

## Product datasheet for **MC203494**

### **Acsbg1 (NM\_053178) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsbg1 (NM_053178) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsbg1
Synonyms:	BG1; Bgm; E230019G03Rik; GR-LACS; Lpd; R75185
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC057322  
 GCACACAGCAGATGCCACGCGGTTCTGAAGCAGGATACTGCTGTCTGTCCAGGGACTCCAACATGCCTGA  
 CAGCAGAGATGATCAGCAGCAGGGGGCCAGCTTGGGGACCTCCCAAGACAACCTCGCAAACAGCTCCTTA  
 ATTGATGGGCAAACTCTCCAAAGAGTCTCCAAGTACGGTCTCGAGCTCTCAGCTCCAGAAAAGGCAA  
 GGGCTGCCTCTTTGGATGGTGCAGAGGAAGCACTATGGACAACCCGGGCGGATGGGAGAGTGCSCCTGCG  
 CTTGGAACCTTTCTGACTCAGCGTCCCTATACCGTGCACCAGATGTTCTACGAGGCCCTAGATAAGTAC  
 GGGAACTCAGTGTCTGGGCTTCAAGCGCAAGGACAAGTGGGAGCGTATCTCTTACTACCAGTACTACC  
 TGATTGCACGCAAAGTAGCCAAAGGCTTCTTGAAGCTCGGCCCTAGAGCGTGCCACAGCGTGGCGATCCT  
 TGGCTTCAACTCTCCAGAATGGTTCTTCTCTGCGAGTGGGCACAGTGTTCGAGGGGGCATTGTCACTGGC  
 ATCTACACCACCAGTCCCCGGAGGCTGCCAGTACATCTCTCATGACTGCCGAGCCAATGTCATCGTGG  
 TTGACACACAGAAGCAGCTGGAAAAGATCCTGAAGATCTGAAAGACTTGCCACATCTAAAGGCAGTGGT  
 GATATACCAAGAACCCCTCCAAAGAAGATGGCTAACGTGTACACGATGGAGGAGCTCATAGAACTGGGG  
 CAAGAAGTGCCTGAGGAGGCCCTAGATGCCATCATCGATACCCAGCAACCCAACCAAGTGTGTGTCTCG  
 TCTACACATCAGGCACCACGGGAAACCCCAAGGGTGTGATGCTGAGTCAAGACAATACATGACAGC  
 ACGGTATGGCAGTCAAGTGGGGACATCCAGCCAGCAGAAGTGCAGCAGGAGGTAGTGGTCACTACTTG  
 CCTCTCAGCCACATCGCTGCCAGATCTACGACCTGTGGACAGGCATCCAGTGGGGAGGCCAGGTCTGCT  
 TTGCAGATCCGGACGCCCTGAAGGGGACCCTGGTAAACACACTGCGGGAGGTGGAGCCCACATCCCACAT  
 GGGAGTGCCGCGTGTGTGGGAGAAGATCATGAAAGGATCCAGGAGGTGGCCGCTCAGTCTGGCTTCATC  
 CGCCGCAAGATGCTGCTGTGGGCCATGTGAGTACCTTGGAAACAGAACCTTACCTGCCCTAGCAATGACC  
 TGAAGCCCTTACCAGCAGACTGGCGGATTACCTAGTGTAGCCAGGGTCCGTCAAGGCTCTGGGCTTTGC  
 CAAGTGTGAGAAAACCTTCTACGGAGCAGCTCCGATGACGGCAGAGACGCAGCGCTTCTTCTGGGCCTC  
 AACATCCGCTGTATGCAGGCTATGGCTCAGCGAGAGCACAGGCCCCCACTTTCATGTCCAGCCCCTACA  
 ACTATCGGCTTACAGCTCCGGCAGGGTGGTACCCGGCTGCCGGTGAAGCTGGTGAATCAGGATGACAGA  
 TGGCATCGGTGAGATCTGCCTGTGGGGCCGACCATCTTCATGGGTTATCTGAACATGGAGGACAAAACC  
 TGTGAGGCCATTGATTCCGAAAGGCTGGCTGCACACAGGTGACATGGGCCGCTGGATGCTGACGGCTTCC  
 TCTACATCACCGGGCGCCTCAAAGAATTAATCATCACTGCGGGCGGCGAGAACGTGCCCCAGTGCCTAT  
 CGAGGAGGCCGTGAAGATGGAGCTGCCATCATCAGCAGTGCCATGCTGATCGGGGACCAGAGGAAGTTC  
 CTGTCCATGCTGCTAACCTGAAGTGCACGCTGGACCCAGAGACGTCTGAGCCTACAGACAGCCTGACCG  
 AGCAAGCTGTGGAGTTCTGCCAGCGGTGGGCAGCAAGGCCAGCACCGTCTCCGAGATCGTGGGCGAGAG  
 AGACGAGGCTGTGTACCAGGCCATTACGAAGGGATCCAGAGGGTGAACGCGAACCCGAGCCCGGCC  
 TACCACATCCAGAAGTGGCCATTCTCCAACGTGACTTCTCCATTTCAAGTGGAGAACTGGGACCCACCA  
 TGAATTTGAAACGCTCACGGTTCTGGAGAAGTACAAAGATATCATCGATTCTTTTTATCAAGAGCAAAA  
 ACAGTAGTCAGGAGCCATGCTTGTGGCTTCTGCTGGAGACCAGCCCGGCAAGCATCTTCTGAGGCCAG  
 GTGTCTCCAGTGGGCAAAAGAACCTGTGACAAGCTGCTTCCACCTTTAGTTTCAGGGCAGAGCACTGACA  
 TCTCCAATGCCTTACGTGCAAGTAGTTCAATTTAACCAGTGTCTGTTTCAGGTGTCAAGCCAGACC  
 ATTCTCTTCCAAAGAGAAGGACCGCTCACTTTGGCTTCAGGTCCAGGCAGATCTACAAGGTTCTAGTT  
 CACAGGTCTCCAGGGGGCGCTGTTGGAGAGGGAAAGGGATGGCAATCCCATTACTAATGTGTGCTGCAG  
 AGACAGCAGTACAGCTCGCTGACTTAATTTCTGGCTTCTTGGAACTAGTACCACACTTGCCACCTCA  
 CACACAAGAGGCTTGATGCTTAATAAACTGCTGCTGCTATGTGACTGTATTTAATATGTAATTTTCAGT  
 ATTAACCTTTTTAACAGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_053178

**Insert Size:** 2166 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC057322</a></u> , <u><a href="#">AAH57322</a></u>
<b>RefSeq Size:</b>	2695 bp
<b>RefSeq ORF:</b>	2166 bp
<b>Locus ID:</b>	94180
<b>UniProt ID:</b>	<u><a href="#">Q99PU5</a></u>
<b>Cytogenetics:</b>	9 A5.3
<b>Gene Summary:</b>	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. Can activate diverse saturated, monosaturated and polyunsaturated fatty acids (By similarity).[UniProtKB/Swiss-Prot Function]