

Product datasheet for **RR200595**

Acsm5 (NM_001014162) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR200595 representing NM_001014162
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTTATGGCTGAGAGGTCTGGTCTACCAGGCTCGGAGGAGTTCCTGGGGAGTCTTCAGGATTCACA
 CACAGCCACCACCTCCCCCTATCCCTGAGGTTGTAGCTACCTGGGAAGCCATCAGCCTAGGGAAGCGGCC
 AGTGCCGGAGTACTTCAACTTTGCCACAGTGTGCTAGATGTGTGGAGTCACTGAAAAAGACAGGGCAC
 CGCCCCCAAATCCTGCATTCTGGTGGGTGAATGGCTCAGGAACAGAAGTCAAGTGGACATTTGAGGAAC
 TGGGAAAGCAGTCCAGGAAGGCAGCCAACATCTTAGAGGGAGCATGTGGCCTGAAACCTGGAGACAGATT
 AATGCTGGTGCTCCGAGACTCCAGAATGGTGGCTGACCATCGTGGCTTGTATGCGAACAGGTGTGGTC
 ATGATCCCAGGCATTTCCAGCTGACACAGAAGGATCTCAAGTACCGGCTACAGGCTGCCAGGTCAAAT
 CCATCATACCAGTGATGCCCTAGCTCCTCACGTGGATGCCATCAGTGTGACTGCCCTCCCTTCAAAG
 CAGGCTTCTGGTGTCTGATACCAGTCTGACAGGCTGGATCAATTCGGGAACTCCTGAGAGTGGCATCT
 CAGAACAACAACCTGCCTGAGAACCAGAAGTGGAGATTCAATGGCCATCTACTTCACAGTGAACCCAGG
 GGACCCCCAAGATGGTGGAACTTTCCAGTGCAGCTATGGACTGGGTTTTGTGGCCAGTGGAAAGGAGTT
 GATGGCCTTGACTGAATCCGACATATTCTGGAACAACAACCTGACTGGTTGGGTGAAAGCAGCCTGGACT
 CTCTTCTGCTGGCCAATGGCGCTTGGTTTTGTGCATGAGCTGCCCAAGTTGATGCCCAAACCTA
 TTCTAAATACTCTCTGCAGGTTCCCAATAACCACCATTTGCTGTGTCCCAACCCTCTCCGGCTGCTTGT
 ACAAGAGGATCTGACAAGGTACAAGTCCAGTGCCTCAGACACTGTTTGGCCGGTGGAGAAGCCCTCAAC
 TCTGACGTGAGGGACAAGTGGAAAGAACAGACAGGCTGGAGATCCATGAAGGCTACGGACAATCAGAAA
 CAGTCCATCTGTGGCAATTTTAGAGGCTCAACGATCAAGTCTGGATCTATGGGAAAGCAAGCCACC
 TTACGATGTGCAGATTGTAGACGAGGAGGTAATGTCCTGCCTCCAGGAAAAGAGGAAAATATTGCCATC
 CGCATCAAACCTACTAGACCCTTCTGTCTCTTCAACTGCTATCTGGACAATCCTGAGAAGACAGCAGCAT
 CAGAGCAAGGAGACTTTTACATCACTGGGGACCGAGCACATATGGACGAGGACGGCTACTTTTGGTTCGT
 GGGGAGAAATGATGATGTAATCAACTCTTCAAGTACCGGATTGGCCTGTGGAAGTAGAGAGTGCAGT
 GCTGAGCATCCGGCTGCTCTGGAGTCTGCTGTGGTCCAGCAGCCAGACCCATCCGGGGAGAGGTGGTAA
 AGGCGTTTATAGTCTTTCTCCAGCCTATGTGTCTCATGACCCAGAAGCCCTGACCAGGGAACCTCAGGA
 GCATGTGAAGACAGTACTGCTCCATACAAGTACCCAGGAAGGTGGCTTTTATTTCCGAACTGCCAAAG
 ACGGTTTTCTGAAAGATCCTAAGGAGTAAATTGAGAAACCAAGAGTGGGGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200595 representing NM_001014162
 Red=Cloning site Green=Tags(s)

MRLWLRGLVYQARRSSWGVFRIHTQPPPPPIPEVVATWEAISLGKRPVPEYFNFAHDVLDVWSQLEKTH
 RPPNPAFWVWVNGSGTEVKWTFEELGKQSRKAANILEGACGLKPGDRLMLVLPRLPEWWTIVACMRTGVV
 MIPGISQLTQKDLKYRLQAARVKSIIITSDALAPHVDAISADCPQLSRLLVSDTSRPGWINFRELRLVAS
 PEHNCLRTRSGDSMAIYFTSGTTGTPKMVEHSQCSYGLGFVASGRRLMALTESDIFWNTTDTGWVKAAT
 LFSAWANGACVHVHELPQVDAQTILNLCRFPITTIICVPTLFRLLVQEDLTRYKFQCLRHCLAGGEALN
 SDVRDKWKNQTGLEIHEGYGQSETVLICGNFRGSTIKSGSMGKASPPYDVQIVDEEGNVLPKGEGNIAI
 RIKPTRPFCLFNCYLDNPEKTAASEQGFYITGDRAHMDDEDGYFWFVGRNDDVINSSSYRIGPVEVESAL
 AEHPAVLESVVSSPDPVIRGEVVKAFIVLSPAYVSHDPEALTRELQEHVKTVTAPYKYPRKVAFISELPK
 TVSGKILRSKLRNQEWGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001014162

ORF Size: 1734 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

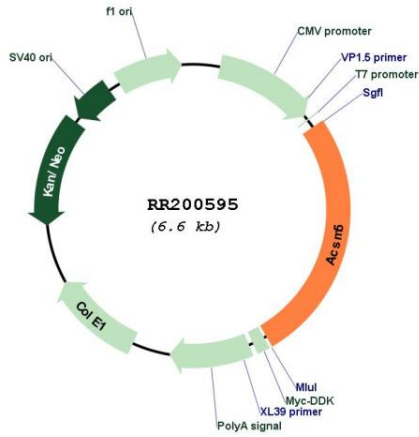
UniProt ID: [Q6AYT9](#)

Cytogenetics: 1q35

MW: 64.6 kDa

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]

Product images:



Circular map for RR200595