

SNiPacard

Block annotations

Block info

genomic range	chr6:31,378,768-31,390,410 <i>e!</i>
block size	11,643 bp
variant count	9 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.808$ [-1.898 – 0.403] $\mu = 0.008$ [0 – 0.054]	gene(s) hit or close-by	HCP5 <i>e!</i> , MICA <i>e!</i>
phastCons		eQTL gene(s)	ATP6V1G2 <i>e!</i> , HCG22 <i>e!</i> , HCG27 <i>e!</i> , HLA-B <i>e!</i> , HLA-C <i>e!</i> , LTA <i>e!</i> , MICA <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C2 <i>e!</i> , TAP2 <i>e!</i> , WASF5P <i>e!</i> , XXbac-BPG181B23.7 <i>e!</i> , XXbac-BPG246D15.9 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.12 <i>e!</i> , XXbac-BPG248L24.13 <i>e!</i> , XXbac-BPG299F13.17 <i>e!</i> , Y_RNA <i>e!</i>
GERP++	$\mu = -0.466$ [-3.52 – 1.18]	potentially regulated gene(s)	MICA <i>e!</i> , MICA <i>e!</i> , MICA <i>e!</i> , MICA <i>e!</i> , MICA <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i>
CADD score	$\mu = 2.526$ [0.257 – 6.359]	disease gene(s)	HLA-B <i>e!</i> , TAP2 <i>e!</i> , LTA <i>e!</i> , <i>e!</i> , <i>e!</i> , <i>e!</i> , VARS2 <i>e!</i>

Trait annotations

Variant association

trait	min(p-value)	source DB	source entry/link	variant(s)
CERVICAL CANCER	<4.00×10 ⁻¹⁸	GWAS Catalog	23482656	1
Height	<8.00×10 ⁻²⁹	GWAS Catalog	20881960	1
cholesterol	4.59×10 ⁻⁶	Metabolomics GWAS Server	24816252	5
Behcet syndrome	4.29×10 ⁻⁸	dbGaP	pha002888 dbGaP	2
Lupus erythematosus, systemic	3.60×10 ⁻⁹	dbGaP	pha002848 dbGaP	2





































Disease gene annotation







































gene	trait	source DB	source entry/link
HLA-B <i>e!</i>	Takayasu arteritis	OrphaNet	OrphaNet:3287
HLA-B <i>e!</i>	Stevens-Johnson syndrome	OrphaNet	OrphaNet:36426
HLA-B <i>e!</i>	Behcet disease	OrphaNet	OrphaNet:117
TAP2 <i>e!</i>	Immunodeficiency by defective expression of HLA class 1	OrphaNet	OrphaNet:34592
LTA <i>e!</i>	LEPROSY, SUSCEPTIBILITY TO, 4	OMIM	MIM:610988
LTA <i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507
<i>e!</i>	PSORIASIS 1, SUSCEPTIBILITY TO	OMIM	MIM:177900
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507
<i>e!</i>	COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 20	OMIM	MIM:615917
<i>e!</i>	PSORIASIS 1, SUSCEPTIBILITY TO	OMIM	MIM:177900
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507
VARS2 <i>e!</i>	COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 20	OMIM	MIM:615917
TAP2 <i>e!</i>	BARE LYMPHOCYTE SYNDROME, TYPE I	OMIM	MIM:604571

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	atrial appendage	3.61×10 ⁻⁹ (p-value)	GTE Portal V6	9

HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	atrial appendage	1.28×10 ⁻¹² (p-value)	GTEX Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	atrial appendage	4.65×10 ⁻⁷ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	transformed fibroblasts	2.01×10 ⁻²⁶ (p-value)	GTEX Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	transformed fibroblasts	6.93×10 ⁻⁸ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	transformed fibroblasts	3.01×10 ⁻⁸ (p-value)	GTEX Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	transformed fibroblasts	1.83×10 ⁻⁶ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	transformed fibroblasts	4.38×10 ⁻²⁰ (p-value)	GTEX Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	blood	4.96×10 ⁻⁶ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	blood	4.13×10 ⁻¹⁷ (p-value)	GTEX Portal V6 	9
XXbac-BPG299F13.17 <i>e!</i>	?	ENSG00000272501 <i>e!</i>	blood	2.58×10 ⁻⁶ (p-value)	GTEX Portal V6 	8
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	blood	5.66×10 ⁻⁸ (p-value)	GTEX Portal V6 	8
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	blood	3.24×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	blood	2.00×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	breast	1.20×10 ⁻¹⁰ (p-value)	GTEX Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	breast	5.82×10 ⁻⁷ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	breast	1.36×10 ⁻¹⁰ (p-value)	GTEX Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	breast	2.85×10 ⁻⁶ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	breast	7.91×10 ⁻¹⁴ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	skeletal muscle	1.53×10 ⁻²⁰ (p-value)	GTEX Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	skeletal muscle	1.22×10 ⁻¹⁰ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	skeletal muscle	5.77×10 ⁻¹² (p-value)	GTEX Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	skeletal muscle	2.95×10 ⁻¹⁰ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	skeletal muscle	2.71×10 ⁻¹⁷ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	putamen	1.12×10 ⁻⁷ (p-value)	GTEX Portal V6 	8
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	EBV lymphocytes	6.51×10 ⁻⁸ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	EBV lymphocytes	4.39×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	EBV lymphocytes	1.40×10 ⁻⁸ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	ovary	1.40×10 ⁻⁸ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	ovary	1.32×10 ⁻⁶ (p-value)	GTEX Portal V6 	2
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	sun exposed skin	2.64×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	sun exposed skin	5.30×10 ⁻¹⁸ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	sun exposed skin	6.34×10 ⁻¹⁴ (p-value)	GTEX Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	sun exposed skin	5.95×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	sun exposed skin	5.96×10 ⁻¹¹ (p-value)	GTEX Portal V6 	9
PSORS1C1 <i>e!</i>	?	ENSG00000204540 <i>e!</i>	sun exposed skin	4.06×10 ⁻⁹ (p-value)	GTEX Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	unexposed skin	6.10×10 ⁻¹⁰ (p-value)	GTEX Portal V6 	9

HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	unexposed skin	5.60×10 ⁻⁶ (p-value)	GTEx Portal V6 	3
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	unexposed skin	4.17×10 ⁻¹⁰ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	unexposed skin	1.13×10 ⁻⁹ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	unexposed skin	6.69×10 ⁻¹² (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	aorta	2.49×10 ⁻¹⁴ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	aorta	7.96×10 ⁻⁷ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	aorta	2.87×10 ⁻¹³ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	aorta	4.29×10 ⁻¹³ (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	left ventricle	3.03×10 ⁻¹⁵ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	left ventricle	7.87×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	left ventricle	1.90×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	left ventricle	1.27×10 ⁻¹¹ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	left ventricle	3.93×10 ⁻⁶ (p-value)	GTEx Portal V6 	1
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	subcutaneous adipocytes	6.44×10 ⁻¹⁶ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	subcutaneous adipocytes	2.42×10 ⁻⁶ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	subcutaneous adipocytes	1.88×10 ⁻¹³ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	subcutaneous adipocytes	6.16×10 ⁻⁷ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	subcutaneous adipocytes	1.09×10 ⁻²² (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	caudate basal ganglia	1.37×10 ⁻¹¹ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	caudate basal ganglia	7.92×10 ⁻¹² (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	visceral adipocytes	1.94×10 ⁻¹⁰ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	visceral adipocytes	7.68×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	visceral adipocytes	1.41×10 ⁻¹¹ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	visceral adipocytes	3.58×10 ⁻⁷ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	visceral adipocytes	2.01×10 ⁻¹¹ (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	stomach	5.75×10 ⁻¹¹ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	stomach	1.01×10 ⁻⁶ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	stomach	6.69×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	stomach	3.80×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	stomach	5.92×10 ⁻¹² (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	cortex	5.99×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	tibial nerve	9.55×10 ⁻¹⁸ (p-value)	GTEx Portal V6 	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	tibial nerve	3.35×10 ⁻⁸ (p-value)	GTEx Portal V6 	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	tibial nerve	5.58×10 ⁻¹³ (p-value)	GTEx Portal V6 	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	tibial nerve	5.88×10 ⁻⁶ (p-value)	GTEx Portal V6 	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	tibial nerve	1.36×10 ⁻¹⁵ (p-value)	GTEx Portal V6 	9
XXbac-BPG299F13.17 <i>e!</i>	?	ENSG00000272501 <i>e!</i>	tibial nerve	6.67×10 ⁻⁶ (p-value)	GTEx Portal V6 	5
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	cerebellar purkinje	1.45×10 ⁻¹⁰ (p-value)	GTEx Portal V6 	9

HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	esophagus mucosa	1.45×10^{-10} (p-value)	GTEX Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	esophagus mucosa	7.05×10^{-13} (p-value)	GTEX Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	esophagus mucosa	4.62×10^{-13} (p-value)	GTEX Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	esophagus mucosa	8.48×10^{-8} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	esophagus mucosa	3.06×10^{-7} (p-value)	GTEX Portal V6	9
PSORS1C1 <i>e!</i>	?	ENSG00000204540 <i>e!</i>	esophagus mucosa	1.73×10^{-6} (p-value)	GTEX Portal V6	9
HCG22 <i>e!</i>	?	ENSG00000228789 <i>e!</i>	esophagus mucosa	2.62×10^{-6} (p-value)	GTEX Portal V6	1
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	pituitary	2.24×10^{-7} (p-value)	GTEX Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	testis	5.59×10^{-13} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	testis	3.13×10^{-6} (p-value)	GTEX Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	testis	3.30×10^{-11} (p-value)	GTEX Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	frontal cortex	3.60×10^{-7} (p-value)	GTEX Portal V6	8
XXbac-BPG248L24.10 <i>e!</i>	?	ENSG00000229836 <i>e!</i>	pancreas	6.76×10^{-7} (p-value)	GTEX Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	pancreas	4.51×10^{-6} (p-value)	GTEX Portal V6	6
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	pancreas	1.83×10^{-9} (p-value)	GTEX Portal V6	9
XXbac-BPG248L24.13 <i>e!</i>	?	ENSG00000256166 <i>e!</i>	pancreas	2.19×10^{-6} (p-value)	GTEX Portal V6	7
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	pancreas	6.13×10^{-8} (p-value)	GTEX Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	pancreas	3.12×10^{-6} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	pancreas	4.16×10^{-8} (p-value)	GTEX Portal V6	9
WASF5P <i>e!</i>	?	ENSG00000231402 <i>e!</i>	pancreas	1.44×10^{-7} (p-value)	GTEX Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	muscularis mucosae	5.92×10^{-13} (p-value)	GTEX Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	muscularis mucosae	7.16×10^{-7} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	muscularis mucosae	3.10×10^{-12} (p-value)	GTEX Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	muscularis mucosae	6.11×10^{-18} (p-value)	GTEX Portal V6	9
PSORS1C2 <i>e!</i>	?	ENSG00000204538 <i>e!</i>	lung	1.07×10^{-6} (p-value)	GTEX Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	lung	4.97×10^{-8} (p-value)	GTEX Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	lung	2.02×10^{-17} (p-value)	GTEX Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	lung	7.89×10^{-20} (p-value)	GTEX Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	lung	1.65×10^{-10} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	lung	3.16×10^{-12} (p-value)	GTEX Portal V6	9
PSORS1C1 <i>e!</i>	?	ENSG00000204540 <i>e!</i>	lung	5.94×10^{-6} (p-value)	GTEX Portal V6	1
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	tibial artery	7.30×10^{-24} (p-value)	GTEX Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	tibial artery	3.23×10^{-9} (p-value)	GTEX Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	tibial artery	2.88×10^{-16} (p-value)	GTEX Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	tibial artery	1.88×10^{-9} (p-value)	GTEX Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	tibial artery	8.90×10^{-23} (p-value)	GTEX Portal V6	9
PSORS1C2 <i>e!</i>	?	ENSG00000204538 <i>e!</i>	thyroid	3.56×10^{-7} (p-value)	GTEX Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	thyroid	7.34×10^{-7} (p-value)	GTEX Portal V6	9

XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	thyroid	6.91×10 ⁻¹⁹ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	thyroid	1.74×10 ⁻²⁰ (p-value)	GTEEx Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	thyroid	1.48×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	thyroid	1.64×10 ⁻¹¹ (p-value)	GTEEx Portal V6	9
Y_RNA <i>e!</i>	?	ENSG00000199332 <i>e!</i>	thyroid	4.47×10 ⁻⁷ (p-value)	GTEEx Portal V6	9
PSORS1C1 <i>e!</i>	?	ENSG00000204540 <i>e!</i>	thyroid	5.12×10 ⁻⁸ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	transverse colon	8.76×10 ⁻¹² (p-value)	GTEEx Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	transverse colon	1.07×10 ⁻¹⁵ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	liver	9.37×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	liver	1.25×10 ⁻⁶ (p-value)	GTEEx Portal V6	6
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	terminal ileum	9.54×10 ⁻⁷ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	spleen	2.32×10 ⁻⁶ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	spleen	5.35×10 ⁻⁷ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	sigmoid colon	3.77×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
HLA-C <i>e!</i>	?	ENSG00000204525 <i>e!</i>	sigmoid colon	2.37×10 ⁻⁷ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	sigmoid colon	3.35×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
XXbac-BPG248L24.12 <i>e!</i>	?	ENSG00000271581 <i>e!</i>	sigmoid colon	9.65×10 ⁻⁷ (p-value)	GTEEx Portal V6	7
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	sigmoid colon	6.00×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	coronary artery	1.87×10 ⁻⁸ (p-value)	GTEEx Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	coronary artery	1.68×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	gastroesophageal junction	2.59×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	gastroesophageal junction	7.09×10 ⁻⁸ (p-value)	GTEEx Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	gastroesophageal junction	3.26×10 ⁻⁸ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	cerebellar hemisphere	1.70×10 ⁻⁸ (p-value)	GTEEx Portal V6	9
MICA <i>e!</i>	?	ENSG00000204520 <i>e!</i>	adrenal gland	1.10×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	9
XXbac-BPG181B23.7 <i>e!</i>	?	ENSG00000272221 <i>e!</i>	adrenal gland	1.45×10 ⁻⁹ (p-value)	GTEEx Portal V6	9
HLA-B <i>e!</i>	?	ENSG00000234745 <i>e!</i>	cerebellum	1.00×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	9
ATP6V1G2 <i>e!</i>	ENST00000481998 <i>e!</i>	ILMN_1654541 <i>e!</i>	blood	7.71×10 ⁻⁷ (p-value)	MuTHER consortium	6
ATP6V1G2 <i>e!</i>	ENST00000303892 <i>e!</i>					
ATP6V1G2 <i>e!</i>	ENST00000483170 <i>e!</i>					
ATP6V1G2 <i>e!</i>	ENST00000376151 <i>e!</i>					
HCG27 <i>e!</i>	ENST00000383331 <i>e!</i>	ILMN_1746436 <i>e!</i>	adipocyte	4.16×10 ⁻⁷ (p-value)	MuTHER consortium	6
HCG27 <i>e!</i>	ENST00000415276 <i>e!</i>					
LTA <i>e!</i>	ENST00000418386 <i>e!</i>	ILMN_1795464 <i>e!</i>	blood	1.20×10 ⁻⁴ (p-value)	Westra et al.	2
LTA <i>e!</i>	ENST00000471842 <i>e!</i>					
LTA <i>e!</i>	ENST00000454783 <i>e!</i>					
LTA <i>e!</i>	ENST00000489638 <i>e!</i>					
MICA <i>e!</i>	ENST00000449934 <i>e!</i>	ILMN_3241692 <i>e!</i>	monocyte	4.42×10 ⁻⁵ (p-value)	Fairfax et al.	4
MICA <i>e!</i>	ENST00000616296 <i>e!</i>					
MICA <i>e!</i>	ENST00000421350 <i>e!</i>					

TAP2 <i>e!</i>	ENST00000374899 <i>e!</i>	ILMN_1759250 <i>e!</i>	monocyte	4.61×10 ⁻⁴ (p-value)	Fairfax et al. <i>!M</i>	4
TAP2 <i>e!</i>	ENST00000620123 <i>e!</i>					
TAP2 <i>e!</i>	ENST00000374897 <i>e!</i>					
TAP2 <i>e!</i>	ENST00000464100 <i>e!</i>					
XXbac-BPG246D15.9 <i>e!</i>	ENST00000452392 <i>e!</i>					
XXbac-BPG181B23.7 <i>e!</i>	ENST00000606743 <i>e!</i>	230937_at <i>e!</i>	blood	1.10×10 ⁻¹⁰ (p-value)	Dixon et al. <i>!M</i>	1

Putative effect on regulation

ENCODE promoter-associated distal DHS (Enhancer)

SNiPA enhancer id	variant(s)	associated SNiPA promoter id	associated gene(s)
ENCE00000444714 <i>e!</i>	1	ENCP00000048015	MICA <i>e!</i> MICA <i>e!</i> MICA <i>e!</i> MICA <i>e!</i> MICA <i>e!</i>
		ENCP00000047968	VARS2 <i>e!</i> VARS2 <i>e!</i> VARS2 <i>e!</i> VARS2 <i>e!</i> VARS2 <i>e!</i> VARS2 <i>e!</i>

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
MICA <i>e!</i>	downstream gene variant	2393	ENST00000449934 <i>e!</i>	NM_001177519.2	ENSP00000413079 <i>e!</i>	3
MICA <i>e!</i>	downstream gene variant	2395	ENST00000616296 <i>e!</i>	NM_001289152.1, NM_001289153.1, NM_001289154.1	ENSP00000482382 <i>e!</i>	3
MICA <i>e!</i>	downstream gene variant	2393	ENST00000421350 <i>e!</i>	?	ENSP00000402410 <i>e!</i>	3

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
HCP5 <i>e!</i>	ENST00000414046 <i>e!</i>	?	?	9
MICA <i>e!</i>	ENST00000616296 <i>e!</i>	NM_001289152.1, NM_001289153.1, NM_001289154.1	ENSP00000482382 <i>e!</i>	4
MICA <i>e!</i>	ENST00000449934 <i>e!</i>	NM_001177519.2	ENSP00000413079 <i>e!</i>	4
MICA <i>e!</i>	ENST00000421350 <i>e!</i>	?	ENSP00000402410 <i>e!</i>	4

