

Product datasheet for **RG234753**

ACSL6 (NM_001205250) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_001205250) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RG234753 representing NM_001205250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGAGTTTGTCTCTCACTTCTGGAGAAGATGCAGACACAGGAGATCCTGAGGATACTGCGACTGC
CTGAGCTAGGTGACTTGGGACAGTTTTTCCGCAGCCTCTCGGCCACCACCCTCGTGAGTATGGGTGCCCT
GGTGCCATCCTTGCCTACTGGTCACTCACCGGCCAAAGGCCTTGCAGCCGCCATGCAACCTCCTGATG
CAGTCAGAAGAAGTAGAGGACAGTGGCGGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAGCTACTTA
CCCCTACTATGATGATGCCCGGACCATGTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGG
GCCCTGTCTTGGTTTCAGGAAGCCTAAGCAGCCTTACCAGTGGCTGTCTACCAGGAGGTGGCCGACAGG
GCTGAATTTCTGGGGTCCGGACTTCTCCAGCACAATTGTAAGCATGCACTGATCAGTTTATTGGTGT
TTGCACAAAATCGGCCAGAGTGGATCATTGTGGAGCTGGCCTGCTACACATATTCATGGTGGTGGTCCC
GCTCTATGACACCCTGGGCCCTGGGGCTATCCGCTACATCATCAATACAGCGGACATCAGCACCGTGATT
GTGGACAAAACCTCAGAAGGCTGTCTTCTGCTAGAGCATGTGGAGAGGAAGGAGACTCCAGGCCCAAGC
TGATCATCCTCATGGACCCATTGAAAGAGCCCTGAAAGAGAGAGGGCAGAAGTGCAGGGGTGGTCAATTA
GTCCATGCAGGCCGTGGAGGACTGTGGCCAAGAGAATCACCAGGCTCCTGTGCCCCCGCAGCCTGATGAC
CTCTCCATTGTGTGTTTCAAGCGGCACGACAGGGAACCCAAAAGGTGCGATGCTCACCATGGGAACG
TGGTGGCTGATTTCTCAGGCTTCTGAAAGTGACAGAGAAAGTATCTTCCGAGACAGGACGATGTGCT
CATCTCCTTCTGCTCTGGCTCACATGTTGAGAGAGTAATCCAGTCTGTCGTCTATTGCCACGGAGGG
CGTGTGGCTTCTCCAGGGAGATACCGCCTTCTCAGATGACATGAAGGCTCTATGCCCCACCATTA
TCCCTGTGGTCCCACGACTGCTGAACCGGATGTACGACAAGATCTTCAGCCAGGCAACACACCATTAAA
GCGCTGGCTCCTGGAGTTTGCAGCAAAGCGTAAGCAAGCCGAGGTCCGGAGTGAATCATCAGGAATGAT
AGTATCTGGGATGAACTTCTTTAATAAGATTACAGCCAGTCTTGGTGGGTGTGTGCGGATGATTGTTA
CTGGAGCAGCCCCAGCATACCAACAGTTCTGGGATTTCTCCGGGCAGCTCTAGGGTGCCAGTTTATGA
AGGTTATGGCCAACTGAGTGCACAGCTGGATGTACCTTACCACCTCCTGGCGACTGGACCTCAGGGCAC
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GAAGGAGGCCCTGGACAGCGATGGCTGGCTTCACTGGAGACATCGGAAAATGGCTGCCGGCAGGAACT
CTTAAAATTATTGATCGGAAAAAGCATATATTTAACTTGCTCAGGGAGAATATGTTGCACCCGAGAAGA
TTGAGAACATCTACATCCGGAGCCAACCTGTGGCGCAAATCTATGTCCATGGGGACAGCTTAAAGGCCTT
TTTGGTAGGCATTGTTGTGCCTGACCCTGAAGTTATGCCCTCCTGGGCCAGAAGAGAGGAATTGAAGGA
ACATATGCAGATCTGCACAAATAAGGATCTGAAGAAAGCCATTTTGAAGATATGGTGAAGTTAGGAA
AAGAAAGTGGACTCCATTCTTTGAGCAGGTTAAAGCCATTACATCCATTCTGACATGTTCTCAGTTCA
AAATGGCTTGCTGACACCAACACTAAAAGCTAAGAGACCTGAGCTGAGAGAGTACTTCAAAAAACAATA
GAAGAGCTTTACTCAATCTCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234753 representing NM_001205250
Red=Cloning site Green=Tags(s)

MPEFVLSLLEKMQTQEILRILRLPELGDLGQFFRSL SATTLVSMGALAAIAYWFTHRPKALQPPCNLLM
 QSEEVEDSGGARRSVIGSGPQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPKQPYQWLSYQEIVADR
 AEFLGSGLLQHNCACDQFIGVFAQNRPEWIIIVELACYTYSMVVPLYDTLGPGAIRYIINTADISTVI
 VDKPQKAVLLLEHVERKETPGLKLIILMDPFEEALKERGQKCGVVIKSMQAVEDCGQENHQAPVPPQDD
 LSIVCFSTSGTTGNPKGAMLTGHNVAADFSGFLKVTEKVIFFPRQDDVLISFLPLAHMFERVIQSVVYCHGG
 RVGFFQGDIRLLSDDMKALCPTIFPVVPRLLNRMVDKIFSQANTPLKRWLLLEFAAKRKQAEVRSIGIIRND
 SIWDELFFNKIQASLGCVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTAGCTFTTPGDWTS GH
 VGAPLPCNHKLVDEELNYWACKGEGEICVRGPNVFKGYLKDPDRTEALDSDGWLHTGDIGKWLPA GT
 LKIIDRKKHIFKLAQGEYVAPEKIENIYIRSQPVAQIYVHGD SLKAFLVGIVVPDPEVMPSWAQKRGIEG
 TYADLCTNKDLKKAILED MVRLGKESGLHSFEQVKAIHIHSDMF SVQNGLLTPTLKAKRPELREYFKKQI
 EELYSISM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001205250

ORF Size: 2124 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_001205250.1](#), [NP_001192179.1](#)

RefSeq Size: 6551 bp

RefSeq ORF: 2127 bp

Locus ID: 23305

UniProt ID: [Q9UKU0](#)

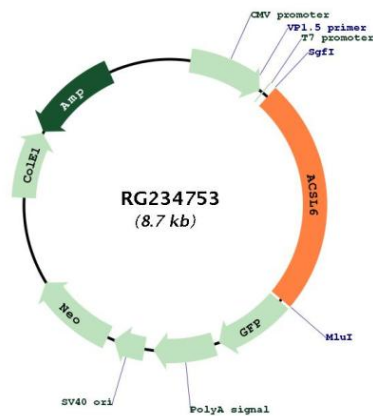
Cytogenetics: 5q31.1

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 RG234753