

Product datasheet for **MR209014**

Acsm1 (NM_054094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsm1 (NM_054094) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsm1
Synonyms:	Acas3; Bucs1; Macs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209014 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTGGCTGAAGAGTTTCCAGATCTGCAAAGTCTTACAGGGCTTCTCCCTAAGCCCCACCCAGCTGC
 ACAGACGGTTGTTTTCAAGAGTTGGAGCTCCAAGATGGAATGACCATGATTCACCTGAGGAGTTAACTT
 TGCAAGTGATGTCTGGACTACTGGGCTCAAATGGAGGAGGAGGCAAGAGAGGACCAAGTCCAGCCTTT
 TGGTGGGTGAATGGCCAAGGAGATGAAATAAAGTGGAGCTTACAGGAAGCTGAGGGACCTCACCTGTCGCA
 CTGCCAACGTCTTTGAGCAGATTTGTGGCTGCAGCAAGGAGATCACCTGGCCTTGATTCTGCCCGAGT
 GCCCGAGTGGTGGTTGGTACAGTGGGCTGCATGCGAACAGGGATCATCTTCATGCCTGGGACTACCCAA
 CTGAAAGCCAAGGACATTCTCTACCGAATACAAATATCTCGAGCCAAAGCCATTGTGACCACAGTAGCC
 TTGTCCCAGAGGTGGAATCTGTGGCTTCTGAGTGTCTGATCTGAAAACCAAGCTGGTGGTGTCTGATCA
 CAGCCATGAAGGTGGCTTGATTCTGTCTACTGATTAATCAGCATCCCAGACCATACTTGATTAAG
 TCAAAGATGAAGGATCCCATGGCCATCTTCTTACCAGTGGGACCACAGGCTACCCCAAGATGGCAAAGC
 ACAACCAGGGACTTGCCTTCCGGTCATATATCCCTTCATGCAGAAAATTATTGAAGCTGAAGACATCTGA
 CATCTTGTGGTGCATGTGAGACCCAGGATGGATTCTGGCTACCGTGGGGTGCCTGATCGAGCCATGGACA
 TCAGGATGTACAGTCTTCATCCACCACCTCCCTCAATTCGACCCCAAAGTCATTGTAGAGGTACTGTTCA
 AATACCCCATCACTCAGTGCCTTGTGCCCCAGGCGTGTATCGAATGGTCTTTCAGCAGAAAACCTCCAA
 CCTCAGTTCCCCACCCTTGAGCATTGCACTACTGGTGGGAGAGCCTGCTGCCTGAGGAGTATGAGCAG
 TGGAAAGCAAAGGACAGGCTTTCCATCCACGAGGCTCATGGACAGTCAGAAAACGGGGATCAGCAGTGCCA
 CCTCCGGGAAATGAAGATCAAGCAGGCTCCATAGGGAAGGCCATTTACCCTTTGACTGTCAGATCAT
 CGATGAAAAGGGCAACATCCTCCACCCAACTGAAGGATACATTGGCATCAGGATCAAGCCACCAGG
 CCTCTAGGCCTTTCATGGAATATGAGAATAGCCAGAGAGCACATCTGAAGTGGAGTGTGGGGACTTTT
 ACAATAGTGGGGATAGAGCGACCATTGATGAAGAGGGCTACATCTGGTCTTGGGAAGGGGCGATGATGT
 CATCAATGCTTCCGGGTATCGCATCGGGCTGTAGAGGTGGAGAACGCCTTGGCGGAGCACCAGCAGTG
 GCAGAGTCTGCGGTGGTGAAGCAGCCGGACAAGGATCGAGGAGAGGTGGTGAAGGCGTTTATTGCTCTCA
 ACCCAGAGTCTGTGACAGCATCAGGAACAGCTTATCAAAGAGCTACAGCATCATGTGAAGTCAGTGAC
 GGCACCATACAAGTACCCAGGAAGGTGGAGTTGTTTTCAGAATTGCCAAAACGTGCACAGGCAAAATC
 AAAAGGAAGGAACCTCGAAACAAGGAGTTTGGTCAGCTA

ACGGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209014 protein sequence
 Red=Cloning site Green=Tags(s)

MQWLKSFQICKVLQGFSLSPTQLHRRFLSRVGAAPRWNDHDSPEEFNFASDVLVDYWAQMEEEGKRGPSAF
 WWVNGQGDEIKWSFRKLRDLTCRTANVFEQICGLQQGDHLALILPRVPEWWLVTVGCMRTGIIFMPGTTQ
 LKAKDILYRIQISRAKAIVTTASLVPEVESVASECPDLKTLVSDHSHEGWLDFCSLIKASPDHTCIK
 SKMKDPMIAIFFTSGTTGYPKMAKHQGLAFRSYIPSCRLLKLTSDILWCMSDPGWILATVGCLIEPWT
 SGCTVFIHHLQFDPKVIIVEVLFKYPITQCLAAPGVYRMVLQKTSNLRFPTEHCTTGGESLLPEEYEQ
 WKQRTGLSIEVYQSETGISSATLREMKIKRGSIGKAILPFDLQIIDEKGNILPPNTEGYIGIRIKPTR
 PLGLFMEYENSPESTSEVECGDFYNSGDRATIDEEGYIWFLLGRGDDVINASGYRIGPVEVENALAEHPAV
 AESAVVSSPDKDRGEVVKAFIVLNPEFLSHDQEQLIKELQHHVKSVTAPYKYPRKVEFVSELPKTVTGIK
 KRKELRNKEFGQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_054094

ORF Size: 1722 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_054094.6](#)

RefSeq Size: 2041 bp

RefSeq ORF: 1722 bp

Locus ID: 117147

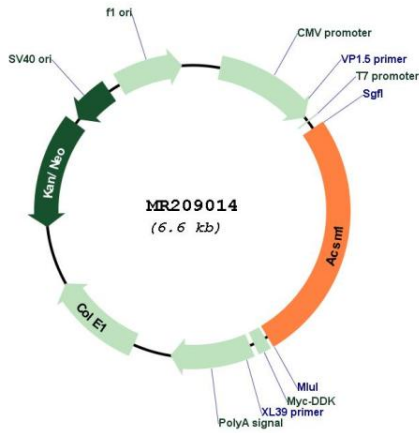
UniProt ID: [Q91VA0](#)

Cytogenetics: 7 F2

MW: 64.8 kDa

Gene Summary: Functions as GTP-dependent lipoate-activating enzyme that generates the substrate for lipoyltransferase (By similarity). 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 MR209014