

Product datasheet for **MC219348**

Acsm4 (NM_178414) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm4 (NM_178414) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsm4
Synonyms:	O-MACS; OMACS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219348 representing NM_178414
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGTTCTCCTCCTACTGTCAGAGACTTAGATTCATCTGGCTTGCCAAGCCAGCCGGCCGACTTCC
 ACAGAGATTCAGCTCTGGGCACCTCTGACACTGGATGACTTTGAAGCCATCAATCGCTGTGAGAAGCC
 ATTACCCAAGAACTTTAACTTTGACAGCAGATGTTCTGGACCAGTGGTCCCTAAAGGAGAAGTCTGGAGAG
 AGGCCAGCCAACCCAGCCCTGTGGTGGTGAATGGGAAAGGAGATGAGGTGAAGTGGAGCTTCCAAGAAC
 TGGGTTCTTTGTCCGAAAGGCTGCCAATGTGCTCACCAAGCCCTGCGGCCTGCAGAGAGGAGACCCGGT
 GGCTGTGATTCTGCCCGTATCCCTGAATGGTGGCTCATCAATGTGGCTTGCATGAGAACAGGGCTTGTA
 TTCATGCCAGGAACGATCCAACCTGACCAGAAAAGACATCTCTACCGGCTGCAAGCATCCAAGGCCAAGT
 GCATTGTGGCTAGTGAGGAAGTGGCCCCGCAGTGGACTCCATTGTATCAGAGTGTCCAGCCTGAAGAC
 TAAACTCTGGTGTCTCCACACCCTGGGATGGATGGCTCAACTTTCAGGAGTTACTTCAATCGGCCTCT
 GAAGAGACAATTTGTGTGGAGACGGGAAGTCAAGAACCAATGGCCATTTACTTCACCAGTGGGACCACAG
 GCTCCCCAAGATGGCTCAGCACTCACAGGGCAGCCTTGGCATTGGGTATACCCTTTGTGGAAGGTAAGT
 GCTGGACTTGACATCCTCAGATATCATGTGGAACATGTCAGACTGGCTGGATCAAGGCTGCCATTGGT
 AGTGTGTTTTCTACATGGCTTCGAGGGCCTGTGTTTTGTGCACCGGATGGCCAGTTCGACACTGATA
 TCTTCTAGACACTTACCACATATCCCATCACGACCCTGTGCAGTGCCTACGGTGTACCGGATGCT
 CGTACAAAAGGACCTTAAGAGATATCAATTCAAGAGGCTGCGGCCTGCCTGACAGGAGGGGAGCCACTC
 AACCCGAAGTGTGGAACAGTGAAGATGCAAACTGGGCTGGAGCTGTACGAGGGCTACGGACAGACCG
 AAGTGGGAATAATTTGCGCCAATCGAAAGGAGAAGCAATTAACCAGGTTCCATGGGAAAAGGAGTGT
 GCCGTACGATGTGCAGATTATAGATGAAAATGGAATATCCTACCATCCGGCAAGGAAGGGAAATTGCC
 CTTAGGCTGAAGTCCGATCGGCCCTTCTGTTTCTCTCTGAATATGTGGACAATCCAGAAAAGACAGATG
 CCACAATAAGAAGAAATTTTATGTCACTGGAGACAGAGGAGTATGGATGATGACGGATACTTTTGGTT
 TGTGCGCAGAGCTGATGATGTCATTATATCTTCTGGGTACCGAATTGGGCCTTTTGAAGTAGAGAGCGCA
 CTGATAGAGCACCCAGCAGTAGTTGAGTCACTGTTGTCAGCAGTCCAGATCCGATCCGAGGAGAGGTGG
 TGAAGGCATTTATTGACTAGTGCACCCTACAAGTGTCCAACCGTGAAGGTTAACCGCTGAACCTTCA
 GGATCATGTGAAAATTTCAACAGCACCTTACAAATACCCAAGAAAAGTGGAAATTTGTTCAAGAACTCCA
 AAGACAATCACTGGGAAAATCAAACGCAACGTGTTAAGAGACCAGGAATGGGGAAGAGCATAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_178414
- 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).
- 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_178414.3](#), [NP_848501.1](#)

RefSeq Size: 2153 bp

RefSeq ORF: 1743 bp

Locus ID: 233801

UniProt ID: [Q80W40](#)

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]