

Product datasheet for **RG201099**

ACSM3 (NM_202000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM3 (NM_202000) Human 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)
ORF Nucleotide Sequence:	>RG201099 representing NM_202000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAGCTCGTGTACCAGGAAGATGCTACGTATGCCAAGTGTTCAGCGCCTAGCAATTTTGGTT
CTGTGAGGGCACTGCATAAAGATAATAGAACAGCAACCCCTCAGAATTTCTCCAATATGAATCCATGAA
ACAGGACTTCAAAGTGGGATCCAGAGTATTTCAACTTTGCTAAAGATGCTGGACCAATGGACTGAT
AAGGAAAAGGCTGAAAGAAACCTTCAAATCCAGCCTTCTGGTGGATCAACAGAAATGGAGAAGAGATGC
GATGGAGTTTTGAGGAAGTGGATCTGTCCAGAAAATTTGCCAATATACTTTTCAAGCCTGTTCCCT
ACAAAGAGGAGATCGGGTAATTCTGATTCTGCCAGGGTCCCAGAGTGGTGGCTTGCAAAATGTGGCCTGT
CTGCGAACAGGGACAGTTTTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATTCTCTACAGACTAC
AATCTTCAAAGCAAAGTGCATTATCACCATGATGTTTTAGCCCCAGCAGTAGACGCTGTTGCATCCAA
ATGTGAAAATCTGCACTCCAAGCTGATTGTATCAGAGAACTCCAGAGAGGGGTGGGGAACTCAAGGAG
TTGATGAAACATGCCAGTGACAGCCACACCTGTGTGAAGACAAAACAATGAGATCATGGCCATATTCT
TTACCAGTGAACAAGTGGATATCCGAAAATGACTGCACACCCACAGCAGTTTTGGTTTAGGATTATC
TGTAATGGAAGTTCTGGCTAGATTTGACACCCTCAGATGTGATGTGGAATACCTCAGATACGGGCTGG
GCAAAGTCTGCATGGAGTAGTGTTCCTCCGTGGATCCAGGGAGCATGTGATTCACACACCAATTTAC
CCGTTTTGAGCCGACTTCTATCTTCAAACACTCTCAAAGTACCCATCACAGTCTTCTGTTCCAGCACC
AACTGTATACCGAATGCTTGTACAGAATGATATAACCAGCTATAAGTTTAAAAGCTTAAAGCACTGTGTG
AGTGCTGGGGAACCAATTACCCCTGACGTGACTGAAAAATGGAGAAAACAAGACGGGCTGGATATCTACG
AAGGATATGGACAGACTGAAACGGTGCTAATCTGTGAAAATTTAAGGGAATGAAAATTAACCTGGCTC
AATGGGAAAACCTTCTCTGCTTCGATGTTAAGGTTTGACATCCCCTCCAGGAGAATGTTTAAACAAC
CCAATCTGTACTACTACCTACCTACCGCTTACCCCATATAAACTTTCTTTGTTA

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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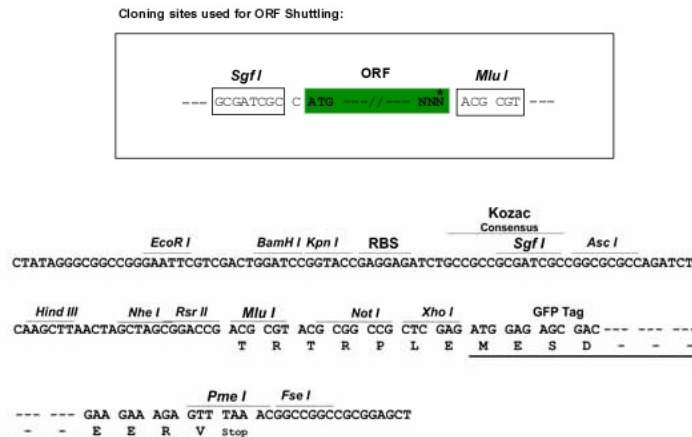
Protein Sequence: >RG201099 representing NM_202000
Red=Cloning site Green=Tags(s)

MLARVTRKMLRHAKCFQRLAIFGSVRLHKNRTATPQNFSNYESMKQDFKLGPIEYFNFAKDVLDQWTD
 KEKAGKKPSNPAFWWINRNGEEMRWSFEELGSLSRKFANILSEACSLQRGDRVILILPRVPEWLANVAC
 LRTGTVLIPGTTQLTQKDILYRLQSSKANCIIITNDVLAAPAVDAVASKCENLHKLIVSENSREGWGNLKE
 LMKHASDSHTCVKTKHNEIMAIFFTSGTSGYPKMTAHTHSSFGGLGLSVNGRFLDLTPSDVMWNTSDTGW
 AKSAWSSVFSPWIQGACVFTHHLPRFEPTSILQLTLSKYPITVFCAPTYYRMLVQNDITSYKFKSLKHCV
 SAGEPITPDVTEKWRNKTGLDIYEGYGQTETVLICGNFKGMKIKPGSMGKPSPAFDVKVCTSPSRRMFNN
 PICTLPTYRLPPYKLSLL

TRTRPLE - GFP Tag - V

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](#)

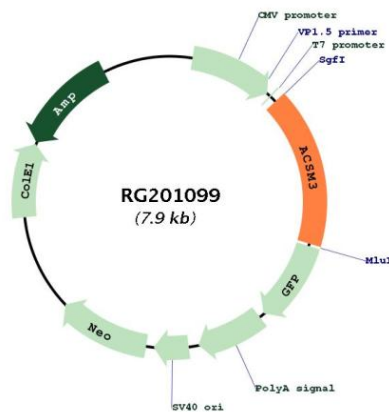
Cytogenetics: 16p12.3

Protein Families: Druggable Genome

Protein Pathways: Butanoate metabolism, Metabolic pathways

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 RG201099