

## Product datasheet for **SC321517**

### ACSL5 (NM\_016234) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL5 (NM_016234) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSL5
Synonyms:	ACS2; ACS5; FACL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_016234.3  
 CGAGCACGTTAGAAAAGCCTGACATGGCCTGACTCGGGACAGCTCAGAGCAGGGCAGAAGT  
 GGGGACACTCTGGGCCGGCCTTCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGG  
 AGGAACCACGAGCGAGGGAAGAAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCG  
 GGAAGCCCCCATTCACTAGAAGCACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTC  
 CTGTCTGTGTTCAAAAAGATGCTTTTTATCTTTAACTTTTTGTTTTCCCACTCCGACC  
 CCGGCGTTGATCTGCATCCTGACATTTGGAGCTGCCATCTTCTGTGGCTGATCACCAGA  
 CCTCAACCCGTCTTACCTCTTCTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGA  
 GCACGGAAGGGGTTTTCCAGAAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCC  
 AAGACTATGTATGAGTTTTCCAAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTG  
 GGATATAGAAAACCAAACAGCCCTACAGATGGCTATCTTACAAACAGGTGTCTGATAGA  
 GCAGAGTACCTGGGTTCCCTGTCTCTTGCATAAAGGTTATAAATCATCACCAGACCAGTTT  
 GTCGGCATCTTTGCTCAGAATAGCCAGAGTGGATCATCTCCGAATTGGCTTGTACACG  
 TACTCTATGGTAGCTGTACCTCTGTATGACACCTTGGGACCAGAAGCCATCGTACATATT  
 GTCACAAAGGCTGATATCGCCATGGTGATCTGTGACACACCCCAAAGGCATTGGTGCTG  
 ATAGGGAATGTAGAGAAAGGCTTACCCCGAGCCTGAAGGTGATCATCCTTATGGACCC  
 TTTGATGATGACCTGAAGCAAAGAGGGGAGAAGAGTGAATTGAGATCTTATCCCTATAT  
 GATGCTGAGAACCCTAGGCAAAGAGCACTTCAGAAAACCTGTGCCTCCTAGCCAGAAAGAC  
 CTGAGCGTCATCTGCTTACCAGTGGGACCACAGGTGACCCCAAAGGAGCCATGATAACC  
 CATCAAAATATTGTTTCAAATGCTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAG  
 CCCACTCCTGATGATGTGGCCATATCCTACCTCCCTCTGGCTCATATGTTTGAGAGGATT  
 GTACAGGCTGTTGTACAGCTGTGGAGCCAGAGTTGGATTCTTCCAAGGGGATATTCGG  
 TTGCTGGCTGACGACATGAAGACTTTGAAGCCACATTGTTTCCGCGGTGCCTCGACTC  
 CTTAACAGGATCTACGATAAGGTACAAAATGAGGCCAAGACACCCTTGAAGAAAGTTCTTG  
 TTGAAGCTGGCTGTTTCCAGTAAATTCAAAGAGCTTCAAAGGGTATCATCAGGCATGAT  
 AGTTTCTGGGACAAGCTCATCTTTGCAAAGATCCAGGACAGCCTGGGCGGAAGGGTTCGT  
 GTAATTGTCACTGGAGCTGCCCCATGTCCACTTCAGTCATGACATTCTTCCGGGCAGCA  
 ATGGGATGTCAGGTGATGAAGCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTT  
 ACATTACCTGGGACTGGACATCAGGTCACGTTGGGGTGGCCCTGGCTTGCAATTACGTG  
 AAGCTGGAAGATGTGGCTGACATGAACTACTTTACAGTGAATAATGAAGGAGAGGTCTGC  
 ATCAAGGTTACAACGTGTTCAAAGGATACCTGAAGGACCCTGAGAAGACACAGGAAGCC  
 CTGGACAGTGATGGCTGGCTTACACAGGAGACATTGGTTCGCTGGCTCCCGAATGGAAC  
 CTGAAGATCATCGACCGTAAAAAGAACATTTTCAAGCTGGCCAAAGGAGAATACATTGCA  
 CCAGAGAAGATAGAAAATATCTACAACAGGAGTCAACCAGTGTACAAAATTTTTGTACAC  
 GGGGAGAGCTTACGGTATCCTTAGTAGGAGTGGTGGTTCCTGACACAGATGACTTCCC  
 TCATTTGCAGCCAAGCTTGGGGTGAAGGGCTCCTTTGAGGAACCTGTGCCAAAACCAAGTT  
 GTAAGGGAAGCCATTTTAGAAGACTTGCAGAAAATGGGAAAGAAAGTGGCCTTAAAAC  
 TTTGAACAGGTCAAAGCCATTTTCTTCCATCCAGAGCCATTTTCCATTGAAAATGGGCTC  
 TTGACACCAACATTGAAAGCAAAGCGAGGAGAGCTTTCCAATACTTTTCGACCCCAATT  
 GACAGCCTGTATGAGCACATCCAGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCAC  
 TGTGCACTGCTTGTGAGAAAATGGATTAATAACTATTCTTACATTTAAAAAAAAAAAAAA  
 AAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_016234  
**Insert Size:** 2339 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016234.3</a> , <a href="#">NP_057318.2</a>
<b>RefSeq Size:</b>	3372 bp
<b>RefSeq ORF:</b>	2220 bp
<b>Locus ID:</b>	51703
<b>UniProt ID:</b>	<a href="#">Q9ULC5</a>
<b>Cytogenetics:</b>	10q25.2
<b>Domains:</b>	AMP-binding
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in uterus and spleen, and in trace amounts in normal brain, but has markedly increased levels in malignant gliomas. This gene functions in mediating fatty acid-induced glioma cell growth. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a).</p>