

## Product datasheet for **SC300896**

### **SREBP1 (SREBF1) (NM\_001005291) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SREBP1 (SREBF1) (NM_001005291) Human Untagged Clone
Tag:	Tag Free
Symbol:	SREBP1
Synonyms:	bHLHd1; HMD; IFAP2; SREBP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC300896 sequence for NM_001005291 edited (data generated by <a href="#">NextGen Sequencing</a> )

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ATGGACGAGCCACCCTTCAGCGAGGCGGCTTTGGAGCAGGCGCTGGGCGAGCCGTGCGATCTGGACGCGG
CGCTGCTGACCGACATCGAAGGTGAAGTCGGCGCGGGGAGGGGTAGGGCCAACGGCCTGGACGCCCAAG
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CAGCTCCACCCCTGTGTTAGGCTACCCAGCCCTCCGGGAGGCTTCTCTACAGGAAGCCCTCCCGGGAAC
ACCCAGCAGCCGCTGCCTGGCCTGCCACTGGCTTCCCGCCAGGGGTCCC GCCCGTCTCCTTGACACCC
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GGGGGCCCGGGGCTTCCCAGCCCCTCAGATACCACCAGCGTCTACCATAGCCCTGGGCGCAACGTGCTG
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AGGCGGCGCGCACACTCGAGAAGCTTGGCGATCGCCGGTGTGCACGACTGTCAGCAGATGCTCATGCC
CCTGGGCGGTGGGACCACTGCACTTCCAGTAG
    
```

Clone variation with respect to NM\_001005291.2  
 1007:g=>a 2591:t=>c

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001005291

**Insert Size:**

4300 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to contain 2 SNPs compared with NM_001005291.1.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001005291.1</a> , <a href="#">NP_001005291.1</a>
<b>RefSeq Size:</b>	5012 bp
<b>RefSeq ORF:</b>	3534 bp
<b>Locus ID:</b>	6720
<b>UniProt ID:</b>	<a href="#">P36956</a>
<b>Cytogenetics:</b>	17p11.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Insulin signaling pathway
<b>Gene Summary:</b>	<p>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 cleavage 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>