

Product datasheet for **RC234590**

ACSL6 (NM_001205251) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_001205251) 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)



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ORF Nucleotide Sequence:

>RC234590 representing NM_001205251
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGACACAGGAGATCCTGAGGATACTGCGACTGCCTGAGCTAGGTGACTTGGGACAGTTTTTCCGCA
 GCCTCTCGGCCACCACCTCGACAGTGGCGGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAGCTACT
 TACCCACTACTATGATGATGCCCGACCATGTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAAT
 GGGCCCTGTCTTGGTTTCAGGAAGCCTAAGCAGCCTTACCAGTGGCTGTCTACCAGGAGGTGGCCGACA
 GGGCTGAATTTCTGGGTCCGACTTCTCCAGCACAATTGTAAGCATGCACTGATCAGTTTATTGGTGT
 TTTTGCACAAAATCGCCAGAGTGGATCATTGTGGAGCTGGCCTGCTACACATATTCATGGTGGTGGTC
 CCGCTCTATGACACCCTGGGCCCTGGGGCTATCCGCTACATCATCAATACAGCGGACATCAGCACCGTGA
 TTGTGGACAAACCTCAGAAGGCTGTGCTTCTGCTAGAGCATGTGGAGAGGAAGGAGACTCCAGGCCCTCAA
 GCTGATCATCCTCATGGACCCATTGCAAGAAGCCCTGAAAGAGAGAGGGCAGAAGTGCGGGTGGTCTATT
 AAGTCCATGCAGGCCGTGGAGGACTGTGGCCAAGAGAATCACCAGGCTCCTGTGCCCCCGCAGCCTGATG
 ACCTCTCCATTGTGTGTTTACAAAGCGGCACGACAGGGAACCCAAAAGGTGCGATGCTCACCCATGGGAA
 CGTGGTGGCTGATTTCTCAGGCTTTCTGAAAGTGACAGAGGGAGATATCCGCCTTCTCTCAGATGACATG
 AAGGCTCTATGCCCCACCATCTCCCTGTGGTCCCACGACTGCTGAACCGGATGTACGACAAGATCTTCA
 GCCAGGCAACACACCATTAAAGCGTGGCTCCTGGAGTTTGACAGCAAAGCGTAAGCAAGCCGAGGTCCG
 GAGTGGAAATCATCAGGAATGATAGTATCTGGGATGAACCTTCTTTAATAAGATTAGGCCAGTCTTGGT
 GGGTGTGTGCGGATGATTGTTACTGGAGCAGCCCAGCATCACCAACAGTCTGGGATTTCTCCGGGCAG
 CTCTAGGGTGCCAGGTTTATGAAGTTATGGCCAACTGAGTGACAGCTGGATGTACCTCACCACTCC
 TGGCGACTGGACCTCAGGGCACGTAGGGCGCCACTTCCCTGCAATCATATCAAGCTCGTTGATGTTGAG
 GAACTGAACTACTGGCCTGCAAAGGAGAGGGAGAGATATGTGTGAGAGGACCAAATGTGTTCAAAGGCT
 ACTTGAAGATCCAGACAGGACGAAGGAGGCCCTGGACAGCGATGGCTGGCTTCACTGGAGACATCGG
 AAAATGGCTGCCGCAGGAACTCTAAAATTATTGATCGGAAAAAGCATAATTTAACTTGCTCAGGGA
 GAATATGTTGCACCCGAGAAGATTGAGAACATCTACATCCGAGCCAACCTGTGGCGAAATCTATGTCC
 ATGGGGACAGCTTAAAGGCCTTTTTGGTAGGCATTGTTGTGCTGACCCTGAAGTTATGCCCTCCTGGGC
 CCAGAAGAGAGGAATTGAAGGAACATATGCAGATCTCTGCACAAAATAAGGATCTGAAGAAAGCCATTTG
 GAAGATATGGTGAAGTTAGGAAAAGAAAGTGGACTCCATTCTTTTGAAGCAGGTTAAAGCCATTACATCC
 ATTCTGACATGTTCTCAGTTCAAATGGCTTGCTGACACCAACACTAAAAGCTAAGAGACCTGAGCTGAG
 AGAGTACTTCAAAAAACAAATAGAAGAGCTTTACTCAATCTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234590 representing NM_001205251
 Red=Cloning site Green=Tags(s)

MQTQEILRILRLELPELGLDGLGQFFRSLSATTLDSGGARRSVIGSGPQLLTHYYDDARTMYQVFRRGLSISGN
 GPCLGFRPKQPYQWLSYQEVADRAEFLGSGLLQHNCKACTDQFIGVFAQNRPEWIVELACYTYSMVV
 PLYDTLPGAIRYIINTADISTVIVDKPQKAVLLLEHVERKETPGLKLIILMDPFEEALKERGQKCGVVI
 KSMQAVEDCGQENHQAPVPPQDDLSIVCFTSGTTGNPKGAMLTHGNVADFSGFLKVTEGDIRLLSDDM
 KALCPTIFPVPRLNRMVDKIFSQANTPLKRWLEFAAKRKQAEVRSIGIRNDSIWDELFFNKIQASLG
 GCVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTAGCTFTTPGDWTSGHVGAAPLPCNHKILVDVE
 ELNYWACKGEGEICVRGPNVFKGYLKDPDRKEALDSGWLHTGDIKWLPAGTLKIIDRKKHIFKLAQG
 EYVAPEKIENIYIRSQPVAQIYVHGDLSKAFLVGIVVPDPEVMPSWAQKRGIEGTADLCTNKDLKKAAIL
 EDMVRLGKESGLHSFEQVKAIHIHSDMFSVQNGLLTPTLKAKRPELREYFKKQIEELYSISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001205251

ORF Size: 1866 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_001205251.1](#), [NP_001192180.1](#)

RefSeq Size: 6316 bp

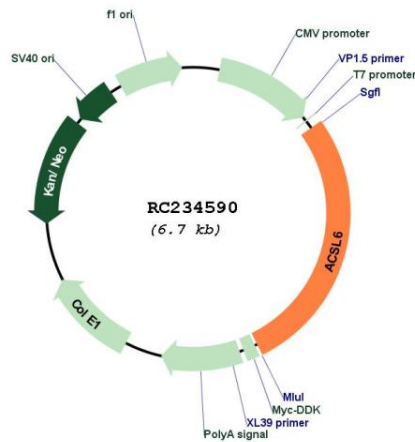
RefSeq ORF: 1869 bp

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: 69.7 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 RC234590