

SNiPACard

Block annotations

Block info


genomic range	chr7:83,224,626-83,287,607 <i>e!</i>
block size	62,982 bp
variant count	24 variants

Basic features


Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.337$ [-2.51 – 0.531]	gene(s) hit or close-by	SEMA3E <i>e!</i>
phastCons	$\mu = 0.018$ [0 – 0.12]	eQTL gene(s)	SEMA3E <i>e!</i>
GERP++	$\mu = -0.310$ [-3.15 – 2.13]	potentially regulated gene(s)	-
CADD score	$\mu = 2.926$ [0.263 – 7.555]	disease gene(s)	SEMA3E <i>e!</i>

Trait annotations

Variant association









trait	min(p-value)	source DB	source entry/link	variant(s)
1-eicosadienoylglycerophosphocholine*	9.31×10 ⁻⁵	Metabolomics GWAS Server	24816252 	1

Disease gene annotation

gene	trait	source DB	source entry/link
SEMA3E <i>e!</i>	CHARGE SYNDROME	OrphaNet	OrphaNet:138 

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	gastroesophageal junction	2.51×10 ⁻⁷ (p-value)	GTEx Portal V6 	20
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	muscularis mucosae	8.25×10 ⁻¹⁰ (p-value)	GTEx Portal V6 	23
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	breast	2.96×10 ⁻⁸ (p-value)	GTEx Portal V6 	22
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	subcutaneous adipocytes	2.84×10 ⁻⁹ (p-value)	GTEx Portal V6 	23
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	thyroid	1.32×10 ⁻¹² (p-value)	GTEx Portal V6 	24
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	tibial nerve	8.70×10 ⁻⁶ (p-value)	GTEx Portal V6 	4
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	transformed fibroblasts	5.95×10 ⁻⁷ (p-value)	GTEx Portal V6 	9
SEMA3E <i>e!</i>	?	ENSG00000170381 <i>e!</i>	esophagus mucosa	1.91×10 ⁻⁶ (p-value)	GTEx Portal V6 	2

Putative effect on regulation

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00001561427 <i>e!</i> (promoter)	1	embryonic stem cell (H1ESC) HSMtube Osteobl	H3K27me3, Rad21, H3K4me2, USF1, H3K4me3, DNase1 H3K4me2, H3K27me3 H3K27me3, H3K4me2

blood (DND-41)	H3K27me3
skin (NHDF-AD)	H3K4me3, H3K4me2
breast (HMEC)	H3K4me2, H3K4me3
cervix (HeLa-S3)	H3K27me3
monocytes (Monocytes-CD14+)	H3K27me3
endothelium (HUVEC)	H3K36me3, H3K27me3
liver (HepG2)	H3K27me3
nervous (NH-A)	H3K9ac, H3K4me2, H3K4me3, DNase1
A549	H3K4me3, H3K4me2, H3K9ac, H3K27me3
skin (NHEK)	H3K4me2, H3K27me3

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
SEMA3E <i>e!</i>	upstream gene variant	101	ENST00000453333 <i>e!</i>	?	ENSP00000415184 <i>e!</i>	3
SEMA3E <i>e!</i>	upstream gene variant	2987	ENST00000442159 <i>e!</i>	?	ENSP00000412867 <i>e!</i>	2
SEMA3E <i>e!</i>	upstream gene variant	4879	ENST00000427262 <i>e!</i>	NM_001178129.1	ENSP00000405052 <i>e!</i>	1
SEMA3E <i>e!</i>	upstream gene variant	567	ENST00000307792 <i>e!</i>	NM_012431.2	ENSP00000303212 <i>e!</i>	2

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
SEMA3E <i>e!</i>	ENST00000307792 <i>e!</i>	NM_012431.2	ENSP00000303212 <i>e!</i>	19
SEMA3E <i>e!</i>	ENST00000427262 <i>e!</i>	NM_001178129.1	ENSP00000405052 <i>e!</i>	18
SEMA3E <i>e!</i>	ENST00000453333 <i>e!</i>	?	ENSP00000415184 <i>e!</i>	19
SEMA3E <i>e!</i>	ENST00000442159 <i>e!</i>	?	ENSP00000412867 <i>e!</i>	7

5'-UTR variant

gene	affected transcript	RefSeq id	protein	variant(s)
SEMA3E <i>e!</i>	ENST00000307792 <i>e!</i>	NM_012431.2	ENSP00000303212 <i>e!</i>	1

