

Product datasheet for **SC113927**

ACSM5 (NM_017888) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM5 (NM_017888) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSM5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_017888 edited
GGCGGCCGCAATTCGGCACGAGGGTCCCTGTGGGAGGCTGTTTTCTGAGGGAGCTGAG
TGTTTACAGCCACTCAGCCCTGCTCTGCTCAGCTGAAGCAGAAAAACAGAGACCTTTTGCA
TTACTTTGGTTCAAGAGCAAGACAGGAGGCGACTGCATGAGACCATGGCTGAGACACCTA
GTCCTCCAGGCACTGAGGAACTCCAGGGCATTCTGTGGGTCTCATGGGAAGCCAGCACCT
GTACCTGTTCCCTCAGAAGATCGTGGCCACCTGGGAAGCCATCAGCCTGGGAAGGCAGCTG
GTGCTGAGTACTTCAACTTCGCCCATGATGTGCTGGATGTGTGGAGTCGGCTGGAAGAG
GCTGGACACCGCCCCCAATCCTGCCTTCTGGTGGGTCAATGGCACAGGAGCAGAGATC
AAGTGGAGCTTTGAGGAGCTGGGGAAGCAGTCCAGGAAGGCAGCCAATGTGCTGGGGGT
GCATGCGGCTGCAGCCTGGGGACAGAATGATGCTGGTACTCCCACGGCTCCCGGAGTGG
TGGCTGGTCAGTGTGGCTTGCATGCGGACAGGACTGTGATGATTCCGGGTGTGACTCAG
CTGACAGAGAAGGACCTCAAGTACCGGCTGCAGGCGTCCAGGGCCAAGTCCATTATCACC
AGTGACTCCCTAGCTCCAAGGTGGATGCCATCAGTGCCGAATGCCCTCCCTCCAGACC
AAGCTGCTGGTGTGACAGCAGTGGCCAGGCTGGTTGAACTTCAGGGAACCTCCGG
GAGGCTTCTACAGAGCACAACCTGCATGAGGACAAAGAGTCGAGACCCGCTGGCCATCTAC
TTTACCAGCGGAACCACGGGGCCCCAAGATGGTCGAGCACTCCAGAGCAGCTACGGA
CTGGGTTTTGTGGCCAGCGGAAGACGGTGGGTGGCCTTGACCGAATCTGCATCTTCTGG
AACACGACTGACACTGGCTGGGTGAAGGCAGCCTGGACTCTTCTCTGCCTGGCCTAAT
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GCCCTCAACCTGACGTGAGGGAGAAGTGGAAACACCAGACTGGTGTGGAGCTGTACGAA
GGCTATGGCCAGTCTGAAACGGTTGTCTGTGTGCAATCCAAAAGGCATGAAAAACAAG
TCTGGATCCATGGGGAAGGCGTCCCACCCTACGATGTGCAGATTGTGGATGATGAGGGC
AACGTCCTGCCTCCTGGAGAAGAGGGGAATGTTGCCGTCCGTATCAGACCCACTCGGCC
TTCTGTTTCTTCAATTGCTATTTGGACAATCCTGAGAAGACAGCTGCATCAGAACAAGGG
GACTTTTACATCACAGGGGACCGAGCTCGCATGGACAAGGATGGCTACTTTTGGTTCATG
GGAAGAAACGACGATGTGATCAATTCTTCAAGCTACCGGATCGGGCCTGTTGAAGTGAA
AGTGCCCTGGCAGAGCATCCTGCTGTCTGGAGTGGCTGTGGTCAAGCAGCCAGACCCC
ATCAGGGGAGAGGTGGTAAAGGCATTTATAGTCCTTACTCCAGCCTACTCCTCTCATGAC
CCAGAGGCACTAACGCGGAACTCCAGGAGCATGTGAAAAGGGTACTGCTCCATACAAA
TACCCCAGGAAGTGGCCTTTGTTTCAGAACTGCCAAAGACGGTTTCTGGAAAGATCCAA
AGGAGTAAATTGCGAAGTCAGGAGTGGGGGAAATGAGGTGCACCCAGGAAGGCCCCGTA
GACCTCCGAAGACTCCACAAGAACTAATGGATCACTGGTCACTCCCATGGGGAGCATC
ATCTCTTCGACCCTAAAGATGTCAAAGGTGTGCAGCTTCCAAACGGCATCCCAGGATCA
CTGGGCAATGCTGGAAAGAGCAAAGAATATCATTGGCCCTGATCACATAGATGCTGCGC
CGCCTAGCAAATGCTTGGTGGTTCGACTTCTCCCTCTGTCTGGGGCAGGCTCAGCATCT
GCCCACTGGTCTCACTAAGAGCTTTCAGATTTCCAAAAATAGGACAGGTTACCATAGACT
TGGGGCACTTGTGGTACTCATTTTCTGCCAGTGGGAATGTAAAGGCTTCATCCTTTGTA
TGTAACCATTTGGCAAAAGTATGCAGGAACATAAAAATAAAATA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_017888 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTCCCTGTGGGAGGCT GTTTTCTGAGGGAGCTGAGTGTTTACAGCCACTCAGCCCTGCTCTGCTCAGCTGAAGCAG AAAACAGAGACCTTTTGCATTACTTTGGTTCAAGAGCAAGACAGGAGGCGACTGCATGAG ACCATGGCTGAGACACCTAGTCTCCAGGCACTGAGGAACTCCAGGGCATTCTGTGGGTC TCATGGGAAGCCAGCACCTCTACCTGTTCTCAGAAGATCGTGGCCACCTGGGAAGCCAT CAGCCTGGGAAGGCAGCTGGTGCCTGAGTACTTCAACTTCGCCCATGATGTGCTGGATGT GTGGAGTCGGCTGGAAGAGGCTGGACACCGCCCCAAAATCCTGCCTTCTGGTGGTCAA TGGCACAGGAGCAGAGATCAAGTGGAGCTTTGAGGAGCTGGGGAAGCAGTCCAGGAAGGC AGCCAATGTGCTGGGGGTGCATGCGGCCTGCAGCCTGGGGACAGAATGATGCTGGTACT CCCACGGCTCCCGGAGTGGTGGCTGGTCAGTGTGGCTTGCATGCGGACAGGGACTGTGAT GATTCCGGGTGTGACTCAGCTGACAGAGAAGGACCTCAAGTACCGGCTGCAGGCTCCAG GGCAAGTCCATTATCACCAGTACTCCCTAGCTCCAGGGTGGATGCCATCAGTGCCGAA TGCCCTCCCTCCAGACAAGCTGCTGGTGTGACAGCAGTGGCCAGGCTGGTTGAACT TCAGGNAACTNCTNCGGAGGCTTCTACAGAGCACAACCTGCATGAGGGACAAGAGTCGAG ACCCGCTGGCCATCTACTTTACCAGCGNAACCACCGNGCCNNCAGNATGGTCGAGCAC TTCCANAGCAGCTACGNACTGGNTTNTGTGGCAGCGNNAGACCGTGGGTGGNCCTTGAC CGATCTGNCAATCTCTGGAACGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_017888 unedited GGTGTAATAGGCCGCTTTCTGGNGNCCNNGNTTNCCTTTTTTTTTTTTTTGTGGGGCTCC TTGTGAAGAATTTCTGAGCTAAAGGTATTTTATTTTATGTTCTGCATACTTTTGCCAAA TGGTTACATACAAAGGATGAAGCCTTTACATTCCTCACTGGCAGAAAATGAGTACCACAA GTGCCCAAGTCTATGGTAACCTGTCCTATTTTGGAAATCTGAAAGCTCTTAGTGAGAC CAGTGGGCAGATGCTGAGCCTGCCCCAGACAGAGGGAGAAGTCAACCACCAAGCATT GCTAGGCGGCGCAGCATCTATGTGATCAGGGCCAAATGATATTCTTTTGTCTTTCCAGCA TTGCCAGTGATCCTGGGGATGCCGTTTGAAGCTGCACACCTTTGACATCTTTAGGGTC GAAGAGATGATGCTCCCATGGGACTGACCAGTATCCATTAGTTTCTGTGGAGTCTT CGGAGGCTACGGGGCTTCTGGGGTGCACCTCATTTCCTCCACTCCTGACTTCGCAAT TTACTCCTTTGGATCTTTCCAGAAACCGTCTTTGGCAGTTCTGAAACAAAGGCCACCTTC CTGGGGTATTTGTATGGAGCAGTACCCTTTTACATGCTCCTGGAGTTCCCGCGTTAGT GCCTCTGGGTGATGAGAGGAGTANGCTGGAGTAAGGACTATAAATGCCTTTACCACCTCT CCCCTGATGGGGTCTGGGCTGCTGACCACAGCCGACTCCAGGACAGCAAGATGCTCTGCC AGGGCACTTTCCACTTCAACAGGCCCGATCCGGTAGCTTGAAGAATGATCACATCGTCGT TTCTTCCATGAACCAAAGTAGCCATCCTGTCCATGCGAGCTCGGTCCCTGTGAGTAA AGTCCCCCTGNTCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_017888
Insert Size:	2440 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).
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_017888.2 , NP_060358.2
RefSeq Size:	2428 bp
RefSeq ORF:	1740 bp
Locus ID:	54988
UniProt ID:	Q6NUN0
Cytogenetics:	16p12.3
Domains:	AMP-binding
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]