

Product datasheet for **RN208973**

Acsbg2 (NM_001080096) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsbg2 (NM_001080096) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acsbg2
Synonyms:	MGC156748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208973 representing NM_001080096
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTCAAGAGAAGAAGGCAGAAGACCCTGATAGAGGCATGGACACCACCTCAGCTGCCCCAGGCTGT
 GGAGCACTCACTGTGATGGAGAGGTGCTGCTGAGGCTGTCCAACATGGGCCAGGCCATGAGACCCCAAT
 GACCATCCCTGAGCTGTTTCAGGAATCTGTTGAACGATTCGGCGCTTATCCAGCCCTAGCCTCGAAGAAC
 GGCAAAAAGTGGGACACGCTCACGTTACGCCAGTACTATGACGTGTGTCGAAAGGCAGCCAGATCTCTGA
 TCAAGCTGGGTCTGCAGCGTTCCATGGCGTTGGCATCCTGGGCTTAACTCGGTTGAGTGGGTCTGTGC
 TGCTCTGGGCGCCATCTGGCTGGGGCCTCTGTGTTGGTATTTATGCCACCAACTCGGCCGAGGCTGC
 CAGTACGTCATCAAGCAGGCCAACGTGAATGTCTTGATAGTGGAGAATGACCAACAGCTGCAGAAAATCC
 TGTGATTCCACCAGACAAGATGGAGACCGTGAAGCCATTGTGCAGTACAGGCTGCCCTTGATGGAAA
 CAGCACAAACCTGTACTCCTGGCAGGACTTCATGGAGCTGGGTAAATGCCATCCCCAACATACAGTGGAC
 CGGGTATCCTCAGCCAGAAGGCCAACCAAGTGTCTGTATCATCTATACCTCTGGGACCACAGGGAGCC
 CCAAAGCGTGATGCTGAGTCATGACAACATCATATGGACGGCAGGGGCCATGGCGCGAGAGATTGAGCT
 GATCCACGTCTCAGGAAAGCAGGACACGATAGTCAGCTACCTGCCCTCAGCCACATTGCAGCCAGCTC
 ATGGACATCTGGATCCCTATCAAAGTCGGGGTCTCACTTTCTTTGCTCAACCAGATGCTCTCAGGGGCA
 CCTTGGTGTACTCTTCAAAGAGGTGAAGCCTACTTATTTCTGGGGTGCCACGCGTCTGGGAAAAGAT
 GCAGGACACCATCAAGAAAAATGTGGCCAAGTCTCCAACCTGAGAAAAAGGCATTTGCATGGGCAAAG
 ATGCTTGGCTTGAAGTCAATACCAAGAAGATGCTGGGAAGCGAGACATCCCCATGAATTACCGCATGG
 CAAAGGCCCTTGTGTTACGAAGTCAAGAACCTCCCTGGGCTTGGACAAGTCCACACCTTCTTCAGTGG
 GGCTTCAACCCCTCTCAGGATGCTCGGAGTTCTTTCTCAGCCTGGATATCCCCATTGGTGAGATCTAT
 GGGATGACTGAGTGTTCGGACCCACACAGTCTCCTGCAAGAGTATCTACAGAGTTCTGAGTTGTGCA
 AAGTCTGAATGGCTGTAAGAATATGCTGTACAAGCAGAACAAGATGGTGTGGGTGAGGTGTGCATGTG
 GGGCCGCATGTCTTATGGGCTACCTGGGTAAGGAGGATGCCACGTTGGAAGTATTGGATGAAGATGGT
 TGGCTGCACTCTGGGACATTGGCCGCCTGGACAGCCACGATTTCTTTATATCACCGGCCGCATCAAAG
 AAGTCTGATAACTGCTGGTGGTGAACAATATGGCCATCCCAATTGAGACCCTGGTGAAGAGAAAAAT
 CCCCATCATCAGCCATGCCATGCTGGTGGTGACAAGGCCAAATTCCTGAGCATGCTGTTGACACTGAAG
 TGTGAGACAGACCAGATGAGTGGAGAGCCCTTGGACAAGCTGAACCTGGAGGCCATCAGCTTCTGCCAGA
 TGCTGGGTAGCCAAGCAGTCACTGTGTCGGACATTTTGAAGATTGAGACCCAGTGGTCTACACGGCCAT
 CAGTATGGCATAGACATCGTGAATCAGCAAGCAGTCTCTGACTCACATAGAATTCGAAAGTGGATCATC
 TTGGAGAAAGACTTTTCCATCCAGGGTGGGAGCTGGGACCAACATCAAACTTAAGAGAGATCTCATAA
 CCCAGAAATACAAAGCACAGATTGACAACATGTACTCATCA**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-RsrII
ACCN: NM_001080096
Insert Size: 2004 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>
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_001080096.1 , NP_001073565.1
RefSeq Size:	2644 bp
RefSeq ORF:	2004 bp
Locus ID:	301120
UniProt ID:	A1L1K7
Cytogenetics:	9q12
Gene Summary:	<p>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. Has increased ability to activate oleic and linoleic acid. May play a role in spermatogenesis (By similarity). [UniProtKB/Swiss-Prot Function]</p>