

Product datasheet for **RN200595**

Acsm5 (NM_001014162) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm5 (NM_001014162) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acsm5
Synonyms:	Aa2-174; Cc1-38; RGD1309578
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200595 representing NM_001014162
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTTATGGCTGAGAGGTCTGGTCTACCAGGCTCGGAGGAGTTCCTGGGGAGTCTTCAGATTACACA
 CACAGCCACCACCTCCCCATCCCTGAGGTTGTAGCTACCTGGGAAGCCATCAGCCTAGGGAAGCGGCC
 AGTGCCGGAGTACTTCAACTTTGCCACAGTGTGCTAGATGTGTGGAGTCACTGGAAAAGACAGGGCAC
 CGCCCCCAAATCCTGCATTCTGGTGGGTGAATGGCTCAGGAACAGAAGTCAAGTGGACATTTGAGGAAC
 TGGGAAAGCAGTCCAGGAAGGCAGCCAACATCTTAGAGGGAGCATGTGGCCTGAAACCTGGAGACAGATT
 AATGCTGGTGTCTCCGAGACTCCAGAATGGTGGCTGACCATCGTGGCTTGTATGCGAACAGGTGTGGTC
 ATGATCCCAGGCATTTCCAGCTGACACAGAAGGATCTCAAGTACCGGCTACAGGCTGCCAGGGTCAAT
 CCATCATCACCAGTGTGCCCTAGCTCCTCACGTGGATGCCATCAGTGTGACTGCCCTCCCTTCAAAG
 CAGGCTTCTGGTGTCTGATACCAGTCTGACAGGCTGGATCAATTCGGGAACTCCTGAGAGTGGCATCT
 CAGAACAACAACCTGCCTGAGAACCAGAAGTGGAGATCAATGGCCATCTACTTCACCAGTGAACCCAGG
 GGACCCCCAAGATGGTGGAACTTTCCAGTGCAGCTATGGACTGGGTTTTGTGGCCAGTGGAAAGGAGTT
 GATGGCCTTGACTGAATCCGACATATTCTGGAACAACAACCTGACTGGTTGGGTGAAAGCAGCCTGGACT
 CTCTTCTGCTGGCCAAATGGCGCTTGGTTTTGTGCATGAGCTGCCCAAGTTGATGCCCAAACCTA
 TTCTAAATACTCTCTGCAGGTTCCCAATAACCACCATTTGCTGTGTCCCAACCCTCTTCCGGTGTGTGT
 ACAAGAGGATCTGACAAGGTACAAGTCCAGTGCCTCAGACACTGTTTGGCCGGTGGAGAAGCCCTCAAC
 TCTGACGTGAGGGACAAGTGAAGAACCAGACAGGCTGGAGATCCATGAAGGCTACGGACAATCAGAAA
 CAGTCCATCTGTGGCAATTTTAGAGGCTCAACGATCAAGTCTGGATCTATGGGAAAGCAAGCCACC
 TTACGATGTGCAGATTGTAGACGAGGAGGTAATGTCCTGCCTCCAGGAAAAGAGGAAATATTGCCATC
 CGCATCAAACCTACTAGACCCTTCTGTCTCTTCAACTGCTATCTGGACAATCCTGAGAAGACAGCAGCAT
 CAGAGCAAGGAGACTTTTACATCACTGGGGACCGAGCACATATGGACGAGGACGGCTACTTTTGGTTCGT
 GGGGAGAAATGATGATGTAATCAACTCTTCAAGTACCGGATTGGCCTGTGGAAGTAGAGAGTGCCTG
 GCTGAGCATCCGGCTGTCTGGAGTCTGCTGTGGTCTGAGCAGCCAGACCCATCCGGGGAGAGGTGGTAA
 AGGCGTTTATAGTCTTTCTCCAGCCTATGTGTCTCATGACCCAGAAGCCCTGACCAGGGAACCTCAGGA
 GCATGTGAAGACAGTACTGCTCCATACAAGTACCCAGGAAGGTGGCTTTTATTTCCGAACTGCCAAAG
 ACGGTTTTCTGAAAGATCCTAAGGAGTAAATTGAGAAACCAAGAGTGGGGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001014162
- 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_001014162.4](#), [NP_001014184.3](#)

RefSeq Size: 2457 bp

RefSeq ORF: 1737 bp

Locus ID: 361637

UniProt ID: [Q6AYT9](#)

Cytogenetics: 1q35

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]