

Product datasheet for **RG201076**

ACSL5 (NM_016234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL5 (NM_016234) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSL5
Synonyms:	ACS2; ACS5; FACL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG201076 representing NM_016234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACCACGAGCGAGGGAAGAAGGACAGGGACTCGTGTG
GCAGGAAGAACTCAGAGCCGGGAAGCCCCATTACTAGAAAGCACTGAGAGATGCGGCCCCCTCGCAGGG
TCTGAATTTCTGCTGCTGTTCAAAAAGATGCTTTTTATCTTTAACTTTTTGTTTTCCCCACTTCGACC
CCGGCGTGTATCTGCATCCTGACATTTGGAGCTGCCATCTTCTGTGGCTGATCACCAGACCTCAACCCG
TCTTACCTCTTCTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGAAGGGGTTTCCCA
GAAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGTTTTCCAAAGAGGA
CTCGCTGTGTCTGACAATGGGCCCTGCTGGGATATAGAAAACCAACCAGCCCTACAGATGGCTATCTT
ACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCTGTCTTGCATAAAGGTTATAAATCATCACC
AGACCAGTTTGTGGCATCTTTGCTCAGAATAGGCCAGAGTGGATCATCTCCGAATTGGCTTGTACACG
TACTCTATGGTAGCTGTACCTCTGTATGACACCTTGGGACCAGAAGCCATCGTACATATTGTCAACAAGG
CTGATATCGCCATGGTGATCTGTGACACACCCCAAAAGGCATTGGTGTCTGATAGGGAATGTAGAGAAAGG
CTTCACCCCGAGCCTGAAGGTGATCATCCTTATGGACCCCTTGTATGATGACCTGAAGCAAGAGGGGAG
AAGAGTGGAAATTGAGATCTTATCCCTATATGATGCTGAGAACCTAGGCAAGAGCACTTCAGAAAACCTG
TGCCTCTAGCCCAGAAGACCTGAGCGTCATCTGCTTACCAGTGGGACCACAGGTGACCCCAAGGAGC
CATGATAACCCATCAAAAATTTGTTTCAAATGCTGCTGCCTTCTCAAATGTGTGGAGCATGCTTATGAG
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GACTTTGAAGCCACATTGTTTTCCCGCGGTGCCTCGACTCCTAACAGGATCTACGATAAGGTACAAAAT
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CATGAACTACTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTCAAAGGATAC
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CCAAGCTTGGGGTGAAGGGCTCCTTTGAGGAAGTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTGA
AGACTTGAGAAAATTTGGAAAGAAAGTGGCCTTAAAACCTTTTGAACAGGTCAAAGCCATTTTCTTCAT
CCAGAGCCATTTCCATTGAAAATGGGCTTTGACACCAACATTGAAAGCAAAGCGAGGAGAGCTTTCCA
AATACTTTCCGACCCAAATTGACAGCCTGTATGAGCACATCCAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201076 representing NM_016234
Red=Cloning site Green=Tags(s)

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MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNFLLLFTKMLFIFNFLFSPLPT
PALICILTFGAAIFLWLITRPQVPLPLDLNNQSVGIEGGARKGVSQKNDLTSCCFSDAKTMYEVFQRG
LAVSDNGPCLGYRKPYPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISELACYT
YSMVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIIGNVEKGFTPSLKVIIILMDPFDDDLKQRGE
KSGIEILSLYDAENLKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIIVSNAAAFKLCVEHAYE
PTPDDVAISYLPLAHMFERIVQAVVYSCGARVGGFFQGDIRLLADDMKTLPKPTLFPVAVPRLLNRIYDKVQN
EAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAKIQDSLGGVRVIVTGAAPMSTSVMTFFRAA
MGCQVYEAQGQTECTGGCTFTLPGDWTSGHVGVPLACNYVKLEADVADNMYFTVNNEGEVCIKGTNVFKGY
LKDPEKTQEALDSGWLHTGDIGRWLPNGTLKIIDRKNIFKLAQGEYIAPEKIENIYNRSQVPLQIFVH
GESLRSSLVGVVVPD TDVLP SFAAKLVGKGSFEELCQNQVVREAILEDLQKIGKESGLKTFEQVKAIFLH
PEPFSIENGLLTPTLKAKRGELSKYFRTQIDSLYEHIQD
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016234

ORF Size: 2217 bp

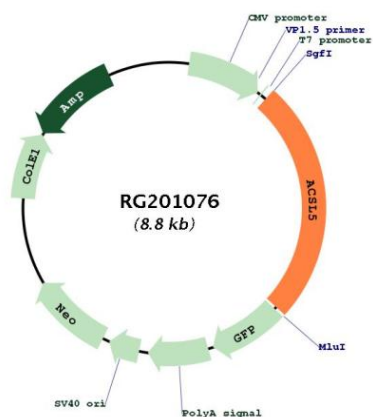
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_016234.3 , NP_057318.2
RefSeq Size:	3372 bp
RefSeq ORF:	2220 bp
Locus ID:	51703
UniProt ID:	Q9ULC5
Cytogenetics:	10q25.2
Domains:	AMP-binding
Protein Families:	Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	<p>The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in uterus and spleen, and in trace amounts in normal brain, but has markedly increased levels in malignant gliomas. This gene functions in mediating fatty acid-induced glioma cell growth. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG201076