

## Product datasheet for **RC211883**

### ACSL6 (NM\_001009185) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_001009185) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSL6
Synonyms:	ACS2; FACL6; LACS2; LACS5; LACS 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC211883 representing NM\_001009185  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGACCTTCTCCTCGTGTGCGGGGGCTCCCTCTGGCTATTGCTAGAGTTTGTCTCTCACTTCTGG  
AGAAGATGCAGACACAGGAGATCCTGAGGATACTGCGACTGCCTGAGCTAGGTGACTTGGGACAGTTTTT  
CCGCAGCCTCTCGGCCACCACCCTCGTGTAGTATGGGTGCCCTGGCTGCCATCCTTGCCTACTGGTCACT  
CACCGGCCAAAGGCCCTTGCAGCCGCCATGCAACCTCCTGATGCAGTCAGAAGAAGTAGAGGACAGTGGCG  
GGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAGCTACTTACCCACTACTATGATGATGCCCGGACCAT  
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GCTAAGAGACCTGAGCTGAGAGAGTACTTCAAAAAACAAATAGAAGAGCTTTACTCAATCTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211883 representing NM\_001009185  
 Red=Cloning site Green=Tags(s)

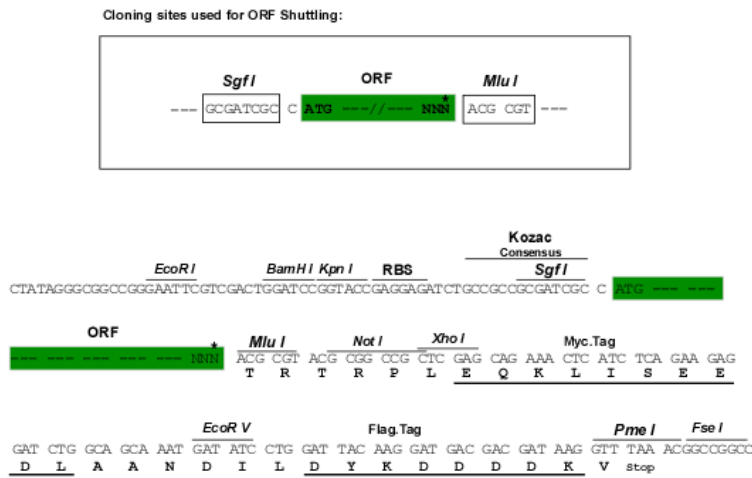
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 QPYQWLSYQEVADRAEFLGSGLLQHNCKACTDQFIGVFAQNRPEWIIVELACYTYSMVVPLYDTLGPGA  
 IRYIINTADISTVIVDKPQKAVLLLEHVERKETPGLKLIILMDPFEEALKERGQKCGVVIKSMQAVEDCG  
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 GCTFTTPGDWTS GHVGAPLPCNHIKLVDVEELNYWACKGEGEICVRGNVFKGYLKDPDRTEALDSDGW  
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 AKRPELREYFKQIEELYSISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8004\\_c09.zip](https://cdn.origene.com/chromatograms/mk8004_c09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_001009185

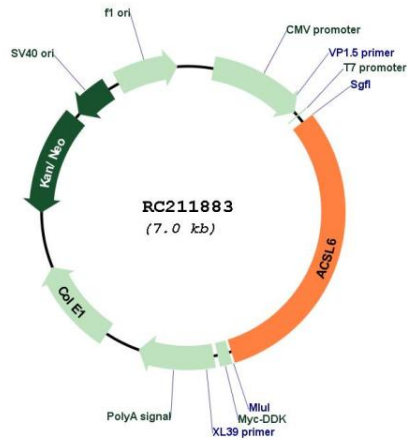
ORF Size: 2166 bp

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](#)

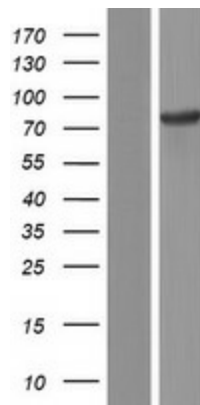
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u><a href="#">NM_001009185.3</a></u>
<b>RefSeq Size:</b>	3047 bp
<b>RefSeq ORF:</b>	2169 bp
<b>Locus ID:</b>	23305
<b>UniProt ID:</b>	<u><a href="#">Q9UKU0</a></u>
<b>Cytogenetics:</b>	5q31.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
<b>MW:</b>	80.4 kDa
<b>Gene Summary:</b>	The protein encoded by this gene catalyzes the formation of acyl-CoA from fatty acids, ATP, and CoA, using magnesium as a cofactor. The encoded protein plays a major role in fatty acid metabolism in the brain. Translocations with the ETV6 gene are causes of myelodysplastic syndrome with basophilia, acute myelogenous leukemia with eosinophilia, and acute eosinophilic leukemia. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Apr 2011]

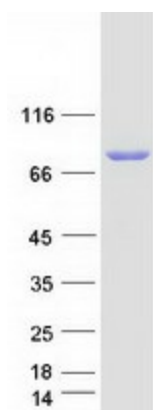
Product images:



Circular map for RC211883



Western blot validation of overexpression lysate (Cat# [LY422907]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211883 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACSL6 protein (Cat# [TP311883]). The protein was produced from HEK293T cells transfected with ACSL6 cDNA clone (Cat# RC211883) using MegaTran 2.0 (Cat# [TT210002]).