

Product datasheet for **RC218188**

ACSM3 (NM_005622) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM3 (NM_005622) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC218188 representing NM_005622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTAGCTCGTGTACCAGGAAGATGCTACGTATGCCAAGTGTTCAGCGCCTAGCAATTTTGGTT
 CTGTGAGGGCACTGCATAAAGATAATAGAACAGCAACCCCTCAGAATTTCTCCAATATGAATCCATGAA
 ACAGGACTTCAAAGTGGGATTCCAGAGTATTTCAACTTTGCTAAAGATGTCCTGGACCAATGGACTGAT
 AAGGAAAAGGCTGAAAGAAACCTTCAAATCCAGCCTTCTGGTGGATCAACAGAAATGGAGAAGAGATGC
 GATGGAGTTTGGAGAACTGGGATCTGTCCAGAAAAATTTGCCAATACTTTTCCAGAACCTGTTCCCT
 ACAAGAGGAGATCGGTAATTCTGATTCTGCCAGGGTCCAGAGTGGTGGCTTCAAATGTGGCCTGT
 CTGCGAACAGGGACAGTTTTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATTCTCTACAGACTAC
 AATCTTCAAAGCAAACCTGCATTATACCAATGATGTTTTAGCCCCAGCAGTAGACGCTGTTGCATCCAA
 ATGTGAAAATCTGCACTCCAAGCTGATTGTATCAGAGAACTCCAGAGAGGGGTGGGGAACTCAAGGAG
 TTGATGAAACATGCCAGTGACAGCCACACTGTGTGAAGACAAAACAAATGAGATCATGGCCATATTCT
 TTACCAGTGGAACAAGTGGATATCCGAAAATGACTGCACACACCCACAGCAGTTTTGGTTTAGGATTATC
 TGTAAATGGAAGTTCTGGCTAGATTTGACACCCTCAGATGTGATGTGGAATACCTCAGATACGGCTGG
 GCAAAGTCTGCATGGAGTAGTGTTCCTCCGTGGATCCAGGGAGCATGTGATTCACACACCAATTTAC
 CCCGTTTTGAGCCGACTTCTATCTTCAAACACTCTCAAAGTACCCATCACAGTCTTCTGTTTACAGACC
 AACTGTATACCGAATGCTGTACAGAATGATAAACCAGCTATAAGTTTTAAAGCTTAAAGCACTGTGTG
 AGTGCTGGGGAACCAATTACCCCTGACGTGACTGAAAAATGGAGAACAAGACGGGCTGGATATCTACG
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 TTTGAGGTAGAAAATGCCCTGAATGAACACCCCTCAGTTGCAGAGTCACTGTTGTCAGCAGCCAGACC
 CCATCAGAGGAGAGGTAGTAAAGGCTTTTGTCTTCTAAATCCTGATTACAAGTCACATGATCAAGAACA
 ACTAATAAAGGAGATTCAGGAGCATGTTAAAAAACTACAGCACCTTACAATATCCAGAAAGGTAGAA
 TTTATTCAAGAGCTGCCAAAGACTATCAGTGGGAAGACAAAAGAATGAACTGAGGAAGAAGAATGGA
 AGACAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218188 representing NM_005622
 Red=Cloning site Green=Tags(s)

MLARVTRKMLRHAKCFQRLAIFGSVRLHKNRTATPQNFSNYESMKQDFKLGPIEYFNFAKDVLDQWTD
 KEKAGKKPSNPAFWWINRNGEEMRWSFEELGSLSRKFANILSEACSLQRGDRVILILPRVPEWWLANVAC
 LRTGTVLIPGTTQLTQKDILYRLQSSKANCIITNDVLAPAVDAVASKCENLHSLIVSENSREGWGNLKE
 LMKHASDSHTCVKTKHNEIMAIFFTSGTSGYPKMTAHTHSFGLGLSVNGRFLDLTPSDVMWNTSDTGW
 AKSAWSSVFPWIQACVFTHLPRFEPTSILQTL SKYPITVFCASPTVYRMLVQNDITSYKFKSLKHCV
 SAGEPITPDVTEKWRNKGLDIYEGYQTEVLICGNFKGMKIKPGSMGKPSPAFDVKIVDYNVNLPPG
 QEGDIGIQVLPNRPFLFTHYVDNPSKTAATLRGNFYITGDRGYMDKDG YFWFVARADDVILSSGYRIGP
 FEVENALNEHPSVAESAVVSSPDIRGEVVKAFVVLNPDYKSHDQEQLIKEIQEHVKKTTAPYKYPRKVE
 FIQELPKTISGKTKRNLRKKEWKTI

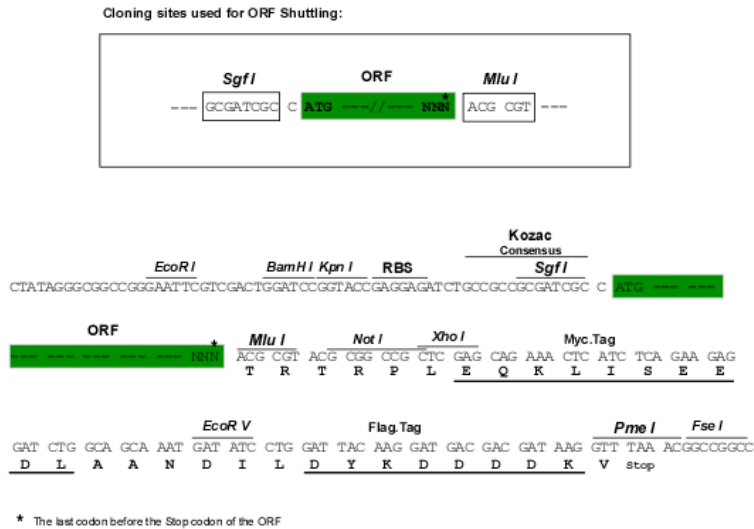
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005622

ORF Size: 1758 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_005622.4](#)

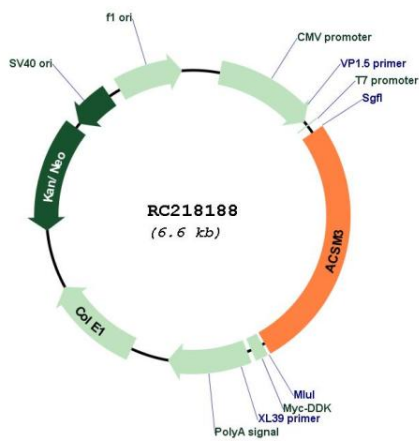
RefSeq Size: 2158 bp

RefSeq ORF: 1761 bp

Locus ID: 6296

UniProt ID: [Q53FZ2](#)
Cytogenetics: 16p12.3
Domains: AMP-binding
Protein Families: Druggable Genome
Protein Pathways: Butanoate metabolism, Metabolic pathways
MW: 66 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 RC218188