

## Product datasheet for **MC220295**

### **Acsbg2 (NM\_001039114) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsbg2 (NM_001039114) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsbg2
Synonyms:	Bgr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220295 representing NM\_001039114  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTCAAGAGAAGAAGGCGGAAGACCTTGAGAGAGGCACAGACGCCACCTCAGCTGTTCCAGGCTAT  
 GGAGACCCACTGTGATGGAGAAGTGCTCCTGAGGTTGTCCAAACATGGTCCAGGCCATGAGACCCGAT  
 GACCATCCCTGAGCTGTTCCAGGAATCTGCTGAGCGATTCACTGCTTATCCGGCCCTAGCCTCAAAGAAC  
 GGCAAAAAGTGGGACACGCTGACATTCAGCCAGTACTATGAAATGTGCGAAAGGCAGCAAGTCTCTGA  
 TCAAGCTCGCCCTGCAGCGCTTCCAGTGTGTCGGCATCCTGGGCTTAACTCGGTGAGTGGGTCTTAC  
 TGCTCTGGGCACTATCTGGCTGGGGCCCTCTGTGTTGGTATTTATGCCACCAACTCGGCTGAGGCTGC  
 CAGTACGTCATCCAGCAGGCCAAGTGTGATCTTGATAGTGGAGAATGACCAACAGCTGCAGAAAATCC  
 TGTTGATCCACCAGACAAGATGGAGACCGTGAAGCCATTGTGCAGTACAAGCTGCCCTTGATGGAAAG  
 CATGGCAAACCTGTACTCATGGAATGACTTCATGGAGCTAGGGAATGACATCCCAAATATCCAGCTGGAT  
 CCGGTATCCTGAGCCAGAAGGCCAACAGTGTCTGTCATCCTCTACACCTCTGGGACCACAGGGACCC  
 CCAAAGGCGTGCTGCTGAGCCATGACAATATCACATGGACGCGCAGGGGCGATGTCGCAAGAGATGGAGAT  
 AAACCGAGTCTCAGGGAAGCAGAATACAATAGTCAGCTACCTGCCCTCAGCCACATCGCAGCCCAGCTC  
 ACAGACATCTGGATCCCCATCAAGATTGGGGCACTCACTTTCTTTGCTCAACCAGATGCACTCAGGGGCA  
 CCTTGGTGTACACGCTTCAAGAAGTGAAGCCTACACTTTTTCATGGGGGTGCCACGCATCTGGGAAAAGAT  
 GCAGGACACCATCAAGGAAAACGTGGCCAGGCTCCTCCGCCTGAGAAAAGGCAATTTGCATGGGCGAAG  
 ATGCTTGGCTTGAAGTCAACACCAAGCGGATGCTGGGGAAGCGAGACATCCCCATGAATTACCGCATGG  
 CAAAGGCCCTTGTGTTCCGGAAGGTGAGGACCTCCCTGGGCTTAGACAATTGCCACGCCTTCTTCAGCAG  
 CGCTTCGCCCTCTCTCAGGATGTCTCAGAGTTCTTTCTCAGCCTGGACATCCCCATTGGTGAGATCTAC  
 GGGATGAGTGAGTGCTCCGGACCGCACACAGTCTCCAACAAGAGTGTCTACAGAGTTTTGAGCTGTGGCA  
 AGGTCTGAGTGGCTGTAAGAACATGCTGTACAACCAGAACAAAGAAGGCGTGGGTGAGGTGTGCATGTG  
 GGGCCGGCATGTCTTATGGGCTACCTGAACAAGGAGGAGGCCACATTGGAAGCACTGGATGAAAATGGC  
 TGGCTGCACTCTGGGACATTGGCCGCTGGACAGCCATGATTTCTTTATCACTGGCCGCATCAAAG  
 AAATCCTGATAACCGCTGGTGGTGAAGATGTATCCCCATCCCCATTGAGACCCTGGTAAAGGAGAAGAT  
 CCCCATTATCAGCCACGCCATGCTGGTGGGCGACAAGGCCAAATTCCTGTGCATGCTGCTGACGCTGAAG  
 TGTGAAACAGACCGGAAGAGCGGAGAGCCCTTGAACAAGCTGAGCGTGGAGGCCAAAAGCTTCTGCCAGA  
 TGCTGGGTAGCCAAGCAACCACTGTGTCGGACATTTTGAAGAGTCGAGACCAAGTGGTCTACACGGCCAT  
 CCAATATGGCATAGACATCGTGAATCAGCAAGCGATGTCTGACTCACATAGAATCCGAAAGTGGATCATC  
 TTGGAGAAGGACTTTTCGATCCAGGGTGGGAGCTGGGACCGACATCAAACCTTAAGAGAAGTGTGATAA  
 CCCAGAAATACAAAGCACAGATTGACAGCATGACTTTGTCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001039114
- Insert Size:** 2004 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\\_001039114.1](#), [NP\\_001034203.1](#)

**RefSeq Size:** 2608 bp

**RefSeq ORF:** 2004 bp

**Locus ID:** 328845

**UniProt ID:** [Q2XU92](#)

**Cytogenetics:** 17 D

**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 (By similarity).[UniProtKB/Swiss-Prot Function]