

## Product datasheet for RN217481

### Srebf1 (NM\_001276708) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Srebf1 (NM_001276708) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Srebf1
Synonyms:	ADD-1; ADD1; SREBP-1; SREBP-1c; Srebp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217481 representing NM_001276708 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTGCATTTGAAGACATGCTTCAGCTCATCAACAACCAAGACAGTGACTTCCCTGGCCTATTTG  
ATGCCCCCTATGCTGGGGTGAGACAGGAGACACAGGCCCCAGCAGCCCTGGTGCCAGCTCTCCTGAGAG  
CTTCTCTTCTCCTGCTTCTCTGGCTCCTCTCTGGAAGCCTTCTGGGAGGACCAAGGTGACACCTGCA  
CCCTTGTCCCCTCCACCATCGGCACCCACTGCTGTAAAGATGTACCCGTCGGTGCCCCCTTCTCCCCTG  
GGCCTGGAATCAAAGAGGAGCCAGTGCCACTCACCATCCTGCAGCCCCAGCACCACAGCCATCGCCAGG  
GACCCTGTTGCCTCCGAGCTTCCCTCCTCCACCTGTGCAGCTCAGCCCTGCTCCTGTGCTGGGGTACTCA  
AGCCTGCCTTCCGGCTTCTCAGGAACCTTCTGGGAACACCCAGCAGACGCCATCTAGCCTGCCACTGG  
GCTCCACGCCAGGAATCTCGCCACCCCTTACACACCCAGGTCCAGAGCTCGGCCGCCAGCAGCCGCC  
GCCAGCCTCAGCAGCCCTAGAATGAGCACTGTGGCCTCACAGATCCAGCAGGTCCCGTTGTACTGCAG  
CCACACTTCATCAAGGCAGACTCGCTGCTGCTGACAGCTGTAAGACAGACACAGGAGCCACAATGAAGA  
CCGCAGGCATCAACACCCTGGCTCCTGGCACAGCCGTGCAGGCAGCCCTTGCAGACCTGGTGAGTGG  
AGGGACCATCCTGGCCACAGTACCACTGGTTGTGGACACAGACAACTGCCCATCCACCGACTAGCAGCT  
GGTGGCAAGGCCCTGGGCTCAGCTCAGACCCGTGGTGAGAAGCGCACAGCCACAATGCCATTGAGAAGC  
GCTACCGTTCTCTATCAATGACAAGATTGTGGAGCTCAAGGACCTGGTGGTGGGCACTGAGGCAAAGCT  
GAATAAATCTGCTGTCTTGCGAAGGCCATCGACTACATCCGCTTCTTACAGCACAGCAACCAGAAACTC  
AAGCAGGAGAACCTGACCCTGCGAAGTGCTCACAAAAGCAAATCACTGAAAGACCTGGTGTGAGCTTGTG  
GCAGTGGAGGAGGCACAGATGTGTCTATGGAGGCATGAAACCTGAAGTGGTAGAAACGCTGACCCCTCC  
ACCCTCAGACGCCGGCTCACCTCCAGAGTAGCCCTTGTCTTGGGCAGCAGAGGCAGCAGCAGTGGT  
GGCAGTACTCTGAGCCGACAGCCAGCCTTTGAGGATAACCAGGTGAAAGCCAGCGGCTGCCTTCAC  
ATAGCCGAGGCATGCTGGACCGCTCCCGCTGGCCCTGTGTGACTGGTCTTCTGTGTCTGACCTGCAA  
CCCATTGGCCTCACTGTTTGGCTGGGGCATCCTCACTCCCTCTGATGCTTCGGGTGTGCACCGTAGTTCT  
GGGCGCAGCATGCTGGAGGCCGAGAGCAGAGATGGCTCTAATTGGACCCAGTGGTGTGCCACCCCTAG



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TCTGGCTGGCCAATGGACTACTAGTGTGGCCTGCTTGGCTCTTCTTTGTCTACGGGGAACCTGTGAC  
 CAGGCCACACTCCGGCCCGGCTGTACACTTCTGGAGACATCGAAACAAGCTGACCTGGATTTGGCCCGG  
 GGAGATTTGCCAGGCCGCTCAACAGCTGTGGCTGGCCTTGCAAGCCCTGGGCCGGCCCTGCCACCT  
 CAAACCTGGATCTGGCCTGCAGCCTGCTTTGGAACCTCGTCCGCCACCTGCTGCAGCGTCTTTGGGTGGG  
 CCGCTGGCTGGCAGGCCAGGCTGGGGCCTGCAGAGGGACTACAGGCTGAGAAAGGATGCTCGTGCCAGT  
 GCCCGAGATGCGGCTGTCGTCTACCATAAGCTGCACCAGCTGCATGCCATGGGCAAGTACACAGGAGGCC  
 ATCTTGTGCTTCTAACCTGGCACTGAGTGCCCTAACCTGGCTGAGTGTGCAGGAGATGCTATATCCAT  
 GGCAACACTGGCAGAGATCTACGTGGCAGCTGCCCTAAGGGTCAAAACCAGCCTCCCAGAGCCTTGACAC  
 TTCTTGACACGTTTCTTCTGAGTAGTGCCCGCCAGGCCCTGCCTGGCACAGAGTGGTGCAGTGCCTCTTG  
 CCATGCAGTGGCTCTGCCACCCTGTAGGTACCGTTTCTTCTGATGGGACTGGGCTGTACACGGTGC  
 CCCCCAGGAGAGTCTGTACAGCGTGGTGGGAACCCAGTGGATCCACTGGCCAGGTGACCCGACTATTC  
 TGTGAACATCTCCTGGAGCGAGCATTGAACTGTATCGCTCAGCCAGCCAGGGGAGCTGATGGAGACA  
 GGGAGTTCTCAGATGCTCTGGATATCTACAGTTGCTAAATAGCTGTTCTGACGCTGTCGGAGCTCCTGC  
 GTGCAGCTTCTGTGAGTCCAGCATGGCTACCACCCTGGCACAGACCAGTGGCCAAGTGGTGGGCC  
 TCACTGACAGCCGTGGTATCCACTGGCTGAGGGGGATGAGGAGCAGCTGAACGTTATACCCACTGG  
 TAGAGCACATTCCTCAAGTGCTGCAGGAACTGAGAGACCCTTCCCAGGGCAGCTCTGACTCCTTCAA  
 GGCTGCCCGGGCTCTGCTGGACCACAGAAAGGTGGAATCCAGCCAGCCAGCCTGGCCATCTGTGAGAAG  
 GCCAGTGGGTACCTGCGGGACAGCTTAGCCTCTACATCAACTGCCAGTTCATTGACAAGGCCATGCAGC  
 TGCTCCTGTGTGATCTACTTCTTGTGGCCCGCACCAGCCTATGGCGGGCCAAACAGTGCAGAGCTTACGC  
 CCAGGGAGCTCACGGTACCAGCAATGGACCCAGGCCCTGCTCTGGAGCTGCGTGGTTTCCAACATGAC  
 CTGAGCAGCCTGAGGCGCTTGGCACAGAGCTTCCGGCCTGCTATGAGGAGGGTCTTCTACATGAGGCCA  
 CAGCTCGGCTGATGGCAGGAGCAAGTCTGCCCGGACACACCAGCTCCTGGACCGCAGTCTGCGGAGGCG  
 GGCAGGTTCCAGTGGCAAAGGAGGCGCTGCAGCTGAGCTGGAGCCTCGACCCACATGGCGGAGCACACA  
 GAGGCCTTGTGTTGGCCTCCTGCTATCTGCCCTGCCTTCTGTCGGCCCGGGCAGCGAGTGAACA  
 TGCTGGCTGAGGACGCGCACCGTGGAGAAGCTTGGCGATCACCGGCTCCTGCTTGACTGCCAGCAGAT  
 GCTCCTGCGCCTGGTGGCGGGACCCTGCACTTCCAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001276708
- Insert Size:** 3333 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001276708.1](#), [NP\\_001263637.1](#)

**RefSeq Size:** 4264 bp

**RefSeq ORF:** 3333 bp

**Locus ID:** 78968

**UniProt ID:** [P56720](#)

**Cytogenetics:** 10q22

**Gene Summary:** transcription factor; binds to the sterol regulatory element 1; regulates the transcription of genes important for sterol biosynthesis [RGD, Feb 2006]  
Transcript Variant: This variant (2) uses an alternate 5' exon structure, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.