

Product datasheet for **RC239255**

ACSL1 (NM_001286711) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>RC239255 representing NM_001286711
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCAAGCCCATGAGCTGTTCCGGTATTTTCGAATGCCAGAGCTGGTTGACTTCCGACAGTACGTGCGTA
CTTTCCGACCAACACGCTTATGGGCTTCGGAGCTTTTCAGCACTCACACCTTCTGGTACGCCACGAG
ACCCAAACCCCTGAAGCCGCCATGCGACCTCTCCATGCAGTCAGTGGAAGTGCGGGTAGTGGTGGTGCA
CGAAGATCCGCACTACTTGACAGCGACGAGCCCTTGGTGTATTTCTATGATGATGCACAACATTATACG
AAGGTTCCAGAGGGGAATACAGGTGTCAAATAATGGCCCTTGTAGGCTCTCGAAACAGACCAACC
CTATGAATGGCTTTCATATAAACAGTGGGTGATTATTGAACAAGGATGCTTTGCTTATTCGATGGTGATC
GTTCCACTTTATGATACCCTTGAAATGAAGCCATCACGTACATAGTCAACAAAGCTGAAGTCTCTCTGG
TTTTTGTGACAAGCCAGAGAAGGCCAACTCTTATTAGAGGGGTAGAAAATAAGTTAATACCAGGCCCT
TAAATCATAGTTGTCATGGATGCCTACGGCAGTGAAGTGGTGAACGAGCCAGAGGTGTGGGGTGGAA
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AAGATCTTGCAAGTAAATTTGTTTCACAAGTGAAGTACAGGCAACCCAAAGGAGCAATGGTCACTACCG
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ATCGCAATGGCCTTCTGACTCCAACAATGAAGGCGAAAAGGCCAGAGCTGCGGAACTATTTACAGTTCG
AGATAGATGACCTCTATTCCACTATCAAGGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239255 representing NM_001286711
 Red=Cloning site Green=Tags(s)

MQAHELFYFRMPPELVDFRQYVRTLPTNTLMGFGAFAAL TTFWYATRPKPLKPPCDLSMQSVEVAGSGGA
 RRSALLDSDEPLVYFYDDVTTL YEGFQRGIQVSNNGPCLGSRKPDQPYEWL SYKQWVIEQGCFAYSMVI
 VPLYDTLGNIAITYIVNKAELSLVFVDKPEKAKLLLEGVENKLIPGLKIIVMDAYGSEL VERGQRCGVE
 VTSMKAMEDLGRANRRKPKPPAPEDLAVICFTSGTTGNPKGAMVTHRNI VSDCSAFVKATENTVNPCDD
 TLI SFLPLAHMFERVVECVMLCHGAKIGFFQGDIRLLMDDLKVLQPTVFPVPRLLNRMFDRI FGQANTT
 LKRWLLDFASKRKEAELRSGIIRNNSLWDR LIFHKVQSSLGGRVRLMVTGAAPVSATVLTFLRAALGCQF
 YEGYGQTECTAGCCLTMPGDWTAGHVGAMPNCNLIKLVDVEEMNYMAAEGEGEVCKGPNVFGQYLKDP
 A KTAEALDKDGLHTGDIGKWL PNGTLKIIDRKKHIFKLAQGEYIAPEKIENIYMRSEPVAVFVHGESLQ
 AFLIAIVVPDVELTCSWAQKRGFEFSFEELCRNKDVKKAILEDMVRLGKDSGLKPFQVKGITLHPELFS
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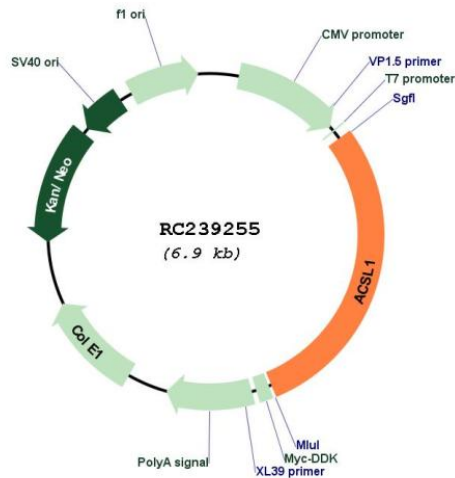
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286711

ORF Size: 1992 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001286711.2](#)

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:	74.7 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>