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Product datasheet for RC208404L3V

SREBP1 (SREBF1) (NM_004176) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	SREBP1 (SREBF1) (NM_004176) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SREBP1
Synonyms:	bHLHd1; HMD; IFAP2; SREBP1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_004176
ORF Size:	3441 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC208404).`
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_004176.3
RefSeq Size:	4922 bp
RefSeq ORF:	3444 bp
Locus ID:	6720
UniProt ID:	P36956
Cytogenetics:	17p11.2
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors

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Protein Pathways: Insulin signaling pathway

MW: 122.2 kDa

Gene Summary: This gene encodes a basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a motif that is found in the promoter of the low density lipoprotein receptor gene and other genes involved in sterol biosynthesis. The encoded protein is synthesized as a precursor that is initially attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription. This cleaveage is inhibited by sterols. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative promoter usage and splicing result in multiple transcript variants, including SREBP-1a and SREBP-1c, which correspond to RefSeq transcript variants 2 and 3, respectively. [provided by RefSeq, Nov 2017]