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Product datasheet for RC234715

ACSL6 (NM_001205247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_001205247) 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:

>RC234715 representing NM_001205247
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGACCTTCTTCCTCGTGTCGGGGGGCTCCCTCTGGCTATTCGTAGAGTTTGTCCTCTCACTTCTGG
AGAAGATGCAGACACAGGAGATCCTGAGGATACTGCGACTGCCTGAGCTAGGTGACTTGGGACAGTTTTT
CCGCAGCCTCTCGGCCACCACCCTCGACAGTGGCGGGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAG
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CGACAGGGCTGAATTTCTGGGGTCCGGACTTCTCCAGCACAATTGTAAAGCATGCACTGATCAGTTTATT
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CTCAAGCTGATCATCCTCATGGACCCATTCGAAGAAGCCCTGAAAGAGAGAGGGCAGAAGTGCGGGGTGG
TCATTAAGTCCATGCAGGCCGTGGAGGACTGTGGCCAAGAGAATCACCAGGCTCCTGTGCCCCCGCAGCC
TGATGACCTCTCCATTGTGTGTTTCACAAGCGGCACGACAGGGAACCCAAAAGGTGCGATGCTCACCCAT
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CGGAGGGCGTGTTGGCTTCTTCCAGGGAGATATCCGCCTTCTCTCAGATGACATGAAGGCTCTATGCCCC
ACCATCTTCCCTGTGGTCCCACGACTGCTGAACCGGATGTACGACAAGATCTTCAGCCAGGCAAACACAC
CATTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAGCGTAAGCAAGCCGAGGTCCGGAGTGGAATCATCAG
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TTAGGAAAAGAAAGTGGACTCCATTCTTTTGAGCAGGTTAAAGCCATTCACATCCATTCTGACATGTTCT
CAGTTCAAAATGGCTTGCTGACACCAACACTAAAAGCTAAGAGACCTGAGCTGAGAGAGTACTTCAAAAA
ACAAATAGAAGAGCTTTACTCAATCTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234715 representing NM_001205247
Red=Cloning site Green=Tags(s)

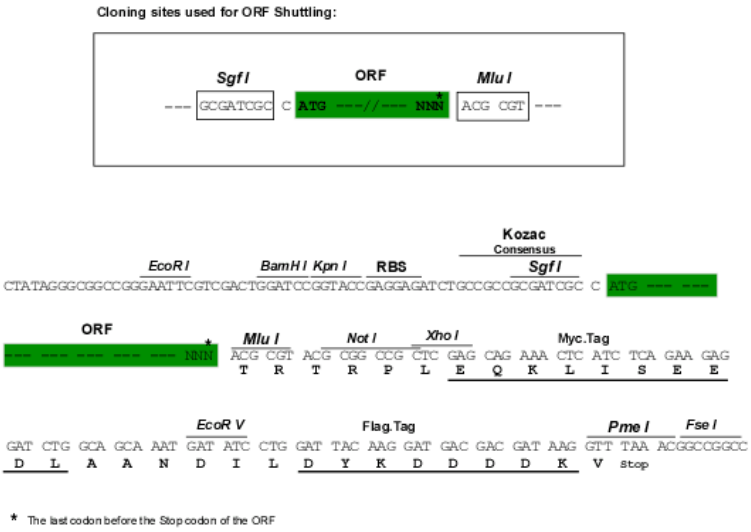
MLTFFLVSGGSLWLFVEFVLSLLEKMQTQEILRILRLPELGDLGQFFRSLSATTLDSGGARRSVIGSGPQ
LLTHYYDDARTMYQVFRRGLSISGNGPCLGFRKPKQPYQWLSYQEVADRAEFLGSGLLQHNCKACTDQFI
GVFAQNRPEWIIVELACYTYSMVVVPLYDTLGPGAIRYIINTADISTVIVDKPQKAVLLLEHVERKETPG
LKLIILMDPFEEALKERGQKCGVVIKSMQAVEDCGQENHQAPVPPQPDDLSIVCFTSGTTGNPKGAMLTH
GNVVADFSGFLKVTESQWAPTCADVHISYLPLAHMFERMVQSVVYCHGGRVGFFQGDIRLLSDDMKALCP
TIFPVVPRLLNRMYDKIFSQANTPLKRWLLEFAAKRKQAEVRSGIIRNDSIWDELFFNKIQASLGGCVRM
IVTGAAPASPTVLGFLRAALGCQVYEGYGQTECTAGCTFTTPGDWTSGHVGAPLPCNHIKLVDVEELNYW
ACKGEGEICVRGPNVFKGYLKDPDRTKEALDSDGWLHTGDIGKWLPAGTLKIIDRKKHIFKLAQGEYVAP
EKIENIYIRSQPVAQIYVHGDSLKAFLVGIVVPDPEVMPSWAQKRGIEGTYADLCTNKDLKKAILEDMVR
LGKESGLHSFEQVKAIHIHSDMFSVQNGLLTPTLKAKRPELREYFKKQIEELYSISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001205247

ORF Size:

2061 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:

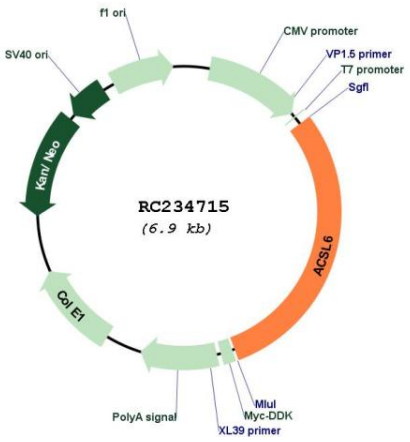
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001205247.2
RefSeq Size:	6449 bp
RefSeq ORF:	2064 bp
Locus ID:	23305
UniProt ID:	Q9UKU0
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
MW:	77.1 kDa
Gene Summary:	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 RC234715