

Product datasheet for **RG234715**

ACSL6 (NM_001205247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_001205247) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSL6
Synonyms:	ACS2; FACL6; LACS2; LACS5; LACS 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234715 representing NM_001205247
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACCTTCTCCTCGTGTGCGGGGGCTCCCTCTGGCTATTGCTAGAGTTTGTCTCTCACTTCTGG
 AGAAGATGCAGACACAGGAGATCCTGAGGATACTGCGACTGCCTGAGCTAGGTGACTTGGGACAGTTTTT
 CCGCAGCCTCTCGGCCACCACCCTCGACAGTGGCGGGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAG
 CTACTTACCCACTACTATGATGATGCCCGACCATGTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAG
 GGAATGGGCCCTGTCTTGGTTTCAGGAAGCCTAAGCAGCCTTACCAGTGGCTGTCTACCAGGAGGTGGC
 CGACAGGGCTGAATTTCTGGGTCCGACTTCTCCAGCACAATTGTAAAGCATGCACTGATCAGTTTATT
 GGTGTTTTTGCACAAAATCGGCCAGAGTGGATCATTGTGGAGCTGGCCTGCTACACATATCCATGGTGG
 TGGTCCCCTCTATGACACCCTGGGCCCTGGGGCTATCCGCTACATCATCAATACAGCGGACATCAGCAC
 CGTGATTGTGGACAAACCTCAGAAGGCTGTGCTTCTGCTAGAGCATGTGGAGAGGAAGGAGACTCCAGGC
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 TCATTAAGTCCATGCAGGCCGTGGAGGACTGTGGCCAAGAGAATCACCAGGCTCCTGTGCCCCCGCAGCC
 TGATGACCTCTCCATTGTGTGTTTCAAAAGCGCACGACAGGGAACCCAAAAGGTGCGATGCTCACCCAT
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 ACAGGACGAAGGAGGCCCTGGACAGCGATGGCTGGCTTACACTGGAGACATCGGAAAATGGCTGCCGGC
 AGGAACTCTTAAATTTGATCGGAAAAAGCATATATTTAAACTTGCTCAGGGAGAATATGTTGCCCC
 GAGAAGATTGAGAACATCTACATCCGGAGCCAACCTGTGGCGCAAATCTATGTCCATGGGGACAGCTTAA
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 TGAAGGAACATATGCAGATCTCTGCACAAATAAGGATCTGAAGAAAGCCATTTTGAAGATATGGTGAGG
 TTAGGAAAAGAAAGTGGACTCCATTCTTTTGTGAGCAGGTTAAAGCCATTACATCCATTCTGACATGTTCT
 CAGTTCAAAATGGCTTGTGACACCAACTAAAAGCTAAGAGACCTGAGCTGAGAGAGTACTTCAAAAA
 ACAAATAGAAGAGCTTTACTCAATCTCCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234715 representing NM_001205247
 Red=Cloning site Green=Tags(s)

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MLTFFLVSGGSLWLFVEFVLSLLEKMQTQEILRILRLPELGDLGQFFRSLSATLDSGGARRSVIGSGPQ
LLTHYYDDARTMYQVFRRLSISGNPCLGFRPKQPYQWLSYQEVADRAEFLGSGLLQHNCACDQFI
GVFAQNRPEWIIIVELACYTYSMVVPLYDTLGPGAIRYIINTADISTVIVDKPQKAVLLLEHVERKETPG
LKLIIILMDPFEEALKERGQKCGVVIKSMQAVEDCGQENHQAPVPPQDDLSIVCFSTSGTTGNPKGAMLTH
GNVVADFSGFLKVTESQWAPTCADVHISYPLAHMFERMVQSVVYCHGGRVGFQGDIRLLSDDMKALCP
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IVTGAAPASPTVLGFLRAALGCQVYEGYQTECTAGCTFTTPGDWTSGHVGPALPCNHIKLVDEEELNYW
ACKGEGEICVVRGNVFKGKYLKDPDRTEALDSDGWLHTGDIGKWLPAAGTLKIIDRKKHIFKLAQGEYVAP
EKIENIYIRSQVVAQIYVHGDLSKAFVLGIVVPDPEVMPSWAQKRGIEGTADLCTNKDLKKAILEDMVR
LGKESGLHSFEQVKAIHIHSDMFSVQNGLLTPTLAKRPELREYFKKQIEELYSISM
  
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TRTRPLE - GFP Tag - V

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](#)

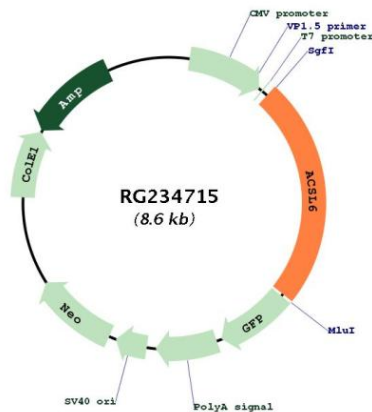
Cytogenetics: 5q31.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

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 RG234715