

Product datasheet for **SC109169**

ACSBG2 (NM_030924) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG2 (NM_030924) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSBG2
Synonyms:	BGR; BRGL; PRTD-NY3; PRTDNY3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_030924, the custom clone sequence may differ by one or more nucleotides

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ATGACTGGAACCCCAAGACTCAAGAAGGAGCTAAAGATCTTGAAGTAGACATGAATAAAACAGAAGTTA
CTCCCAGGCTGTGGACCACCTGTCGAGATGGAGAAGTCCTTCTGAGGCTATCCAAACACGGACCAGGCCA
TGAGACCCCGATGACCATCCCTGAATTTTTTCGAGAGTCAGTCAACCGATTGGAACCTTATCCAGCCCTC
GCATCCAAGAATGGCAAAAAGTGGGAAATTCTGAATTTCAACCACTACTATGAGGCTTGTGGAAGGCTG
CAAAATCCTTGATCAAGCTGGGTTTGGAGCGTTTCCACGGAGTTGGTATCCTGGGGTTTAACTCTGCAGA
GTGGTTTATCACTGCTGTTGGTGCCATCCTAGCCGGGGTCTTTGTGTTGGTATTATGCCACCAACTCT
GCCGAGGTTTGTCAATATGTCATCACTCATGCCAAAGTGAACATCTTGCTGGTTGAGAATGATCAACAGT
TACAGAAAATCCTTTCGATTCCACAGAGCAGCCTAGAGCCCTAAAAGCGATCATCCAGTACAGACTGCC
AATGAAGAAGAACAACAACTTGACTCTTGGGATGATTTTATGGAACCTGGCAGAAGTATCCCTGACACC
CAACTGGAGCAGGTCATCGAGAGCCAGAAGGCCAATCAATGCGCAGTGCTCATCTACACTTCAGGGACCA
CAGGCATACCAAGGGAGTGATGCTCAGTCATGACAACATCACGTGGATTGCAGGAGCAGTGACAAAGGA
CTTTAAACTGACAGACAAGCATGAGACGGTGGTTAGCTACCTCCCACTCAGCCATATTGCAGCACAGATG
ATGGACATCTGGGTACCCATAAAGATTGGGGCGCTCACATACTTTGCTCAAGCAGATGCTCTCAAGGGCA
CCTTGGTAAGTACTCTAAAGGAGGTAAAACCTACTGTCTTCATTGGAGTGCCTCAAATTTGGGAGAAGAT
ACATGAGATGGTGAAGAAAAATAGTGCCAAAGTCCATGGGCTTGAAGAAGAAGGCATTTCGTGTGGCAAGA
AACATTGGCTTCAAGGTCAACTCAAAAAAGATGTTGGGGAATATAATACTCCCGTGAGCTACCGCATGG
CTAAGACTCTCGTGTTCAGCAAAGTCAAGACATCCCTTGCTGGATCACTGTCACTCTTTATCAGTGG
GACTGCGCCCTCAACCAAGAGACTGCCGAGTTCTTTCTAAGCTTGACATACCTATAGGCGAGTTGTAT
GGGTTGAGTGAGAGCTCGGGACCCACACGATATCCAACCAGAATAACTACAGGCTTCTAAGCTGTGGCA
AGATCTTGACTGGGTGTAGAATATGCTGTTCCAGCAGAACAAGGATGGCATTGGGGAGATCTGCCTCTG
GGGTAGGCACATCTTCATGGGCTATCTGAAAAGTGAAGTGAAGTACAGAGGCCATCGATGATGAAGGC
TGGCTACACTCTGGGATCTGGGCCAGCTGGACGGTCTGGGTTTCTCTATGTCACCGGCCACATCAAAG
AAATCCTTATCACTGCTGGTGGTGAATGTGCCCCCATTCTGTTGAGACCTGGTTAAGAAGAAGAT
CCCCATCATCAGTAACGCCATGTTAGTAGGAGATAAACTGAAGTTTCTGAGCATGTTGCTGACGCTGAAG
TGTGAGATGAATCAGATGAGCGGAGAACCCTCTGGACAAGCTGAACCTCGAGGCCATCAACTCTGTGCGG
GTCTGGGCAGCCAGGCATCCACCGTGAAGTGTGAAGCAGCAAGACCCCTGGTCTACAAGGCCAT
CCAGCAAGGCATCAATGCTGTGAACCAGGAAGCCATGAACAATGCACAGAGGATTGAAAAGTGGGTCATC
TTGGAGAAGGACTTTTCCATCTATGGTGGAGAGCTAGGTCCAATGATGAACTTAAGAGACATTTTGTAG
CCCAGAAATACAAAAACAAATTGATCAGATGTACCACTGA
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**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_030924 unedited

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TGCACCATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGGCCTCGT
GCCGAATTCGGCACGAGGGAAAANAACCACTCCAGACTCCCTGCCTGGGCGGGATCCTT
TGATCAAGCCCTCAACATGCCTTGGGGCTCTTCACAATGGAAGAAGAAAACACCTGAG
TGACCAGATGTCCAGCTCCAGGTGCCTTGCCAGATGGCCAGAACCACACCTCTTGAAGA
GTGACAGTGCTGTGGAGCATGGTTTCTGCACACCTGGAATGACTGGAACCCCAAAGACTC
AAGAAGGAGCTAAAGATCTTGAAGTAGACATGAATAAAACAGAAGTTACTCCCAGGCTGT
GGACCACCTGTGAGATGGAGAAGTCCTTCTGAGGCTATCCAAACACGGACCAGGCCATG
AGACCCCGATGACCATCCCTGAATTTTTTCGAGAGTCAGTCAACCGATTGGAACCTATC
CAGCCCTCGCATCAAGAATGGCAAAAAGTGGGAAATTCTGAATTTCAACCACTACTATG
AGGCTTGTGCGAAGGCTGCAAAATCCTTGATCAAGCTGGGTTTGGAGCGTTTCCACGGAG
TTGGTATCCTGGGGTTTAACTCTGCAGAGTGGTTTATCACTGCTGTTGGTGCCATCCTAG
CCGATTCCACAGAGCAGCCTAGAGCCCTANAAGCGATCATCCAGTACAGACTGCCAA
TGAAGAAGAACAACAACCTTGACTCTTGGGATGATTTTATGGNAACTTGGCAGAAGTATC
CCTCGACACCAACTGGAGCAGGTCATCGAGAGCCCGAAGGCCAATCAATGCGCAGTGC
TCATCTACACTTCAGGGACCACAGGCATACCAAGGAGTGATGCTCAGTCATGACACCA
TTACGTGGATCGCAGTACCAATGACAAAGGACTTCAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_030924 unedited <pre> AGAAGTTAGGTCACCTGAACCGCTTTTATATCAGCCTTATTGGCAAGGTTTCCCAGTTG CTTCCAGTTTTTTGTGAGTTGATTTGGGGGTCCAGATCTTCAAATCTGTGAGGCTTTTCCT TTCTAATGTCTGAGTCCCTGAGGAGTAAAAAATCAAATGGGAGCCCAAGTTCAGGT CTTTCTTGTAATCAGGCAGTTTTTATTAGACTTCCCAATATGCTTTCCTGGAGTCATGA CTTGAACGTCCTTACAAAGATATACAGCGACTTTATTGCTTTGCAACGTATGGCAGGCC CTTCTAGGGAGCACCTCTCCAACAGACGAACAATTAATAAACTGACCAATGAGGAATGTG GCTTCTTAAAAACATCACGGATAGCTTCTACCTACAGCCCCATTTCACTATTGCAACGA TGTCTTCTGCTGAACGCTATCCAACACCTGACAGTAGTTCATCACAGATTTACCGGT ACATGTCATCACTTTGTCTTTTGCTTCTCCGGCTACACACAGTTCTTTAACTTCACC CACTGGACCTCCCTTACCCCCACACCGTCTCATCCCTTCTTCTCCTCACCTCCCTTC CAACTCCTTTCTGCAATGTTACTCCACTTCCTGTTCCATCACTCCACATCACTTGCCGCC CTTCCCCCGCTTACCCACCGGTACTTCTCATTTCCTCCCCCTCCCCGCCCAACCTT ACATCCCCCTCCCTCCTCGCTCCTTTTACCTCCTCACTCTCCTCCCCCTCTCCCTGCTC TTTCTTCTTCTACACCCTCTCCTTCTCCACCTCTTCTATTCTCCTTTATACATATACT TCACCTCTCCCCCCCCATACTATCCCGCCATCCGGCTTACTCTCCCTACCATAGATCA TAATGATCACCTGTCACCTCTTCTTCTCTCCCTATCT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_030924
Insert Size:	2710 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:	<u>NM_030924.2</u> , <u>NP_112186.2</u>
RefSeq Size:	2717 bp
RefSeq ORF:	2001 bp
Locus ID:	81616
UniProt ID:	<u>Q5FVE4</u>
Cytogenetics:	19p13.3
Domains:	AMP-binding

Gene Summary:

Mediates activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Able to activate long-chain fatty acids. Also able to activate very long-chain fatty acids; however, the relevance of such activity is unclear in vivo. Has increased ability to activate oleic and linoleic acid. May play a role in spermatogenesis.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same isoform (a).