

Product datasheet for **MC219237**

Acsm5 (NM_178758) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Acsm5 (NM_178758) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Acsm5 |
| Synonyms: | C730019D22; C730027J19Rik |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219237 representing NM_178758
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTTGTGGCTAAGAGGCCTGGCCTGCCAGGCTCTGAGGAGTTCCTGGGGAGTCTGCAGGATTCA
 CACAGCCACCACCTCCCCGATCCCTGAGGTGGTAGCTACCTGGGAAGCCATCAGCCTGGGGAGGCAGCC
 AGTGCCCCGAGTACTTCAACTTTGCTCATGATGTGTTGGATGTGTGGAGTCACTGGAAAAGACAGGGCAC
 CGGCCCCCAATCCTGCATTCTGGTGGGTGAACGGCTCAGGAACAGAAGTCAAGTGGACATTTGAGGAGC
 TGGGGAAGCAGTCGAGGAAGGCAGCCAATGTCTTAGAGGGTGTGTGGCCTGCAACCTGGAGACAGAAT
 GATGCTGGTGCTCCGAGACTCCAGATTGGTGGCTGATCAGCGTGGCTTGTATGCGAACAGGTGTGGTC
 ATGATCCCAGGAGTCTCCAGCTGACAGCGAAGGATCTCAAGTATCGGCTGCAGGCTGCCAGGGCCAAGT
 CTATCGTACCAGTGTGCCCTAGCTCCGAAGTGGATGCCATCAGTGTGACTGTCCCTCCCTCCAAC
 CAAGTCTTGGTGTCTGACACCAGCCGTCAGGCTGGATCAATTCGAGAACTCCTGAGAGCGGCTTCT
 CCAGAGCACAACGTGTGAGAACCAGAAGTGGAGATTCAGTGGCCATCTACTTCACCAGTGAACCCAG
 GGGCCCCAAGATGGTGGAACTTCCCAGTCCAGCTATGGATTGGGTTTTGTGGCCAGTGAAGGAGGTG
 GATGGCCTTGACTGAGTCTGACATATTCTGGAACACAACCTGACTGGATGGGTGAAAGCAGCCTGGACC
 CTCTTCTGCTGGTCCAATGGAGCTTGCAATTTTTGTGCATGAGCTGCCCGAGTTGATGCCAAAATA
 TTCTAAATACTCTCTGCAGGTTCCAATAACCACCCTGTGCTGTGTCCTCAACCCTTCCGGCTGCTTGT
 ACAAGAGGATCTGACAAGGTACAAGTCCAATGTCTGAGGCAGTGTGACGGGTGGAGAGGCCCTCAAC
 CCTGATGTGAGGGACAAGTGAAGAGCCAGACAGGCCCTGGAGTCCATGAAGGCTATGGACAATCAGAAA
 CAGTTGTCATCTGTGGCAATTAAGAACTCGACAATCAAGTCTGGATCTATGGGAAAGCAAGCCACC
 TTACGATGTGCAGATTGTAGATGAGGAGGCAATGTCCTGCCTCCAGAAAAGAGGAAATATTGCTGTC
 CGAATCAAGCCTACTAGACCCTTCTGTTTCTTCAACTGCTATCTGGACAATCCCGAGAAGACAGCAGCAT
 CAGAGCAAGGAGACTTTTACATCACTGGGGACAGAGCACATATGGACGAGGATGGCTACTTTTGGTTCTT
 GGGGAGAAATGATGATGTAATCAACTCTTCAAGCTACCGGATTGGTCTGTTGAAGTAGAGAGTGCCTT
 GCTGAGCATCCAGCTGCTCTGGAGTCTGCTGTGGTCCAGCAGCCCAGCCCATCCGGGGAGAGGTGGTAA
 AGGCATTTATAGTCTTCTCCAGCCTATGCATCTCATGACCCAGAAGCCCTGACCAGGGAAGTCCAGGA
 GCATGTGAAGACAGTACTGCTCCATACAAGTACCCAGGAAGGTGGCTTTTATTCAGAAGTCCAAAAG
 ACGGTTTCTGAAAGATCCTAAGGAGTAAATTGAGAAACCAAGAGTGGGGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_178758
- Insert Size:** 1737 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_178758.3](#), [NP_848873.1](#)

RefSeq Size: 2505 bp

RefSeq ORF: 1737 bp

Locus ID: 272428

UniProt ID: [Q8BGA8](#)

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]