

SNiPacard

Block annotations

Block info

genomic range	chr4:74,729,616-74,734,668 <i>e!</i>
block size	5,053 bp
variant count	9 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -1.100$ [-3.83 – 0.025]	gene(s) hit or close-by	CXCL1 <i>e!</i>
phastCons	$\mu = 0.000$ [0 – 0]	eQTL gene(s)	PF4V1 <i>e!</i>
GERP++	$\mu = -1.685$ [-5.79 – 2.96]	potentially regulated gene(s)	AC112518.3 <i>e!</i> , AFM <i>e!</i> , CXCL6 <i>e!</i> , EREG <i>e!</i> , MTHFD2L <i>e!</i>
CADD score	$\mu = 2.606$ [0.082 – 7.402]	disease gene(s)	-

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
PF4V1 <i>e!</i>	?	ENSG00000109272 <i>e!</i>	blood	4.49×10 ⁻⁶ (p-value)	GTEx Portal V6 <i>!m</i>	7
PF4V1 <i>e!</i>	?	ENSG00000109272 <i>e!</i>	breast	4.04×10 ⁻⁶ (p-value)	GTEx Portal V6 <i>!m</i>	7
PF4V1 <i>e!</i>	ENST00000226524 <i>e!</i>	ILMN_1745522 <i>e!</i>	monocyte	3.56×10 ⁻¹⁷ (p-value)	Zeller et al. <i>!m</i>	4
PF4V1 <i>e!</i>	?	ENSG00000109272 <i>e!</i>	transformed fibroblasts	8.50×10 ⁻⁶ (p-value)	GTEx Portal V6 <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)
ENCE00000382197 <i>e!</i>	1	ENCP000000041379	MTHFD2L <i>e!</i>
		ENCP000000041366	CXCL6 <i>e!</i>
		ENCP000000041383	EREG <i>e!</i>
		ENCP000000041357	AFM <i>e!</i>
		ENCP000000041361	AC112518.3 <i>e!</i>

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00001432039 <i>e!</i> (CTCF binding site)	2	embryonic stem cell (H1ESC)	Rad21, CTCF, DNase1
		HSMMtube	H3K27me3
		blood (K562)	Rad21, CTCF
		blood (DND-41)	CTCF
		skin (NHDF-AD)	DNase1
		breast (HMEC)	CTCF
		cervix (HeLa-S3)	CTCF
		endothelium (HUVEC)	H3K36me3, CTCF
		liver (HepG2)	CTCF, Rad21
		lung (IMR90)	H3K27me3
		blood (GM12878)	CTCF
		A549	CTCF
		skin (NHEK)	CTCF
ENSR00001685779 <i>e!</i> (enhancer)	1	monocytes (Monocytes-CD14+)	DNase1
		lung (IMR90)	H3K27me3

ENSR00001242853 <i>e!</i> (CTCF binding site)	1	embryonic stem cell (H1ESC)	H3K27me3, Rad21, CTCF, DNase1
		HSMMtube	H3K27me3
		breast (HMEC)	CTCF
		cervix (HeLa-S3)	CTCF
		monocytes (Monocytes-CD14+)	H3K27me3
		liver (HepG2)	H3K27me3
		lung (IMR90)	H3K27me3
		A549	H3K4me3, H3K4me2, DNase1
		skin (NHEK)	H3K4me1, H3K9ac, H3K4me2, CTCF, DNase1
		ENSR00001242854 <i>e!</i> (promoter)	1
HSMMtube	H2AZ, H3K27me3		
blood (K562)	CTCF, Rad21, H3K9ac, H2AZ, H3K4me2, H3K4me3, H3K27me3		
skin (NHDF-AD)	H3K4me3, H3K4me2		
muscle (HSMM)	H3K4me3, H2AZ		
liver (HepG2)	H3K27me3		
lung (IMR90)	H3K27me3, H3K4me3		
blood (GM12878)	H3K27me3		
nervous (NH-A)	H3K4me2, H3K27me3		
skin (NHEK)	H3K27ac, H3K9ac, H3K4me2, H3K4me3, CTCF, DNase1, H3K4me1		
NHLF	H3K9ac, H3K4me3		
Osteobl	H3K4me2, H3K4me3, H2AZ		
blood (DND-41)	H3K27me3		
breast (HMEC)	H3K27ac, H3K4me3, H3K9ac, H3K4me2, CTCF		
cervix (HeLa-S3)	CTCF		
monocytes (Monocytes-CD14+)	H3K27ac, H3K9ac, H3K27me3, H3K4me3		
endothelium (HUVEC)	H3K4me3, PolII		
A549	H3K4me3, H3K4me2, H3K9ac, DNase1, H3K36me3		

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
CXCL1 <i>e!</i>	upstream gene variant	442	ENST00000509101 <i>e!</i>	?	?	7
CXCL1 <i>e!</i>	upstream gene variant	453	ENST00000395761 <i>e!</i>	NM_001511.3	ENSP00000379110 <i>e!</i>	7

