

Product datasheet for **MG209073**

Acsm3 (BC015248) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm3 (BC015248) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acsm3
Synonyms:	Sa; Sah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209073 representing BC015248
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTACTCCGTGCTAGTGTGTTTCAGCGCCTAGCAATTCCTGATCCTATGAGAGTCTTGATAAAGATT
 ACAGAACAGCGACCCCTCAGAACTTTCCAACATGAGTCCATGAAACAAGACTTCAAAATAGAGATTCC
 AGAGTATTTCAATTTTGCAAAAGATGTCCTGGACCAATGGACCAATATGGAAAAGGCTGGAAAGAGACTT
 TCCAATCCAGCCTTCTGGTGGATAGATGGGAATGGAGAAGAGCTGAGATGGAGTTTTGAAGAACTTGGGT
 TGTTATCCAGGAAATTTGCCAACATACTCACAGAAGCCTGCTCCCTGCAAAGAGGAGACAGAGTAATGGT
 GATACTGCCAAGATCCCAGAGTGGTGGCTTGCAAATGTGGCCTGTCTCGAACAGGGACAGTTTTAATT
 CCAGGAACCCTCAGCTGACCCAGAAAGACATCCTCTATAGACTACAATCTTCAAAGCTAAGTGCATTA
 TTACCGATGATACTTTGGCCCCAGCAGTAGATGCCGTGGCAGCTAAATGTGAAAACTCCACTCAAATT
 AATTGTGTCTCAGCACTCCAGAGAAGGCTGGGGGAACCTCAAGGAGATGATGAAAATATGCCAGTGACAGC
 CAACTTGTGTGGACACAAAACAGCAGAGATGATGGCCATCTACTTCACCAAGTGGGACAACCTGGGCCTC
 CTAAGATGATTGGACACACCCACAGCAGCTTTGGTTTAGGATTGTCTGTCAATGGAGGTTCTGGCTGGA
 TTTGATAGCCTCCGATGTGATGTGGAATACTTCAGATACAGGCTGGGCAAAGTCTGCATGGAGTAGTGT
 TTTTCTCCATGGACCAAGGAGCATGTGTTTTGCACACTATTTGCCCGTTTTGAATCAACTTCCATCT
 TGCAAACCTCTCCAAGTCCCCATCACTGTCTTCTGTCTGCACCAACTGCCTACCGGATGCTTGTTC
 GAATGACATGAGCAGCTATAAGTTCAACAGTTTGAAGCACTGTGTGAGTCTGGAGAACCTATTAACCT
 GAAGTGTGGAACAATGGAGAAAGAAGACGGCCTAGACATCTATGAAGGATATGGACAGACAGAAACGG
 TGCTGATCTGTGAAATTTCAAGGGGATGAAAATTAAGCCCGCTCAATGGGAAAGCCTTCTCCTGCTTT
 TGATGTGAAGATTTTAGATGAAAATGGTGCCACTCTTCTCCTGGACAAGAAGGGGATATTGCTCTTCAA
 GTTCTTCTGAGCGACCTTTGGCCTTTTTACTCATTATGTAGATAATCCTTCCAAAACGCTTCAACTC
 TACGAGGGAGTTTCTACATTACTGGGACAGAGGATATATGGATGAAGATGGCTATTTCTGGTTTGTTC
 AAGATCAGATGATATCATATTATCTTCTGGTTACCGAATTGGACCATTGAGGTAGAAAAGTGCCTCATA
 GAACATCCTTCCATCGCAGAGTCACTGTTGTGAGCAGTCCAGACCCATCAGAGGAGAGGTAGTAAAGG
 CTTTTATTGTCTGAATCCTGATTACAAGTCCATGATCAAGAGCAACTGAAAAGGAGATCCAGGAGCA
 CGTGAAGAAGACTACAGCGCCTTACAAATACCCAGAAAAGGTAGAATTTATTGAAGAGCTGCCGAAGACT
 GTCAGTGGGAAGGTCAAAGAAATGAACTGAGGAAAAAGGAATGGGTAACAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209073 representing BC015248
 Red=Cloning site Green=Tags(s)

MLLRARCFQRLAIPDPMRVLYKDYRTATPQNFSNYESMKQDFKIEIPEYFNFAKDVLDQWTNMEKAGKRL
 SNPAFWWIDGNGEELRWSFEELGLLSRKFANILTEACSLQRGDRVMVILPKIPEWWLANVA CLR TGT VLI
 PGTTQLTQKDILYRLQSSKAKCIITDDTLAPAVDAVAACENLHSLKIVSQHSREGWGNLKEMMYASDS
 HTCVDTKHDEMMAIYFTSGTTGPPKMIGHTHSSFGLGLSVNGRFWLDL IASDVMWNTSDTGWAKSAWSSV
 FSPWTQGACVFAHYLPRFESTSILQTLKFPITVFCAPTAYRMLVQNDMSSYKFNSLKHCVSAGEPINP
 EVMEQWRKKTGLDIYEGYQTEVLI CGNFKGMKIKPGSMGKPSPAFDVKILDENGATLPPGQEGDIALQ
 VLPERPFLFTHYVDNPSKTASTLRGSFYITGDRGYMDEDGYFWFVARSDDIILSSGYRIGPFVEVESALI
 EHP SIAESAVVSSPDIRGEVVKAFIVLNPDYKSHDQEQLKKEIQEHVKKTTAPYKYPRKVEFIEELPKT
 VSGKVKRNELRKKEWVTT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: BC015248

ORF Size: 1736 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: [BC015248](#), [AAH15248](#)

RefSeq Size: 2737 bp

RefSeq ORF: 1736 bp

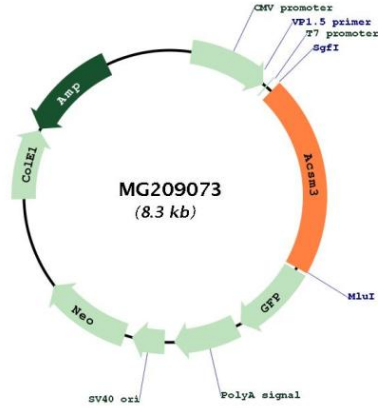
Locus ID: 20216

Cytogenetics: 7 F2

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 MG209073