

Product datasheet for **SC111202**

ACSBG1 (NM_015162) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSBG1 (NM_015162) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSBG1
Synonyms:	BG; BG1; BGM; GR-LACS; LPD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111202 sequence for NM_015162 edited (data generated by NextGen Sequencing)

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ATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTGGAC
AGCAGAGAGACCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCAAGAAAAA
TTGAAAACCAGCTCACTGACTGACAGGCAGCCACTCTCCAAGAGTCCCTGAACCATGCT
CTCGAGCTCTCAGTGCCAGAGAAGGTGAATAATGCCAGTGGGATGCTCCAGAGGAGCG
CTGTGGACGACTCGGGCCGATGGGCGGGTGCCTGCGCATAGACCCAGCTGCCACAG
CTTCCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGGGGACCTCATC
GCTTTGGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCTACTCCCAATACTACCTG
CTCGCCCGCAGAGCCGCAAGGGCTTCTGAAGCTCGGCCTGAAGCAGGCCACAGTGTG
GCCATCTCGGCTTCAACTCCCCGGAGTGGTTCTTCTCGGCAGTGGGCACAGTATTTGCA
GGTGGCATCGTCACTGGCATCTACACCACAGCTCCCCAGAGGCCCTGCCAGTACATCGCT
TATGACTGCTGCGCAATGTCATCATGGTCGACACGCAGAAGCAGCTGGAAAAGATCCTG
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AACAGATGGCCAATGTGTACAGATGGAGGAATTCATGGAGCTGGGGAATGAAGTGCCT
GAGGAAGCCCTGGACGCCATCATTGACACCCAGCAGCCCAACCAGTGCTGTGTGCTAGTC
TACACTTCCGGCACCACTGGGAACCCCAAGGGCGTGATGCTGAGTCAAGACAATATCACG
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GACGAGGAAGGCTGGCTGCACACGGGTGATGCTGGCCGCTGGACGCCGATGGCTTCTCTC
TACATCACTGGGCGCCTCAAAGAATTAATCATCACAGCTGGTGGGAGAAATGTGCCCCCT
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ACCTCTGACCAGACTGATAATCTGACTGAACAAGCTATGGAGTTCTGCCAGAGGGTGGGC
AGCAGAGCCACCACAGTGTCCGAGATCATAGAGAAGAAGGATGAGGCCGTGTACCAGGCC
ATCGAAGAGGGGATCCGGAGGGTCAACATGAACGCGGGCGGCCCGCCCTACCACATCCAG
AAGTGGGCCATTCTCGAGAGAGACTTCTCCATTTCCGGTGGAGAGTTGGGTTCCACGATG
AACTGAAACGGCTCACAGTTTTGGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAA
GAGCAAAAAATGTAA

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Clone variation with respect to NM_015162.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015162 unedited
 ATATTTTGTATACGACTCATATAGGCGGCNCGGAATTCGCACGAGGGGGAAGCCCGAGG
 CAGATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTG
 GACAGCAGAGAGACCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCAAGAA
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 GCTCTCGAGCTCTCAGTCCAGAGAAGGTGAATAATGCCAGTGGGATGCTCCAGAGGAG
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 GCAGGTGGCATCGTCACTGGCATCTACACCACCAGCTCCCAGAGGCTGCCAGTACATC
 GCTTATGACTGCTGCGCAATGTCATCATGGTCGACACGCAGAAGCAGCTGGAAAAGATC
 CTGAAGATCTGGAACAGTTGCCACATCTAAAGGCAGTCGTGATATATAAAGAACCTCT
 NNCAACAAGATGGCCAATGTGTACACGATGGGAGGATTTCATGGAGCTGNGGAATGAAGT
 CCCTGAGAAGNCCTGNACGNCATCATTGACACCCAGCAGCCCAACAGTGTGTGTGCTA
 GTCTACACTTCGGCACACTGGGAACCCCAAGGCGTGATGCTGAGTCAGACTATCACGTGG
 AG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015162 unedited
 NTTTTCTGNACNCGCGCCCGCATTCTANGATNCGGNTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTGGTAAAAGGGTTAATATTCAAATATACCTTAAATAGA
 ATCAAACAGGCCGAGCAGTTTTATTAACATCAAGTCAGTTGGCATGTGGGTGGCGGAG
 TGCTTGGTAATGGAATAATAGGGGCGGGATGCCCCCAAGATCCAAAGTAAGTCAGGG
 CCCTAGGGGAGTTGGGACTGATTGCTTTTCTGCAGCGCACGTGAGCAGTATTAACCATT
 TTTTTTACCCGGTCCACAGCTACTGGTGGTGGCCTGGATGGGAGCTAACAGCTTTT
 TAATCTACCTGGAATAAGGCCAAAAATATTAGCCCTTTCGTTCTGGAAGGAGAGCTGA
 TCTCATTTGTACCTGAACAAAAAGCAACTTAACTGAATTAACACTACCCACACCTG
 AAGCTTCTGGAATTGGCAGCTATTGGTGGCGTAAGACCTGGTAAATGGAAGCCAGTGC
 TGTGCCCTGACCTGGAGATCTAACAGACTTGGCAAAAATGCCTGTGCCAAACTGAAGAG
 ACCTGGGGCTCAAGAAGAAGCTCGGAACGCTGCCCTCTATTCTATAGAAACTGGAGGCA
 TAGGCCCTGATTACATTTTTGCTCTTGGGAAAAGGAGGCAATGATACCTTTGGACTTCT
 CCCAAACTGTGAGCCGGTTCAATTTTCATCGTGGGACCAACTCTCCACCCGAATGGAGAA
 GTCTCTCTCGAGAATGGCCACTTCTGAATGTNNGTAGGCCCGGCCCGCCCGTTCATGT
 TGACCCTCCGGATCCCCTCTCGAAGCCCTGGTACACGGCCTCATACCTTCTCTATGA
 TCTCAGAACTGTGGTGGNCTTTGCTGCCACCCTTTGGCAGACTCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_015162

Insert Size:

2900 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: [NM_015162.3](#), [NP_055977.3](#)

RefSeq Size: 2867 bp

RefSeq ORF: 2175 bp

Locus ID: 23205

UniProt ID: [Q96GR2](#)

Cytogenetics: 15q25.1

Domains: AMP-binding

Gene Summary: The protein encoded by this gene possesses long-chain acyl-CoA synthetase activity. It is thought to play a central role in brain very long-chain fatty acids metabolism and myelinogenesis. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).