

Product datasheet for **SC127039**

ACSS1 (NM_032501) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS1 (NM_032501) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSS1
Synonyms:	ACAS2L; ACECS1; AceCS2L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127039 sequence for NM_032501 edited (data generated by NextGen Sequencing)

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ATGGCGGCGCGCACCCCTGGGCGCGGGCTCGGGAGGCTGCTGGGCAGCCTGCGAGGGCTC
TCGGGGCAGCCCGCGGGCCCGCTGCGGGGTGAGCGCGCCGCGCAGGGCGGCCTCGGGA
CCCTCGGGCAGCGCTCCCGCAGTTGCAGCAGCAGCAGCACAGCCAGGCTCGTATCCCGCG
CTGAGTGCACAGGCAGCCCGGGAGCCGGCCGCCTTCTGGGGCCCTCTGGCGGGGACACT
CTCGTGTGGGACACACCCTACCACACCGTCTGGGACTGCGACTTACAGACTGGCAAGATC
GGCTGGTTCCTGGGAGGCCAGTTAAATGTCTCTGTCAACTGCTTGGACCAGCATGTTCCG
AAGTCCCCCGAGAGCGTTGCTTTGATCTGGGAGCGCGATGAGCCTGGAACGGAAGTGAGG
ATCACCTACAGGGAACACTACTGGAGACCAGTGCAGCCTGGCCAACACGCTGAAGAGGCAT
GGAGTCCACCGTGGGACCGTGTGCCATCTACATGCCCGTGTCCCATTTGGCTGTGGCA
GCAATGCTGGCCTGTGCCAGGATCGGAGCTGTCCACACAGTCATCTTTGCTGGCTTCACT
GCAGAGTCTTGGCTGGGAGGATCAATGATGCCAAGTGAAGGTGGTTATCACCTTCAAC
CAAGGACTCCGGGTGGGCGCGTGGTGGAGCTGAAGAAAATAGTGGATGAGGCTGTGAAG
CACTGCCCCACCGTGCAGCATGTCTGGTGGCTCACAGGACAGACAACAAGGTCCACATG
GGGGATCTGGACGTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCTGTTTGCGCCCA
GAGAGCATGGGCAGTGAGGACATGCTCTTCATGCTGTACACCTCAGGGAGCACCGGAATG
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GAGAGCACCCAGTTTATCCCAATGCTGGTCCGTAAGTGGGAGACAGTAGAGAGGTTGAAG
ATCAATCAGTTCTATGGCGCCCCAACGGCTGTCCGGCTGTTGCTGAAATACGGTGATGCC
TGGGTGAAGAAGTATGATCGCTCCTCCCTGCGGACCCTGGGGTCAGTGGGAGAGCCCATC
AACTGTGAGGCCCTGGGAGTGGCTTACAGGGTGGTGGGGACAGCAGGTGCACGCTGGTG
GACACCTGGTGGCAGACAGAAACAGGTGGCATCTGCATCGCACCACGGCCCTCGGAAGAA
GGGGCGGAAATCCTCCCTGCCATGGCGATGAGGCCCTTCTTTGGCATCGTCCCCGTCTC
ATGGATGAGAAGGGCAGCGTCTGGAGGGCAGCAACGTCTCCGGGGCCCTGTGCATCTCC
CAGGCCTGGCCGGGCATGGCCAGGACCATCTATGGCGACCACCAGCGATTTGTGGACGCC
TACTTCAAGGCCTACCCAGGCTATTACTTCACTGGAGACGGGGCTTACCGAACTGAGGGC
GGCTATTACCAGATCACAGGGCGGATGGATGATGTCATCAACATCAGTGGCCACCGGCTG
GGGACCGCAGAGATTGAGGACGCCATCGCCGACCACCCTGCAGTACCAGAAAGTGTGTGC
ATTGGCTACCCCCACGACATCAAAGGAGAAGCTGCCTTTGCCTTATTGTGGTGAAGAT
AGTGCGGGTGACTCAGATGTGGTGGTGCAGGAGCTCAAGTCCATGGTGGCCACCAAGATC
GCCAAATATGCTGTGCCTGATGAGATCCTGGTGGTGAACGTCTTCCAAAAACCAGGTCT
GGGAAGGTCATGCGGGCGGCTCCTGAGGAAGATCATCACTAGTGGGCCAGGAGCTGGGA
GACACTACCACCTTGGAGGACCCAGCATCATCGCAGAGATCCTGAGTGTCTACCAGAAG
TGCAAGGACAAGCAGGCTGCTGCTAAGTGA
    
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Clone variation with respect to NM_032501.2
255 c=>a

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032501 unedited GTTTTTCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC GAATTCGGCAGCAGAGGCTCAGGTAGCCTGCCTAGATGGCGGCGCGCACCCCTGGGCCGCGG GTCGGGAGGCTGCTGGGCAGCCTGCGAGGGCTCTCGGGGACGCCGCGCGGCCCGCTGC GGGTGAGCGCGCCGCGCAGGGCGGCCCTCGGGACCCTCGGGCAGCGCTCCCGCAGTTGCA GCAGCAGCAGCACAGCCAGGCTCGTATCCCGCGCTGAGTGCACAGCAGCCCGGGAGCCG GCCGCCTTCTGGGGCCCTGCGCGGGGACACTCTCGTGTGGGACACCCCTACCACACC GTCTGGGACTGCGACTTCAGCACTGGCAAGATCGGCTGGTTCCTGGGAGGCCAGTTAAAT GTCTCTGTCAACTGCTTGGACCAGCATGTTGGAAGTCCCCGAGAGCGTTGCTTTGATC TGGGAGCGCGATGAGCCTGGAACGGAAGTGAAGTACCTACAGGGAAGTACTGGAGACC ACGTGCCGCTGGCCAACACGCTGAAGAGGCATGGAGTCCACCGTGGGGACCGTGTGGC ATCTACATGCCCGTGTCCCATTGGCTGTGGCAGCAATGCTGGCCTGTGCCAGGATCGGA GCTGTCCACACAGTCATCTTTGCTGGCTTCAGTGCAGAGTCTTGCTGGGGAGATCAAT GATGCCAAGTGAAGGTGTTATCACCTTTCACCAAGGGACTCCGGGTGGGCGCGTGGTG GAGCTGAAAANATAGTGATGAAGCTGTGAAGCACTGCCACGTGCAGCATGTTCTGTTG CCTCACAGACAGACAGGTTCCACTGGNGGATCTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032501 unedited TAGTGTACGTGGCCGAATCNAAGGATCGAGTTTTTTTTTTTTTTTTTTTTGAAAATGAACA AAATAAAGCTTTATTTGAACTCCCTCCCCTACAGATCATTAGATGCCCGGGACCATGTC CAGGTTCTCTCAGCAACATGGAAGCTAAGCCATTTACAAAACGCACAAGTGTAGCTAC ACTACAGCCCCCATGCCAGGGCACAGCTTTGTTGCTAAGCCTGTAACAAAAGACCACC ACTCAGTATTTGTGTACCTGCAGCCAACACCCTCCTGGGCTTCACAGTTCACTCAC CCAAGAGGCCAGCACAACCACGACCGAGTGGTACTCAGTGGCCAGACACCCCCGAAC ACTGGCACTGCCACAAGGCCCTGAAGGGTAGACTGTGGGGCAAAGAGGACAAACTCTCCC TCCCCTAAGGGACCCGGCTCACTGGGCCTCCTTCCCCTGCCAACCCGACCCCTGCATG CCTAGCAGGGAGGTAAGCACCCACTGGCGTCGTGATTTCCATTATCTTGCTAATGTTGAC AGCACCTAAGTCAATTAACAAAGAGAGACTGGATCCAGACCTCCAAGTCTCATCATT GGACCTCAGTGGTTCTCACTGCCCAACCACAGAGTGAAGGTGANGCAGCGTTTGGCCAGG ATTTGGCTCTGACCAGTTAGTGCTCTAACAAAGTCACTGAGTTTTCTAATAGCTTCCCTGA AGAACCCACTATTTGGAGTATGTTGCCCTCTCTATCAAAAAGCATCTGGGGCACANAATC CTTCTGGATCACAGCTGAGAANCAGACATACTGGAGAGCTCAGACTAAGGCGCCATTAC CCCACGCTTAGAGTAGCTCTTATACCACCCACCCAGAGAAACCTCCAGAAAAGAGCCGAG CTTGGAGATCTCAGGACTGTTAACGAAGTN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_032501
Insert Size:	4000 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_032501.2 , NP_115890.2
RefSeq Size:	4488 bp
RefSeq ORF:	2070 bp
Locus ID:	84532
UniProt ID:	Q9NUB1
Cytogenetics:	20p11.21
Domains:	AMP-binding
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
Gene Summary:	<p>This gene encodes a mitochondrial acetyl-CoA synthetase enzyme. A similar protein in mice plays an important role in the tricarboxylic acid cycle by catalyzing the conversion of acetate to acetyl CoA. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>