

Product datasheet for **SC336621**

ACSL1 (NM_001286712) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ACSL1 (NM_001286712) 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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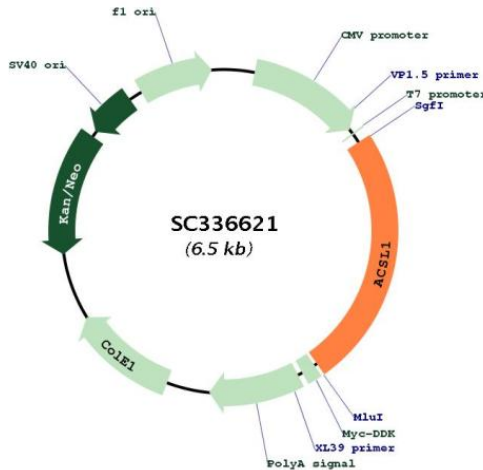
Fully Sequenced ORF: >SC336621 representing NM_001286712.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGATCGTTCCACTTTATGATACCCCTTGGAAATGAAGCCATCACGTACATAGTCAACAAAGCTGAA
CTCTCTCTGGTTTTTGTGACAAGCCAGAGAAGGCCAAACTCTTATTAGAGGGTGTAGAAAATAAGTTA
ATACCAGGCCTTAAAATCATAGTTGTCATGGATGCCTACGGCAGTGAACGGTGGAACGAGGCCAGAGG
TGTGGGGTGAAGTCACCAGCATGAAGGCGATGGAGACCTGGGAAGAGCCAACAGACGGAAGCCCAAG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001286712

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| Insert Size: | 1584 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_001286712.1 |
| RefSeq Size: | 4121 bp |
| RefSeq ORF: | 1584 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: | 58.6 kDa |
| 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, contains an alternate exon, and uses a downstream start codon compared to variant 1. It encodes isoform d, which has a shorter N-terminus compared to isoform a.</p> |