

Product datasheet for **MC228764**

AcsI3 (NM_001033606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AcsI3 (NM_001033606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	AcsI3
Synonyms:	2610510B12Rik; Acs3; C85929; FacI3; Pro2194
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228764 representing NM_001033606
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATAACCACGTATCTTCAACACCATCAACCATGAAGCTAAAACAAACCATCAACCCATACTTTTAT
 ATTTCATACATTTTATAATATCACTCTATACTATTTTAAACATACATCCCATTTTATTTTTTGTGTGAGTC
 AAAACAAGAGAAACCAAACCAAAATTAAGCAAAACCTGTCAAGTCCAAACCGGACTCTGCATACAGATCT
 ATCAACAGTGTGGATGGCTTGGCTTCAGTGTGTATCCTGGCTGCGATACACTTGATAAAGTCTTTATGT
 ATGCAAAAAACAAATTTAAAAACAAAAGACTATTGGGAACACGTGAAATTTTAAATGAGGAAGATGAAAT
 ACAGCCAAATGGAAAAATTTTAAAAAGGTTATTCTGGGCACTATAATTGGCTTTCCTATGAAGATGTC
 TTCATCCGAGCCCTTGACTTTGGAAATGGGTTACAATGTTGGCCAGAAACCAAAGGCCAACATCGCCA
 TCTTCTGTGAGACCAGGGCTGAGTGGATGATCGCTGCACAGGCGTGTATGTATAACTCCAGCTTGT
 TACACTGTATGCTACTCTGGGAGGTCCAGCCATTGTTTCATGGACTGAATGAGACAGAGGTGACCAACATC
 ATTACTAGCAAAGAACTCTTGC AAAACAAAGCTGAAGGATATAGTCTCTTTGGTCCCACGCTCTGCGGCATA
 TCATTACTGTTGATGGGAAGCCTCCAACCTGGTCTGAGTTCCTCCAAAGGTGTCATTGTACACACCATGGC
 TGCAGTGCAGGCTCTAGGAGTGAAGGCCAACGTGGAAAAGAAAGCTCACAGCAAACCACTGCCCTCAGAT
 ATTGCAGTAATCATGTACACAAGTGGGTCCACAGGAATTCCAAAGGGAGTCATGATCTCACACAGCAACA
 TCATTGCTTCTATAACGGGGATGGCGAGAAGGATTCAGACTGGGAGAGGAAGATGTGTATTTGGCTA
 CTTGCCCTGGCAGATGTTCTAGAATTAAGTGTGAGCTTGTGTGCTTTTCTCATGGATGCCGAATCGGC
 TACTCTTACCACAGACATTAGCAGATCAGTCTTCAAAAAATAAAAAAGGAAGCAAAGGAGACACATCCG
 TGCTGAAGCCAACTGATGGCAGCTGTTCCGGAATCATGGATCGGATCTACAAAAATGTCATGAATAA
 AGTGAATGAAATGAGTGTCTTTCAACGAAACTGTTTATTTTGGCATATAATTATAAGATGGAACAGATT
 TCAAAAAGGTGTAGTACTCCACTGTGTGACCGCTTTGTTTTCCGGAATGCCGAAGGCTGCTGGGTGAA
 ATATTCGCTTTTACTGTGTGGTGGTGTCTCCGCTTTCTGCAACAACGCAGCGATTCATGAATATCTGTTT
 CTGCTGTCCCCTGGTGCAGGGGTATGGACTCACAGAATCTACTGGGGCTGGAACAATTACAGAAGTGTGG
 GACTACAATACCGGCAGAGTGGGAGCACCATTAGTTTGTGTGAAATCAAATTAAGAACTGGGAGGAAG
 GTGGCTATTTAATACTGACAAACCACATCCCAGAGGTGAAATCTTATTGGTGGCCAAATGTGACAAAT
 GGGTACTACAAAAATGAAGCAAAAACAAAGACAGATTTCTTTGAAGATGAAATGGACAGCGGTGGCTG
 TGCAGTGGAGATATTGGAGATTTGACCCTGACGGCTGTCTGAAGATCATTGACCCTAAAAAGACCTTG
 TGAAACTACAGGCAGGAGAGTACGTTTCTCTCGGAAAGTAGAGGCAGCTTTGAAGAACCTCCCAGTGT
 AGATAACATTTGTGCGTATGCAACAGCTACCATTCTTACGTAATTGGGTTTGTGTGCCAAATCAAAG
 GAATTAACAGAGCTAGCTAGAACAAAAGGATTTAAAGGAAGTGGGAAGAGCTGTGTAACAGCAGCGAGA
 TGGAAAATGAGGTCTTAAAGTGTCTTCTGAAGCTGCTATTTAGCAAGTCTGGAAGTTTGAATTTCC
 ACTAAAAATACGTTTGTAGCCCTGACCCATGGACTCCCGAAACTGGTCTGGTGACAGATGCCTTCAAGTTG
 AAACGTAAGAGCTTAAACACACTACCAGGCAGACATTGAGCGGATGTATGGAAGAAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033606
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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001033606.2 , NP_001028778.2
RefSeq Size:	3810 bp
RefSeq ORF:	2163 bp
Locus ID:	74205
UniProt ID:	Q9CZW4
Cytogenetics:	1 40.84 cM
Gene Summary:	<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 (2) lacks an exon in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).</p>