

## Product datasheet for **MR209074**

### **Acsm5 (NM\_178758) Mouse Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR209074 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGTTGTGGCTAAGAGGCCTGGCCTGCCAGGCTCTGAGGAGTTCCTGGGGAGTCTGCAGGATTCA  
 CACAGCCACCACCTCCCCGATCCCTGAGGTGGTAGCTACCTGGGAAGCCATCAGCCTGGGGAGGCAGCC  
 AGTGCCCCGAGTACTTCAACTTTGCTCATGATGTGTTGGATGTGTGGAGTCACTGGAAAAGACAGGGCAC  
 CGGCCCCCAATCCTGCATTCTGGTGGGTGAACGGCTCAGGAACAGAAGTCAAGTGGACATTTGAGGAGC  
 TGGGGAAGCAGTCGAGGAAGGCAGCCAATGTCTTAGAGGGTGTGTGGCCTGCAACCTGGAGACAGAAT  
 GATGCTGGTGCTCCGAGACTCCAGATTGGTGGCTGATCAGCGTGGCTTGATGCGAACAGGTGTGGTC  
 ATGATCCCAGGAGTCTCCAGCTGACAGCGAAGGATCTCAAGTATCGGCTGCAGGCTGCCAGGGCCAAGT  
 CTATCGTACCAGTGTGCCCTAGCTCCGAAGTGGATGCCATCAGTGTGACTGTCCCTCCCTCCAAC  
 CAAGTCTTGGTGTCTGACACCAGCCGTCAGGCTGGATCAATTCGAGAACTCCTGAGAGCGGCTTCT  
 CCAGAGCACAACGTGTGAGAACCAGAAGTGGAGATTCAGTGGCCATCTACTTCACCAGTGAACCCAG  
 GGGCCCCAAGATGGTGGAACTTCCAGTCCAGCTATGGATTGGGTTTTGTGGCCAGTGAAGGAGGTG  
 GATGGCCTTGACTGAGTCTGACATATTCTGGAACACAACCTGACTGGATGGGTGAAAGCAGCCTGGACC  
 CTCTTCTGCTGGTCCAATGGAGCTTGCAATTTTGTGCATGAGCTGCCCGAGTTGATGCCAAAATA  
 TTCTAAATACTCTCTGCAGGTTCCCAATAACCACCCTGTGCTGTGTCCCAACCCTTCCGGCTGCTTGT  
 ACAAGAGGATCTGACAAGGTACAAGTCCAATGTCTGAGGCACGTGTTGACGGGTGGAGAGGCCCTCAAC  
 CCTGATGTGAGGGACAAGTGAAGAGCCAGCAGGCCCTGGAGTCCATGAAGGCTATGGACAATCAGAAA  
 CAGTTGTGATCTGTGGCAATCAAGAACTCGACAATCAAGTCTGGATCTATGGGAAAAGCAAGCCACC  
 TTACGATGTGCAGATTGTAGATGAGGAGGCAATGTCTGCTCCAGGAAAAGAGGAAAATATTGCTGTC  
 CGAATCAAGCCTACTAGACCCTTCTGTTTCTCAACTGCTATCTGGACAATCCCGAGAAGACAGCAGCAT  
 CAGAGCAAGGAGACTTTTACATCACTGGGGACAGAGCACATATGGACGAGGATGGCTACTTTTGGTCTT  
 GGGGAGAAATGATGATGTAATCAACTCTCAAGCTACCGGATTGGTCTGTTGAAGTAGAGAGTGCACCT  
 GCTGAGCATCCAGCTGCTCTGGAGTCTGCTGTGGTCCAGCAGCCAGCCCATCCGGGGAGAGGTGGTAA  
 AGGCATTTATAGTCTTCTCCAGCCTATGCATCTCATGACCCAGAAGCCCTGACCAGGGAAGTCCAGGA  
 GCATGTGAAGACAGTACTGCTCCATACAAGTACCCAGGAAGGTGGCTTTTATTTCAGAAGTCCAAAAG  
 ACGGTTTTCTGAAAAGATCCTAAGGAGTAAATTGAGAAACCAAGAGTGGGGGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209074 protein sequence  
 Red=Cloning site Green=Tags(s)

MRLWLRGLACQALRSSWGVCRIHQPPPPPIPEVVATWEAISLGRQPVPYFNFAHDVLDVWSQLEKTH  
 RPPNPAFWVWNGSGTEVKWTFEELGKQSRKAANVLEGVCLQPGDRMMLVLPRLPDWWLISVACMRTGVV  
 MIPGVSQLTAKDLKYRLQAARAKSIVTSDALAPQVDAISADCPQLTKLLVSDTSRPGWINFRELRAAS  
 PEHNCVTRSRGDSVAIYFTSGTTGAPKMEHSQSSYGLGFVASGRRMALTESDIFWNTTDTGWVKA  
 AWTLFSAWSNGACIFVHELPRVDAKILNLTLCRFPITLCCVPTLFRLLVQEDLTRYKFQCLRHCLTGG  
 EALNPDVRDKWKSQTGLELHEGYGQSETVVICGNSRNSTIKSGSMGKASPPYDVQIVDEEGNVLP  
 PGKEGNIARIKPTRPFCFFNCYLDNPEKTAASEQGFYITGDRAHMDDEDGYFWFLGRNDDVINSSSYR  
 IGPVEVESALAEHPAVLESVVSSPDPVIRGEVVKAFIVLSPAYASHDPEALTRELQEHVKVTAPYKY  
 PRKVAFISELPKTVSGKILRSKLRNQEWGR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_178758

**ORF Size:** 1737 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\\_178758.3](#), [NP\\_848873.1](#)

**RefSeq Size:** 2505 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 272428

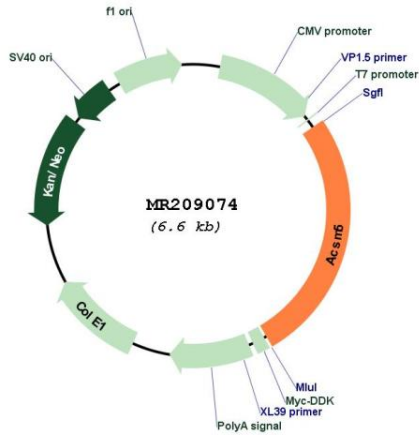
**UniProt ID:** [Q8BGA8](#)

**Cytogenetics:** 7 F2

**MW:** 64.3 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 MR209074