

Product datasheet for MR211688

Srebf1 (NM_011480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srebf1 (NM_011480) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Srebf1
Synonyms:	ADD-; ADD1; bHLHd; bHLHd1; SRE; SREB; SREBP; SREBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211688 representing NM_011480 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR211688 representing NM_011480
Red=Cloning site Green=Tags(s)

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MDELAFGEAALEQTLAEMCELDTAVLNDIEDMLQLINNQSDSDFPGLFDAPYAGGETGDTGPSSPGANSPE
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LPASAAPRTNTVTSQVQQPVVLPQPHFIKADSLLLTAVKTDAGATVKTAGISTLAPGTAVQAGPLQTLVS
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MLLRLGGGTTVTSS
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011480

ORF Size: 3402 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_011480.4](#)

RefSeq Size: 4299 bp

RefSeq ORF: 3405 bp

Locus ID: 20787

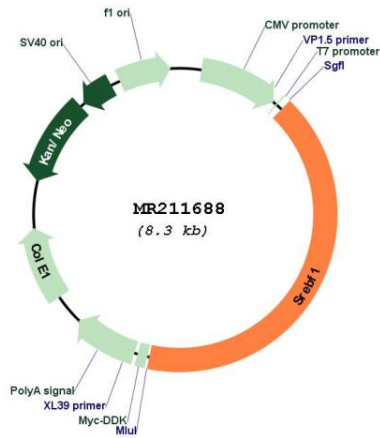
UniProt ID: [Q9WTN3](#)

Cytogenetics: 11 B2

MW: 121 kDa

Gene Summary: This gene encodes a transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a decamer flanking the low density lipoprotein receptor gene and some genes involved in sterol biosynthesis. The protein is synthesized as a precursor that is attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription by binding to the SRE1. Sterols inhibit the cleavage of the precursor, and the mature nuclear form is rapidly catabolized, thereby reducing transcription. The protein is a member of the basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor family. Alternatively spliced transcript variants have been characterized for this gene. [provided by RefSeq, Nov 2017]

Product images:



Circular map for MR211688