

Product datasheet for **SC126917**

ACSL3 (NM_203372) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL3 (NM_203372) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSL3
Synonyms:	ACS3; FACL3; LACS 3; LACS3; PRO2194
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC126917 sequence for NM_203372 edited (data generated by NextGen Sequencing)

```

ATGAATAACCACGTGTCTTCAAACCATCTACCATGAAGCTAAAACATACCATCAACCCT
ATCTTTTATATTTTATACATTTTCTAATATCACTTTATACTATTTTAACATACATTCCG
TTTTATTTTTTCTCCGAGTCAAGACAAGAAAAATCAAACCGAATTAAGCAAAGCCTGTA
AATTCAAAACCTGATTCTGCATACAGATCTGTTAATAGTTTGGATGGTTTGGCTTCAGTA
TTATACCCTGGATGTGATACTTTAGATAAAGTTTTTACATATGCAAAAACAAATTTAAG
AACAAAAAGACTCTTGGGAACACGTGAAGTTTTAAATGAGGAAGTGAAGTACAACCAAAT
GGAAAAATTTTTAAAAAGGTTATTCTTGGACAGTATAATTGGCTTTCCTATGAAGATGTC
TTTGTTTCGAGCCTTAATTTTGGAAATGGATTACAGATGTTGGGTGAGAAACCAAAGACC
AACATCGCCATCTTCTGTGAGACCAGGGCCGAGTGGATGATAGCTGCACAGGCGTGTTC
ATGTATAATTTTCAGCTTGTACATTATATGCCACTCTAGGAGGTCCAGCCATTGTTTCAT
GCATTAATGAACAGAGGTGACCAACATCATTACTAGTAAAGAAGTCTTACAAACAAAG
TTGAAGGATATAGTTTCTTTGGTCCCACGCTGCGGCACATCATCACTGTTGATGGAAG
CCACCGACTGGTCCGAGTTCCTCAAGGGCATCATTGTGCATACCATGGCTGCAGTGGAG
GCCTGGGAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCATGGCCCTCAGAT
ATTGCAGTAATCATGTACACAAGTGGATCCACAGGACTTCCAAAGGGAGTCATGATCTCA
CATAGTAACATTATTGCTGGTATAACTGGGATGGCAGAAAGGATTCCAGAAGTAGGAGAG
GAAGATGTCTACATTGGATATTTGCCTCTGGCCCATGTTCTAGAATTAAGTGTGAGCTT
GTCTGTCTTTCTCACGGATGCCGATTGGTTACTCTTACCACAGACTTTAGCAGATCAG
TCTTCAAAAATTAAGAAAGCAAGCAAGGGGATACATCCATGTTGAAACCAACACTGATG
GCAGCAGTCCGGAATCATGGATCGGATCTACAAAAATGTCATGAATAAAGTCAGTGAA
ATGATAGTTTTCAACGTAATCTGTTTATTCTGGCCTATAATTACAAAAATGGAACAGATT
TCAAAAGGACGTAATACTCCACTGTGCGACAGCTTTGTTTTCCGGAAAAGTTCGAAGCTTG
CTAGGGGGAAATATTCGTCCTCTGTTGTGTGGTGGCGCTCCACTTTCTGCAACCACGCAG
CGATTCATGAACATCTGTTTCTGCTGTCCTGTTGGTCAGGGATACGGGCTCACTGAATCT
GCTGGGGCTGGAACAATTTCCGAAGTGTGGGACTACAATACTGGCAGAGTGGGAGCACCA
TTAGTTTGTGTGAAATCAAATTAAGAACTGGGAGGAAGGTGGATACTTTAATACTGAT
AAGCCACACCCAGGGGTGAAATTCCTATTGGGGGCCAAAGTGTGACAATGGGGTACTAC
AAAAATGAAGCAAAAACAAAAGCTGATTTCTTTGAAGATGAAAAATGGACAAAGGTGGCTC
TGTAAGGATATTGGAGAGTTTGAACCCGATGGATGCTTAAAGATTATTGATCGTAAA
AAGGACCTTGTAAGAACTACAGGCAGGGGAATATGTTTCTTGGGAAAGTAGAGGCAGCT
TTGAAGAATCTTCCACTAGTAGATAACATTTGTGCATATGCAAACAGTTATCATTCTTAT
GTCATTGGATTTGTTGTGCCAAATCAAAGGAACTAACTGAACTAGCTCGAAAGAAAGGA
CTTAAAGGACTTGGGAGGAGCTGTGTAACAGTTGTGAAATGGAATAAGGACTTAA
GTGCTTTCCGAAGCTGCTATTTTCAGCAAGTCTGGAAAAGTTTGAATTCAGTAAAAAT
CGTTTGTGCTGAAACCGTGGACCCCTGAAACTGGTCTGGTGACAGATGCCTTCAAGCTG
AAACGCAAGAGCTTAAACACATTACCAGGCGGACATTGAGCGAATGTATGGAAGAAAA
TAA
    
```

Clone variation with respect to NM_203372.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_203372 unedited
 ACTTAGGGCGGCCGGAATTCGGCACGAGGAACAGCTGTAACATTTGCCACCCTCAGAAG
 CTGCTGGTCTGTGTACACCACCTTAGCCTCTTGATCGAGGAAGATTCTCGCTGAAGTC
 TGTTAATTCTACTTTTGGAGTACTTATGAATAACCACGTGCTTCAAACCATCTACCAT
 GAAGCTAAAACATACCATCAACCCTATTCTTTTATATTTTATACATTTTCTAATATCACT
 TTATACTATTTTAAACATACATTCGGTTTTATTTTTTCTCCGAGTCAAGACAAGAAAAATC
 AAACCGAATTAAGCAAAGCCTGTAATTCAAAACCTGATTCTGCATACAGATCTGTTAA
 TAGTTTGGATGGTTTGGCTTCAGTATTATACCCTGGATGTGATACTTTAGATAAAAGTTTT
 TACATATGCAAAAAACAATTTAAGAACAAAAGACTCTTGGAACACGTGAAGTTTTAA
 TGAGGAAGATGAAGTACAACCAATGGAAAAATTTTTAAAAAGGTTATTCTTGGACAGTA
 TAATTGGCTNTCCTATGAAGATGCTTTTGTTCGAGCCTTAATTTGGAAAGGATACAGAT
 GNTGGGTGAGAACCAAAGACAACATCGNCATCTTCTGTGAACCAGGNCAGTGTGATA
 GCTGCACAGGCGTNTATGTATATTTTACAGTTGTACATATATGCCATCTANGAGGTCA
 GNCATTGTGATGATAATGAACAGAGTGACAACCTATACTATAAAGACCTACAACAAGTG
 AGGATTAGTTTTGGGCCACGCTGCGAAAAATACTGTGTGAAGCAGACTGGCCGGATC
 CAAGGCTATGGGCTACTGGTTGAGGGAGCTGGGCCAAGCCTTGAAAAAACAATAAAACCT
 GCCTAATTGGGATCTGCCAGGGGCCGACTCAGGGGGGGCCAAACCTTGGGGTACGGGG
 GAAGACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_203372 unedited
 GCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACATAAGTATGGGTAT
 ATTTATTTCTCTCAAATGCATACAAGACAATAATTACACAGCAACAAATCTTTTGTTCAA
 CAATGATTTGATTCATAAGCATTGAAATTTACATAATTTTCATATCAATACCCTTGATTT
 TTTAAATACAGTAAGTAAAAAGCCCCAAATAACCAATTCCTTATATTTCTATTTATCC
 CTCTATACATCCAACTTTTAAAAAGTTACAACTGAACATTATACAGAACATATAAATC
 ATGTTTAAAAACTTGAGGTTTTAAAACTACTGCTTCCCAATATGATTGAGAAAAATTTCT
 CATACTGACAAGTACAGTCATAGGTGGTAAAGTAAAGTTGGTGGCGGGGAAAAATGAAAGAA
 GAGACAGACACAAGTTTGTCTTAAATGTTTACTAATCCTGTCAGTTAAAAATGGTGA
 CGTCATGAGAAGTAAATAGTTTAAATGAGGAATGGAGTTTGCCTTGACAGTTGAGACATG
 CATTTCAGTATTTTCTATTTGATCTGAGCTCACTGTAGCAAACTGATGCCAGAAGAGA
 ATAATTATTTTCTCCATACATTCGCTCAATGTCCGCCTGGTAATGTGTTTTAAGCTCTT
 TCGCTTTCAGCTTGAAGGCATCTGTACACAGACCAGTTTTCAGGGTCCACGTTTCAGGAC
 TCAAACGAATTTTACTGGAATTTAACTTTTCCAGACTTGCTGAAATAGCAGCTTCGGA
 AAGCACTTTAAGTACCTCATTTTNCATTTCACTGNTACACAGCTCCTCCCCAGTCCC
 TTTAAGTCTTTTCCAGCTAGNTCAAGTAGTTCTTTGATTTTGGCCCAAAATCCA
 TGACATTAGAATGATACTGTTTGCCTATGCCAAATGTTATCTACTATGGAAGATTCTTAA
 AGCTGCTTTACTTTCCAGAAAAATTTCCNCCCTGCCGTAGTTTAAAGGCCTTTTAGAAC
 AAATTTTAACTCATGGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_203372

Insert Size:

2800 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_203372.1 , NP_976251.1
RefSeq Size:	4262 bp
RefSeq ORF:	2163 bp
Locus ID:	2181
UniProt ID:	O95573
Cytogenetics:	2q36.1
Protein Families:	Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	<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 brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. The amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>