

Product datasheet for **RG208942**

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:	TurboGFP
Symbol:	SREBP2
Synonyms:	bHLHd2; SREBP-2; SREBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208942 representing NM_004599 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACAGCGGGAGCTGGGTGGTCTGGAGACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGAC
CCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGTAATCAAGTGGGAGAGTTCCTGACTTGTTTTT
AGAACAGCTGTGTAGCTCCTTTCTGGCAGTGGTGGTAGTGGTAGCAGCAGCGGCAGCAGTGGCAGCAGC
AGCAGCAGCAGCAATGGCAGGGCAGCAGCAGCGGAGCTGTGGACCCTTCAGTGCACCGGTATTACCC
AGGTCACATTACCTTCTCTCCCTCGGCGGCCTCCACAGGCTCCAACCTCTGCAAGTCAAGGTTTT
TCCACCTCAGTTCCACACACCCAGGGCAACTCTATTCTTCAGCCCCGCCCCAGCCCCAGCCTCAA
CCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTCAGCACCACTCCGACAGCAGGA
TCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCTTCAGCCTCAAGTCCAAAAG
CCTGGTGACATCCTCCAGGTACAGCCGGTACCATTAGCAGCAGGTGCAGACAGTACAGGCCAGCGG
GTGCTGACAAAACGGCCAATGGCAGCTGCAGACCCTTGCCCCGGTACGGTGCAGACAGTTGTGCGC
CACAGGTGCAGCAGGTCCCGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCTTGTTTTGACCAC
ACTGAAGACAGATGGCAGCCCTGTTATGGCTGCGGTCCAGAACCAGCCCTCACCAGCCCTCACCACCCT
ATCCAGACGGCTGCCCTTCAAGTACCAACCCTGGTGGGAGCAGTGGGACCATTCTGACCAATGCCTG
TAATGATGGGGCAAGAGAAAGTGCCATTAAAGCAGGTACCTGGGGAGTCAAGCAGCTTGAGCCCCCAA
AGAAGGAGAAAAGGCGGACAACCCATAATATCATTGAGAAAACGATATCGCTCCTCCATCAATGACAAAATC
ATCGAATTGAAAGACCTGGTTCATGGGACAGACGCCAAGATGCACAAGTCTGGCCTTCTGAGGAAGGCCA
TTGATTACATCAATACTTGACGAGGTCAATCATAACTGCGCCAGGAGAACATGGTGTGAAGCTGGC
AAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGTCTGGTGGACAATGAGGTGGACCTGAAG
ATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCAGCCTCTGACTCAGGGTCCCAGGCTGGCT
TCTCTCCCTACTCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCAAAGTCAAAGATGAGCC
AGACTCTCTCTGTGGCCTGGCATGGTAGACCCTCAGGATTCTTCTGTGTCTCACCTTCTCT



[View online >](#)

TGCCTCTCCTTTAACCCCTGACTTCCCTGCTGCAGTGGGGAGGGGCCACGACTCTGACCAGCACCCAC
 ACTCAGGCTCTGGCCGAGTGTCTGTCAATTCGAGTCAGGTTCTGGGGGCTGTTTACTGGATGATGCC
 TACTCTTCTTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTTGTGAAGCTTCTGGTTCATGGG
 GAGCCAGTGATCCGGCCACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGAAACAGGCAGATCTGG
 ATCTCGCCAGAGGAGATTTGCAGCTGCTGCCGCAACCTACAACTGCCTGGCAGTCTTGGCCGGGC
 ACTGCCACCTCCCGCTGGACCTGGCCTGCAGCTCCTGGAACGTGATCCGTACAGCTGCAGGAG
 CTACGCTGGTGGCTGGCTGCTCAAGAAAGCTTCCAGTCCGGCGGGCCACGCCAGCCACTGAGCAG
 GCTTTGAAGACGAAGCTAAGACCAGCGCCGGGATGCGGCTCTGGCCTATCACCGCTGACCAGCTGCA
 CATCACAGGGAAGCTTCTGCAGGATCCGCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTG
 GCTGAATGTGCAGAGGAGAAGATCCCACCAGCACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGC
 TCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCCAGCTACTTCTCAGCCGAGCCAGAGCCTGTG
 TGGCCCGGAGCACAGTGTCTGCTGACTCCCTGCGCTGGCTCTGCCACCCCTGGGCCAGAAGTTTTTC
 ATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATACTGTGCCAGAGGAACCCAGCTG
 ACCCCATTGCGCAGTCCACCAGGCTTCTGCAAGAACCTGCTGGAGCGAGCTATAGAGTCTTGGTGAA
 ACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGTGTCTGGAGTAC
 TTGAAATTACTTCACTTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGCTCCGTGC
 TCAAGTCCGCCCTGGGTCCAGACATCATCTGTCGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGCTG
 GCTCCAGGGAGACGATGCAGCTGTGCGCTCTATTTTACCAAAGTGAACGCATCCCAAGGCCCTGGAA
 GTGACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGA
 AAGCAGATGGGCAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAA
 CGTCAGTGGGGCCACCTTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACTGCTACTG
 TCGCTACGGACAGCGCTCTGGCAAAAACAGGCCAGTGGCAGCCTGCGCAGGCTGGGGGAGACCTACCACGCT
 CAGGCGCTGAAGTGGCGGGCTTCAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCC
 AGCATACCGCAAGGTGTTCTGTCATGAAGCCACCGTGCCTGATGGCAGGAGCCAGCCCAACCCGACC
 CACCAGCTGCTGGAACACAGCCTGCGGGCGCACCCAGCAGAGCACAAGCAGGAGAGGTGGATGCCT
 GGCCCGCCAGCAGAGCGGGCCACCGCCATCCTGCTGGCCTGCCGCCACCTGCCCTCTCTTCTCTC
 CTCCCCGGCCAGCGGGCAGTGTGCTGGCCGAAGCTGCCCGCACCTGGAGAAGGTGGGCGACCGGCGC
 TCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGTGGTGGCACTGCCATTGCCGCTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208942 representing NM_004599
 Red=Cloning site Green=Tags(s)

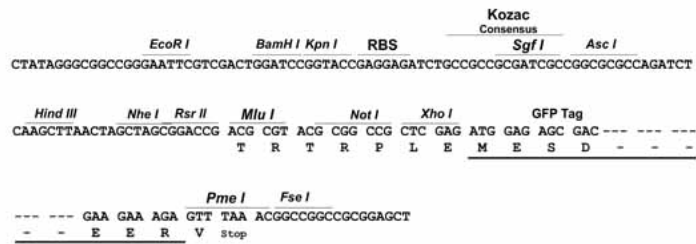
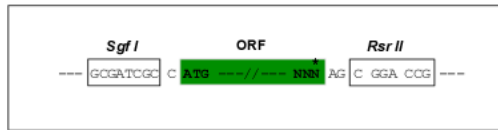
MDDSGELGGLETMETL TELGDEL TLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGSGSSSGSSGSS
 SSSSNGRSGSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPTSVPPTTTPRATPILQPRPQPQ
 PQTQLQQQTVMI TPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSQVQPVTIQQQVQTVQAQR
 VLTQTANGTLQTLAPATVQTVAAPOVQVQVPLVQPQIIKTDLSLVL TTKTDGSPVMAAVQNPA L TALTTP
 IQTAALQVPTLVGSSGTLITTMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNII EKRYRSSINDKI
 IELKDLVMGTDAMHKSGVLRKAIDYIKYLQQVNHKLRQENMVLKLANQKNKLLKIGIDLGSLVDNEVDLK
 IEDFNQNVLLMSPASDSGSQAGFSPYSIDSEPGSPLDDAKVKDEPDSPPVALGMVDRSRILLCVL TFL
 CLSFNPLTSLLQWGAHDSQHPHSGSGRSVL SFESGSGGWFDWMMPTLLLWL VNGVIVL SVFV KLLVHG
 EPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAGNLQTCLAVLGRALPTSRLDLACSLSWNVIRYSLQK
 LRLVRWLLKKVFCRRATPATEAGFEDEAKTSARDAALAYHRLHQLHITGKLPAGSACSDVHMALCAVNL
 AECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPEHSAPDLSRWLCHPLGQKFF
 MERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPKAKKAGDQEEESCEFSAL EY
 LKLLHSFVDSVGMSPPLSRSSVLKLSALGPDIIICRWWTSAITVAISWLQGDAAVRSHTFKVERIPKALE
 VTESPLVKAIFHACRAMHASLPGKADGQSSFCERASGHLWSSLNVSGATSDPALNHVVQLL TCDLLL
 SLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGASPTRT
 HQLLEHSLRRRTTQSTKHGEVDAWPGQRRERATAILLACRHLPLSFLSSPGQRAVLLAEAARTLEKVGDRR
 SCNDCQQMIVKLGGTIAAAS

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:

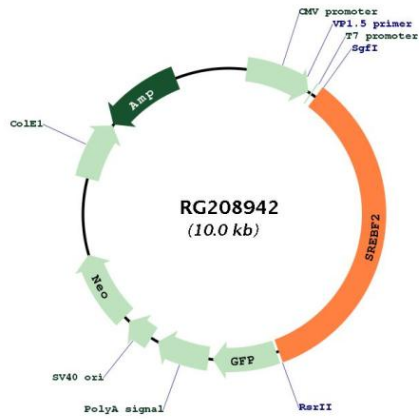


ACCN: NM_004599

ORF Size: 3423 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_004599.2, NP_004590.2</p>
RefSeq Size:	<p>4325 bp</p>
RefSeq ORF:	<p>3426 bp</p>
Locus ID:	<p>6721</p>
UniProt ID:	<p>Q12772</p>
Cytogenetics:	<p>22q13.2</p>
Domains:	<p>HLH</p>
Protein Families:	<p>Druggable Genome, Transcription Factors</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG208942