

Product datasheet for **RC201099**

ACSM3 (NM_202000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM3 (NM_202000) Human 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:

>RC201099 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTAGCTCGTGTACCAGGAAGATGCTACGTATGCCAAGTGTTCAGCGCCTAGCAATTTTGGTT
 CTGTGAGGGCACTGCATAAAGATAATAGAACAGCAACCCCTCAGAATTTCTCCAATGATGAATCCATGAA
 ACAGGACTTCAAAGTGGGATCCAGAGTATTTCAACTTTGCTAAAGATGTCCTGGACCAATGGACTGAT
 AAGGAAAAGGCTGAAAGAAACCTTCAAATCCAGCCTTCTGGTGGATCAACAGAAATGGAGAAGAGATGC
 GATGGAGTTTGGAGAACTGGGATCTGTCCAGAAAAATTTGCCAATACTTTTCAGAAGCCTGTTCCCT
 ACAAGAGGAGATCGGGTAATTCTGATTCTGCCAGGGTCCAGAGTGGTGGCTTGCAAATGTGGCCTGT
 CTGCGAACAGGGACAGTTTTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATTCTCTACAGACTAC
 AATCTTCAAAGCAAACGCATTATACCAATGATGTTTTAGCCCCAGCAGTAGACGCTGTTGCATCCAA
 ATGTGAAAATCTGCACTCAAGCTGATTGTATCAGAGAACTCCAGAGAGGGGTGGGGAACTCAAGGAG
 TTGATGAAACATGCCAGTGACAGCCACACTGTGTGAAGACAAAACACAATGAGATCATGGCCATATTCT
 TTACCAGTGGAACAAGTGGATATCCGAAAATGACTGCACACACCCACAGCAGTTTTGGTTTAGGATTATC
 TGTAATGGAAGTTCTGGCTAGATTTGACACCCTCAGATGTGATGTGGAATACCTCAGATACGGGCTGG
 GCAAAGTCTGCATGGAGTAGTGTTCCTCCGTGGATCCAGGGAGCATGTGATTCACACACCAATTTAC
 CCCGTTTTGAGCCGACTTCTATCTTGCAAACACTCTCAAAGTACCCCATCACAGTCTTCTGTTTCAGCACC
 AACTGTATACCGAATGCTGTACAGAATGATAAACCAGCTATAAGTTTAAAAGCTTAAAGCACTGTGTG
 AGTGCTGGGGAACCAATTACCCCTGACGTGACTGAAAAATGGAGAACAAGACGGGCTGGATATCTACG
 AAGGATATGGACAGACTGAAACGGTCTAATCTGTGAAAATTTAAGGGAATGAAAATTAACCTGGCTC
 AATGGGAAAACCTTCTCCTGCTTCGATGTTAAGGTTTGCACATCCCCTCCAGGAGAATGTTTAAACAAC
 CCAATCTGTACACTACCTACCTACCGCTTACCCCATATAAACTTTCTTTGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201099 protein sequence
 Red=Cloning site Green=Tags(s)

MLARVTRKMLRHAKCFQRLAIFGSVRLHKDNRTATPQNFSNYESMKQDFKLGPIEYFNF AKDVLVDQWTD
 KEKAGKKPSNPAFWWINRNGEEMRWSFEELGSLSRKFANILSEACSLQRGDRVILILPRVPEWLANVAC
 LRTGTVLIPGTTQLTQKDILYRLQSSKANCIITNDVLAAPVDAVASKCENLHSKLIVSENSREGWNLKE
 LMKHASDSHTCVKTKHNEIMAIFFTSGTSGYPKMTAHTHSFGLGLSVNGRFWLDLTPSDVMWNTSDTGW
 AKSAWSSVFSPWIQGACVFTHLPRFEPTSILQTL SKYPITVFCSAPTYYRMLVQNDITSYKFKSLKHCV
 SAGEPITPDVTEKWRNKGLDIYEGYQTETVLICGNFKGMKIKPGSMGKPSPAFDVKVCTSPSRRMFNN
 PICTLPTYRLPPYKLSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6669_c05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_202000

ORF Size: 1314 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_202000.2](#), [NP_973729.1](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1317 bp

Locus ID: 6296

UniProt ID: [Q53FZ2](#)

Cytogenetics: 16p12.3

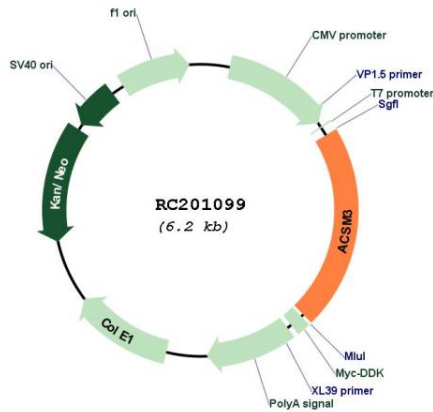
Protein Families: Druggable Genome

Protein Pathways: Butanoate metabolism, Metabolic pathways

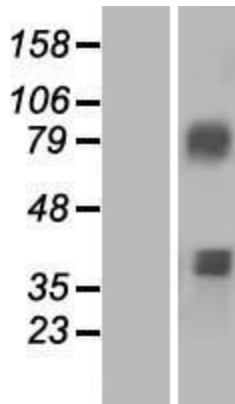
MW: 49.5 kDa

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 RC201099



Western blot validation of overexpression lysate (Cat# [LY404355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).