

SNiPacard

Block annotations

Block info

genomic range	chr1:203,173,094-203,193,134 <i>e!</i>
block size	20,041 bp
variant count	14 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.357$ [-3.015 – 0.381]	gene(s) hit or close-by	CHIT1 <i>e!</i>
phastCons	$\mu = 0.005$ [0 – 0.039]	eQTL gene(s)	ADORA1 <i>e!</i> , CHIT1 <i>e!</i>
GERP++	$\mu = -1.325$ [-4.67 – 2.4]	potentially regulated gene(s)	-
CADD score	$\mu = 3.377$ [0.095 – 11.08]	disease gene(s)	CHIT1 <i>e!</i>




Trait annotations

Disease gene annotation

gene	trait	source DB	source entry/link
CHIT1 <i>e!</i>	CHITOTRIOSIDASE DEFICIENCY	OMIM	MIM:614122 

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
ADORA1 <i>e!</i>	?	ENSG00000163485 <i>e!</i>	transformed fibroblasts	1.36×10^{-6} (p-value)	GTEEx Portal V6 	12
CHIT1 <i>e!</i>	?	ENSG00000133063 <i>e!</i>	blood	1.71×10^{-8} (p-value)	GTEEx Portal V6 	14
CHIT1 <i>e!</i>	?	ENSG00000133063 <i>e!</i>	cortex	3.81×10^{-7} (p-value)	GTEEx Portal V6 	8

Putative effect on regulation

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00001527715 <i>e!</i> (promoter flanking region)	1	NHLF	DNase1
		embryonic stem cell (H1ESC)	DNase1, CTCF, Rad21
		HSMMtube	H3K27ac, DNase1
		Osteobl	H3K4me2, H3K27ac
		blood (DND-41)	H3K27me3
		blood (K562)	CTCF, H3K27me3
		skin (NHDF-AD)	DNase1
		breast (HMEC)	DNase1
		muscle (HSMM)	H3K4me1, H3K27ac, H3K36me3, DNase1
		cervix (HeLa-S3)	H3K27me3
		monocytes (Monocytes-CD14+)	H3K4me1, DNase1
		endothelium (HUVEC)	H3K27me3
		lung (IMR90)	DNase1, H3K4me1, H3K18ac, H3K27ac, H4K5ac
		nervous (NH-A)	DNase1
A549	H3K27me3		
ENSR00001527718 <i>e!</i> (open chromatin region)	2	endothelium (HUVEC)	H3K27me3
		blood (K562)	H3K27me3
		muscle (HSMM)	H3K27ac, H3K9ac, H3K36me3, DNase1

ENSR00001527719 <i>e!</i> (open chromatin region)	1	endothelium (HUVEC)	H3K27me3
		lung (IMR90)	H3K27me3
		blood (K562)	H3K27me3
		muscle (HSMM)	H3K27ac, DNase1
ENSR00001589716 <i>e!</i> (enhancer)	1	embryonic stem cell (H1ESC)	H3K27me3, Rad21
		HSMMtube	CTCF
		blood (K562)	CTCF, H3K27me3
		skin (NHDF-AD)	CTCF
		muscle (HSMM)	CTCF
		liver (HepG2)	Rad21, CTCF
		blood (GM12878)	Rad21, CTCF
		lung (IMR90)	CTCF, H3K27me3
		nervous (NH-A)	CTCF
		skin (NHEK)	CTCF
		Osteobl	CTCF
		blood (DND-41)	CTCF, H3K27me3
		breast (HMEC)	CTCF
		cervix (HeLa-S3)	CTCF, H3K27me3, DNase1
		monocytes (Monocytes-CD14+)	H3K27me3, DNase1, CTCF
endothelium (HUVEC)	H3K27me3		
A549	CTCF		

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
CHIT1 <i>e!</i>	downstream gene variant, upstream gene variant	609	ENST00000506427 <i>e!</i>	?	?	3
CHIT1 <i>e!</i>	downstream gene variant	1032	ENST00000255427 <i>e!</i>	NM_001256125.1	ENSP00000255427 <i>e!</i>	2
CHIT1 <i>e!</i>	downstream gene variant	593	ENST00000484834 <i>e!</i>	?	?	4
CHIT1 <i>e!</i>	downstream gene variant, upstream gene variant	601	ENST00000479483 <i>e!</i>	?	?	6
CHIT1 <i>e!</i>	downstream gene variant	1032	ENST00000491855 <i>e!</i>	?	ENSP00000423778 <i>e!</i>	2
CHIT1 <i>e!</i>	downstream gene variant	441	ENST00000367229 <i>e!</i>	NM_001270509.1, NM_003465.2	ENSP00000356198 <i>e!</i>	2
CHIT1 <i>e!</i>	downstream gene variant	1310	ENST00000503786 <i>e!</i>	?	ENSP00000421617 <i>e!</i>	2
CHIT1 <i>e!</i>	downstream gene variant	1454	ENST00000513472 <i>e!</i>	?	?	2

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
CHIT1 <i>e!</i>	ENST00000506427 <i>e!</i>	?	?	1
CHIT1 <i>e!</i>	ENST00000255427 <i>e!</i>	NM_001256125.1	ENSP00000255427 <i>e!</i>	3
CHIT1 <i>e!</i>	ENST00000484834 <i>e!</i>	?	?	4
CHIT1 <i>e!</i>	ENST00000479483 <i>e!</i>	?	?	1
CHIT1 <i>e!</i>	ENST00000491855 <i>e!</i>	?	ENSP00000423778 <i>e!</i>	3
CHIT1 <i>e!</i>	ENST00000367229 <i>e!</i>	NM_001270509.1, NM_003465.2	ENSP00000356198 <i>e!</i>	3
CHIT1 <i>e!</i>	ENST00000503786 <i>e!</i>	?	ENSP00000421617 <i>e!</i>	3
CHIT1 <i>e!</i>	ENST00000513472 <i>e!</i>	?	?	1

