

## Block annotations

### Block info

genomic range	chr6:31,329,734-31,333,914 <i>e!</i>
block size	4,181 bp
variant count	11 variants

### Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.707$ [-2.823 – 0.83]	gene(s) hit or close-by	DHFRP2 <i>e!</i> , HLA-B <i>e!</i> , HLA-C <i>e!</i> , RNU6-283P <i>e!</i> , XXbac-BPG248L24.12 <i>e!</i>
phastCons	$\mu = 0.042$ [0 – 0.185] $\mu = -0.072$ [-1.92 – 0.83]	eQTL gene(s)	FLOT1 <i>e!</i> , HCG22 <i>e!</i> , HCP5 <i>e!</i> , HLA-B <i>e!</i> , SKIV2L <i>e!</i> , XXbac-BPG248L24.12 <i>e!</i> CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , CSNK2B <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDR1 <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , DDX39B <i>e!</i> , e!, GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GPANK1 <i>e!</i> , GTF2H4 <i>e!</i> , GTF2H4 <i>e!</i> , GTF2H4 <i>e!</i> , GTF2H4 <i>e!</i> , GTF2H4 <i>e!</i> , GTF2H4 <i>e!</i> , HCP5 <i>e!</i> , HCP5 <i>e!</i> , HCP5 <i>e!</i> , HCP5 <i>e!</i> , HLA-B <i>e!</i> , HLA-B <i>e!</i> , HLA-B <i>e!</i> , HLA-B <i>e!</i> , e!, HLA-B <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , HLA-C <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LST1 <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , LY6G5C <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , MICB <i>e!</i> , PRRC2A <i>e!</i> , PRRC2A <i>e!</i> , e!, PRRC2A <i>e!</i> , PRRC2A <i>e!</i> , PRRC2A <i>e!</i> , PRRC2A <i>e!</i> , PRRC2A <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C1 <i>e!</i> , PSORS1C1 <i>e!</i> , TNF <i>e!</i> , TNF <i>e!</i> , e!, TNF <i>e!</i> , TNF <i>e!</i> , TNF <i>e!</i> , TNF <i>e!</i> , TNF <i>e!</i> , UQCRHP1 <i>e!</i> , UQCRHP1 <i>e!</i> , UQCRHP1 <i>e!</i> , UQCRHP1 <i>e!</i> , UQCRHP1 <i>e!</i> , UQCRHP1 <i>e!</i> , VARS <i>e!</i> , VARS <i>e!</i> , VARS <i>e!</i> , e!, VARS <i>e!</i> , VARS <i>e!</i> , VARS <i>e!</i> , VARS <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i> , VARS2 <i>e!</i> , e!, VARS2 <i>e!</i> , VARS2 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac- BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac- BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i> , XXbac-BPG248L24.10 <i>e!</i>
GERP++		potentially regulated gene(s)	
CADD score	$\mu = 2.437$ [0.078 – 4.885]	disease gene(s)	HLA-B <i>e!</i> , SKIV2L <i>e!</i> , e!, e!, e!, e!, e!, e!, TNF <i>e!</i> , e!, e!, e!, e!, VARS2 <i>e!</i>

## Trait annotations

### Disease gene annotation

gene	trait	source DB	source entry/link
HLA-B <i>e!</i>	Takayasu arteritis	OrphaNet	OrphaNet:3287 <a href="#">orphanet</a>
HLA-B <i>e!</i>	Stevens-Johnson syndrome	OrphaNet	OrphaNet:36426 <a href="#">orphanet</a>
HLA-B <i>e!</i>	Behcet disease	OrphaNet	OrphaNet:117 <a href="#">orphanet</a>
SKIV2L <i>e!</i>	Syndromic diarrhea	OrphaNet	OrphaNet:84064 <a href="#">orphanet</a>
SKIV2L <i>e!</i>	TRICHOHEPATOENTERIC SYNDROME 2	OMIM	MIM:614602 <a href="#">OMIM</a>
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424 <a href="#">OMIM</a>
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162 <a href="#">OMIM</a>
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507 <a href="#">OMIM</a>
<i>e!</i>	PSORIASIS 1, SUSCEPTIBILITY TO	OMIM	MIM:177900 <a href="#">OMIM</a>
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424 <a href="#">OMIM</a>
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162 <a href="#">OMIM</a>
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507 <a href="#">OMIM</a>
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424 <a href="#">OMIM</a>
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162 <a href="#">OMIM</a>
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507 <a href="#">OMIM</a>
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424 <a href="#">OMIM</a>
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162 <a href="#">OMIM</a>
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507 <a href="#">OMIM</a>
TNF <i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424 <a href="#">OMIM</a>
TNF <i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162 <a href="#">OMIM</a>

TNF <i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507	
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424	
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162	
<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>	SEVERE CUTANEOUS ADVERSE REACTION, SUSCEPTIBILITY TOTOXIC EPIDERMAL [...]	OMIM	MIM:608579	
<i>e!</i>	HEPATITIS B VIRUS, SUSCEPTIBILITY TO	OMIM	MIM:610424	
<i>e!</i>	MALARIA, SUSCEPTIBILITY TOMALARIA, RESISTANCE TO, INCLUDED	OMIM	MIM:611162	
<i>e!</i>	PSORIATIC ARTHRITIS, SUSCEPTIBILITY TOPSORIATIC ARTHRITIS, SUSCEPTIBILITY [...]	OMIM	MIM:607507	
VAR52 <i>e!</i>	COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 20	OMIM	MIM:615917	
SKIV2L <i>e!</i>	TRICHOHEPATOENTERIC SYNDROME 2	DECIPHER	MIM:615602	

### Direct effect on regulation

#### *cis*-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	pancreas	1.22×10 <sup>-6</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	muscularis mucosae	8.92×10 <sup>-12</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	lung	4.02×10 <sup>-13</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	transformed fibroblasts	1.05×10 <sup>-10</sup> (p-value)	GTEX Portal V6	6
HLA-B <i>e!</i> ?		ENSG00000234745 <i>e!</i>	blood	2.32×10 <sup>-7</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	blood	3.21×10 <sup>-18</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	breast	1.65×10 <sup>-14</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	tibial artery	2.50×10 <sup>-11</sup> (p-value)	GTEX Portal V6	11
FLOT1 <i>e!</i> ?		ENSG00000137312 <i>e!</i>	thyroid	3.53×10 <sup>-6</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	thyroid	7.04×10 <sup>-11</sup> (p-value)	GTEX Portal V6	11
HLA-B <i>e!</i> ?		ENSG00000234745 <i>e!</i>	skeletal muscle	1.41×10 <sup>-6</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	skeletal muscle	1.03×10 <sup>-18</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	EBV lymphocytes	9.39×10 <sup>-7</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	transverse colon	1.80×10 <sup>-7</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	liver	2.78×10 <sup>-7</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	sun exposed skin	1.94×10 <sup>-12</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	unexposed skin	5.48×10 <sup>-7</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	aorta	1.88×10 <sup>-10</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	left ventricle	1.15×10 <sup>-6</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	subcutaneous adipocytes	7.46×10 <sup>-13</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	visceral adipocytes	5.61×10 <sup>-10</sup> (p-value)	GTEX Portal V6	11
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	cortex	1.69×10 <sup>-6</sup> (p-value)	GTEX Portal V6	1
XXbac-BPG248L24.12 <i>e!</i> ?		ENSG00000271581 <i>e!</i>	tibial nerve	2.22×10 <sup>-10</sup> (p-value)	GTEX Portal V6	11



ENCP00000048005

HLA-B *e!*  
HLA-B *e!*  
HLA-B *e!*  
HLA-B *e!*  
HLA-B *e!*  
HLA-B *e!*

ENCP00000048017

HCP5 *e!*  
HCP5 *e!*  
HCP5 *e!*  
HCP5 *e!*

ENCP00000048050

PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*

ENCP00000047997

HLA-C *e!*  
HLA-C *e!*  
HLA-C *e!*  
HLA-C *e!*  
HLA-C *e!*  
HLA-C *e!*  
HLA-C *e!*

ENCP00000048023

DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*  
DDX39B *e!*

ENCP00000048104

VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*

ENCP00000047959

DDR1 *e!*  
DDR1 *e!*  
DDR1 *e!*  
DDR1 *e!*  
DDR1 *e!*  
DDR1 *e!*  
DDR1 *e!*

ENCP00000047963

GTF2H4 *e!*  
GTF2H4 *e!*  
GTF2H4 *e!*  
GTF2H4 *e!*  
GTF2H4 *e!*  
GTF2H4 *e!*

ENCP00000048052

PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*  
PRRC2A *e!*

ENCP00000048110

VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*

ENCP00000048109

VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*  
VARS *e!*

	VARS <i>e!</i> VARS <i>e!</i> VARS <i>e!</i>
ENCP00000048051	PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i>
ENCP00000048003	HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i>
ENCP00000048033	TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i> TNF <i>e!</i>
ENCP00000047998	HLA-C <i>e!</i> HLA-C <i>e!</i> HLA-C <i>e!</i> HLA-C <i>e!</i> HLA-C <i>e!</i> HLA-C <i>e!</i> HLA-C <i>e!</i>
ENCP00000048035	LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i>
ENCP00000048004	HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i>
ENCP00000048007	HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i> HLA-B <i>e!</i>
ENCP00000048048	PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i> PRRC2A <i>e!</i>
ENCP00000048063	GPANK1 <i>e!</i> GPANK1 <i>e!</i> GPANK1 <i>e!</i> GPANK1 <i>e!</i> GPANK1 <i>e!</i> GPANK1 <i>e!</i> GPANK1 <i>e!</i>
ENCP00000047979	PSORS1C1 <i>e!</i> PSORS1C1 <i>e!</i> PSORS1C1 <i>e!</i> PSORS1C1 <i>e!</i> PSORS1C1 <i>e!</i> PSORS1C1 <i>e!</i>

PSURSTCT *e!*

ENCP00000048006	XXbac-BPG248L24.12 <i>e!</i>
ENCP00000048040	UQCRHP1 <i>e!</i> UQCRHP1 <i>e!</i> UQCRHP1 <i>e!</i> UQCRHP1 <i>e!</i> UQCRHP1 <i>e!</i> UQCRHP1 <i>e!</i>
ENCP00000048037	LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i> LST1 <i>e!</i>
ENCP00000048020	MICB <i>e!</i> MICB <i>e!</i> MICB <i>e!</i> MICB <i>e!</i> MICB <i>e!</i> MICB <i>e!</i> MICB <i>e!</i>
ENCP00000047966	VAR2S2 <i>e!</i> VAR2S2 <i>e!</i> VAR2S2 <i>e!</i> VAR2S2 <i>e!</i> VAR2S2 <i>e!</i> VAR2S2 <i>e!</i>

### Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
DHFRP2 <i>e!</i>	downstream gene variant	215	ENST00000414224 <i>e!</i>	?	?	11
HLA-B <i>e!</i>	upstream gene variant	4770	ENST00000412585 <i>e!</i>	NM_005514.6	ENSP00000399168 <i>e!</i>	1
HLA-B <i>e!</i>	upstream gene variant	4778	ENST00000498007 <i>e!</i>	?	?	1
HLA-B <i>e!</i>	upstream gene variant	4769	ENST00000434333 <i>e!</i>	?	ENSP00000405931 <i>e!</i>	1
HLA-C <i>e!</i>	upstream gene variant	4799	ENST00000620806 <i>e!</i>	?	ENSP00000480331 <i>e!</i>	1
RNU6-283P <i>e!</i>	upstream gene variant	3997	ENST00000364788 <i>e!</i>	?	?	4
XXbac-BPG248L24.12 <i>e!</i>	downstream gene variant	4320	ENST00000603274 <i>e!</i>	?	?	1

