

Product datasheet for MR226021

Srebf2 (NM_033218) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srebf2 (NM_033218) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Srebf2
Synonyms: A1608257; bHLHd2; lop13; nuc; SREBP-2; SREBP2; SREBP2gc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226021 representing NM_033218
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGAGAGCAGCGAGCTGGGCGTTCTGGAGACCATGGAGACCCTCACGGAGCTGGGCGATGAGCTGA
 CTCTCGGGGACATCGACGAGATGCTACAGTTTGTGACAAATCAAGTGGGAGAGTTCCTGATTTGTTTTT
 AGAGCAACTTTGTAGCTCCTTCCCTGGAGGTGGCAGCAATGGTGGCAGTGGCAACAACAGCAGTGGCAGA
 GGCAACAATGGTGGAGCCACAGACCCTGCAGTACAGCGGTATTAGCCAGGTCCCATTATCTACCTTCT
 CTCCTCAGCTGCCTCCCCTCAGGCTCCGGCCCTGCAGGTCAAAGTCTCTCTACCCACCAAGGGCAAC
 CCCTGTTCTCCAGCCGCGACCCAGCCCAAGCCCAACCTCCAGCTCAGCTGCAGCAGCAGCAGCGTGATG
 ATCACCCCGACGTTACGACCCGCTCCGACAGCAGGATCATCCAGCAGCCTTTGATATACCAAGAACGCAG
 CGACCAGCTTTCAAGTCTGCAGCCTCAAGTGCAAAGCCTCGTGACGTCCCCGACGGTGCAGCCCGTAC
 CATCCAGCAGCAGGTGCAGACGGTACAGGCCAGCGGGTGTGACGCAGACAGCCAATGGCACACTGCAG
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 CTCAGATCATTAAAGACAGATTCCCTTGTGTTGACCACGCTGAAGACAGATGGCAGCCCTGCATGGCTGC
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CAGTGGGAGGGGCCACAACACTGACCAGCACCCATACTCAGGCTCGGGCCGAGTGTACTGTCACTGG
AGTCAGGTGCTGGGGGCTGGTTTACTGGATGGTTCCAACCTCTCCTCTGTGGCTGGTAAATGGTGTGAT
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TGCTGGCCTGCCCATCTTCCCTCTCTTCTGTCTTCCCGGGCCAGCGGGCAGTGCTGCTGGCTGA
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ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226021 representing NM_033218
 Red=Cloning site Green=Tags(s)

MDESSELGVLETMETL TELGDEL TLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGGGSSNGGSGNNSGR
 GNNGGATDPAVQRFSQVPLSTFSPSAASPOAPALQVKVSPTPPRATPVLQPRPQPQPPAQLQQQTVM
 ITPTFSTAPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSPOVQPVTIQQQVQTVQAQRVLTQTANGTLQ
 TLAPATVQTVAAPVQVQVPLVQPQI IKTDLSVL TTKTDGSPVMAAVQNPALTAL TAPIQTAALQVPTL
 VGSNGTILTTMPVMMGQEKVPIKQVPGGVKQLDPPKEGERRTTHNIEEKRYRSSINDKIIELKDLVMGTD
 AKMHKSGVLRKAIDYIKYLQQVNHKLRQENMVLKL ANQKNKLLKGDLDGSLVDSVDVLDKIDDFNQNVLLM
 SPPASDSGSQAGFSPYSIDSEPGSPLDDAKVKDEPDSPPVALGMVDRSRILLCVLTFGLSFNPLTSL
 QWGGAHNTDQHPYSGGRSVLSLESGAGGWFDMVPTLLLWLVNGVIVLSVFKLLVHGEPVIRPHSRPS
 VTFWRHRKQADLDLAKGDFAAAAANLQTCLSVLGRALPTSRLDLACSLSWNVIRYSLQKLR LVRWLLKKV
 FQRWRATPATAAGFEDEAKSSARDAALAYHRLHQLHITGKLPAGSACSDVHMLCAVNLAECAEEKILPS
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 KESLYCAQRSPADPIAQVHQAFCKNLLERAVESLVKPAKKAAGDQEEESCEFSSALEYKLLHSFVDSV
 GFVTSPFSSSSVLR SALGPDVICRWWTSAVTMAISWLQGDAAVRSRFTEVERVPKALEVTESPLVKA VF
 YTCRAMHASLSGKADGQNSFCHCERASGHLWSSLNVSGTSDPSLNHVIQLFTCDLLL SLRTALWQKQA
 SASQLLGETYHSGTELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGASPTRTHQLLEHSLRRR
 PTQNTKHGEVDTWPGQRE RATAILLACRHLPLSFLSSPGQRAVLLAEAA RTLEKVGDRRSCSDCQMMIVK
 LGGGTAAI AAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9041_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

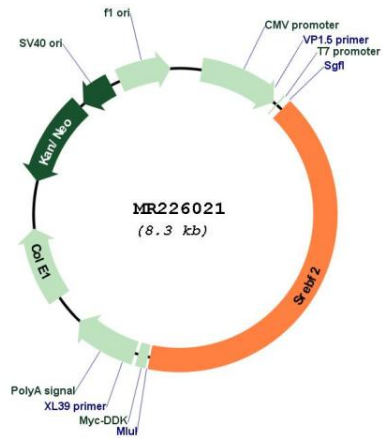


ACCN: NM_033218

ORF Size: 3390 bp

OTI Disclaimer:	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:	<ol style="list-style-type: none"> 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_033218.1 , NP_150087.1
RefSeq Size:	4570 bp
RefSeq ORF:	3393 bp
Locus ID:	20788
UniProt ID:	Q3U1N2
Cytogenetics:	15 E1
MW:	123.4 kDa
Gene Summary:	Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the cholesterol and to a lesser degree the fatty acid synthesis pathway. Binds the sterol regulatory element 1 (SRE-1) (5'-ATCACCCAC-3') found in the flanking region of the LDRL and HMG-CoA synthase genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226021