

SNiPACard

Block annotations

Block info





genomic range	chr1:205,028,581-205,087,683 <i>e!</i>
block size	59,103 bp
variant count	19 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.211$ [-1.802 – 1.411]	gene(s) hit or close-by	AL583832.1 <i>e!</i> , CNTN2 <i>e!</i> , RBBP5 <i>e!</i> , RP11-536L3.4 <i>e!</i> , TMEM81 <i>e!</i>
phastCons	$\mu = 0.014$ [0 – 0.121]	eQTL gene(s)	CNTN2 <i>e!</i> , DSTYK <i>e!</i> , RBBP5 <i>e!</i> , TMCC2 <i>e!</i>
GERP++	$\mu = -0.422$ [-5.23 – 3.62]	potentially regulated gene(s)	CNTN2 <i>e!</i>
CADD score	$\mu = 3.701$ [0.3 – 8.736]	disease gene(s)	CNTN2 <i>e!</i> , DSTYK <i>e!</i>







Trait annotations

Disease gene annotation


gene	trait	source DB	source entry/link
CNTN2 <i>e!</i>	EPILEPSY, FAMILIAL ADULT MYOCLONIC, 5	OMIM	MIM:615400 
DSTYK <i>e!</i>	CONGENITAL ANOMALIES OF KIDNEY AND URINARY TRACT, SUSCEPTIBILITY [...]	OMIM	MIM:610805 
CNTN2 <i>e!</i>	Benign adult familial myoclonic epilepsy	OrphaNet	OrphaNet:86814 
DSTYK <i>e!</i>	CONGENITAL ANOMALIES OF KIDNEY AND URINARY TRACT, CAKUT1	DECIPHER	MIM:610805 

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
RBBP5 <i>e!</i>	?	ENSG00000117222 <i>e!</i>	transformed fibroblasts	7.58×10 ⁻⁶ (p-value)	GTEx Portal V6 	1
RBBP5 <i>e!</i>	?	ENSG00000117222 <i>e!</i>	tibial artery	4.05×10 ⁻⁶ (p-value)	GTEx Portal V6 	1
TMCC2 <i>e!</i>	?	ENSG00000133069 <i>e!</i>	tibial artery	1.25×10 ⁻⁵ (p-value)	GTEx Portal V6 	2
RBBP5 <i>e!</i>	?	ENSG00000117222 <i>e!</i>	thyroid	7.76×10 ⁻⁶ (p-value)	GTEx Portal V6 	12
DSTYK <i>e!</i>	ENST00000367162 <i>e!</i>	ILMN_2352023 <i>e!</i>	monocyte	1.18×10 ⁻³² (p-value)	Zeller et al. 	1
DSTYK <i>e!</i>	ENST00000367161 <i>e!</i>					
CNTN2 <i>e!</i>	?	ENSG00000184144 <i>e!</i>	unexposed skin	9.06×10 ⁻⁶ (p-value)	GTEx Portal V6 	1

trans-eQTL

gene	transcript	probe	chromosome	tissue	min(statistic) (type)	source	variant(s)
RBBP5 <i>e!</i>	ENST00000264515 <i>e!</i>	205169_at <i>e!</i>	chr1	blood	7.50×10 ⁻⁸ (p-value)	Dixon et al. 	1
RBBP5 <i>e!</i>	ENST00000367164 <i>e!</i>						

Putative effect on regulation

ENCODE promoter-associated DHS

SNiPA promoter id	variant(s)	associated gene(s)
ENCP00000006260 <i>e!</i>		

Regulatory feature cluster

element id	variant(s)	tissue/cell	factors
ENSR00000167977 <i>e!</i> (CTCF binding site)	1	embryonic stem cell (H1ESC) HSMMtube blood (K562) skin (NHDF-AD) muscle (HSMM) liver (HepG2) blood (GM12878) lung (IMR90) nervous (NH-A) skin (NHEK) NHLF Osteobl blood (DND-41) breast (HMEC) cervix (HeLa-S3) monocytes (Monocytes-CD14+) endothelium (HUVEC) A549	Rad21, CTCF, DNase1 CTCF, H3K27me3 Rad21, CTCF, DNase1, H3K27me3 CTCF CTCF Rad21, CTCF DNase1, Rad21, CTCF H3K27me3, CTCF CTCF CTCF CTCF CTCF CTCF CTCF CTCF CTCF CTCF, DNase1 CTCF H3K36me3, CTCF, H3K27me3, DNase1 CTCF

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
AL583832.1 <i>e!</i>	upstream gene variant, downstream gene variant	274	ENST00000515887 <i>e!</i>	? ?	?	4
CNTN2 <i>e!</i>	downstream gene variant	855	ENST00000331830 <i>e!</i>	NM_005076.3	ENSP00000330633 <i>e!</i>	2
CNTN2 <i>e!</i>	upstream gene variant, downstream gene variant	486	ENST00000525433 <i>e!</i>	? ?	?	5
CNTN2 <i>e!</i>	downstream gene variant	1039	ENST00000532366 <i>e!</i>	? ?	?	4
CNTN2 <i>e!</i>	upstream gene variant, downstream gene variant	100	ENST00000527340 <i>e!</i>	? ?	?	3
CNTN2 <i>e!</i>	upstream gene variant, downstream gene variant	1937	ENST00000530594 <i>e!</i>	? ?	?	5
CNTN2 <i>e!</i>	downstream gene variant	758	ENST00000481872 <i>e!</i>	? ?	?	4
CNTN2 <i>e!</i>	downstream gene variant	281	ENST00000530117 <i>e!</i>	? ?	?	2
RP11-536L3.4 <i>e!</i>	downstream gene variant	460	ENST00000603227 <i>e!</i>	? ?	?	2
TMEM81 <i>e!</i>	downstream gene variant	3641	ENST00000367167 <i>e!</i>	NM_203376.1	ENSP00000356135 <i>e!</i>	2

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
CNTN2 <i>e!</i>	ENST00000481872 <i>e!</i>	? ?	?	8
CNTN2 <i>e!</i>	ENST00000525433 <i>e!</i>	? ?	?	1
CNTN2 <i>e!</i>	ENST00000530117 <i>e!</i>	? ?	?	2
CNTN2 <i>e!</i>	ENST00000331830 <i>e!</i>	NM_005076.3	ENSP00000330633 <i>e!</i>	8
CNTN2 <i>e!</i>	ENST00000527340 <i>e!</i>	? ?	?	2
RBBP5 <i>e!</i>	ENST00000264515 <i>e!</i>	NM_005057.3, NM_001193273.1	ENSP00000264515 <i>e!</i>	7
RBBP5 <i>e!</i>	ENST00000367164 <i>e!</i>	NM_001193272.1	ENSP00000356132 <i>e!</i>	7
RBBP5 <i>e!</i>	ENST00000484379 <i>e!</i>	? ?	?	5

3'-UTR variant

gene	affected transcript	RefSeq id	protein	variant(s)
CNTN2 <i>e!</i>	ENST00000331830 <i>e!</i>	NM_005076.3	ENSP00000330633 <i>e!</i>	2

