

## Product datasheet for **MC202115**

### **Acsm2 (NM\_146197) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsm2 (NM_146197) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsm2
Synonyms:	AI315615; BC031140
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031140 sequence for NM\_146197  
 GCTGCAGGAATTCTCAAACGACTTCCCAAGAGGGAAATAGACAAAGCTACTGTCAGAGAGAGTTCAGAA  
 GAAGACCAGAAGCTCTGACTATGCATCATCTATGGAAAATTTCAAAGACTTTTCACTCTCTGGGGGAATGA  
 GATTTCTGCCGTAATTTCCATATGAATATCAAGAACTAATACCCATACAGTGGGGCCACCAGGAAGCA  
 CCTGCCAAGTTCAACTTCGCTAGTGATGTGATAGATCACTGGGCCAGCGTAGAGAAGGCTGGCAAGAGAT  
 CTTCAGGTCCAGCCCTGTGGTGGATGAATGGCAGTGGGAAAGAAATAAAGTGGAGCTTCCGAGAAGTGGAG  
 TGAAGCCAGTAAACAAACGGCCAATGTTCTCTCGGGAGCCTGTGGCCTACATCGTGGGGACCGTGTGGCA  
 GTAGTGTCTCCCGAATCCAGAGTGGTGGCTGATGATCCTGGGCTGCATGCGGACAGGCCCTTGTTTTCA  
 TGCTGGGACCATCCAGATGAGATCCTCAGACATACTCTACAGGCTGCAGGCATCCAAGGCCAGGGCCAT  
 TGTGGCTGGGACGAAGTAGCTCAGGAAGTGGATGCTGTGGCCCTGACTGCTCTTTTCTGAAAATCAAG  
 TTGCTGGTGTCTGAAAACAGTCGAGAAGGATGGCTAAACTTCAAGGCATTGCTAAAAGAGGCATCCACCA  
 TTCATCAGTGTGTGGAGACAGAAAGCCGAGAATCAGCAGCCATCTACTTCACTAGTGGGACCAGTGGCCC  
 TCCCAAGATGGCAGAACACTCCCACTGCAGCCTGGGCATCAAGGCCAAGATGGATGCTGCCAGCTGGACA  
 GGCCTGAGTACTTCTGACATAATATGGACCATCTCAGACACGGCTTGGATAATGAACATTTTAGGAGCGT  
 TTCTGGAACCTTGGGTATTGGGAGCATGCATATTTGCCATCTTTTGCCAAAGTTTGATTACAAACTGT  
 TCTAAAGGTGCTTCCAGCTATCCCATCAATACCTGGTGGGTGCCCCCATCATTACCGGATGTTGCTA  
 CAACAGGATCTTCCAGTTACAAATTTCCACATCTGCATAGCTGCTTCACTGAGGAGAGACCCCTTCTCC  
 CAGAGACTCTGGAGAAGTGGAAAGCCAAGCAGGACTGGAAATCCGAGAAATCTATGGCCAGACAGAAAAC  
 GGGACTTATCTGCAGAGTTTCCAGGACAATGAAAGTCAAACCAGGCTACCTGGGAACAGCCTTTGCTCAC  
 TATGATGTACAGGTATAGATGAGCAGGGCAATGTTCTGCCCCCTGGCAAGGAAGGAGACATAGCTATCA  
 GGGTGAAGCCATCTGGCCTATCGGCATGTTCTCTGGATATGTGGACAATCCCAAGAAGACACAGGATAA  
 TATTCGAGGAGACTTTTGGCTTATGGGAGACCGGGGAATCAAGGATCCAGAAGGGTATTTCCACTTCATA  
 GGGCGGTGAGACGATATCATTAAATCCAGTGGTACCGGATTGGACCTTCCGAGGTGAAAATGCACTGA  
 TGGAGCATCCTGCCGTAAGCGAAAACAGCAGTGATCAGCAGCCAGACCCCTTCCAGAGGAGAGGTGGTGAA  
 GGCATTTGTGGTCTAGCCCTGAATTCCTGTCCATGACCGAGACCAGCTCACTAAGGTGCTTACGGAG  
 CACGTGAAGTCACTGACAGCACCCCTACAAGTACCCAGGAAGGTGGAGTTCGTCTTAGACCTGCCAAGA  
 CCGTCACAGGAAAAATTGAGCGAGCAAAGCTTCGAGCCAAGGAATGAAAAACATCAGGACGAGCCTAGGC  
 CCAGTGAAGTCTGAGGCTTTTGTGGGTTCTGTCTTCCCAATCCTTCTGTGACTTCTTCGTCTC  
 CACTTATGGAGATATAAGATTATTCACACAGAGGCACGTATGTGATTTTGGTCTCTGTTGGTTATTGAC  
 AAAGAACAATGACACGTTTACACTAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_146197

**Insert Size:** 1728 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: [BC031140](#), [AAH31140](#)

RefSeq Size: 2000 bp

RefSeq ORF: 1728 bp

Locus ID: 233799

UniProt ID: [Q8K0L3](#)

Cytogenetics: 7 F2

**Gene Summary:** Has medium-chain fatty acid:CoA ligase activity with broad substrate specificity (in vitro). Acts on acids from C(4) to C(11) and on the corresponding 3-hydroxy- and 2,3- or 3,4-unsaturated acids (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (3) is shorter at the N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.