

Product datasheet for **SC301474**

ACSM2A (NM_001010845) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM2A (NM_001010845) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSM2A
Synonyms:	A-923A4.1; ACSM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

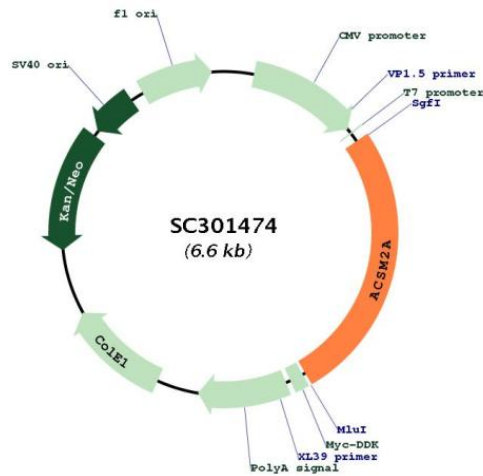


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Fully Sequenced ORF: >SC301474 representing NM_001010845.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCATTGGCTGCGAAAAGTTTCAGGGACTTTGCACCCTGTGGGTTACTCAGATGTCCAGCCGACTCTC
TACATTAATAGTAGGCAACTGGTGTCCCTGCAGTGGGGCCACCAGGAAGTGCCGGCCAAGTTTAACTTT
GCTAGTGATGTGTTGGATCACTGGGCTGACATGGAGAAGGCTGGCAAGCGACTCCCAAGCCAGCCCTG
TGGTGGGTGAATGGGAAGGGGAAGGAATTAATGTGGAATTTTCAGAGAAGTGAAGTAAACAGCCAGCAG
GCAGCCAACGTCCTCTCGGGAGCCTGTGGCCTGCAGCGTGGGATCGTGTGGCAGTGGTGTGCCCGA
GTGCCCTGAGTGGTGGCTGGTGTCTCGGCTGCATTTCGAGCAGGTCTCATCTTTATGCCTGGAACCATC
CAGATGAAATCCACTGACATACTGTATAGGTTGCAGATGTCTAAGGCCAAGGCTATTGTTGCTGGGGAT
GAAGTCATCCAAGAAGTGGACACAGTGGCATCTGAATGCCTTCTCTGAGAATTAAGCTACTGGTGTCT
GAGAAAAGCTGTGATGGGTGGCTGAACCTCAAGAACTACTAAATGAGGCATCCACCCTCATCACTGT
GTGGAGACTGGAAGCCAGGAAGCATCTGCCATCTACTTCACTAGTGGGACCAGTGGTCTTCCAAGATG
GCAGAACATTCTACTCGAGCCTGGGCCTCAAGGCCAAGATGGATGCTGGTTGGACAGGCCCTGCAAGCC
TCTGATATAATGTGGACCATATCAGACACAGGTTGGATACTGAACATCTTGTGCTCACTTATGGAACCT
TGGGCATTAGGAGCATGCACATTTGTTCTCTTGGCAAAGTTTGACCCACTGGTTATTCTAAAGACA
CTCTCCAGTTACAAGTCCCCCATCTACAGAACTGCGTCACTGTAGGGGAGTCCCTTCTCCAGAACT
CTGGAGAACTGGAGGGCCAGACAGGACTGGACATCCGAGAATCCTATGGCCAGACAGAAACGGGATTA
ACTTGCATGGTTTCCAAGACAATGAAAAACAACCAGGATACATGGGAACGGCTGCTTCTGTTATGAT
GTACAGATCATAGATGATAAGGGCAACGTCCTGCCCTCCCGCACAGAAAGGAGACATTGGCATCAGGGTC
AAACCCATCAGGCCTATAGGCATCTTCTCTGGCTATGTGGACAATCCCGACAAGACAGCAGCCAACATT
CGAGGAGACTTTTGGCTCCTTGGAGACCGGGAATCAAAGATGAAGATGGGTATTTCCAGTTTATGGGA
CGGGCAGATGATATCATTAACTCCAGCGGGTACCGGATTGGACCCTCGGAGGTAGAGAATGCACTGATG
GAGCACCTGCTGTGGTTGAGACGGCTGTGATCAGCAGCCAGACCCCGTCCGAGGAGAGGTGGTGAAG
GCATTTGTGGTCTGGCCTCGCAGTTCCTGTCCCATGACCCAGAACAGCTCACCAGGAGCTGCAGCAG
CATGTGAAGTCAGTGACAGCCCATACAAGTACCCAAGAAAGATAGAGTTTGTCTTGAACCTGCCCAAG
ACTGTCACAGGGAAAATTCAACGAGCCAAGCTTCGAGACAAGGAGTGAAGATGTCCGAAAAGCCCGT
GCGCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATTAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001010845

Insert Size: 1734 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001010845.2
RefSeq Size:	2969 bp
RefSeq ORF:	1734 bp
Locus ID:	123876
Cytogenetics:	16p12.3
Protein Pathways:	Butanoate metabolism, Metabolic pathways
MW:	64.2 kDa
Gene Summary:	<p>This gene encodes a mitochondrial acyl-coenzyme A synthetase that is specific for medium chain fatty acids. These enzymes catalyze fatty acid activation, the first step of fatty acid metabolism, through the transfer of acyl-CoA. These enzymes also participate in the glycine conjugation pathway in the detoxification of xenobiotics such as benzoate and ibuprofen. Expression levels of this gene in the kidney may be correlated with kidney function. This gene and its paralog ACSM2B (Gene ID: 348158), both present on chromosome 16, likely arose from a chromosomal duplication event. [provided by RefSeq, May 2017]</p>