

Product datasheet for **MR209099**

Acsm4 (NM_178414) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR209099 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGTTCTCCTCACTGTCAGAGACTTAGATTCATCTGGCTTGCCAAGCCAGCCGGCCGCACTTCC
 ACAGAGATCCCAGCTCTGGGCACCTCTGACACTGGATGACTTTGAAGCCATCAATCGCTGTGAGAAGCC
 ATTACCCAAGAACTTTAACTTTGCAGCAGATGTTCTGGACCAGTGGTCCCTAAAGGAGAAGTCTGGAGAG
 AGGCCAGCCAACCCAGCCCTGTGGTGGTGAATGGGAAAGGAGATGAGGTGAAGTGGAGCTTCCAAGAAC
 TGGGTTCTTTGCCGAAAGGCTGCCAATGTGCTCACCAAGCCCTGCGGCCTGCAGAGAGGAGACCCGGT
 GGCTGTGATTCTGCCCGTATCCCTGAATGGTGGCTCATCAATGTGGCTTGATGAGAACAGGGCTTGTA
 TTCATGCCAGGAACGATCCAACCTGACCAGAAAAGACATCTCTACCGGCTGCAAGCATCCAAGGCCAAGT
 GCATTGTGGCTAGTGAGGAAGTGGCCCCGCAGTGGACTCCATTGTATCAGAGTGTCCAGCCTGAAGAC
 TAAACTCTGGTGTCTCCACACCACTGGGATGGATGGCTCAACTTTCAGGAGTACTTCAATCGGCCTCT
 GAAGAGACAATTTGTGTGGAGACGGGAAGTCAAGAACCAATGGCCATTTACTTCACCAGTGGGACCACAG
 GCTCCCCAAGATGGCTCAGCACTCACAGGGCAGCCTTGGCATTGGGTATACCCTTTGTGGAAGGTAAGT
 GCTGGACTTGACATCCTCAGATATCATGTGGAACATGTCAGACTGGCTGGATCAAGGCTGCCATTGGT
 AGTGTGTTTTCTACATGGCTTCGAGGGCCTGTGTTTTGTGCACCGGATGGCCAGTTCGACACTGATA
 TCTTCTAGACACACTTACCACATATCCCATCACGACCTGTGCAGTGTCTACGGTGTACCGGATGCT
 CGTACAAAAGGACCTTAAGAGATATCAATTCAAGAGGCTGCGGCCTGCCTGACAGGAGGGGAGCCACTC
 AACCCGAAGTGTGGAACAGTGAAGATGCAAACTGGGCTGGAGCTGTACGAGGGCTACGGACAGACCG
 AAGTGGGAATAATTTGCGCAATCGAAAAGGAGAAGCAATTAACCAGGTTCCATGGGAAAAGGATGAT
 GCGGTACGATGTCAGATTATAGATGAAAATGGAATATCTACCATCCGCAAGGAAGGGAAATTTGCC
 CTTAGGCTGAAGTCCGATCGGCCCTTCTGTTTCTCTGAATATGTGGACAATCCAGAAAAGACAGATG
 CCACAATAAGAAGAAATTTTATGTCAGTGGAGACAGAGGAGTATGGATGATGACGGATACTTTTGGTT
 TGTGCGCAGAGCTGATGATGTCATTATATCTTCTGGTACCGAATGGGCCTTTTGAAGTAGAGAGCGCA
 CTGATAGAGCACCCAGCAGTAGTTGAGTCACTGTTGTCAGCAGTCCAGATCCGATCCGAGGAGAGGTGG
 TGAAGGCATTTATTGACTAGTGCACCCTACAAGTGTCCAACCGTGAAGGTTAACCGCTGAACCTTCA
 GGATCATGTGAAAATTTCAACAGCACCTTACAAATACCCAAGAAAAGTGGAAATTTGTTCAAGAACTCCCA
 AAGACAATCACTGGGAAAATCAAACGCAACGTGTTAAGAGACCAGGAATGGGGAAGAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209099 protein sequence
 Red=Cloning site Green=Tags(s)

MKVLLHCQRLRFIWLAKPAGRHFRDSQLWAPLTLDDFEAINRCEKPLPKNFNF AADVLDQWSLKEKSGE
 RPNPALWWVNGKGDEVKWSFQELGSLSRKAANVLTkPCGLQRGDRVAVILPRIPWWLINVACMRTGLV
 FMPGTIQLTRKDILYRLQASKAKCIVASEEVAPAVDSIVSECPKTKLLVSPHHWDGWLNFQELLQSAS
 EEHNCVETGSQEPMAIYFTSGTTGSPKMAQHSQSLGIGYTLGCRYWDLTSSDIMWNMSDTGWIKAAIG
 SVFSTWLRGACVVFHRMAQFDITDITLTYPIITLCSAPTYYRMLVQKDLKRYQFKRLRHCLTGGEPL
 NPEVLEQWKMQTGLELYEGYQTEVGIICANRKGAEIKPGSMGKVVVYDVQIIDENGNILPSGKEGEIA
 LRLKSDRPFCCFFSEYVDNPEKTDATIRNFYVTGDRGVMDDGYFWFVGRADDVVISSGYRIGPFVEESA
 LIEHPAVVESAVVSSPDIRGEVVKAFIVLAAPYKCSNREKLTAEQLQDHVKNSTAPYKYPRKVEFVQELP
 KITITGKIKRNVLRDQEWGRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178414

ORF Size: 1743 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_178414.3](#), [NP_848501.1](#)

RefSeq Size: 2153 bp

RefSeq ORF: 1743 bp

Locus ID: 233801

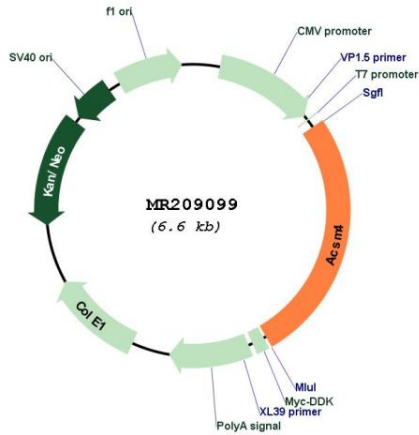
UniProt ID: [Q80W40](#)

Cytogenetics: 7 F2

MW: 65.4 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 MR209099