NutraHacker

Detox and Methylation Mutation Report for Customer: 03df123f-5d4b-4665-8d72-01f83745eab7

Instructions:

This FREE NutraHacker report contains detox and methylation mutations (single nucleotide polymorphisms) in this uploaded genome. Genes not reported in this report are either normal, not actionable, available only in the paid service offered by NutraHacker, or are not currently detected by NutraHacker. The expected allele is the one seen in a normally functioning gene. The high risk alleles reported are the ones measured from the uploaded genome. NutraHacker reports the effects of these mutations as discovered by published empirical data and suggests nutritional supplements that can mitigate potential issues caused by these mutations.

This report is meant to serve as a guide for nutritional supplementation for the owner of the genome and is not applicable to any other individual. Supplement quantities and dosages are not included as they are indicated on the purchased product. Multiple recommendations for the same supplement does not mean that the dosage should be multiplied. In the case of a conflict (such as a particular vitamin being both encouraged and discouraged), the owner of the genome should assess his/her own personal biology to decide whether to include or discard that particular supplement.

NOTICE:

State law allows any person to provide nutritional advice or give advice concerning proper nutrition--which is the giving of advice as to the role of food and food ingredients, including dietary supplements. This state law does NOT confer authority to practice medicine or to undertake the diagnosis, prevention, treatment, or cure of any disease, pain, deformity, injury, or physical or mental condition and specifically does not authorize any person other than one who is a licensed health practitioner to state that any product might cure any disease, disorder, or condition.

NutraHacker reports are for scientific, educational and nutritional information only and are not intended to diagnose, cure, treat or prevent any disease, disorder or condition.

Thank you for using NutraHacker. To your health!

Gender of customer: Male

A total of 17 mutations were detected at this time for your genome out of the 58 polymorphisms assessed.

There were 2 homozygous mutations.

There was 1 sex-linked mutation.

There were 14 heterozygous mutations.

Please continue to the next page to begin your discovery process.

Category	RSID	Gene	Expected	Genotype: Risk	Genotype Freq	Gene Function	Consequences	Encourage	Avoid
Detoxification	rs762551	CYP1A2	А	AC: 1/2	46.8902%	Hydroxylation or dealkylation of	Slow to metabolize caffeine, Main	Induce with broccoli,	Curcumin, Cumin,
						xenobiotics, Phase I, metabolize	liver pathway	Cabbage,	Grapefruit
						E2 to 2-hydroxyestradiol		Diindolylmethane,	
								Glucarate, NAC,	
								Cardamom,	
								Sulforaphane	
Detoxification	rs4986910	CYP3A4	А	AG: 1/2	1.21580%	Detoxifies prescription drugs and	CYP3A4*3 variant		Quercetin, Bioperine,
						most steroid hormones			Grapefruit, Milk thistle
Detoxification	rs1695	GSTP1	G	AA: 2/2	48.1693%	Conjugation toxins to glutathione	Persons having the alleles AA or	NAC, Whey	Vitamin E
							AG had an increase in		
							inflammatory interleukin-6 (IL-6)		
							upon supplementing		
							alpha-tocopherol (the most		
							common form of Vitamin E in a		
							North American diet) while those		
							with GG saw a decrease.		
Detoxification	rs1208	NAT2	А	AG: 1/2	47.2515%	This gene encodes an enzyme	Fast metabolizer	NAC, Vitamin B2,	
						that functions to both activate and		Vitamin B3, Vitamin	
						deactivate arylamine and		B5, Molybdenum	
						hydrazine drugs and carcinogens.			
Detoxification	rs1799930	NAT2	G	AG: 1/2	38.4846%	This gene encodes an enzyme	Slow metabolizer	NAC, Vitamin B2,	
						that functions to both activate and		Vitamin B3, Vitamin	
						deactivate arylamine and		B5, Molybdenum	
						hydrazine drugs and carcinogens.			
Detoxification	rs1801280	NAT2	Т	CT: 1/2	46.1933%	This gene encodes an enzyme	Decreased activity	NAC, Vitamin B2,	
						that functions to both activate and		Vitamin B3, Vitamin	
						deactivate arylamine and		B5, Molybdenum	
						hydrazine drugs and carcinogens.			
Neurotransmitter	rs6323	MAO-A	G	T: 1/1	N/A	Oxidizes serotonin, dopamine,	Lower expression of MAO A	Progesterone	Curcumin, Estrogens,
Levels]	epinephrine, norepinephrine			Androgens
Folate One-Carbon	rs3741049	ACAT1	G	AG: 1/2	25.7338%	Forms cholesterol esters from	3-ketothiolase deficiency,	Probiotics, Vitamin	Cholesterol
Metabolism /						cholesterol	depletes B12	B12, Low fat diet	
Methylation (FOCM)									

Category	RSID	Gene	Expected	Genotype: Risk	Genotype Freq	Gene Function	Consequences	Encourage	Avoid
Folate One-Carbon	rs651852	BHMT08	Т	CT: 1/2	48.0752%	Methylates homocysteine to	Downregulation	Phosphatidylcholine,	
Metabolism /						methionine		TMG,	
Methylation (FOCM)								Phosphatidylserine,	
								Zinc	
Folate One-Carbon	rs234706	CBS	G	AG: 1/2	39.9436%	Adds I-serine to homocysteine to	Increased responsiveness to	Vitamin B6	
Metabolism /						produce I-cystathionine	homocysteine-lowering effects of		
Methylation (FOCM)							folic acid. Marginally increased		
, ,							disposal of homocysteine.		
Folate One-Carbon	rs1801131	MTHFR	А	GT: 1/2	0.06720%	Converts folic acid to	Low BH4, excess ammonia, low	L-methylfolate,	Folinic acid, Folate
Metabolism /						5-methyltetrahydrofolate	nitric oxide, does NOT lead to	Vitamin B3,	
Methylation (FOCM)							high homocysteine, however high	Potassium, Ornithine,	
							superoxide	Vitamin B6, Vitamin	
								B12, Vitamin C,	
								Rooibos, Manganese	
Folate One-Carbon	rs1805087	MTR	А	AG: 1/2	34.2065%	Converts homocysteine into	Upregulation that can deplete	Methyl B12,	
Metabolism /						methionine	methyl-b12.	L-methylfolate,	
Methylation (FOCM)								Lithium orotate,	
								Grapeseed extract	
Folate One-Carbon	rs1801394	MTRR	А	GG: 2/2	19.7362%	Methylates, recycles vitamin b12	Poor methylation of Vitamin B12	Methyl B12,	
Metabolism /							leading to higher homocysteine	L-methylfolate	
Methylation (FOCM)							levels.		
Folate One-Carbon	rs1802059	MTRR	G	AG: 1/2	42.7445%	Methylates, recycles vitamin b12	Less active enzyme	Methyl B12	
Metabolism /									
Methylation (FOCM)									
HPA axis / Endocrine	rs1544410	VDR	G	CT: 1/2	42.7506%	Vitamin D Receptor	Downregulated Vitamin D	Vitamin D3, Sage,	Methyl donors
					1		receptor	Rosemary	
HPA axis / Endocrine	rs731236	VDR	Α	AG: 1/2	43.3464%	Vitamin D Receptor	Downregulated Vitamin D	Vitamin D3, Sage,	Methyl donors
					1		receptor, can affect dopamine	Rosemary	
							levels		

Category	RSID	Gene	Expected	Genotype: Risk	Genotype Freq	Gene Function	Consequences	Encourage	Avoid
Energy / Oxidation	rs4880	SOD2	А	AG: 1/2	48.9123%	Mitochondrial Superoxide	Decreased gene function. Noise	Manganese, Vitamin	Alcohol, Noise
						Dismutase 2	induced hearing loss, rs10370	E in tocotrienol form	(greater chance for
							'TT', rs4880 'GG' diplo-genotype		hearing loss)
							(diplotype) was associated with		
							more gray matter shrinkage in 76		
							individuals who report chronic		
							high levels of alcohol		
							consumption.		