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Product datasheet for SC127910

SREBP2 (SREBF2) (NM_004599) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SREBP2 (SREBF2) (NM_004599) Human Untagged Clone
Tag:	Tag Free
Symbol:	SREBP2
Synonyms:	bHLHd2; SREBP-2; SREBP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC127910 sequence for NM_004599 edited (data generated by NextGen Sequencing)

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ATGGACGACAGCGGCGAGCTGGGTGGTCTGGAGACCATGGAGACCCTCACGGAGCTGGGC
GACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGTAATCAAGTGGGA
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TCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACTGCCATTGCCGCC
TCCTGA

Clone variation with respect to NM_004599.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004599 unedited
TTTGGTATACGACTCAATATAGGGCGGCCGCGATATCGGCACGAGTGCGCAACCATGGCG
GCGGGTGGCAACCCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCGGGTGTCATTGGGCG
GTGGCGACGGCACCGCCCCCGCGTCTCCCTTGAGCGGGACGGCAGGGGGGGCTTCTGCGC
TGAGCCGGGCGATGGACGACAGCGGCGAGCTGGGTGGTCTGGAGACCATGGAGACCCTCA
CGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATNTTGTCAGT
AANTCAAGTGGGAGAGTTCCCTGACTTGTTTTCAGAACAGCTGTGTAGCTCCTTTCCTGG
CAGTGGTGGTTAGTGGTAGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAGCAATG
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GTTTCTCCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCC
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ATTCAGCACCACTCCGCAGACCGAGGATCATCCANCAGCCTTTGATATACCAGATGCAGC
TACTAGCTTTTCAAGTCTTTAGCCTCAGTCCAAAGCCTGGTGGACATCTCCAGTAACAAG
CCGTCACCATAACAACAGGGGCAACAGTCAGCCCCCCGGGGGGGCTAACACAACGGCCAT
GGACGCTTGAAACCTTTGCCGGNTAGGGGGAAAAAATTGCTCCCCAGGGCACAAAAACCC
CGCCTA

Restriction Sites:	NotI-NotI
ACCN:	NM_004599
Insert Size:	4700 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 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
Components:	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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_004599.2, NP_004590.2
RefSeq Size:	4325 bp

RefSeq ORF:	3426 bp
Locus ID:	6721
UniProt ID:	Q12772
Cytogenetics:	22q13.2
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a member of the a ubiquitously expressed transcription factor that controls cholesterol homeostasis by regulating transcription of sterol-regulated genes. The encoded protein contains a basic helix-loop-helix-leucine zipper (bHLH-Zip) domain and binds the sterol regulatory element 1 motif. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013] Transcript Variant: This variant (1) encodes the functional protein. 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.