

Product datasheet for **MG209099**

Acsm4 (NM_178414) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm4 (NM_178414) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acsm4
Synonyms:	O-MACS; OMACS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209099 representing NM_178414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGTTCTCCTCCTGCTCAGAGACTTAGATTCATCTGGCTTGCCAAGCCAGCCGGCCGCACTTCC
 ACAGAGATTCAGCTCTGGGCACCTCTGACACTGGATGACTTTGAAGCCATCAATCGCTGTGAGAAGCC
 ATTACCCAAGAAGCTTTAACTTTGCAGCAGATGTTCTGGACCAGTGGTCCCTAAAGGAGAAGTCTGGAGAG
 AGGCCAGCCAACCCAGCCCTGTGGTGGTGAATGGGAAAGGAGATGAGGTGAAGTGGAGCTTCCAAGAAC
 TGGGTTCTTGTCCGAAAGGCTGCCAATGTGCTCACCAAGCCCTGCGGCCTGCAGAGAGGAGACCCGGT
 GGCTGTGATTCTGCCCGTATCCCTGAATGGTGGCTCATCAATGTGGCTTGCATGAGAACAGGGCTTGTA
 TTCATGCCAGGAACGATCCAACCTGACCAGAAAAGACATCCTCTACCGGCTGCAAGCATCCAAGGCCAAGT
 GCATTGTGGCTAGTGAGGAAGTGGCCCCGCAGTGGACTCCATTGTATCAGAGTGTCCAGCCTGAAGAC
 TAAACTCTGGTGTCTCCACACCACTGGGATGGATGGCTCAACTTTCAGGAGTACTTCAATCGGCCTCT
 GAAGAGACAATTTGTGTGGAGACGGGAAGTCAAGAACCAATGGCCATTTACTTCACCAGTGGGACCACAG
 GCTCCCCAAGATGGCTCAGCACTCACAGGGCAGCCTTGGCATTGGGTATACCCTTTGTGGAAGGTAAGT
 GCTGGACTTGACATCCTCAGATATCATGTGGAACATGTCAGACTGGCTGGATCAAGGCTGCCATTGGT
 AGTGTGTTTTCTACATGGCTTCGAGGGGCTGTGTTTTTGTGCACCGGATGGCCAGTTCGACACTGATA
 TCTTCTAGACACTTACCACATATCCCATCACGACCTGTGCAGTGTCTACGGTGTACCGGATGCT
 CGTACAAAAGGACCTTAAGAGATATCAATTCAAGAGGCTGCGGCCTGCCTGACAGGAGGGGAGCCACTC
 AACCCGAAGTGTGGAACAGTGAAGATGCAAACTGGGCTGGAGCTGTACGAGGGCTACGGACAGACCG
 AAGTGGGAATAATTTGCGCAATCGCAAAGGAGAAGCAATTAACCAGGTTCCATGGGAAAAGGAGTGT
 CCGGTACGATGTGACAGATTATAGATGAAAATGGAATATCCTACCATCCGGAAGGAAGGGAAATTTGCC
 CTTAGGCTGAAGTCCGATCGGCCCTTCTGTTTCTCTCTGAATATGTGGACAATCCAGAAAAGACAGATG
 CCACAATAAGAAGAAATTTTATGCTACTGGAGACAGAGGAGTATGGATGATGACGGATACTTTTGGTT
 TGTCCGACAGAGCTGATGATGTCATTATATCTTCTGGGTACCGAATGGGCCTTTTGAAGTAGAGAGCGCA
 CTGATAGAGCACCAGCAGTGTGAGTGTGTCAGCAGTCCAGATCCGATCCGAGGAGAGGTGG
 TGAAGGCATTTATTGACTAGTGCACCCTACAAGTGTCCAACCGTGAAGGTTAACCGCTGAACCTCA
 GGATCATGTGAAAATTTCAACAGCACCTTACAAATACCCAAGAAAAGTGAATTTGTTCAAGAACTCCCA
 AAGACAATCACTGGGAAAATCAAACGCAACGTGTTAAGAGACCAGGAATGGGGAAGAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209099 representing NM_178414
 Red=Cloning site Green=Tags(s)

MKVLLHCQRLRFIWLAKPAGRHFRDLSQLWAPLTLDDFEAINRCEKPLPKNFNAADVLDQWSLKEKSGE
 RPANPALWVNGKGDVWVQELGSLSRKAANVLTkPCGLQRGDRVAVILPRIPWWLINVACMRTGLV
 FMPGTIQLTRKDILYRLQASKAKCIVASEEVAPAVDSIVSECPKSLKLLVSPHHWDGWLNFQELLQSAS
 EEHNCVETGSQEPMAIYFTSGTTGSPKMAQHSQSLGIGYTLGCRYWDLTSSDIMWNMSDGTWIKAAIG
 SVFSTWLRGACVVRMAQFDITDITLTYPIITLCSAPTYYRMLVQKDLKRYQFKRLRHCLTGGEPL
 NPEVLEQWKMGTGLELYEGYQTEVGIICANRKGAEIKPGSMGKGVVYDVQIIDENGNILPSGKEGEIA
 LRLKSDRPFCCFFSEYVDNPEKTDATIRRNFYVTGDRGVMDDGYFWFVGRADDVVISSGYRIGPFEVESA
 LIEHPAVVESAVVSSPDIRGEVVKAFIVLAAPYKCSNREKLTAEHQDHVKNSTAPYKYPRKVEFVQELP
 KTITGKIKRNLVDQEWGRA

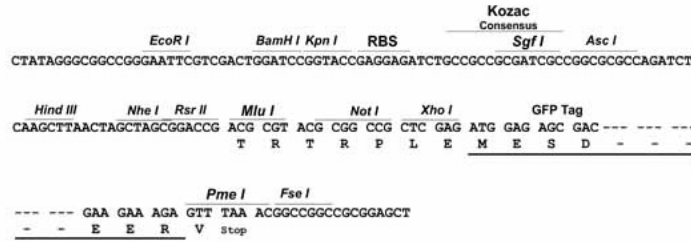
TRTRPLE - GFP Tag - V

Restriction Sites:

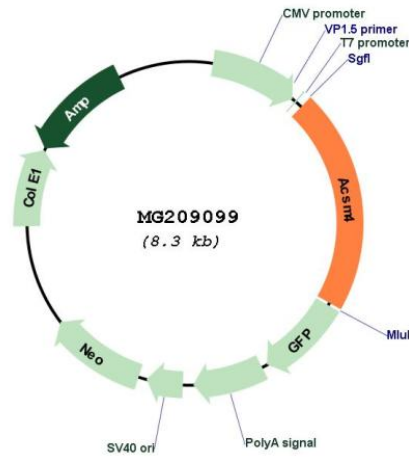
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_178414
 ORF Size: 1740 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:	<ol style="list-style-type: none">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
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]