

Product datasheet for **MR209073**

Acsm3 (NM_212441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm3 (NM_212441) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsm3
Synonyms:	Sa; Sah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209073 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTACTCCGTGCTAGTGTGTTTTAGCGCCTAGCAATTCCTGATCCTATGAGAGTCTTGATAAAGATT
 ACAGAACAGCGACCCCTCAGAACTTTCCAACATGAGTCCATGAAACAAGACTTCAAAATAGAGATTCC
 AGAGTATTTCAATTTTGCAAAAGATGTCCTGGACCAATGGACCAATATGGAAAAGGCTGGAAAGAGACTT
 TCCAATCCAGCCTTCTGGTGGATAGATGGGAATGGAGAAGAGCTGAGATGGAGTTTTGAAGAACTTGGGT
 TGTTATCCAGGAAATTTGCCAACATACTCACAGAAGCCTGCTCCCTGCAAAGAGGAGACAGAGTAATGGT
 GATACTGCCAAGATCCCAGAGTGGTGGCTTGCAAATGTGGCCTGTCTCGAACAGGGACAGTTTTAATT
 CCAGGAACCACTCAGCTGACCCAGAAAGACATCCTCTATAGACTACAATCTTCAAAGCTAAGTGCATTA
 TTACCGATGATACTTTGGCCCCAGCAGTAGATGCCGTGGCAGCTAAATGTGAAAACTCCACTCAAATT
 AATTGTGTCTCAGCACTCCAGAGAAGGCTGGGGGAACCTCAAGGAGATGATGAAATATGCCAGTGACAGC
 CAACTTGTGTGGACACAAAACAGCAGAGATGATGGCCATCTACTTCACCAAGTGGGACAACCTGGGCCTC
 CTAAGATGATTGGACACACCCACAGCAGCTTTGGTTTAGGATTGTCTGTCAATGGAAGTTCTGGCTGGA
 TTTGATAGCCTCCGATGTGATGTGGAATACTTCAGATACAGGCTGGGCAAAGTCTGCATGGAGTAGTGT
 TTTTCTCCATGGACCAAGGAGCATGTGTTTTGCACACTATTTGCCCGTTTTGAACTCAACTTCCATCT
 TGCAAACCTCTCCAAGTCCCCATCACTGTCTTCTGTCTGCACCAACTGCCTACCGGATGCTTGTTC
 GAATGACATGAGCAGCTATAAGTTCAACAGTTTGAAGCACTGTGTGAGTGGTGGAGAACCTATTAACCT
 GAAGTGTGGAACAATGGAGAAAGAAGACGGCCTAGACATCTATGAAGGATATGGACAGACAGAAACGG
 TGCTGATCTGTGAAATTTCAAGGGGATGAAATTAAGCCCGCTCAATGGGAAAGCCTTCTCCTGCTTT
 TGATGTGAAGATTTTAGATGAAATGGTGCCTCTTCTCCTGGACAAGAAGGGGATATTGCTCTTCAA
 GTTCTTCTGAGCGACCATTTGGCCTTTTTACTCATTATGTAGATAATCCTTCAAACGCTTCAACTC
 TACGAGGGAGTTTCTACATTACTGGGACAGAGGATATATGGATGAAGATGGCTATTTCTGGTTTGTTC
 AAGATCAGATGATATCATATTATCTTCTGGTTACCGAATTGGACCATTTGAGGTAGAAAGTGCCTCATA
 GAACATCCTTCCATCGCAGAGTCACTGTTGTGAGCAGTCCAGACCCATCAGAGGAGAGGTAGTAAAGG
 CTTTTATTGTCTGAATCCTGATTACAAGTCCATGATCAAGAGCAACTGAAAAGGAGATCCAGGAGCA
 CGTGAAGAAGACTACAGCGCCTTACAAATACCCAGAAAGGTAGAATTTATTGAAGAGCTGCCGAAGACT
 GTCAGTGGGAAGGTCAAAGAAATGAACTGAGGAAAAAGGAATGGGTAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209073 protein sequence
 Red=Cloning site Green=Tags(s)

MLLRARCFQRLAIPDPMRVLYKDYRTATPQNFSNYESMKQDFKIEIPEYFNFAKDVLQWTNMEKAGKRL
 SNPAFWWIDNGEELRWSFEELGLLSRKFANILTEACSLQRGDRVMVILPKIPEWWLANVA CLRGTGLI
 PGTTQLTQKDILYRLQSSKAKCIITDDTLAPAVDAVAACENLHSLIVSQHSREGWGNLKEMMYASDS
 HTCVDTKHDEMMAIYFTSGTTGPPKMIGHTHSSFGLGLSVNGRFLDLIASDVMWNTSDTGWAKSAWSSV
 FSPWTQGACVFAHYLPRFESTSILQTLKFPITVFCAPTAYRMLVQNDMSSYKFNLSLKHCVSAGEPINP
 EVMEQWRKKTGLDIYEGYQTEIVLIGCNFKGMKIKPGSMGKPSPAFDVKILDENGATLPPGQEGDIALQ
 VLPERPFLFTHYVDNPSKTASTLRGSFYITGDRGYMDEDGYFWFVARSDDIILSSGYRIGPFVEVESALI
 EHPSIAESAVVSSPDIRGEVVKAFIVLNPDYKSHDQEQQLKKEIQEHVKKTTAPYKYPRKVEFIEELPKT
 VSGVKRNELRKKEWTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_212441

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_212441.2](#), [NP_997606.2](#)

RefSeq Size: 2650 bp

RefSeq ORF: 1743 bp

Locus ID: 20216

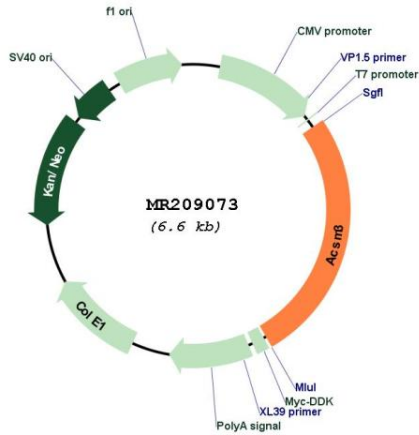
UniProt ID: [Q3UNX5](#)

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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209073