

Product datasheet for **SC337149**

ACSL1 (NM_001286711) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL1 (NM_001286711) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSL1
Synonyms:	ACS1; FACL1; FACL2; LACS; LACS1; LACS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

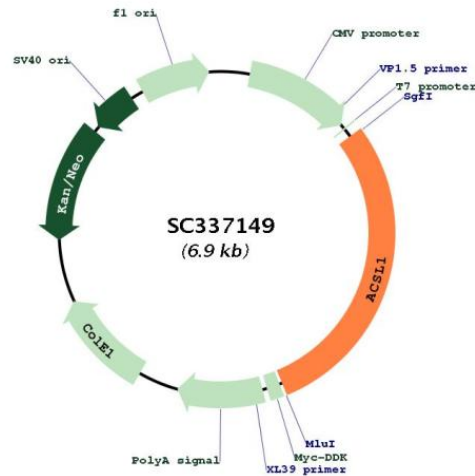


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Fully Sequenced ORF: >SC337149 representing NM_001286711.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAAGCCCATGAGCTGTTCCGGTATTTTGAATGCCAGAGCTGGTTGACTTCCGACAGTACGTGCGT
ACTCTTCCGACCAACACGCTTATGGGCTTCGGAGCTTTTGCAGCACTACCACCTTCTGGTACGCCACG
AGACCCAAACCCCTGAAGCCGCCATGCGACCTCTCCATGCAGTCAGTGGAAAGTGGCGGGTAGTGGTGGT
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CCAGAGCTGCGGAACTATTTAGGTGCGAGATAGATGACCTCTATTCCACTATCAAGGTTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001286711

Insert Size: 1995 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:

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_001286711.1](#)

RefSeq Size: 3773 bp

RefSeq ORF: 1995 bp

Locus ID: 2180

UniProt ID: [P33121](#)

Cytogenetics: 4q35.1

Protein Families: Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

MW: 74.3 kDa

Gene Summary: 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
Transcript Variant: This variant (4) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform a.