

Product datasheet for **MC228362**

Acsm3 (NM_212442) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm3 (NM_212442) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsm3
Synonyms:	Sa; Sah
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228362 representing NM_212442
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGTTACTCCGTGCTAGGTGTTTTTCAGCGCCTAGCAATTCCTGATCCTATGAGAGTCTTGATA
 AAGATTACAGAACAGCGACCCCTCAGAACTTTTCCAACATGAGTCCATGAAACAAGACTTCAAAATAGA
 GATTCCAGAGTATTTCAATTTTGCAAAAGATGTCTGGACCAATGGACCAATATGGAAAAGGCTGGAAAG
 AGACTTTCCAATCCAGCCTTCTGGTGGATAGATGGGAATGGAGAAGAGCTGAGATGGAGTTTTGAAGAAC
 TTGGGTTGTTATCCAGGAAATTTGCCAACATACTCACAGAAGCCTGCTCCCTGCAAAGAGGAGACAGAGT
 AATGGTGATACTGCCAAGATCCAGAGTGGTGGCTTCCAATGTGGCCTGTCTGCGAACAGGGACAGTT
 TTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATCCTCTATAGACTACAATCTTCAAAGCTAAGT
 GCATTATTACCGATGATACTTTGGCCCCAGCAGTAGATGCCGTGGCAGCTAAATGTGAAAATCTCCACTC
 CAAATTAATTGTGTCTCAGCACTCCAGAGAAGGCTGGGGAAACCTCAAGGAGATGATGAAATATGCCAGT
 GACAGCCACACTTGTGTGGACACAAAACAGCAGAGATGATGGCCATCTACTTCACCAGTGGGACAACCTG
 GGCTCCTAAGATGATTGGACACACCCACAGCAGCTTTGGTTTAGGATTGTCTGTCAATGGAAAGTTCTG
 GCTGGATTTGATAGCCTCCGATGTGATGTGGAATACTTCAGATACAGGCTGGGCAAAGTCTGCATGGAGT
 AGTGTTTTTTCTCCATGGACCCAAGGAGCATGTGTTTTGCACACTATTTGCCCGTTTTGAATCAACTT
 CCATCTTGCAAACCTCTCCAAGTTCCTCATCTGTCTTCTGTCTGCACCAACTGCCTACCGGATGCT
 TGTTGAGAATGACATGAGCAGCTATAAGTTCAACAGTTTGAAGCACTGTGTCAGTCTGGAGAACCTATT
 AACCTGAAGTGATGGAACAATGGAGAAAGACGGCCCTAGACATCTATGAAGGATATGGACAGACAG
 AAACGGTGTGATCTGTGAAATTTCAAGGGGATGAAAATTAAGCCCGCTCAATGGGAAAGCCTTCTCC
 TGCTTTTGATGTGAAGATTTTAGATGAAAATGGTGGCCACTCTTCTCCTGGACAAGAAGGGGATATTGCT
 CTCAAGTTCTTCTGAGCGACCAATTTGGCCTTTTACTCATTATGTAGATAATCCTTCCAAAACGGCTT
 CAACTCTACGAGGGAGTTTCTACATACTGGGGACAGAGGATATATGGATGAAGATGGCTATTTCTGGTT
 TGTTGCAAGATCAGATGATATCATATTATCTTCTGGTTACCGAATTGGACCATTGAGGTAGAAAGTGCC
 CTCATAGAACATCCTTCCATCGCAGAGTCACTGTTGTCAGCAGTCCAGACCCATCAGAGGAGAGGTAG
 TAAAGGCTTTTATTGCTGAATCCTGATTACAAGTCCCATGATCAAGAGCAACTGAAAAGGAGATCCA
 GGAGCAGTGAAGAAGACTACAGCGCTTACAAAATACCCAGAAAGGTAGAAATTTATTGAAGAGCTGCC
 AAGACTGTCAGTGGGAAGGTCAAAGAAATGAACTGAGGAAAAGGAATGGGTAACAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_212442
- Insert Size:** 1743 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:

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_212442.2](#), [NP_997607.2](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1743 bp

Locus ID: 20216

UniProt ID: [Q3UNX5](#)

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).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) contains an alternate in-frame segment in the 5' UTR, compared to variant 1. The three transcript variants all encode the same protein.