

Product datasheet for **SC305705**

ACSM1 (NM_052956) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM1 (NM_052956) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSM1
Synonyms:	BUCS1; MACS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_052956 edited
 ATGCAGTGGCTAATGAGGTTCCGGACCCTCTGGGGCATCCACAAATCCTTCCACAACATC
 CACCCTGCCCCCTTACAGCTGCGCTGCCGGTCTTTATCAGAAATTTGGAGCCCCAAGATGG
 AATGACTATGAAGTACCGGAGGAATTTAACTTTGCAAGTTATGTACTGGACTACTGGGCT
 CAAAAGGAGAAGGAGGGCAAGAGAGGTCCAATCCAGCTTTTTGGTGGGTGAATGGCCAA
 GGGGATGAAGTAAAGTGGAGCTTACAGAGATGGGAGACCTAACCCGCCGTGTAGCCAAC
 GTCTTACACAGACCTGTGGCCTACAACAGGGAGACCCTCTGGCCTTGATGCTGCCTCGT
 GTTCTGAGTGGTGGCTGGTGGCTGTGGCTGCATGCGAACAGGGATCATCTTCATTCT
 GCGACCATCCTGTTGAAGGCCAAAGACATTCTCTATCGACTACAGTTGTCTAAAGCCAAG
 GGCATTGTGACCATAGATGCCCTTGCCCTCAGAGGTGGACTCCATAGCTTCTCAGTGCCCC
 TCTCTGAAAACCAAGCTCCTGGTGTCTGATCACAGCCGTGAAGGGTGGCTGGACTCCGA
 TCGCTGGTTAAATCAGCATCCCCAGAACACACCTGTGTTAAGTCAAAGACCTTGGACCCA
 ATGGTCATCTTCTCACCAGTGGGACCACAGGCTTCCCCAAGATGGCAAAACACTCCCAT
 GGGTTGGCCTTACAACCCTCCTCCAGGAAGTAGGAAATACGGAGCCTGAAGACATCT
 GATGTCTCCTGGTGCCTGTCGGACTCAGGATGGATTGTGGCTACCATTTGGACCCTGGTA
 GAACCATGGACAGCGGGTGTACAGTCTTTATCCACCATCTGCCACAGTTTGACACCAAG
 GTCATCATACAGACATTGTTGAAATACCCATTAACTACTTTTGGGGGGTATCATCTATA
 TATCGAATGATTCTGCAGCAGGATTTACCAGCATCAGGTTCCCTGCCCTGGAGCACTGC
 TATACTGGCGGGGAGGTCGTGTTGCCAAGGATCAGGAGGAGTGGAAAAGACGGACGGGC
 CTTCTGCTCTACGAGAACTATGGGCAGTCGAAAACGGGACTAATTTGTGCCACCTACTGG
 GGAATGAAGATCAAGCCGGGTTTCATGGGAAGGCCACTCCACCCTATGACGTCCAGGTC
 ATTGATGACAAGGGCAGCATCCTGCCACCTAACACAGAAGGAAACATTGGCATCAGAATC
 AAACCTGTCAGGCCTGTGAGCCTTTCATGTGCTATGAGGGTGACCCAGAGAAGACAGCT
 AAAGTGAATGTGGGACTTCTACAACACTGGGACAGAGGAAAGATGGATGAAGAGGGC
 TACATTTGTTTCTGGGAGGAGTGATGACATCATTAAATGCCTCTGGGTATCGCATCGGG
 CCTGCAGAGGTTGAAAGCGCTTTGGTGGAGACCCAGCGGTGGCGGAGTCAGCCGTGGT
 GGCAGCCAGACCCGATTCGAGGGGAGGTGGTGAAGGCCTTTATTGCTCTGACCCACAG
 TTCCTGTCCCATGACAAGGATCAGCTGACCAAGGAACTGCAGCAGCATGTCAAGTCAGTG
 ACAGCCCCATAACAAGTACCCAAGAACGTGGAGTTTGTCTCAGAGCTGCCAAAACCATC
 ACTGGCAAGATTGAACGGAAGGAACTTCGAAAAAGGAGACTGGTCAGATGTAA

Restriction Sites: Please inquire

ACCN: NM_052956

Insert Size: 1700 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: There are 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 0 amino acid.

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_052956.1 , NP_443188.1
RefSeq Size:	1945 bp
RefSeq ORF:	1734 bp
Locus ID:	116285
UniProt ID:	Q08AH1
Cytogenetics:	16p12.3
Protein Pathways:	Butanoate metabolism, Metabolic pathways
Gene Summary:	<p>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). Functions as GTP-dependent lipoate-activating enzyme that generates the substrate for lipoyltransferase (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>