

Genotype Summary Report: Autoimmune

Created for: **SAMPLE**

[Article: Celiac](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-DQ2.5	rs2187668	T	CC	HLA-DQ2.5 type
HLA-DQ8	rs7454108	C	TT	HLA-DQ8 type, celiac is possible
HLA- DQ	rs4713586	A	--	AA only: DQ2.2 - with below 2 alleles
HLA- DQ	rs2395182	T	--	DQ2.2 with other alleles
HLA- DQ	rs7775228	C	TT	DQ2.2 with other alleles
LPP	rs1464510	A	AC	Increased celiac risk (only with HLA type)
intergenic	rs842647	A	AA	Increased celiac risk (only with HLA type)
LOC105371664	rs2816316	A	AA	Increased celiac risk (only with HLA type)
intergenic	rs917997	T	CC	Increased celiac risk (only with HLA type)
intergenic	rs6441961	T	CC	Increased celiac risk (only with HLA type)
SH2B3	rs3184504	T	TT	Increased celiac risk (only with HLA type)
TAGAP	rs1738074	T	CT	Increased celiac risk (only with HLA type)
FUT2	rs601338	A	AA	Increased risk of celiac (only with HLA type)

[Article: HLA-B27](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA	rs4349859	A	--	Higher likelihood of carrying HLA-B27
Inter-gen	rs13202464	G	AA	Higher likelihood of carrying HLA-B27

[Article: CTLA4](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
CTLA4	rs231775	G	AA	Increased risk of autoimmune diseases
CTLA4	rs3087243	G	AA	Increased risk of autoimmune diseases

[Article: Psoriasis](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-C	rs10484554	T	CC	Increased risk of psoriasis
HLA-C	rs1265181	C	CG	Increased risk of psoriasis
HLA-B*5701	rs2395029	G	TT	Increased risk of psoriasis
IL23	rs11209026	A	GG	Decreased risk of psoriasis
PTPN22	rs1217414	A	GG	AA: increased risk of psoriasis
L12B	rs4085613	T	GG	Increased risk of psoriasis

[Article: Rheumatoid Arthritis](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLADRB1	rs660895	G	AA	High risk for RA
PTPN22	rs2476601	A	GG	Increased risk for RA
TRAF1	rs10818488	A	GG	Increased risk for RA (2-fold)
TRAF1	rs2900180	T	CC	Increased risk for RA
STAT4	rs7574865	T	GT	Increased risk for RA
TNFAIP3	rs6920220	A	AG	Increased risk for RA (2-fold)
CCR6	rs3093024	A	AA	Slightly Increased risk for RA
ANG2	rs12674822	T	GG	Increased risk of RA (2-fold)

[Article: POTS](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
SLC6A2	rs7194256	T	CC	Increased risk of POTS
GNB3	rs5443	T	CC	Increased risk of POTS
NOS3	rs2070744	C	--	CC: Decreased Risk of POTS
ADRB2	rs1042713	A	GG	AA: Increased norepinephrine response

[Article: PTPN22](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
PTPN22	rs2476601	A	GG	Increased risk of autoimmune diseases
PTPN22	rs6679677	A	CC	Increased susceptibility to autoimmune diseases
PTPN22	rs1310182	G	AG	GG only: Increased risk autoimmune diseases

[Article: FMF](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
MEFV	rs61732874	A	--	Familial Mediterranean fever mutation
MEFV	rs3743930	G	CC	Familial Mediterranean fever mutation
MEFV	rs104895083	C	--	Familial Mediterranean fever mutation
MEFV	rs104895094	C	--	Familial Mediterranean fever mutation
MEFV	rs28940580	G	--	Familial Mediterranean fever mutation
MEFV	rs28940578	T	CC	Familial Mediterranean fever mutation
MEFV	rs11466023	A	GG	Familial Mediterranean fever mutation
MEFV	rs104895097	T	--	Familial Mediterranean fever mutation
MEFV	rs28940579	G	AA	Familial Mediterranean fever mutation
MEFV	i4000409	A	CC	Familial Mediterranean fever mutation
MEFV	i4000403	C	GG	Familial Mediterranean fever mutation
MEFV	i4000407	C	TT	Familial Mediterranean fever mutation
MEFV	rs61752717	C	--	Familial Mediterranean fever mutation
MEFV	i4000406	C	TT	Familial Mediterranean fever mutation
MEFV	i4000410	T	CC	Familial Mediterranean fever mutation

[Article: Lupus](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-DQA1	rs2187668	T	CC	HLA-DRB1*0301. 2-fold increase in risk for lupus.
TNXB	rs1150754	T	CC	2-fold increase in lupus risk
TNF	rs1800629	A	GG	Some increase in Lupus risk
TNFAIP3	rs5029939	G	CC	2x Increased risk of lupus
STAT4	rs7574865	T	GT	Increased risk of discoid lupus
STAT4	rs10181656	G	CG	Increased risk of lupus
IRF5	rs3807306	T	GG	Increased risk of lupus
IRF8	rs2280381	C	TT	Decreased risk of lupus
IFIH1	rs1990760	T	CT	Increased risk of lupus
BLK	rs13277113	A	GG	B lymphoid tyrosine kinase, increased risk of lupus
BLK	rs2248932	A	GG	B lymphoid tyrosine kinase, increased risk of lupus
IRF5	rs10954213	A	GG	Increased risk of lupus

[Article: Alopecia Areata](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
CTLA4	rs1024161	T	CC	Increased risk of alopecia areata
CTLA4	rs231775	G	AA	Increased risk of several autoimmune diseases; increased risk of alopecia areata
PTPN22	rs2476601	A	GG	3 to 4-fold increased risk of alopecia areata
HLA	rs660895	G	AA	HLA-DRB1*0401; increased risk of alopecia areata
IL17F	rs763780	C	TT	CC: increased risk of alopecia areata
IL17RA	rs879577	T	CC	Decreased risk of alopecia areata
IL18	rs1946518	T	GG	T/T: lower risk of AA
IL2	rs7682241	T	GT	increased risk of alopecia areata
IL2RA	rs3118470	T	CT	increased risk of alopecia areata
MIF	rs755622	G	GG	Decreased risk of alopecia areata
TNF	rs1800629	A	GG	Higher TNF; increased risk of alopecia areata

[Article: Raynauds](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
NOS1	rs527590	T	--	Increased susceptibility to Raynaud's syndrome
IL1B	rs1143634	A	GG	A/A: lower risk of antisynthetase syndrome (good)
IFNG	rs2069718	G	AG	GG: increased risk of Raynaud's in connective tissue disorders
TNF	rs1800630	A	AC	Increased risk of Raynaud's in lupus patients

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
COL5A1	rs863223483	G	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223478	T	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223475	I	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223466	A	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223469	I	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223470	I	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223471	I	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223472	D	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223473	I	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223474	D	--	Mutation linked to possibility of classical EDS
COL5A1	rs794727114	C	--	Mutation linked to possibility of classical EDS
COL5A1	rs794727760	D	--	Mutation linked to possibility of classical EDS
COL5A1	rs80338764	C	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223444	A	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223445	A	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223448	C	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223452	A	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223453	C	--	Mutation linked to possibility of classical EDS
COL5A1	rs863223454	T	--	Mutation linked to possibility of classical EDS
COL5A2	rs863223501	T	--	Mutation linked to possibility of classical EDS
COL5A2	rs863223495	T	--	Mutation linked to possibility of classical EDS
COL5A2	rs863223491	T	--	Mutation linked to possibility of classical EDS
COL3A1	rs397509369	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs553203474	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs397509377	I	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779417	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779418	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779419	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779421	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779424	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779427	T	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779428	T	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779429	C	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779432	A	--	Mutation linked to possibility of vascular EDS
COL3A1	rs587779434	A	--	Mutation linked to possibility of vascular EDS
COL5A1	rs13946	T	CT	decreased risk of tendon or ligament injury, reduced relative risk of carpal tunnel syndrome (good! does not cause EDS)
COL5A1	rs61735045	A	GG	A/A: rare, may cause EDS
TNXB	rs368512272	A	--	Classic-like EDS possible

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-DRB1	rs2187668	T	CC	HLA-DRB1*03:01 alleles, increased risk of IBM
GNE	rs62541771	A	GG	Carrier of an inclusion body myopathy 2 mutation
GNE	rs28937594	G	AA	Carrier of an inclusion body myopathy 2 mutation
VCP	rs121909331	T	--	Rare mutation linked to myopathies
VCP	rs121909330	A	--	Rare mutation linked to myopathies
VCP	rs121909334	T	--	Rare mutation linked to myopathies
VCP	rs121909335	T	--	Rare mutation linked to myopathies

[🔗 Article: Genetic risk and Guillain-Barré syndrome](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
TLR4	rs4986790	G	AA	Increased relative risk of GBS, up to 8-fold increase for GG
ICAM1	rs1799969	A	GG	4-fold increased relative risk of GBS
CD1E	rs1065457	A	--	A/A: common genotype, higher relative risk of GBS in some studies

[🔗 Article: Pernicious Anemia](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
PTPN22	rs6679677	A	CC	Increased risk of autoimmune diseases and pernicious anemia
AIRE	rs74203920	T	--	Increased risk of pernicious anemia
IL2RA	rs2476491	A	--	Increased risk of pernicious anemia
HLA-DRB1	rs3135388	A	AG	tagging SNP for HLA-DRB1*15:01; possibly increased risk of pernicious anemia
TCN2	rs9606756	G	AA	possibly reduced B12, more likely to have pernicious anemia with autoimmune gastritis
CBLIF	rs150884181	G	--	intrinsic factor deficiency possible (rare)

[🔗 Article: Sjogren Syndrome](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-DRB1	rs2187668	T	CC	HLA-DRB1*03:01 allele; increased risk of Sjogren, as well as other autoimmune disorders
HLA-DRA	rs3135394	G	AA	3-fold increased risk of Sjögren's
HLA-DQB1	rs3129716	C	--	3-fold increased risk of Sjögren's
HLA-DQA1	rs9271588	C	TT	half the normal risk of Sjögren's (protective)
IRF5	rs4728142	A	AG	slightly increased risk of Sjögren's
IRF5	rs10954213	A	GG	A/A: slightly higher risk of Sjögren's
IL12A	rs485497	A	AG	slightly increased risk of Sjögren's
TNIP1	rs6579837	T	--	slightly increased risk of Sjögren's
STAT4	rs10168266	T	CT	increased risk of Sjögren's
STAT4	rs11889341	T	CT	increased risk of Sjögren's
OAS1	rs10774671	G	AG	decreased risk of Sjögren's (protective)
GTF2I	rs117026326	T	--	2 to 3-fold increased risk of anti-SSA positive Sjögren's
TNFAIP3	rs2230926	G	TT	increased risk of Sjögren's; increased risk of lymphoma in Sjögren's patients, especially in younger ages
TNF	rs1800629	A	GG	Higher TNF-alpha levels. Increased risk of Sjögren's syndrome

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
HLA-DRB1	rs3135388	A	AG	HLA-DRB1*1501; up to 3x - 6x increase in risk for MS
HLA-G	rs4959039	G	AA	1.5x increased risk of MS
C6orf10	rs3129934	T	CT	Increased risk of MS
IL2RA	rs12722489	C	CC	decreased risk of MS; reduced interaction of IL2RA with estrogen receptor alpha
IL2RA	rs2104286	C	CT	C/C: decreased risk of MS
IL7R	rs6897932	C	CT	Increased risk of MS
IL7R	rs987107	A	AG	A/A: Increased risk of MS
CYP27B1	rs703842	G	AG	Decreased risk of MS
TNFRSF1A	rs1800693	C	CT	Slightly increased risk of MS
CD6	rs17824933	G	CG	Increased risk of MS
IRF8	rs17445836	A	GG	Decreased risk of MS
IL12B	rs2546890	A	AG	Slightly increased risk of MS
CD86	rs9282641	A	GG	Slightly decreased risk of MS
EVI5	rs11808092	A	CC	Slightly increased risk of MS
IDO1	rs7820268	C	CT	C/C: 1.5-fold increased relative risk of MS
ARNTL	rs3789327	G	AA	G/G: increased relative risk of MS
CLOCK	rs6811520	C	CT	C/C: increased relative risk of MS
FADS2	rs174611	C	TT	Decreased relative risk of MS
FADS2	rs174618	C	CC	Decreased relative risk of MS

[Article: Naltrexone](#)

Gene	RS ID	Effect Allele	Your Genotype	Notes About Effect Allele
OPRM1	rs1799971	G	AG	More responsive to naltrexone for reducing drinking, reduced opioid receptors; increased pain
TRPM3	rs6560200	C	TT	C/C: Higher risk of CFS/ME (common), Naltrexone may act to restore impaired TRPM3 ion channel activity
TRPM3	rs1891301	T	CC	T/T: Higher risk of CFS/ME, Naltrexone may act to restore impaired TRPM3 ion channel activity
AKR1C4	rs3829125	G	CC	Reduced function, reduced breakdown of naltrexone

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