

SNiPACard

Block annotations

Block info

genomic range	chr1:67,684,934-67,743,552 <i>e!</i>
block size	58,619 bp
variant count	26 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = 0.033$ [-2.084 – 2.716]	gene(s) hit or close-by	AL109843.1 <i>e!</i> , C1orf141 <i>e!</i> , IL23R <i>e!</i> , RNU4ATAC4P <i>e!</i> , RP11-131O15.2 <i>e!</i>
phastCons	$\mu = 0.059$ [0 – 0.959]	eQTL gene(s)	-
GERP++	$\mu = 0.161$ [-4.62 – 5.19]	potentially regulated gene(s)	-
CADD score	$\mu = 3.253$ [0.074 – 18.58]	disease gene(s)	IL23R <i>e!</i>

Trait annotations




Variant association

trait	min(p-value)	source DB	source entry/link	variant(s)
Inflammatory bowel disease	<8.00×10-161	GWAS Catalog	23128233	1
Crohn's disease (time to surgery)	<4.00×10-14	GWAS Catalog	22936669	1
Crohn's disease (time to surgery)	<1.00×10-18	GWAS Catalog	22412388	1
Crohn's disease (time to surgery)	<4.00×10-21	GWAS Catalog	22293688	1
Ankylosing spondylitis	<2.00×10-17	GWAS Catalog	21743469	1
Ulcerative colitis	<5.00×10-28	GWAS Catalog	21297633	1
Crohn's disease (time to surgery)	<1.00×10-64	GWAS Catalog	21102463	1
Psoriasis	<7.00×10-7	GWAS Catalog	20953190	1
Crohn's disease (time to surgery)	<1.00×10-6	GWAS Catalog	20570966	1
Ankylosing spondylitis	<9.00×10-14	GWAS Catalog	20062062	1
Ulcerative colitis	<3.00×10-10	GWAS Catalog	19915572	1
Ulcerative colitis	<1.00×10-8	GWAS Catalog	19122664	1
Inflammatory bowel disease	<7.00×10-11	GWAS Catalog	18758464	1
Crohn's disease (time to surgery)	<7.00×10-63	GWAS Catalog	18587394	1
Crohn's disease (time to surgery)	<1.00×10-8	GWAS Catalog	17804789	3
Crohn's disease (time to surgery)	<2.00×10-18	GWAS Catalog	17447842	1
Inflammatory bowel diseases	4.59×10-11	dbGaP	pha002847	2

Variant annotation

trait	type	source DB	source entry/link	Variant(s)
Psoriasis, protection against	protective	ClinVar	RCV000003255.2	1
Inflammatory bowel disease 17, protection against	protective	ClinVar	RCV000003254.2	1
?	HGMD curated	HGMD	CM066884	1
INFLAMMATORY BOWEL DISEASE 17, PROTECTION AGAINST	OMIM curated	OMIM	MIM:607562	1
INFLAMMATORY BOWEL DISEASE 17, PROTECTION AGAINST	UniProt/OMIM curated	UniProt	MIM:612261 (IL23R)	1

Disease gene annotation

gene	trait	source DB	source entry/link
IL23R <i>e!</i>	PSORIASIS 7, SUSCEPTIBILITY TO	OMIM	MIM:605606 
IL23R <i>e!</i>	INFLAMMATORY BOWEL DISEASE 17	OMIM	MIM:612261 
IL23R <i>e!</i>	Behcet disease	OrphaNet	OrphaNet:117 

Direct effect on transcript

Amino acid sequence alteration

gene	effect type	affected transcript	RefSeq id	protein	exchanged AA's	exchanged codons	SIFT prediction	PolyPhen prediction	variant(s)
IL23R <i>e!</i>	missense variant	ENST00000425614 <i>e!</i>	?	ENSP00000387640 <i>e!</i>	Q/R	cAa/cGa	?	?	1
IL23R <i>e!</i>	missense variant	ENST00000347310 <i>e!</i>	NM_144701.2	ENSP00000321345 <i>e!</i>	Q/R	cAa/cGa	?	?	1

Putative effect on regulation

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00000283180 <i>e!</i> (CTCF binding site)	1	embryonic stem cell (H1ESC) HSMMtube blood (K562) breast (HMEC) muscle (HSMM) cervix (HeLa-S3) endothelium (HUVEC) blood (GM12878) A549	CTCF, Rad21 H3K27me3 CTCF CTCF CTCF CTCF H3K36me3, CTCF Rad21, CTCF CTCF

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
AL109843.1 <i>e!</i>	downstream gene variant, upstream gene variant	748	ENST00000408806 <i>e!</i>	?	?	5
C1orf141 <i>e!</i>	upstream gene variant	334	ENST00000371007 <i>e!</i>	NM_001276351.1	ENSP00000360046 <i>e!</i>	3
C1orf141 <i>e!</i>	upstream gene variant	333	ENST00000448166 <i>e!</i>	?	ENSP00000415519 <i>e!</i>	3
IL23R <i>e!</i>	downstream gene variant	746	ENST00000473881 <i>e!</i>	?	ENSP00000486667 <i>e!</i>	1
IL23R <i>e!</i>	upstream gene variant, downstream gene variant	306	ENST00000395227 <i>e!</i>	?	ENSP00000378652 <i>e!</i>	2
IL23R <i>e!</i>	downstream gene variant	1173	ENST00000425614 <i>e!</i>	?	ENSP00000387640 <i>e!</i>	1
IL23R <i>e!</i>	downstream gene variant	442	ENST00000347310 <i>e!</i>	NM_144701.2	ENSP00000321345 <i>e!</i>	1
RNU4ATAC4P <i>e!</i>	downstream gene variant, upstream gene variant	772	ENST00000516307 <i>e!</i>	?	?	4
RP11-131O15.2 <i>e!</i>	upstream gene variant	183	ENST00000432257 <i>e!</i>	?	?	4

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
C1orf141 <i>e!</i>	ENST00000371007 <i>e!</i>	NM_001276351.1	ENSP00000360046 <i>e!</i>	3
C1orf141 <i>e!</i>	ENST00000448166 <i>e!</i>	?	ENSP00000415519 <i>e!</i>	3
IL23R <i>e!</i>	ENST00000347310 <i>e!</i>	NM_144701.2	ENSP00000321345 <i>e!</i>	16
IL23R <i>e!</i>	ENST00000425614 <i>e!</i>	?	ENSP00000387640 <i>e!</i>	16

IL23R <i>e!</i>	ENST00000473881 <i>e!</i>	?	ENSP00000486667 <i>e!</i>	17
IL23R <i>e!</i>	ENST00000395227 <i>e!</i>	?	ENSP00000378652 <i>e!</i>	16
