

## Product datasheet for **MC205855**

### **AcsI3 (NM\_028817) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AcsI3 (NM_028817) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	AcsI3
Synonyms:	2610510B12Rik; Acs3; C85929; FacI3; Pro2194
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031529  
 CTTGATTCTCATTGAAATCTGTTAATTCTATTTTTTGAACACTTATGAATAACCACGTATCTTCAACACC  
 ATCAACCATGAAGCTAAAAACAAACCATCAACCCCATACTTTTATATTTTCATACATTTTATAATATCACTC  
 TATACTATTTTAAACATACATCCCATTTTATTTTTGTGTGAGTCAAAACAAGAGAAACAAACAAATTA  
 AAGCAAAACCTGTCAGTCCAAACCGGACTCTGCATACAGATCTATCAACAGTGTGGATGGCTTGGCTTC  
 AGTGTGTATCCTGGCTGCGATACACTTGATAAAGTCTTTATGTATGCAAAAAACAAATTTAAAAACAAA  
 AGACTATTGGGAACACGTGAAATTTTGAATGAGGAAGATGAAATACAGCCAAATGGAAAAATTTTAAAA  
 AGGTTATTCTGGGCACTATAATTGGCTTTCCTATGAAGATGTCTTCATCCGAGCCCTTGACTTTGGAAA  
 TGGGTTACAAATGTTGGGCCAGAAACCAAGGCCAACATCGCCATCTTCTGTGAGACCAGGGCTGAGTGG  
 ATGATCGCTGCACAGGCGTGTTTTATGTATAACTTCCAGCTTGTACACTGTATGCTACTCTGGGAGGTC  
 CAGCCATTGTTTATGGACTGAATGAGACAGAGGTGACCAACATCATTACTAGCAAAGAACTTGGCAAC  
 AAAGCTGAAGGATATAGTCTCTTTGGTCCCACGTCTGCGCATATCATTACTGTTGATGGGAAGCCTCCA  
 ACCTGGTCTGAGTCCCAAAGGTGTCATTGTACACACCATGGCTGCAGTGCAGGCTCTAGGAGTGAAGG  
 CCAACGTGAAAAAGAAAGCTCACAGCAAACCACTGCCCTCAGATATTGCAGTAATCATGTACACAAGTGG  
 GTCCACAGGAATCCAAAGGGAGTCATGATCTCACACAGCAACATCATTGCTTCTATAACGGGGATGGCG  
 AGAAGGATTCCAAGACTGGGAGAGGAAGATGTGTATATTGGCTACTTGCCCTGGCACATGTTCTAGAAT  
 TAAGTGCTGAGCTTGTGTCTTCTCATGGATGCCGAATCGGCTACTCTTACCACAGACATTAGCAGA  
 TCAGTCTTCAAAAATAAAAAAGGAAGCAAGGAGACACATCCGTGCTGAAGCCAACACTGATGGCAGCT  
 GTTCCGAAAATCATGGATCGGATCTACAAAAATGTCATGAATAAAGTGAATGAAATGAGTGTCTTTCAAC  
 GAAACTTGTTTATTTGGCATATAATTATAAGATGGAACAGATTTCAAAGGGTGTAGTACTCCACTGTG  
 TGACCGCTTTGTTTCCGGAATGTCGAAGGCTGCTGGGTGGAATATTCGCCTTTACTGTGTGGTGGT  
 GCTCCGCTTTCTGCAACAACGCAGCGATTATGAATATCTGTTTCTGCTGCCGTTGGTGGTGGTATG  
 GACTCACAGAATCTACTGGGCTGGAACAATTACAGAAGTGTGGGACTACAATACCGGCAGAGTGGGAGC  
 ACCATTAGTTTGTGTGAAATCAAATTAAGAAGTGGGAGGAAGTGGCTATTTTAACTGACAAACCA  
 CATCCCAGAGGTGAAATCTTATTGGTGGCCAAAATGTGACAATGGGGTACTACAAAAATGAAGCAAAAA  
 CAAAGACAGATTTCTTTGAAGATGAAAATGGACAGCGGTGGCTGTGCACTGGAGATATTGGAGAGTTTGA  
 CCCTGACGGCTGTCTGAAGATCATTGACCGTAAAAAGGACCTTGTGAAACTACAGGCAGGAGAGTACGTT  
 TCTCTCGGAAAGTAGAGGCAGCTTTGAAGAACCTCCCACTGATAGATAACATTTGTGCGTATGCAAA  
 GCTACCATTCTTACGTAATTGGGTTTGTGTGCCAAATCAAAGGAACTTACAGAGCTAGCTAGAACAAA  
 AGGATTTAAAGGAACTTGGGAAGAGCTGTGTAACAGCAGCGAGATGGAAAATGAGGTCTTAAAGTGCTT  
 TCTGAAGCTGCTATTTACAGCAAGTCTGGAAGGTTTGAATTTCCACTAAAAATACGTTTGGCCCTGACC  
 CATGGACTCCCGAAACTGGTCTGGTGACAGATGCCTTCAAGTTGAAACGTAAAGAGCTTAAACACACTA  
 CCAGGCAGACATTGAGCGGATGTATGGAAGAAAATAATTAGTTTTGGCATTGGTTTGGCTACAGCGAGCTC  
 AGATCAAAATAGGAAAATACTTGAATGTATGTCTCGGGCCGAGGCAAACTCCATTCTTATATTAATCC  
 CGGCTGTACTTCTCACTACGTACCAATTTTAACTGACAGGATAGTAAAGTATTAAGACAGCAAACTC  
 GTGTCTGTCTGTTTCTCCCTGCTCCAGTTTGTCTTGGCATCTGTGACTGTGCTTGTCAACAGGAGAC  
 TTTTTCAGAATCATACTGGGGAAGCAGCGATTTTACAGCCTCAAGTTTTTAAACATGATTTATATGTTCT  
 GTACAGTTGTTTCAAGTTTGAACTTTTTAAAGTTTGGATGTATAGAAGGATAAATAGGAAATATAAAAT  
 GGTATTTGGGGGCTTTTTACTTATTGTATTTAAAAATAAAAGGGTATCAATGTGAAATATGTACAT  
 TTTAAATGCTTATGAATCAAGTCATTGTTGAACAAAAGATTTGTTGCTGTGTAATTATTGTCTGTATGC  
 ATTTGAGAGAAATAAATACTCAGACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_028817

**Insert Size:** 2163 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>	<a href="#">BC031529</a> , <a href="#">AAH31529</a>
<b>RefSeq Size:</b>	2789 bp
<b>RefSeq ORF:</b>	2163 bp
<b>Locus ID:</b>	74205
<b>UniProt ID:</b>	<a href="#">Q9CZW4</a>
<b>Cytogenetics:</b>	1 40.84 cM
<b>Gene Summary:</b>	<p>Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL3 has mainly an anabolic role in energy metabolism (By similarity). Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins) (By similarity). Mediates hepatic lipogenesis (By similarity). Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform.</p>