

Vitamins

Nutrient	rs ID	Mutated Gene
Vitamin A (All trans Retinol)	rs11645428	BCMO1
	rs7501331	BCO1
	rs12934922	BCO1
	rs6564851	BCMO1
	rs1667255	TTR
Vitamin A (Beta carotene)	rs11645428	BCMO1
Vitamin B1 (Thiamine diphosphate)	rs17514104	SLC35F3
Vitamin B2 (Riboflavin 5-phosphate)	rs1799983	NOS3
	rs778479139	SLC52A3
Vitamin B3 (Nicotinic Acid)		
Vitamin B5 (Pantothenic Acid)		
Vitamin B6 (Pyridoxal 5-phosphate)		
Vitamin B7 (Biotin)	rs13078881	BTD
Vitamin B9 (Folate)	rs1801133	MTHFR
	rs1801131	MTHFR
Vitamin B12 (Cyanocobalamin)	rs602662	FUT2
	rs492602	FUT2
	rs526934	TCN1
Vitamin C (L-Ascorbic acid)	rs33972313	SLC23A1
	rs4257763	SLC23A1
	rs6596473	SLC23A1
	rs6139591	SLC23A2
Vitamin D.25-OH	rs12785878	NADSYN1
	rs10741657	CYP2R1
	rs2282679	GC
1.25-dihydroxyvitamin D	rs4588	VDR
Vitamin D2 (Ergocalciferol)	rs10766197	CYP2R1
Vitamin D3 (Cholecalciferol)	rs10877012	CYP27B1
Vitamin E (l-tocopherol)	rs12272004	APOA5
Vitamin K1 (Phylloquinone)Vit	rs2108622	CYP4F2
Vitamin K2 (Menaquinone-MK-7)		

Fatty Acids

Nutrient
DHA (Docosahexaenoic acid)
EPA (Eicosapentaenoic acid)
DPA (Docosapentaenoic acid)
AA (Arachidonic acid)
LA (Linoleic acid)
Omega-3 Total
Omega-6 Total
Omega-3 index

Minerals

Nutrient	rs ID	Mutated Gene
Sodium	rs2304478	SLC12A3
	rs7204044	SLC12A3
Potassium	rs4343	ACE
Calcium, Ca 44	rs4516035	VDR
Zinc, Zn 67	rs11126936	SLC30A3
Selenium, Se 76	rs11126936	GPX1
	rs3877899	SEPP1
Molybdenum	rs594445	MOCOS
Tetrahydrobiopterin	rs5030853	PAH
	rs8007267	GCH1
Iodine	rs225014	DIO2
Fluoride	rs4284505	ESR1
Phosphorus	rs4074995	RGS14
Iron, Fe 56	rs855791	TMPRSS6
	rs4820268	TMPRSS6
	rs3811647	TF
	rs1800562	HFE
	rs1799945	HFE
Manganese, MN 55	rs13107325	SLC39A8
Magnesium, Mg 24	rs4680	COMT
Copper, Cu 63	rs76151636	ATP7B
Chromium, Cr 53		
Myo-Inositol		

Amino Acids

Nutrient	rs ID	Mutated Gene
Coenzyme Q (Ubiquinone+Ubiquinol)	rs775607037	COQ4
	rs786204770	COQ4
Glutathione Oxidized	rs121909307	GSS
	rs1695	GSTP1
Methylmalonic acid (MMA)	rs291466	HICBH
	rs121918252	MUT
Choline	rs3733890	BHMT
	rs7946	PEMT
Phenylalanine	rs5030853	PAH

Amino Acids (Nutrients Only)

L- Cysteine	L-Arginine	L-Leucine
L-Asparagine	L-Citrulline	Free Carnitine
L-Glutamine	L-Isoleucine	
L-Serine	L-Valine	