

Product datasheet for **SC308089**

ACSM3 (NM_202000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM3 (NM_202000) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSM3
Synonyms:	SA; SAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308089 representing NM_202000. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTAGCTCGTGTACCAGGAAGATGCTACGTCATGCCAAGTGTTCAGCGCCTAGCAATTTTGGT
TCTGTGAGGGCACTGCATAAAGATAATAGAACAGCAACCCTCAGAATTTCTCCAATATGAATCCATG
AAACAGGACTTCAAAGTGGGATCCAGAGTATTTCAACTTTGCTAAAGATGCTCAGGACCAATGGACT
GATAAGGAAAAGGCTGAAAAGAACTTCAAATCCAGCCTTCTGGTGGATCAACAGAAATGGAGAAGAG
ATGCGATGGAGTTTGGAGAACTGGGATCTCTGTCCAGAAAATTTGCCAATATACTTTCAGAAGCCTGT
TCCCTACAAGAGGAGATCGGGTAATTCTGATTCTGCCAGGGTCCAGAGTGGTGGCTTGCAAATGTG
GCCTGTCTGCGAACAGGGACAGTTTAATTCAGGAACCACTCAGCTGACCCAGAAAGACATTCTCTAC
AGACTACAATCTTCAAAGCAAAGTGCATTATACCAATGATGTTTTAGCCCCAGCAGTAGACGCTGTT
GCATCAAATGTGAAAATCTGCACTCCAAGCTGATTGTATCAGAGAACTCCAGAGAGGGGTGGGGGAAC
CTCAAGGAGTTGATGAAACATGCCAGTGACAGCCACACCTGTGTGAAGACAAAACACAATGAGATCATG
GCCATATCTTTACCAGTGAACAAGTGGATATCCGAAAATGACTGCACACCCACAGCAGTTTGGT
TTAGGATTATCTGTAATGGAAGTTCTGGCTAGATTTGACACCCCTCAGATGTGATGTGGAATACCTCA
GATACGGGCTGGCAAAGTCTGCATGGAGTAGTGTTCCTCCGTGGATCCAGGGAGCATGTGTATTC
ACACACCAATTTACCCGTTTTGAGCCGACTTCTATCTTGCAAACACTCTCAAGTACCCCATCAGAGTC
TTCTGTTACAGCACTGATATACCGAATGCTTGTACAGAATGATAAACCAGCTATAAGTTTAAAGC
TTAAAGCACTGTGTGAGTGTGGGAAACCAATACCCCTGACGTGACTGAAAAATGGAGAAAACAAGACG
GGCCTGGATATCTACGAAGGATATGGACAGACTGAAACGGTGCTAATCTGTGAAAATTTAAGGGAATG
AAAATTAACCTGGCTCAATGGGAAAACCTTCTCCTGCTTTCGATGTTAAGGTTTGCACATCCCCTTCC
AGGAGAATGTTTAAACCACTCTGTACTACTACCTACCGCTTACCCCATATAAATTTCTTTG
TTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	□
ACCN:	NM_202000
Insert Size:	1317 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:	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_202000.2
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:	<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) (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks several exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>