

Product datasheet for RC208942

SREBP2 (SREBF2) (NM_004599) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SREBP2 (SREBF2) (NM_004599) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SREBP2
Synonyms:	bHLHd2; SREBP-2; SREBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208942 representing NM_004599 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC208942 representing NM_004599
 Red=Cloning site Green=Tags(s)

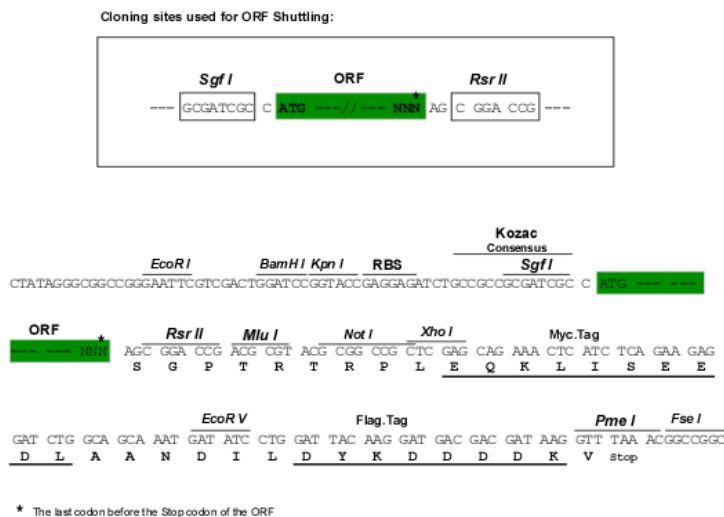
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Chromatograms: https://cdn.origene.com/chromatograms/mg3807_b09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_004599

ORF Size: 3423 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_004599.4](#)

RefSeq Size: 4325 bp

RefSeq ORF: 3426 bp

Locus ID: 6721

UniProt ID: [Q12772](#)

Cytogenetics: 22q13.2

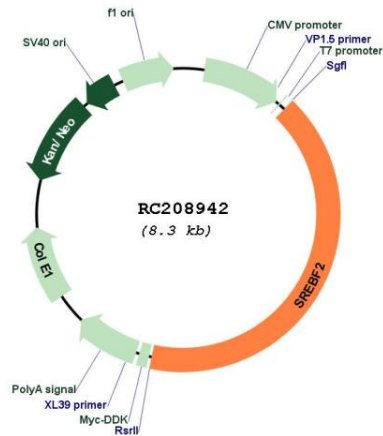
Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

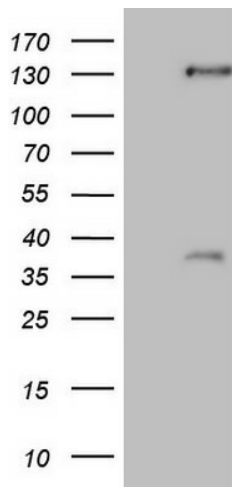
MW: 123.5 kDa

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]

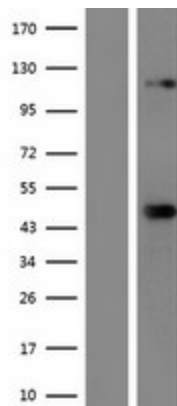
Product images:



Circular map for RC208942



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SREBF2 (Cat# RC208942, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SREBF2 (Cat# [TA806342]). Positive lysates [LY417881] (100ug) and [LC417881] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417881]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208942 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).