

SNiPACard

Block annotations

Block info















genomic range	chr6:42,824,756-42,892,495 <i>e!</i>
block size	67,740 bp
variant count	71 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	$\mu = -0.793$ [-7.379 – 3.635]	gene(s) hit or close-by	C6orf226 <i>e!</i> , CNPY3 <i>e!</i> , GLTSCR1L <i>e!</i> , PTCRA <i>e!</i> , RPL7L1 <i>e!</i>
phastCons	$\mu = 0.074$ [0 – 1]	eQTL gene(s)	C6orf226 <i>e!</i> , PEX6 <i>e!</i> , RPL7L1 <i>e!</i> , RPL7P21 <i>e!</i>
GERP++	$\mu = -0.003$ [-4.25 – 4.82]	potentially regulated gene(s)	CUL9 <i>e!</i> , PRPH2 <i>e!</i> , PTCRA <i>e!</i> , PTK7 <i>e!</i> , RP11-480N24.4 <i>e!</i>
CADD score	$\mu = 4.608$ [0.014 – 25.7]	disease gene(s)	PEX6 <i>e!</i> , PRPH2 <i>e!</i>

Trait annotations

Disease gene annotation

gene	trait	source DB	source entry/link
PEX6 <i>e!</i>	PEROXISOME BIOGENESIS DISORDER 4A (ZELLWEGER)	OMIM	MIM:614862 
PEX6 <i>e!</i>	PEROXISOME BIOGENESIS DISORDER 4B	OMIM	MIM:614863 
PEX6 <i>e!</i>	peroxisome biogenesis disorder complementation group 4 (PBD-CG4)	DECIPHER	MIM:601498 
PEX6 <i>e!</i>	Zellweger syndrome (ZWS)	DECIPHER	MIM:214100 
PEX6 <i>e!</i>	NEONATAL ADRENOLEUKODYSTROPHY	OrphaNet	OrphaNet:44 
PEX6 <i>e!</i>	Infantile Refsum disease	OrphaNet	OrphaNet:772 
PEX6 <i>e!</i>	ZELLWEGER SYNDROME	OrphaNet	OrphaNet:912 
PRPH2 <i>e!</i>	Butterfly-shaped pigment dystrophy	OrphaNet	OrphaNet:99001 
PRPH2 <i>e!</i>	Retinitis pigmentosa	OrphaNet	OrphaNet:791 
PRPH2 <i>e!</i>	Central areolar choroidal dystrophy	OrphaNet	OrphaNet:75377 
PRPH2 <i>e!</i>	Adult-onset foveomacular vitelliform dystrophy	OrphaNet	OrphaNet:99000 
PRPH2 <i>e!</i>	RETINITIS PUNCTATA ALBESCENS	OrphaNet	OrphaNet:52427 
PRPH2 <i>e!</i>	FUNDUS ALBIPUNCTATUS	OrphaNet	OrphaNet:227796 
PRPH2 <i>e!</i>	Cone-rod dystrophy	OrphaNet	OrphaNet:1872 



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)
PTCRA <i>e!</i>	missense variant	ENST00000616441 <i>e!</i>	NM_001243168.1	ENSP00000477815 I/V <i>e!</i>		Atc/Gtc	?	?	1
PTCRA <i>e!</i>	missense variant	ENST00000304672 <i>e!</i>	NM_138296.2	ENSP00000304447 I/V <i>e!</i>		Atc/Gtc	?	?	1
PTCRA <i>e!</i>	missense variant	ENST00000441198 <i>e!</i>	NM_001243169.1	ENSP00000409550 I/V <i>e!</i>		Atc/Gtc	?	?	1

Direct effect on regulation

cis-eQTL

gene	transcript	probe	tissue	min(statistic) (type)	source	variant(s)
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	muscularis mucosae	2.73×10 ⁻¹⁰ (p-value)	GTEx Portal V6 	66
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	muscularis mucosae	7.85×10 ⁻⁶ (p-value)	GTEx Portal V6 	5

RPL7L1	?	ENSG00000146223	lung	1.53×10 ⁻⁸ (p-value)	GTEEx Portal V6	42
PEX6	?	ENSG00000124587	lung	2.54×10 ⁻¹² (p-value)	GTEEx Portal V6	66
RPL7L1	?	ENSG00000146223	transformed fibroblasts	4.14×10 ⁻²⁴ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	transformed fibroblasts	2.36×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	61
RPL7L1	?	ENSG00000146223	tibial artery	9.04×10 ⁻¹⁷ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	tibial artery	5.99×10 ⁻⁹ (p-value)	GTEEx Portal V6	33
RPL7L1	?	ENSG00000146223	breast	1.18×10 ⁻¹³ (p-value)	GTEEx Portal V6	65
PEX6	?	ENSG00000124587	breast	2.13×10 ⁻⁷ (p-value)	GTEEx Portal V6	23
RPL7L1	?	ENSG00000146223	blood	3.26×10 ⁻⁹ (p-value)	GTEEx Portal V6	62
PEX6	?	ENSG00000124587	blood	2.64×10 ⁻⁹ (p-value)	GTEEx Portal V6	33
RPL7L1	?	ENSG00000146223	thyroid	2.79×10 ⁻⁸ (p-value)	GTEEx Portal V6	41
PEX6	?	ENSG00000124587	thyroid	8.77×10 ⁻⁹ (p-value)	GTEEx Portal V6	33
PEX6	ENST00000304611	ILMN_1683279	monocyte	2.16×10 ⁻¹⁴ (p-value)	Fairfax et al.	9
PEX6	ENST00000244546		b-cell	9.71×10 ⁻¹³ (p-value)	Fairfax et al.	9
RPL7L1	?	ENSG00000146223	skeletal muscle	1.23×10 ⁻¹⁹ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	skeletal muscle	4.96×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	50
PEX6	?	ENSG00000124587	blood	5.06×10 ⁻⁶ (q-value)	SeeQTL DB (HapMap)	12
RPL7L1	?	ENSG00000146223	transverse colon	5.22×10 ⁻¹¹ (p-value)	GTEEx Portal V6	65
PEX6	?	ENSG00000124587	transverse colon	3.92×10 ⁻⁶ (p-value)	GTEEx Portal V6	7
RPL7L1	?	ENSG00000146223	unexposed skin	5.02×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	55
PEX6	?	ENSG00000124587	unexposed skin	8.55×10 ⁻⁹ (p-value)	GTEEx Portal V6	55
RPL7L1	?	ENSG00000146223	sun exposed skin	7.59×10 ⁻¹⁸ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	sun exposed skin	1.57×10 ⁻¹¹ (p-value)	GTEEx Portal V6	64
C6orf226	?	ENSG00000221821	sun exposed skin	8.24×10 ⁻⁶ (p-value)	GTEEx Portal V6	5
RPL7L1	?	ENSG00000146223	aorta	3.25×10 ⁻¹² (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	aorta	8.93×10 ⁻⁷ (p-value)	GTEEx Portal V6	5
RPL7L1	?	ENSG00000146223	left ventricle	3.73×10 ⁻¹² (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	left ventricle	5.40×10 ⁻⁷ (p-value)	GTEEx Portal V6	6
RPL7L1	?	ENSG00000146223	subcutaneous adipocytes	6.97×10 ⁻¹⁶ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	subcutaneous adipocytes	4.18×10 ⁻¹⁰ (p-value)	GTEEx Portal V6	65
RPL7L1	?	ENSG00000146223	tibial nerve	2.06×10 ⁻¹¹ (p-value)	GTEEx Portal V6	66
PEX6	?	ENSG00000124587	tibial nerve	5.09×10 ⁻¹² (p-value)	GTEEx Portal V6	65
C6orf226	?	ENSG00000221821	tibial nerve	2.55×10 ⁻⁶ (p-value)	GTEEx Portal V6	6
RPL7L1	?	ENSG00000146223	esophagus mucosa	9.20×10 ⁻¹³ (p-value)	GTEEx Portal V6	46
PEX6	?	ENSG00000124587	esophagus mucosa	1.28×10 ⁻⁹ (p-value)	GTEEx Portal V6	64

RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	gastroesophageal junction	3.82×10 ⁻⁸ (p-value)	GTEEx Portal V6 <i>!M</i>	58
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	testis	3.65×10 ⁻¹³ (p-value)	GTEEx Portal V6 <i>!M</i>	66
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	testis	1.26×10 ⁻⁸ (p-value)	GTEEx Portal V6 <i>!M</i>	64
PEX6 <i>e!</i>	ENST00000304611 <i>e!</i>	ILMN_1683279 <i>e!</i>	skin	1.78×10 ⁻¹³ (p-value)	MuTHER consortium <i>!M</i>	22
PEX6 <i>e!</i>	ENST00000244546 <i>e!</i>		blood	6.63×10 ⁻¹⁸ (p-value)	MuTHER consortium <i>!M</i>	22
			adipocyte	2.33×10 ⁻¹⁶ (p-value)	MuTHER consortium <i>!M</i>	22
PEX6 <i>e!</i>	ENST00000304611 <i>e!</i>	ILMN_1683279 <i>e!</i>	monocyte	2.55×10 ⁻⁶⁰ (p-value)	Zeller et al. <i>!M</i>	6
PEX6 <i>e!</i>	ENST00000244546 <i>e!</i>					
?	?	ILMN_1736238 <i>e!</i>	monocyte	2.91×10 ⁻²¹ (p-value)	Zeller et al. <i>!M</i>	6
RPL7L1 <i>e!</i>	ENST00000493763 <i>e!</i>	ILMN_1705908 <i>e!</i>	monocyte	6.06×10 ⁻¹³ (p-value)	Zeller et al. <i>!M</i>	2
RPL7P21 <i>e!</i>	ENST00000478287 <i>e!</i>					
RPL7L1 <i>e!</i>	ENST00000397415 <i>e!</i>					
RPL7L1 <i>e!</i>	ENST00000462348 <i>e!</i>					
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	nucleus accumbens	4.29×10 ⁻⁷ (p-value)	GTEEx Portal V6 <i>!M</i>	28
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	atrial appendage	1.62×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	10
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	cerebellar hemisphere	7.46×10 ⁻¹¹ (p-value)	GTEEx Portal V6 <i>!M</i>	60
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	pancreas	2.81×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	29
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	frontal cortex	1.58×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	4
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	visceral adipocytes	4.28×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	13
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	stomach	1.53×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	10
RPL7L1 <i>e!</i>	?	ENSG00000146223 <i>e!</i>	cerebellum	7.31×10 ⁻⁶ (p-value)	GTEEx Portal V6 <i>!M</i>	1
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	brain	2.62×10 ⁻⁵ (q-value)	SeeQTL DB (Myers et al.) <i>!M</i>	2
PEX6 <i>e!</i>	ENST00000304611 <i>e!</i>	204545_at <i>e!</i>	blood	6.70×10 ⁻⁸ (p-value)	Dixon et al. <i>!M</i>	1
PEX6 <i>e!</i>	ENST00000244546 <i>e!</i>					
PEX6 <i>e!</i>	ENST00000304611 <i>e!</i>	320_at <i>e!</i>	blood	2.60×10 ⁻⁸ (p-value)	Dixon et al. <i>!M</i>	1
PEX6 <i>e!</i>	ENST00000244546 <i>e!</i>					

trans-eQTL

gene	transcript	probe	chromosome	tissue	min(statistic) (type)	source	variant(s)
PEX6 <i>e!</i>	?	ENSG00000124587 <i>e!</i>	chr6	brain	3.58×10 ⁻³ (q-value)	SeeQTL DB (Myers et al.) <i>!M</i>	2

Putative effect on regulation

Transcription factor binding site variation

transcription factor	binding motif	motif position	highly informative position	score change	variant(s)
EGR1	MA0341.1	2	yes	0.000	1
EGR1	MA0366.1	2	yes	0.000	1
EGR1	MA0162.2	11	yes	0.000	1

FANTOM5 expressed promoter

SNiPA promoter id	variant(s)	associated transcript(s)	gene
FFCP00000746055 <i>e!</i>	1	ENST00000304672 <i>e!</i> , ENST00000441198 <i>e!</i>	PTCRA <i>e!</i>

ENCODE promoter-associated DHS

SNiPA promoter id	variant(s)	associated gene(s)
ENCP00000048629 <i>e!</i>		

ENCODE promoter-associated distal DHS (Enhancer)

SNiPA enhancer id	variant(s)	associated SNiPA promoter id	associated gene(s)
ENCE00000449464 <i>e!</i>	1	ENCP00000048621	PRPH2 <i>e!</i>
		ENCP00000048658	CUL9 <i>e!</i>
		ENCP00000048660	CUL9 <i>e!</i>
ENCE00000449466 <i>e!</i>	1	ENCP00000048621	PRPH2 <i>e!</i>
		ENCP00000048658	CUL9 <i>e!</i>
		ENCP00000048660	CUL9 <i>e!</i>
ENCE00000449798 <i>e!</i>	1	ENCP00000048674	RP11-480N24.4 <i>e!</i>
ENCE00000449690 <i>e!</i>	1	ENCP00000048649	PTK7 <i>e!</i>
ENCE00000449547 <i>e!</i>	1	ENCP00000048629	PTCRA <i>e!</i>
		ENCP00000048651	PTK7 <i>e!</i>



Regulatory feature cluster

element id	variant(s)	tissue/cell	factors		
ENSR00001216922 <i>e!</i> (promoter)	1	embryonic stem cell (H1ESC)	DNase1, H4K5ac, H3K36me3, H3K27me3, PolII, Jun, TAF7, p300, H3K27ac, Yy1, TAF1, H3K4me2, H3K9ac, H3K4me3		
		HSMMtube	H3K36me3, DNase1, H2AZ, H3K4me3, H3K27ac, H3K9ac, H3K4me2		
		blood (K562)	PolII, H3K36me3		
		skin (NHDF-AD)	H3K4me3, DNase1, H3K9ac, H3K4me2, H3K27ac		
		muscle (HSMM)	H2AZ, H3K4me3, H3K27ac, H3K4me2, H3K9ac, H3K36me3, DNase1		
		liver (HepG2)	DNase1, TAF1, ELF1, H3K4me1, H2AZ, H3K4me2, H3K9ac, H3K27ac, Cmyc, H3K4me3, H3K36me3, PolII, Jun, Gabp		
		blood (GM12878)	DNase1, Gabp, ELF1, H3K4me3, H3K27ac, H3K4me2, H3K9ac, H3K36me3, H2AZ, PolII		
		lung (IMR90)	H3K36me3, H3K4me3, H3K9ac, H3K4me2, H3K27ac, DNase1		
		nervous (NH-A)	DNase1, H3K9ac, H3K4me2, H3K4me3, H3K27ac, H3K36me3		
		skin (NHEK)	H3K27ac, H3K9ac, H3K4me2, H3K4me3, H3K36me3, DNase1		
		NHLF	H3K27ac, H3K9ac, H3K4me3, DNase1		
		Osteobl	H3K4me2, H3K4me3, H3K27ac, H2AZ, H3K36me3		
		blood (DND-41)	H3K4me1, H3K27ac, H3K9ac, H3K4me3, H3K36me3		
		breast (HMEC)	DNase1, H3K27ac, H3K4me3, H3K4me2, H3K36me3		
		cervix (HeLa-S3)	H3K9ac, H3K4me2, H3K27ac, TAF1, H3K4me3, Gabp, PolII, H3K36me3, DNase1		
		monocytes (Monocytes-CD14+)	DNase1, H3K27ac, H3K9ac, H3K36me3, H3K4me3		
		endothelium (HUVEC)	Cmyc, H3K36me3, DNase1, Max, H3K4me3, PolII		
		A549	H3K4me3, H3K4me2, H3K9ac, DNase1, H3K27ac, H3K36me3		
		ENSR00001216923 <i>e!</i> (promoter flanking region)	6	monocytes (Monocytes-CD14+)	H3K4me1
				embryonic stem cell (H1ESC)	DNase1
liver (HepG2)	H3K4me3, H3K4me1, H3K4me2				
blood (GM12878)	H2AZ, PU1				
blood (K562)	DNase1, Max, PU1				
ENSR00001703966 <i>e!</i> (promoter flanking region)	1	embryonic stem cell (H1ESC)	Rad21, CTCF, DNase1		
		HSMMtube	CTCF		
		blood (K562)	DNase1, Rad21, CTCF		
		skin (NHDF-AD)	CTCF		
		muscle (HSMM)	CTCF		
		liver (HepG2)	Rad21, CTCF		
		lung (IMR90)	CTCF		
		blood (GM12878)	DNase1, Rad21, CTCF		
		skin (NHEK)	CTCF		
		NHLF	CTCF		
		Osteobl	CTCF		
		blood (DND-41)	CTCF		
		breast (HMEC)	CTCF		
		cervix (HeLa-S3)	CTCF		
		monocytes (Monocytes-CD14+)	DNase1, CTCF		

		endothelium (HUVEC)	H3K36me3, CTCF
		A549	CTCF
ENSR00001216924 <i>e!</i>	1	embryonic stem cell (H1ESC)	DNase1, CTCF, Rad21
(CTCF binding site)		HSMMtube	CTCF
		blood (K562)	DNase1, Rad21, CTCF
		skin (NHDF-AD)	CTCF
		muscle (HSMM)	CTCF
		liver (HepG2)	Rad21, CTCF
		lung (IMR90)	CTCF
		blood (GM12878)	DNase1, Rad21, CTCF
		nervous (NH-A)	CTCF
		skin (NHEK)	CTCF
		NHLF	CTCF
		Osteobl	CTCF
		blood (DND-41)	CTCF
		breast (HMEC)	CTCF
		cervix (HeLa-S3)	CTCF
		monocytes (Monocytes-CD14+)	DNase1, CTCF
		endothelium (HUVEC)	H3K36me3, CTCF
		A549	CTCF
ENSR00001495377 <i>e!</i>	1	Osteobl	H3K27me3, CTCF
(enhancer)		blood (DND-41)	CTCF
		blood (K562)	DNase1, CTCF
		muscle (HSMM)	CTCF
		cervix (HeLa-S3)	CTCF
		monocytes (Monocytes-CD14+)	CTCF
		liver (HepG2)	CTCF
		blood (GM12878)	Rad21, CTCF
		A549	CTCF
		skin (NHEK)	CTCF
ENSR00001216925 <i>e!</i>	2	embryonic stem cell (H1ESC)	Rad21, CTCF, DNase1
(CTCF binding site)		HSMMtube	CTCF
		blood (K562)	DNase1, H2AZ, Rad21, CTCF
		skin (NHDF-AD)	CTCF, DNase1
		muscle (HSMM)	CTCF
		liver (HepG2)	H3K4me3, Rad21, H2AZ, H3K4me2, CTCF, DNase1
		lung (IMR90)	DNase1, CTCF
		blood (GM12878)	H2AZ, Rad21, CTCF
		nervous (NH-A)	CTCF
		skin (NHEK)	CTCF
		NHLF	CTCF
		Osteobl	H3K4me2, CTCF
		blood (DND-41)	CTCF
		breast (HMEC)	CTCF, H3K4me2
		cervix (HeLa-S3)	CTCF, DNase1
		monocytes (Monocytes-CD14+)	DNase1, CTCF
		endothelium (HUVEC)	H3K36me3, CTCF
		A549	CTCF, DNase1, H3K27me3
ENSR00001703967 <i>e!</i>	4	embryonic stem cell (H1ESC)	Rad21, CTCF, DNase1
(promoter flanking region)		HSMMtube	CTCF
		blood (K562)	H2AZ, Rad21, CTCF, DNase1, PU1
		skin (NHDF-AD)	CTCF, DNase1
		muscle (HSMM)	CTCF
		liver (HepG2)	H3K4me3, PolII, Rad21, H3K4me1, H2AZ, H3K4me2, CTCF, DNase1
		blood (GM12878)	H2AZ, Rad21, CTCF
		lung (IMR90)	DNase1, CTCF
		nervous (NH-A)	CTCF
		skin (NHEK)	CTCF
		NHLF	CTCF
		Osteobl	H3K4me2, CTCF
		blood (DND-41)	CTCF
		breast (HMEC)	H3K4me2, CTCF
		cervix (HeLa-S3)	DNase1, CTCF
		monocytes (Monocytes-CD14+)	CTCF, DNase1

		endothelium (HUVEC)	H3K36me3, CTCF
		A549	H3K27me3, DNase1, CTCF
ENSR00001216929 <i>e!</i>	1	cervix (HeLa-S3)	DNase1
(promoter flanking region)		monocytes (Monocytes-CD14+)	H3K27me3
		embryonic stem cell (H1ESC)	DNase1, H3K9ac, PolII, Rad21, Egr1, CTCF, Yy1, HDAC2, Tcf12, TAF1, H3K4me2, H3K4me3
		endothelium (HUVEC)	H3K36me3, H3K27me3
		liver (HepG2)	DNase1, H3K4me3, H3K4me2
		Osteobl	H3K4me2
		nervous (NH-A)	DNase1
ENSR00001216930 <i>e!</i>	1	lung (IMR90)	H3K27me3
(open chromatin region)		blood (GM12878)	DNase1, H2AZ
		blood (K562)	H3K27me3
ENSR00001216931 <i>e!</i>	1	liver (HepG2)	H3K4me1
(enhancer)			
ENSR00001216932 <i>e!</i>	1	monocytes (Monocytes-CD14+)	H3K4me1
(enhancer)		blood (K562)	DNase1, H3K36me3
		muscle (HSMM)	DNase1

Variation in RISC binding site

gene	variant(s)	affected transcript(s)	targeting miRNA(s)
RPL7L1 <i>e!</i>	1	ENST00000304734 <i>e!</i> ENST00000397415 <i>e!</i> ENST00000459829 <i>e!</i> ENST00000483998 <i>e!</i> ENST00000493763 <i>e!</i>	hsa-miR-1271-5p  hsa-miR-96-5p 

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
C6orf226 <i>e!</i>	downstream gene variant, upstream gene variant	176	ENST00000408925 <i>e!</i>	NM_001008739.1	ENSP00000386146 <i>e!</i>	19
CNPY3 <i>e!</i>	upstream gene variant	4443	ENST00000372836 <i>e!</i>	NM_006586.3	ENSP00000361926 <i>e!</i>	1
CNPY3 <i>e!</i>	upstream gene variant	4435	ENST00000394142 <i>e!</i>	?	ENSP00000377698 <i>e!</i>	1
GLTSCR1L <i>e!</i>	downstream gene variant	2764	ENST00000314073 <i>e!</i>	?	ENSP00000313933 <i>e!</i>	4
GLTSCR1L <i>e!</i>	downstream gene variant	2934	ENST00000614467 <i>e!</i>	?	ENSP00000482211 <i>e!</i>	3
GLTSCR1L <i>e!</i>	downstream gene variant	2766	ENST00000394168 <i>e!</i>	NM_015349.1	ENSP00000377723 <i>e!</i>	4
PTCRA <i>e!</i>	upstream gene variant	58	ENST00000446507 <i>e!</i>	NM_001243170.1	ENSP00000392288 <i>e!</i>	4
PTCRA <i>e!</i>	upstream gene variant	58	ENST00000304672 <i>e!</i>	NM_138296.2	ENSP00000304447 <i>e!</i>	4
PTCRA <i>e!</i>	upstream gene variant	58	ENST00000441198 <i>e!</i>	NM_001243169.1	ENSP00000409550 <i>e!</i>	4
PTCRA <i>e!</i>	upstream gene variant	58	ENST00000616441 <i>e!</i>	NM_001243168.1	ENSP00000477815 <i>e!</i>	4
RPL7L1 <i>e!</i>	downstream gene variant	1568	ENST00000487619 <i>e!</i>	?	?	5
RPL7L1 <i>e!</i>	downstream gene variant	173	ENST00000497417 <i>e!</i>	?	?	6
RPL7L1 <i>e!</i>	downstream gene variant	446	ENST00000492836 <i>e!</i>	?	?	8
RPL7L1 <i>e!</i>	downstream gene variant	164	ENST00000304734 <i>e!</i>	?	ENSP00000346063 <i>e!</i>	11
RPL7L1 <i>e!</i>	downstream gene variant	614	ENST00000602561 <i>e!</i>	?	ENSP00000473356 <i>e!</i>	5
RPL7L1 <i>e!</i>	downstream gene variant	1460	ENST00000483998 <i>e!</i>	?	?	7
RPL7L1 <i>e!</i>	downstream gene variant	1751	ENST00000397415 <i>e!</i>	?	?	7
RPL7L1 <i>e!</i>	downstream gene variant	193	ENST00000493763 <i>e!</i>	NM_198486.2	ENSP00000418221 <i>e!</i>	11
RPL7L1 <i>e!</i>	upstream gene variant, downstream gene variant	130	ENST00000459829 <i>e!</i>	?	?	15
RPL7L1 <i>e!</i>	downstream gene variant	509	ENST00000462348 <i>e!</i>	?	?	5

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
GLTSCR1L <i>e!</i>	ENST00000314073 <i>e!</i>	?	ENSP00000313933 <i>e!</i>	5
GLTSCR1L <i>e!</i>	ENST00000614467 <i>e!</i>	?	ENSP00000482211 <i>e!</i>	5
GLTSCR1L <i>e!</i>	ENST00000394168 <i>e!</i>	NM_015349.1	ENSP00000377723 <i>e!</i>	5
PTCRA <i>e!</i>	ENST00000441198 <i>e!</i>	NM_001243169.1	ENSP00000409550 <i>e!</i>	7
PTCRA <i>e!</i>	ENST00000446507 <i>e!</i>	NM_001243170.1	ENSP00000392288 <i>e!</i>	8
PTCRA <i>e!</i>	ENST00000304672 <i>e!</i>	NM_138296.2	ENSP00000304447 <i>e!</i>	7
PTCRA <i>e!</i>	ENST00000616441 <i>e!</i>	NM_001243168.1	ENSP00000477815 <i>e!</i>	7
RPL7L1 <i>e!</i>	ENST00000304734 <i>e!</i>	?	ENSP00000346063 <i>e!</i>	9
RPL7L1 <i>e!</i>	ENST00000602561 <i>e!</i>	?	ENSP00000473356 <i>e!</i>	8
RPL7L1 <i>e!</i>	ENST00000462348 <i>e!</i>	?	?	8
RPL7L1 <i>e!</i>	ENST00000459829 <i>e!</i>	?	?	1
RPL7L1 <i>e!</i>	ENST00000397415 <i>e!</i>	?	?	9
RPL7L1 <i>e!</i>	ENST00000483998 <i>e!</i>	?	?	9
RPL7L1 <i>e!</i>	ENST00000493763 <i>e!</i>	NM_198486.2	ENSP00000418221 <i>e!</i>	9
RPL7L1 <i>e!</i>	ENST00000487619 <i>e!</i>	?	?	6

3'-UTR variant

gene	affected transcript	RefSeq id	protein	variant(s)
RPL7L1 <i>e!</i>	ENST00000304734 <i>e!</i>	?	ENSP00000346063 <i>e!</i>	4
RPL7L1 <i>e!</i>	ENST00000493763 <i>e!</i>	NM_198486.2	ENSP00000418221 <i>e!</i>	4

Non-coding exon variant

gene	affected transcript	RefSeq id	variant(s)
RPL7L1 <i>e!</i>	ENST00000497417 <i>e!</i>	?	3
RPL7L1 <i>e!</i>	ENST00000397415 <i>e!</i>	?	6
RPL7L1 <i>e!</i>	ENST00000487619 <i>e!</i>	?	5

