

## Product datasheet for **MC205184**

### Srebf1 (NM\_011480) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srebf1 (NM\_011480) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Srebf1  
**Synonyms:** ADD-; ADD1; bHLHd; bHLHd1; SRE; SREB; SREBP; SREBP1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC056922

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CCTTAACGTGGCCTAGTCCGAAGCCGGTGGGCGCCGGCCATGGACGAGCTGGCCTTCGGTGAGGGC
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AGCTGTGGCTGGCCCTGCAAGCGCTGGGCCGGCCCTGCCACCTCAAACCTGGATCTGGCCTGCAGTCT
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GAAACAGCTCGATACAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM\_011480
- Insert Size:** 3405 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC056922](#), [AAH56922](#)

**RefSeq Size:** 4306 bp

**RefSeq ORF:** 3405 bp

**Locus ID:** 20787

**UniProt ID:** [Q9WTN3](#)

**Cytogenetics:** 11 B2

**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]  
Transcript Variant: This variant (1, also known as SREBP-1a) represents the longest transcript and encodes the longest isoform (a).