GAD1 (GAD) G25509C	CC	--
rs3791878	GAD1 (GAD) G3992T	TT	--
rs3749034	GAD1 (GAD) G5276A	AA	GG
rs2058725	GAD1 (GAD) T21922C	CC	--
rs3791851	GAD1 (GAD) T30473C	CC	--
rs1805398	GAD2 (GAD) G26474809T	TT	GG
rs17851582	GAMT C9110T	AA	AG
rs55776826	GAMT G7497A	TT	--
rs3780127	GGH C15472T	AA	GG
rs11545078	GGH C17847T	AA	GG
rs3780126	GGH C6699T	AA	AA
rs4617146	GGH G13894A	TT	CC
rs6519519	GGT1 C17146T	TT	CC
rs5760485	GGT1 T11756C	TT	TT
rs5751901	GGT1 T17549C	CC	TT
rs8177412	GPX3 129T>C	TT	CC
rs2551715	GSR A43851G	CC	TC
rs3594	GSR G*1377T	AA	--
rs2273684	GSS A18836C	GG	TT
rs6088659	GSS A5997G	CC	CC
rs28936396	GSS C373T	AA	GG
rs6060124	GSS G11705T	AA	AC
rs4147567	GSTM1 7107A>G	GG	--
rs1056806	GSTM1 7730C>T	TT	--
rs2239892	GSTM1 8869A>G	GG	AA
rs7483	GSTM3 V224I	TT	TT
rs1138272	GSTP1 A114V	TT	CC
rs1695	GSTP1 I105V	GG	AA
rs2073440	HDC A1932C	GG	--
rs1800730	HFE 193A>T	TT	AA
rs2794719	HFE 6382T>G	GG	TT
rs9366637	HFE 6590C>T	TT	CC
rs1800562	HFE C282Y	AA	GG
rs1799945	HFE H63D	GG	CC



Liver Detox - Phase II

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs7775228	HLA-DRB4 4103732T>C	CC	CC
rs17583889	HNMT C29232A	AA	CC
rs6430764	HNMT C3616T	TT	TC
rs346070	HRH1 T*1687C	CC	TC
rs901865	HRH1 T-17C	CC	TC
rs11662595	HRH4 A617G	GG	AA
rs4800573	HRH4 G*2144A	AA	GG
rs16940765	HRH4 T3537649C	CC	TT
rs7997012	HTR2A T64185C	GG	AA
rs7820268	IDO1 C6202T	TT	CC
rs2993763	MAT1A C1131T	AA	AG
rs4934028	MAT1A C15656T	AA	AG
rs72558181	MAT1A G19502A	TT	CC
rs1985908	MAT1A T*1297C	GG	GG
rs2028900	MAT2A C6635T	TT	TC
rs4869089	MAT2B A7755681G	GG	AG
rs7134594	MMAB G16110A	TT	TC
rs2071409	MPO A15067C	GG	TT
rs2759	MPO A15191G	CC	TT
rs28730837	MPO C7900T	AA	GG
rs1076991	MTHFD1 C105T	CC	--
rs2236225	MTHFD1 R635Q	AA	AG
rs803422	MTHFD1L A33780G	GG	AG
rs11754661	MTHFD1L G25264A	AA	GG
rs17349743	MTHFD1L T31397C	CC	TC
rs1667627	MTHFD2 C8503T	TT	--
rs6495446	MTHFS - ST20 MTHFS G39646A	TT	TC
rs2733103	MTHFS - ST20 MTHFS G56057A	TT	TC
rs1041983	NAT2 C282T	TT	CC
rs1799929	NAT2 C481T	TT	CC
rs1801279	NAT2 G191A	AA	GG
rs1799931	NAT2 G286E	AA	GG
rs1801280	NAT2 I114T	CC	TT
rs1208	NAT2 K268R	AA	AA
rs1799930	NAT2 R197Q	AA	GG
rs1805158	NAT2 R64W	TT	CC
rs12150220	NLRP1 7466T>A	TT	TA
rs10733113	NLRP3 247622357A>G	GG	--



Liver Detox - Phase II

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs17221417	NOD2 13533C>G	GG	CC
rs2066843	NOD2 19150C>T	TT	CC
rs5743289	NOD2 30725C>T	TT	CC
rs2066845	NOD2 Gly881Arg	CC	GG
rs2066847	NOD2 L1007P	CC	DD
rs10517	NQO1 C494+	GG	GG
rs1800566	NQO1 C609T	AA	AA
rs689452	NQO1 G13070C	GG	GG
rs689453	NQO1 G13161A	TT	CC
rs2917669	NQO1 T6314C	GG	--
rs1437135	NQO1 T7706C	GG	GG
rs6994992	NRG1 C3314T	TT	TT
rs2280673	RAB6B C282Y	CC	--
rs5568	SLC6A2 A45583C	CC	AC
rs168924	SLC6A2 A5003G	GG	AA
rs3785143	SLC6A2 C10565T	TT	--
rs36020	SLC6A2 C28547T	TT	CC
rs3785157	SLC6A2 C45295T	TT	CC
rs36009	SLC6A2 C48079T	TT	TC
rs2242447	SLC6A2 C51371T	TT	TC
rs2242446	SLC6A2 C5884T	TT	TT
rs1532701	SLC6A2 G13486A	AA	--
rs40147	SLC6A2 G32299A	AA	AG
rs1566652	SLC6A2 G47034T	TT	--
rs998424	SLC6A2 G47405A	AA	--
rs3785152	SLC6A2 T32009C	CC	CC
rs1800887	SLC6A2 T49048C	CC	TT
rs6347	SLC6A3 A39132G	CC	TT
rs2617605	SLC6A3 A8023G	CC	TC
rs460000	SLC6A3 C17719T	TT	GG
rs6350	SLC6A3 C7345T	AA	GG
rs27048	SLC6A3 G37899A	TT	TC
rs11133767	SLC6A3 G48964A	TT	--
rs40184	SLC6A3 G55467A	TT	TC
rs27072	SLC6A3 G56022A	TT	TC
rs403636	SLC6A3 T12190G	CC	AC
rs464049	SLC6A3 T26639C	GG	AG
rs1042098	SLC6A3 T55729C	GG	--
rs4149452	SULT2A1 G17136A	TT	CC
rs2547231	SULT2A1 G9598T	AA	AC



Liver Detox - Phase II

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4149449	SULT2A1 G9696A	TT	TC
rs6717546	UGT1A1 A188730G	GG	AA
rs887829	UGT1A1 C175181T	TT	TC
rs4148325	UGT1A1 C179920T	TT	TC
rs6742078	UGT1A1 G179250T	TT	TG
rs62625011	UGT1A1 G182349A	AA	GG
rs4148323	UGT1A1 G211A	AA	GG
rs72551348	UGT1A1 G328A	GG	AA
rs72551351	UGT1A1 G354A	GG	AA
rs72551341	UGT1A1 L175G	AA	TT
rs1544410	VDR VDR:BsmI	TT	CC



Methylation & Methionine/Homocysteine Pathways



Methylation & Methionine/Homocysteine Pathways

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs72547575	ALDH3A2 A1157G	GG	AA
rs72547566	ALDH3A2 C13996T	TT	--
rs1800869	ALDH3A2 C17571G	GG	--
rs72547564	ALDH3A2 G641A	AA	GG
rs1799807	BCHE A98G	CC	--
rs6875201	BHMT A7961G	GG	AA
rs16876512	BHMT C-448T	TT	CC
rs3733890	BHMT R239Q	AA	GG
rs567754	BHMT-02 C13813T	TT	TC
rs2851391	CBS A13637G	CC	TT
rs1801181	CBS A360A	AA	AG
rs706209	CBS C*351T	AA	AG
rs4920037	CBS C19150T	AA	GG
rs234706	CBS C699T	AA	GG
rs12613	CBS G*299A	TT	CC
rs2272306	CSAD C25411T	AA	GG
rs1145920	CTH A11886G	GG	AG
rs515064	CTH A32114G	GG	--
rs663649	CTH G25229T	TT	GG
rs10889869	CTH G6010A	AA	GG
rs1021737	CTH S4031I	TT	GG
rs681475	CTH T8763C	CC	TT
rs1650697	DHFR/MSH T-473A	GG	GG
rs2253262	DMGDH T372G	CC	CC
rs2071010	FOLR1 G-20A	AA	AA
rs7925545	FOLR3 A3771G	GG	AA
rs7926875	FOLR3 C7672A	AA	CC
rs17851582	GAMT C9110T	AA	AG
rs55776826	GAMT G7497A	TT	--
rs2273684	GSS A18836C	GG	TT
rs6088659	GSS A5997G	CC	CC
rs28936396	GSS C373T	AA	GG
rs6060124	GSS G11705T	AA	AC
rs2993763	MAT1A C1131T	AA	AG
rs4934028	MAT1A C15656T	AA	AG
rs72558181	MAT1A G19502A	TT	CC
rs1985908	MAT1A T*1297C	GG	GG
rs2028900	MAT2A C6635T	TT	TC
rs4869089	MAT2B A7755681G	GG	AG
rs1076991	MTHFD1 C105T	CC	--



Methylation & Methionine/Homocysteine Pathways

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2236225	MTHFD1 R635Q	AA	AG
rs803422	MTHFD1L A33780G	GG	AG
rs11754661	MTHFD1L G25264A	AA	GG
rs17349743	MTHFD1L T31397C	CC	TC
rs1667627	MTHFD2 C8503T	TT	--
rs2066470	MTHFR 03 P39P	AA	GG
rs4846049	MTHFR A*372C	GG	--
rs1801131	MTHFR A1298C	GG	TT
rs17367504	MTHFR A1572G	GG	AA
rs3737964	MTHFR A4117C	CC	CC
rs13306561	MTHFR A4598G	AA	AA
rs13306560	MTHFR C-137T	TT	CC
rs17037390	MTHFR C10318T	AA	GG
rs4846048	MTHFR C24909T	AA	AA
rs1801133	MTHFR C677T	AA	GG
rs17037396	MTHFR C841T	TT	CC
rs12121543	MTHFR G16490T	AA	--
rs2274976	MTHFR G1793A (R594Q)	TT	CC
rs1476413	MTHFR G18861A	TT	CC
rs6495446	MTHFS - ST20 MTHFS G39646A	TT	TC
rs2733103	MTHFS - ST20 MTHFS G56057A	TT	TC
rs2853522	MTR A*112C	AA	AC
rs2853523	MTR A*1254C	AA	AC
rs1050993	MTR A*1361G	AA	AG
rs11799670	MTR A*153G	GG	AG
rs1805087	MTR A2756G	GG	AG
rs2789352	MTR A50417C	CC	AC
rs10925257	MTR A92580G	GG	AG
rs7526063	MTR C18418T	TT	CC
rs2275568	MTR C62048T	TT	CC
rs3820571	MTR G106853T	TT	TG
rs2275565	MTR G95096T	TT	TG
rs1770449	MTR T84581C	CC	TC
rs10925235	MTR T9195C	CC	--
rs1802059	MTRR -11 A664A	AA	AA
rs1801394	MTRR A66G	GG	AG
rs3776455	MTRR C32295T	TT	TT



Methylation & Methionine/Homocysteine Pathways

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1532268	MTRR C524T	TT	TT
rs9332	MTRR G*541A	AA	GG
rs2287779	MTRR G1155A	AA	GG
rs3776467	MTRR G12099A	AA	AG
rs7703033	MTRR G15734A	AA	GG
rs162049	MTRR G28905A	GG	AA
rs10380	MTRR H595Y	TT	CC
rs162036	MTRR K350A	GG	AA
rs2287780	MTRR R415T	TT	CC
rs8659	MTRR T*662A	AA	--
rs162031	MTRR T16071C	CC	CC
rs7298903	NOS1 A57373G	CC	--
rs2293054	NOS1 T2202C	GG	GG
rs2297518	NOS2 C1823T	AA	GG
rs2248814	NOS2 T32235C	GG	--
rs2274894	NOS2 T836165G	GG	--
rs1800783	NOS3 A6251T	TT	--
rs7830	NOS3 G10T	TT	GG
rs1800779	NOS3 G6797A	AA	AA
rs7946	PEMT G634A	TT	TT
rs4244593	PEMT T17023592G	GG	TG
rs9909104	SHMT1 A23836G	TT	TT
rs1979277	SHMT1 C1420T	AA	--
rs3788200	SLC19A1 (THTR2) T10815C	GG	--
rs4149452	SULT2A1 G17136A	TT	CC
rs2547231	SULT2A1 G9598T	AA	AC
rs4149449	SULT2A1 G9696A	TT	TC
rs526934	TCN1 G4939288A	AA	AG
rs9606756	TCN2 A8700G	GG	AG
rs1801198	TCN2 C766G	CC	GG
rs502396	TYMS C6633T	CC	CC



Mitochondrial Function



Mitochondrial Function

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4767939	ALDH2 A7550G	GG	AA
rs4648328	ALDH2 C23443T	TT	CC
rs4646778	ALDH2 C36438A	AA	CC
rs16941667	ALDH2 C45068T	TT	CC
rs671	ALDH2 G1369A	AA	GG
rs2238152	ALDH2 G15114T	TT	--
rs2238151	ALDH2 T12488C	CC	CC
rs968529	ALDH2 T35023C	CC	CC
rs72547575	ALDH3A2 A1157G	GG	AA
rs72547566	ALDH3A2 C13996T	TT	--
rs1800869	ALDH3A2 C17571G	GG	--
rs72547564	ALDH3A2 G641A	AA	GG
rs1244422	ATP5c1 7838932C>T	CC	TT
rs2253262	DMGDH T372G	CC	CC
rs17851582	GAMT C9110T	AA	AG
rs55776826	GAMT G7497A	TT	--
rs3783642	GCH1 A14340G	CC	TT
rs3783641	GCH1 A14404T	AA	TT
rs4411417	GCH1 A53980G	CC	--
rs8007267	GCH1 C36378991T	TT	CC
rs2878168	GCH1 C53758T	AA	GG
rs3783637	GCH1 G26425A	TT	CC
rs9671371	GCH1 G45908A	CC	--
rs10483639	GCH1 G55306457C	CC	GG
rs752688	GCH1 G62974A	TT	--
rs8004018	GCH1 T23847C	GG	AA
rs2273684	GSS A18836C	GG	TT
rs6088659	GSS A5997G	CC	CC
rs28936396	GSS C373T	AA	GG
rs6060124	GSS G11705T	AA	AC
rs2993763	MAT1A C1131T	AA	AG
rs4934028	MAT1A C15656T	AA	AG
rs72558181	MAT1A G19502A	TT	CC
rs1985908	MAT1A T*1297C	GG	GG
rs2028900	MAT2A C6635T	TT	TC
rs4869089	MAT2B A7755681G	GG	AG
rs1076991	MTHFD1 C105T	CC	--
rs2236225	MTHFD1 R635Q	AA	AG
rs803422	MTHFD1L A33780G	GG	AG



Mitochondrial Function

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs11754661	MTHFD1L G25264A	AA	GG
rs17349743	MTHFD1L T31397C	CC	TC
rs1667627	MTHFD2 C8503T	TT	--
rs1802059	MTRR -11 A664A	AA	AA
rs1801394	MTRR A66G	GG	AG
rs3776455	MTRR C32295T	TT	TT
rs1532268	MTRR C524T	TT	TT
rs9332	MTRR G*541A	AA	GG
rs2287779	MTRR G1155A	AA	GG
rs3776467	MTRR G12099A	AA	AG
rs7703033	MTRR G15734A	AA	GG
rs162049	MTRR G28905A	GG	AA
rs10380	MTRR H595Y	TT	CC
rs162036	MTRR K350A	GG	AA
rs2287780	MTRR R415T	TT	CC
rs8659	MTRR T*662A	AA	--
rs162031	MTRR T16071C	CC	CC
rs4147730	NDUFS3 9866G>A	AA	--
rs1142530	NDUFS7 Pro23Leu	TT	TC
rs11666067	NDUFS7 Pro355Thr	AA	AC
rs4147776	NDUFS8 5073A>C	CC	AA
rs2075626	NDUFS8 6843T>C	CC	TT
rs7298903	NOS1 A57373G	CC	--
rs2293054	NOS1 T2202C	GG	GG
rs2297518	NOS2 C1823T	AA	GG
rs2248814	NOS2 T32235C	GG	--
rs2274894	NOS2 T836165G	GG	--
rs1800783	NOS3 A6251T	TT	--
rs7830	NOS3 G10T	TT	GG
rs1800779	NOS3 G6797A	AA	AA
rs7946	PEMT G634A	TT	TT
rs4244593	PEMT T17023592G	GG	TG
rs2758331	SOD2 406+816G>T	AA	AC
rs4880	SOD2 V16A	GG	AG
rs2855262	SOD3 489 C>T	CC	TC
rs6497563	UQCRC2 7485C>T	TT	TC



Molybdenum



Molybdenum

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs291593	DPYD 97543752G>A	AA	AG
rs291592	DPYD 97543764CC>T	TT	TC
rs1399291	DPYD 97576922CC>T	TT	TC
rs828054	DPYD 97610026G>T	GG	--
rs11587873	DPYD 97653070CC>T	TT	CC
rs12137711	DPYD 97700589CC>T	TT	CC
rs7548189	DPYD 97867713CC>A	CC	AC
rs3918290	DPYD 97915614CC>T	TT	CC
rs17376848	DPYD 97915624A>G	GG	AA
rs56038477	DPYD 98039419CC>T	TT	CC
rs56293913	DPYD 98039541A>G	GG	AA
rs1801266	DPYD Arg235Trp	AA	GG
rs67376798	DPYD Asp949Val	AA	TT
rs1801265	DPYD CCys29Arg	AA	AG
rs1801159	DPYD Ile543Val	CC	TT
rs55886062	DPYD Ile560Asn	CC	AA
rs2297595	DPYD Met166Val	CC	TC
rs1801158	DPYD Ser534Asn	TT	CC
rs115232898	DPYD Tyr186CCys	CC	--
rs1801160	DPYD Val732Ile	TT	CC
rs1801268	DPYD Val995Phe	AA	CC
rs2301995	ELN 14714G>A	AA	--
rs4717865	ELN 16773G>A	AA	AG
rs2856728	ELN 33356CC>T	TT	TT
rs2528795	ELN 36068T>CC	CC	TC
rs2071307	ELN Gly422Ser	GG	AG
rs41511151	ELN Gly711Asp	AA	GG
rs8020095	GPHN 484734G>A	AA	GG
rs2297385	KCCNQ2 62070966G>A	AA	GG
rs1801475	KCCNQ2 Asn752Thr	TT	GG
rs7785	PNP 12473CC>T	TT	--
rs1049564	PNP Gly51Ser	GG	AA
rs121908008	SUOX Ala265Asp	AA	CC
rs121908007	SUOX Arg217Gln	AA	GG
rs121908009	SUOX Gly530Asp	AA	GG
rs723744	TTR 5747G>T	TT	TG
rs1800458	TTR Gly26Ser	AA	GG
rs76992529	TTR Val142Ile	AA	GG
rs207444	XDH 31563797A>G	AA	GG



Molybdenum

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1884725	XDH 31571786A>G	AA	AG
rs1429376	XDH 31588561A>C	AA	AA
rs185925	XDH 31609993G>A	GG	AG
rs2073316	XDH 31611029G>A	AA	AG
rs206811	XDH 31636915A>G	AA	AG
rs17323225	XDH Ile646Val	CC	TT
rs17011368	XDH Ile703Val	CC	TT



Muscle Fatigue



Muscle Fatigue

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs926938	AMPD1 114697195A>G	AA	GG
rs35859650	AMPD1 Arg421Trp	AA	GG
rs121912682	AMPD1 Arg458His	TT	CC
rs17602729	AMPD1 Gln45Lys	AA	GG
rs61752478	AMPD1 Met343Ile	AA	CC
rs587777394	AMPD2 Asp793Tyr	TT	GG
rs587777392	AMPD2 Glu778Asp	CC	GG
rs3741040	AMPD3 Arg582Cys	TT	CC



Neurotransmitter Pathway: Glutamate & GABA



Neurotransmitter Pathway: Glutamate & GABA

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
	GAD1 (GAD) A48604A	AA	--
rs2241165	GAD1 (GAD) C10180T	TT	TT
rs3828275	GAD1 (GAD) C14541T	TT	TC
rs2241164	GAD1 (GAD) C18360T	TT	TC
rs12185692	GAD1 (GAD) C2627A	AA	--
rs701492	GAD1 (GAD) C34281T	TT	TC
rs769407	GAD1 (GAD) G25509C	CC	--
rs3791878	GAD1 (GAD) G3992T	TT	--
rs3749034	GAD1 (GAD) G5276A	AA	GG
rs2058725	GAD1 (GAD) T21922C	CC	--
rs3791851	GAD1 (GAD) T30473C	CC	--
rs1805398	GAD2 (GAD) G26474809T	TT	GG



Neurotransmitter Pathway: Serotonin & Dopamine



Neurotransmitter Pathway: Serotonin & Dopamine

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs11077820	AANAT C10236T	TT	TC
rs3760138	AANAT G18677AT	TT	--
rs2494732	AKT1 A27890G	CC	--
rs4767939	ALDH2 A7550G	GG	AA
rs4648328	ALDH2 C23443T	TT	CC
rs4646778	ALDH2 C36438A	AA	CC
rs16941667	ALDH2 C45068T	TT	CC
rs671	ALDH2 G1369A	AA	GG
rs2238152	ALDH2 G15114T	TT	--
rs2238151	ALDH2 T12488C	CC	CC
rs968529	ALDH2 T35023C	CC	CC
rs72547575	ALDH3A2 A1157G	GG	AA
rs72547566	ALDH3A2 C13996T	TT	--
rs1800869	ALDH3A2 C17571G	GG	--
rs72547564	ALDH3A2 G641A	AA	GG
rs11599164	ANK3 C666301A	TT	GG
rs10994397	ANK3 G219161A	TT	CC
rs10994336	ANK3 G318473A	TT	CC
rs9804190	ANK3 G658454A	TT	CC
rs1938526	ANK3 T197902C	GG	--
rs10761482	ANK3 T62085337C	CC	CC
rs1800497	ANKK1 E713K	AA	GG
rs216013	CACNA1C A2729632G	GG	AA
rs2159100	CACNA1C C271442T	TT	TC
rs1006737	CACNA1C G115699A	AA	AG
rs2302729	CACNA1C T709021C	CC	TC
rs769224	COMT -61 P199P	AA	GG
rs2239393	COMT A 26166G	GG	AG
rs6269	COMT A-1324G	GG	AG
rs933271	COMT A2953G	TT	TT
rs1544325	COMT A7406G	GG	AG
rs4646316	COMT C27870T	TT	CC
rs174696	COMT C28914T	TT	--
rs174699	COMT C30196T	TT	TT
rs9332377	COMT C31430T	TT	TC
rs8192488	COMT C438T	TT	--
rs165599	COMT G*522A	AA	GG
rs165656	COMT G24601C	CC	GG
rs165774	COMT G28299A	AA	--



Neurotransmitter Pathway: Serotonin & Dopamine

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4633	COMT H62H	TT	CC
rs5993883	COMT T13376G	GG	TG
rs4646312	COMT T24075C	CC	TC
rs740601	COMT T26501G	GG	--
rs4680	COMT V158M	AA	GG
rs2272306	CSAD C25411T	AA	GG
rs1611115	DBH 4031T>C	CC	TC
rs77905	DBH A1410G	AA	AG
rs1108580	DBH A486G	GG	AG
rs1108581	DBH A8757G	GG	AA
rs1611123	DBH C12599T	TT	CC
rs129882	DBH C27185T	TT	TC
rs1611114	DBH C3719T	TT	TC
rs1541332	DBH G15032A	AA	AA
rs3025382	DBH G5837A	AA	GG
rs5320	DBH G631A	AA	GG
rs4531	DBH G952T	TT	GG
rs2519152	DBH T13150C	CC	--
rs2519154	DBH T15791C	CC	CC
rs2797853	DBH T16031C	GG	--
rs2097628	DBH T2145C	AA	AG
rs2007153	DBH T7335C	CC	TC
rs2873804	DBH T9160C	CC	TT
rs3779084	DDC A158104G	GG	--
rs880028	DDC A159505G	AA	--
rs1451371	DDC A85104G	CC	--
rs3735273	DDC C186233T	TT	--
rs2242041	DDC G108706C	GG	--
rs11575542	DDC G1385A	TT	--
rs1451375	DDC G15443T	AA	AC
rs998850	DDC G196757C	CC	--
rs2167364	DDC T155196C	TT	TC
rs732215	DDC T94092G	CC	--
rs1650697	DHFR/MSH T-473A	GG	GG
rs251937	DRD1 A9244G	CC	TT
rs686	DRD1 C7464T	AA	GG
rs5326	DRD1 G5968A	TT	CC
rs4532	DRD1 G6014A	TT	CC
rs265981	DRD1 T5262C	GG	AA
rs4245146	DRD2 A33029G	CC	TT



Neurotransmitter Pathway: Serotonin & Dopamine

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4648318	DRD2 A37613G	CC	CC
rs1799978	DRD2 A4651G	CC	TT
rs1125394	DRD2 A53817G	CC	--
rs1079727	DRD2 A61820G	CC	--
rs2440390	DRD2 A64124G	CC	--
rs10891549	DRD2 A72555G	CC	TT
rs4938019	DRD2 A9611G	CC	--
rs4648317	DRD2 C19470T	AA	GG
rs17529477	DRD2 C33935T	AA	GG
rs4620755	DRD2 C41383T	AA	AA
rs2242592	DRD2 C71572T	AA	GG
rs2234689	DRD2 C72519G	CC	--
rs6277	DRD2 C957T	AA	--
rs4581480	DRD2 G26528A	TT	--
rs7125415	DRD2 G40321A	TT	TT
rs4436578	DRD2 G44237A	TT	--
rs2471857	DRD2 G52663A	TT	CC
rs1079596	DRD2 G54383A	TT	CC
rs1079597	DRD2 G54716A	TT	CC
rs2283265	DRD2 G65466T	AA	--
rs7131056	DRD2 T21228G	CC	AA
rs12364283	DRD2 T4047C	GG	AA
rs1076563	DRD2 T55093G	CC	--
rs2734838	DRD2 T64501C	GG	AA
rs6275	DRD2 T852C	AA	AA
rs167771	DRD3 C26625T	AA	AA
rs963468	DRD3 C40013T	AA	AG
rs9828046	DRD3 C44637T	AA	GG
rs10934256	DRD3 G17248T	AA	--
rs1394016	DRD3 G20405035A	GG	GG
rs6280	DRD3 G25A	TT	TT
rs1486009	DRD3 T14368C	GG	AA
rs324029	DRD3 T21277C	GG	GG
rs9825563	DRD3 T2680C	AA	AA
rs3773678	DRD3 T32822C	GG	GG
rs9288993	DRD3 T43727C	GG	AA
rs916457	DRD4 C4710T	TT	--
rs752306	DRD4 C5318T	TT	CC
rs3758653	DRD4 T4095C	CC	TT
rs1800443	DRD4 T581G	GG	--



Neurotransmitter Pathway: Serotonin & Dopamine

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs3783642	GCH1 A14340G	CC	TT
rs3783641	GCH1 A14404T	AA	TT
rs4411417	GCH1 A53980G	CC	--
rs8007267	GCH1 C36378991T	TT	CC
rs2878168	GCH1 C53758T	AA	GG
rs3783637	GCH1 G26425A	TT	CC
rs9671371	GCH1 G45908A	CC	--
rs10483639	GCH1 G55306457C	CC	GG
rs752688	GCH1 G62974A	TT	--
rs8004018	GCH1 T23847C	GG	AA
rs5906957	MAOA A36902G	GG	GG
rs2235186	MAOA A85020G	GG	GG
rs909525	MAOA C42794T	TT	TT
rs5953210	MAOA G3638A	AA	AA
rs6323	MAOA R297R/G492T/T941G	TT	TT
rs1137070	MAOA T1011C/1460C	CC	CC
rs2072743	MAOA T89113C	CC	--
rs1799836	MAOB A118723G	CC	TT
rs10521432	MAOB C112982T	GG	AA
rs6651806	MAOB T57758G	AA	CC
rs7298903	NOS1 A57373G	CC	--
rs2293054	NOS1 T2202C	GG	GG
rs2297518	NOS2 C1823T	AA	GG
rs2248814	NOS2 T32235C	GG	--
rs2274894	NOS2 T836165G	GG	--
rs1800783	NOS3 A6251T	TT	--
rs7830	NOS3 G10T	TT	GG
rs1800779	NOS3 G6797A	AA	AA
rs5030853	PAH A300S	AA	CC
rs5030857	PAH A403V	AA	GG
rs3817446	PAH A55562G	CC	TT
rs2037639	PAH C45031T	AA	GG
rs1718301	PAH C45188T	AA	--
rs2245360	PAH C81837T	AA	AG
rs1801153	PAH G*187A	TT	CC
rs772897	PAH G1155C	GG	--
rs1722392	PAH G37636A	TT	TC
rs1042503	PAH G735A	TT	CC
rs5030855	PAH IVS10-11G>A	TT	CC



Neurotransmitter Pathway: Serotonin & Dopamine

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs5030861	PAH IVS12+1G>A	TT	CC
rs5030841	PAH L48S	GG	AA
rs5030858	PAH R408W	AA	GG
rs1522307	PAH T17864C	GG	AG
rs10778209	PAH T32409C	GG	GG
rs7946	PEMT G634A	TT	TT
rs4244593	PEMT T17023592G	GG	TG
rs55568	SLC6A2 A45583C	CC	AC
rs168924	SLC6A2 A5003G	GG	AA
rs3785143	SLC6A2 C10565T	TT	--
rs36020	SLC6A2 C28547T	TT	CC
rs3785157	SLC6A2 C45295T	TT	CC
rs36009	SLC6A2 C48079T	TT	TC
rs2242447	SLC6A2 C51371T	TT	TC
rs2242446	SLC6A2 C5884T	TT	TT
rs1532701	SLC6A2 G13486A	AA	--
rs40147	SLC6A2 G32299A	AA	AG
rs1566652	SLC6A2 G47034T	TT	--
rs998424	SLC6A2 G47405A	AA	--
rs3785152	SLC6A2 T32009C	CC	CC
rs1800887	SLC6A2 T49048C	CC	TT
rs6347	SLC6A3 A39132G	CC	TT
rs2617605	SLC6A3 A8023G	CC	TC
rs460000	SLC6A3 C17719T	TT	GG
rs6350	SLC6A3 C7345T	AA	GG
rs27048	SLC6A3 G37899A	TT	TC
rs11133767	SLC6A3 G48964A	TT	--
rs40184	SLC6A3 G55467A	TT	TC
rs27072	SLC6A3 G56022A	TT	TC
rs403636	SLC6A3 T12190G	CC	AC
rs464049	SLC6A3 T26639C	GG	AG
rs1042098	SLC6A3 T55729C	GG	--
rs28934581	TH A733C	GG	TT
rs28934580	TH G1010A/R337H	TT	CC
rs2070762	TH T1090C	GG	GG
rs6356	TH V112M	TT	TC



Other Immune Factors



Other Immune Factors

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6822844	4q27 Region 123509421G>T	TT	GG
rs429358	APOE ApoE epsilon 4	CC	--
rs10210302	ATG16L1 C234158839T	CC	TC
rs2253262	DMGDH T372G	CC	CC
rs17851582	GAMT C9110T	AA	AG
rs55776826	GAMT G7497A	TT	--
rs7216389	GSDMB 38069949C>T	TT	TC
rs660895	HLA-DRB1 4028086A>G	GG	AA
rs20541	IL-13 Gln144Arg	GG	GG
rs1801275	IL4R Q576R Gln576Arg	GG	AA
rs2069812	IL5 A131879916G	GG	GG
rs28940578	MeFV M694I Met694Ile	TT	CC
rs10181656	STAT4 51047C>G	CC	--
rs361525	TNF -238 4752G>A	AA	GG
rs1800629	TNF -308 4682G>A	AA	GG



Pentose Phosphate Pathway



Pentose Phosphate Pathway

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs6702820	DDR2 A162603881G	GG	AA
rs10494373	DDR2 A162619362C	CC	AA
rs2684866	DDR2 A162726281C	CC	--
rs1780007	DDR2 A162748025C	CC	AC
rs10799854	DDR2 C162619828T	TT	TT
rs12044481	DDR2 G162635875A	AA	GG
rs7553831	DDR2 T162661011G	GG	GG
rs4559477	DDR2 T162681151G	GG	GG
rs1650697	DHFR/MSH T-473A	GG	GG
rs4129219	FBP1 T97390288C	CC	TT
rs762515	G6PD A16260G	CC	TT
rs1050829	G6PD A376G	CC	TT
rs5986990	G6PD G153761628A	AA	GG
rs2230036	G6PD Q402Q	TT	--
rs72554664	G6PD R493H	TT	CC
rs1050828	G6PD V98M	TT	CC
rs2268169	H6PD G9321241A	AA	AA
rs6688832	H6PD G9323910A	AA	AG
rs17368528	H6PD P554L	TT	TC
rs9434742	H6PD Y673Y	TT	CC
rs1076991	MTHFD1 C105T	CC	--
rs2236225	MTHFD1 R635Q	AA	AG
rs803422	MTHFD1L A33780G	GG	AG
rs11754661	MTHFD1L G25264A	AA	GG
rs17349743	MTHFD1L T31397C	CC	TC
rs1667627	MTHFD2 C8503T	TT	--
rs6495446	MTHFS - ST20 MTHFS G39646A	TT	TC
rs2733103	MTHFS - ST20 MTHFS G56057A	TT	TC
rs855315	PGM1 A64069612G	GG	AG
rs4643	PGM1 A64125439C	CC	AA
rs2269260	PGM1 G64085337A	AA	GG
rs2269241	PGM1 T64108771C	CC	TT
rs7768030	PHACTR1 12822973A>C	CC	AA
rs9369640	PHACTR1 12901441C>A	CC	AA
rs9349379	PHACTR1 12903957A>G	GG	AA
rs4715166	PHACTR1 13216058A>G	GG	GG



Pentose Phosphate Pathway

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs202072	PHACTR1 13268211A>G	GG	GG
rs7062536	PRPS2 G12839152A	AA	GG
rs4666014	RBKS G28019175A	AA	AG
rs4666020	RBKS G28046028A	AA	GG
rs3895063	TALDO1 G755659A	AA	--
rs4687718	TKT A53282303G	GG	AG
rs11130362	TKT C53265766T	TT	TC
rs4687717	TKT T53282188C	CC	CC
rs766419	TKTL1 A35635G	GG	AA
rs2872817	TKTL1 A39392G	GG	AA
rs766420	TKTL1 C35378G	GG	CC



Sulfite/Sulfate/Oxalate Transport



Sulfite/Sulfate/Oxalate Transport

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs118204448	GALNS Ala291Ser	TT	--
rs118204442	GALNS Arg259Gln	TT	CC
rs118204437	GALNS Arg386Cys	AA	GG
rs118204441	GALNS Arg94Cys	GG	GG
rs118204447	GALNS Asp60Asn	TT	CC
rs118204443	GALNS Gly301Cys	AA	CC
rs118204438	GALNS Ile113Phe	TT	TT
rs118204445	GALNS Phe69Val	CC	AA
rs118204444	GALNS Ser162Phe	AA	GG
rs118204446	GALNS Thr312Ser	GG	GG
rs118204449	GALNS Trp230Ter	TT	CC
rs119461974	GNS Arg355Ter	AA	GG
rs119461975	GNS Gln390Ter	AA	GG
rs193066451	HGSNAT 23597G>A	AA	GG
rs121908285	HGSNAT Arg344Cys	TT	CC
rs121908283	HGSNAT Leu321Ter	GG	TT
rs121908284	HGSNAT Met482Lys	AA	TT
rs121908282	HGSNAT Pro283Leu	TT	CC
rs121908286	HGSNAT Ser518Phe	TT	CC
rs199422229	IDS Cys422Gly	CC	AA
rs199422230	IDS Trp475Ter	TT	CC
rs199422228	IDS Trp502Ser	CC	CC
rs121965020	IDUA Gln70Ter	TT	CC
rs121965027	IDUA Leu490Pro	CC	--
rs121965032	IDUA Thr364Met	TT	CC
rs121965019	IDUA Trp402Ter	AA	GG
rs138504221	SGSH Ser298Pro	GG	AA



Thiamin/Thiamine Degradation



Thiamin/Thiamine Degradation

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs975508	ATP8A2 (ATP) A7545586G	GG	GG
rs912514	ATP8A2 (ATP) C7524369T	TT	TT
rs6491066	ATP8A2 (ATP) F561F	TT	TC
rs3117849	ATP8A2 (ATP) G7279179A	AA	GG
rs7320729	ATP8A2 (ATP) T7044148C	CC	TT
rs3783139	ATP8A2 (ATP) T7520642C	CC	TT
rs480575	CAT A12175G	GG	AG
rs11032703	CAT C14185T	TT	--
rs2300181	CAT C21068T	TT	TC
rs2297810	CYP4B1 M332I	AA	AG
rs4646487	CYP4B1 R173W	TT	CC
rs2297809	CYP4B1 R376C	TT	TC
rs762515	G6PD A16260G	CC	TT
rs1050829	G6PD A376G	CC	TT
rs5986990	G6PD G153761628A	AA	GG
rs2472394	G6PD G9437T	AA	CC
rs2230036	G6PD Q402Q	TT	--
rs72554664	G6PD R493H	TT	CC
rs1050828	G6PD V98M	TT	CC
rs769395	GAD1 (GAD) A48604A	AA	AG
rs2241165	GAD1 (GAD) C10180T	TT	TT
rs3828275	GAD1 (GAD) C14541T	TT	TC
rs2241164	GAD1 (GAD) C18360T	TT	TC
rs12185692	GAD1 (GAD) C2627A	AA	--
rs701492	GAD1 (GAD) C34281T	TT	TC
rs769407	GAD1 (GAD) G25509C	CC	--
rs3791878	GAD1 (GAD) G3992T	TT	--
rs3749034	GAD1 (GAD) G5276A	AA	GG
rs2058725	GAD1 (GAD) T21922C	CC	--
rs3791851	GAD1 (GAD) T30473C	CC	--
rs2236418	GAD2 (GAD) A26505496G	GG	GG
rs8190646	GAD2 (GAD) A26520507G	GG	AA
rs1330581	GAD2 (GAD) A26528835G	GG	GG
rs8190612	GAD2 (GAD) C26512375T	TT	CC



Thiamin/Thiamine Degradation

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs1805398	GAD2 (GAD) G26474809T	TT	GG
rs12009	HSPA5 (GRP78) C11364T	AA	GG
rs430397	HSPA5 (GRP78) G7548A	TT	--
rs2066786	RFC1 P848P	CC	CC
rs6844176	RFC1 T39366590C	CC	CC
rs6851075	RFC1 T39367654C	CC	TT
rs35786590	SLC19A1 A518V	AA	--
rs4818789	SLC19A1 C18559A	TT	TT
rs3788190	SLC19A1 C30428T	AA	GG
rs1051298	SLC19A1 C32560T	AA	GG
rs2330183	SLC19A1 G14094A	TT	--
rs4819130	SLC19A1 G9087A	TT	--
rs1051266	SLC19A1 H27R	CC	CC
rs12659	SLC19A1 P192P	AA	GG
rs1051296	SLC19A1 T32525G	CC	AA
rs3788200	SLC19A1 (THTR2) T10815C	GG	--
rs6656822	SLC19A2 A23663G	CC	CC
rs12185721	SLC19A3 L252L	TT	--
rs2156310	TFF1 G781047A	AA	AG
rs4687718	TKT A53282303G	GG	AG
rs11130362	TKT C53265766T	TT	TC
rs4687717	TKT T53282188C	CC	CC
rs766419	TKTL1 A35635G	GG	AA
rs2872817	TKTL1 A39392G	GG	AA
rs766420	TKTL1 C35378G	GG	CC
rs969356	TPK1 C364824T	AA	GG



Thyroid.1



Thyroid.1

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs231775	CTLA4 Thr17Ala	GG	AA
rs1867277	FOXE1 5378A>G	GG	--
rs10984009	FOXE1 8124G>A	AA	GG



Trans-Sulfuration Pathway



Trans-Sulfuration Pathway

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs2851391	CBS A13637G	CC	TT
rs1801181	CBS A360A	AA	AG
rs706209	CBS C*351T	AA	AG
rs4920037	CBS C19150T	AA	GG
rs234706	CBS C699T	AA	GG
rs12613	CBS G*299A	TT	CC
rs2272306	CSAD C25411T	AA	GG
rs1145920	CTH A11886G	GG	AG
rs515064	CTH A32114G	GG	--
rs663649	CTH G25229T	TT	GG
rs10889869	CTH G6010A	AA	GG
rs1021737	CTH S4031I	TT	GG
rs681475	CTH T8763C	CC	TT
rs2273684	GSS A18836C	GG	TT
rs6088659	GSS A5997G	CC	CC
rs28936396	GSS C373T	AA	GG
rs6060124	GSS G11705T	AA	AC
rs6495446	MTHFS - ST20 MTHFS G39646A	TT	TC
rs2733103	MTHFS - ST20 MTHFS G56057A	TT	TC
rs4149452	SULT2A1 G17136A	TT	CC
rs2547231	SULT2A1 G9598T	AA	AC
rs4149449	SULT2A1 G9696A	TT	TC



Yeast/Alcohol Metabolism



Yeast/Alcohol Metabolism

SNP RSID	SNP NAME	RISK ALLELE	GENOTYPE
rs4767939	ALDH2 A7550G	GG	AA
rs4648328	ALDH2 C23443T	TT	CC
rs4646778	ALDH2 C36438A	AA	CC
rs16941667	ALDH2 C45068T	TT	CC
rs671	ALDH2 G1369A	AA	GG
rs2238152	ALDH2 G15114T	TT	--
rs2238151	ALDH2 T12488C	CC	CC
rs968529	ALDH2 T35023C	CC	CC
rs72547575	ALDH3A2 A1157G	GG	AA
rs72547566	ALDH3A2 C13996T	TT	--
rs1800869	ALDH3A2 C17571G	GG	--
rs72547564	ALDH3A2 G641A	AA	GG

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