

Product datasheet for **MC201437**

AcsI5 (NM_027976) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AcsI5 (NM_027976) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	AcsI5
Synonyms:	1700030F05Rik; ACS2; ACS5; FacI5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031544 sequence for NM_027976
 TGCATGTCAGAAAGCCCGGCTATGGCCTGGCTGGGACAGATCAGGGCAGGGCAGAAAGTGGGGCCACTAGC
 CAGGCTGCCTGCCTGCCTGCCTGCATGGACGCTCTGAAGTCACCCCTGCCCGGAGAAAGCCCGGGGTGAG
 GAAGGGAGGACCGGGGCTCTCCTGCCAGCAAGAAGCCGGAGCCAGAAAGCCTCACTCGGAAGCTCCAAGG
 CGTGCGTGGCCCTTCCCAGGGTCTGAATTTCTGTTGGTATTCACAAAGATGCTTTTTATTTTAACT
 TCTTGTTCCTCACTTCCAACCTCCGGCCCTGATCTGCCTCCTGACGTTTGAACGGCCATCTTCTGTG
 GCTGATCAACAGACCTCAGCCAGTTTTACCTCTCATTGACTTGGACAACCAAGTCTGTGGGATTGAGGGA
 GGAGCACGGAGGGCGCTTCCAGAAGAACAATGACCTAATCCTTTATTACTTCTCAGACGCAAGACGT
 TGTATGAAAATTTCCAAAGAGGACTTGCTGTGTCTGACAATGGGCCTTGCTTGGGATACAGAAAGCCAAA
 CCAGCCCTACAAATGGATCTCTACAAACAGGTGTCTGATCGAGCAGAGTACCTGGGCTCCTGTCTTTTG
 CATAAAGGATATAAGTCATCACAGGACCAATTTGTTGGCATCTTTGCTCAAAATAGGCCAGAGTGGGTCA
 TCTCTGAGTTAGCCTGTTACACATATCCATGGTAGCTGTCCCTGTATGACACGCTGGGTACAGAAGC
 CATCATCTTTGTCATCAACAGGGCTGATATCCCTGTGGTATCTGTGATACCCCCAAAAGGCAACAATG
 CTAGTAGAAAATGTGAAAAGGGCTCACACCAGGCTGAAGACGATCATCCTCATGGACCTTTTGATG
 ACGACCTGATGAAAAGAGGAGAAAAGTGTGGAGTTGAGATGTTATCCCTGCATGATGCGGAGAATATAGG
 CAAAGAGAACTTCAAAAACCAAGTGCCTCCGAAGCCAGAGGATCTGAGCGTCATCTGTTTACCAGTGGA
 ACTACAGGTGACCCAAAAGGAGCTATGCTAACCATGAAAATGTTGTTTCAAACATGGCTGCTTCTCTCA
 AATTTCTGGAGCCTATCTTCCAGCCACCTCTGATGATGTGACCATATCCTACCTTCCCTTGGCTCATAT
 GTTTGAGAGGCTTGTCAGGGTATCTTATTTTCTGTGGAGGCAAAATGGGTTCTTCCAAGGAGATATC
 CGGTTGCTACCTGATGACATGAAGGCTTGAACCCACAGTGTTCCTACAGTGCCTCGACTCCTTAACA
 GGGTCTATGATAAGGTACAAAATGAAGCCAAGACACCTTTGAAGAAGTCTTGTGAACTTGGCTATCAT
 CAGTAAATCAATGAAGTAAAAATGGCATCATTCGGCGGGACAGTTTGTGGACAAGCTCGTGTTTTCA
 AAGATCAAGGAAGCCTGGGGGGAAGTTCCGCTCATGATCACTGGAGCCGCCCCATCTCCACTCCAG
 TCTTGACATTCTCAGGGCTGCAATGGGATGTTGGGTGTTTGAAGCTTATGGCCAAAACAGAATGCACAGG
 TGGATGTTCAATTACATCACCTGGGACTGGACAGCAGGTGATGTTGGGACTCCAGTGGCTTCAATTTT
 GTAAGCTGGAAGATGTGGCTGACATGAACTACTTTTTCAGTAAACAACGAAGGCGAGATCTGCATCAAAG
 GTAACAATGTGTTCAAAGGCTACCTAAAGGACCCAGAGAAAACACAGGAAGTACTGGACAAGGATGGATG
 GCTTCACTGGGACATTGGTCGCTGGCTTCAAATGGAACCTGAAAATGTTGACCGGAAGAAGAAT
 ATTTTCAAGTTGGCACAAGGAGAATACATTGCCCCAGAGAAGATTGAAAATGTTTATTCCAGGAGCAGAC
 CAGTATTGCAAGTTTTTGTCCATGGGAGAGCTTACGGTCATTCTGATCGGAGTGGTGGTTCCCGACCC
 AGATTCATTTCCCTCATTTGAGCCAAGATCGGGTAAAGGGATCATTTGAAGAAGTGTGCAAAAACCAA
 TGTGTAAGGAAGCCATTTAGAAAGACTTGAGAAAATGGGAAAAGGGTGGCCTGAAATCCTTTGAGC
 AGGTCAAAAGTATCTTTGTGCATCCAGAGCCCTTCACTATTGAAAACGGACTTCTGACACCGACACTGAA
 AGCCAAACGAGTAGAGCTTGCCAAGTCTTCCAGACACAAATCAAGAGCCTCTATGAGAGCATCGAGGAG
 TAGTAGCTTAAGTTTGTGAGCTGGAAGCTGTGGGGGAAGAAGTGGAACTATGTCCAGTGAACCTTTCC
 AGTAAATGAAGCAAGCACTAAAGTACTGTCTGAGTTGGGAACAAAGCACTGTGGGCAAGGTCGATGCAA
 TGCCCTGCACTACAGGCCTGTCTTCTGTGGATCTCTCCTTGGCCTTCACTCCCTGCAGTATTTTACTGT
 CAGATAGCATGTGGTGCCTTACTTGAAAATGTCAAATCTTTGAAATAAACTATTACAGATAAAAAAAAAA AAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_027976
- Insert Size:** 2052 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC031544](#), [AAH31544](#)

RefSeq Size: 2597 bp

RefSeq ORF: 2052 bp

Locus ID: 433256

UniProt ID: [Q8JZR0](#)

Cytogenetics: 19 D2

Gene Summary: Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL5 may activate fatty acids from exogenous sources for the synthesis of triacylglycerol destined for intracellular storage (By similarity). It was suggested that it may also stimulate fatty acid oxidation (By similarity). At the villus tip of the crypt-villus axis of the small intestine may sensitize epithelial cells to apoptosis specifically triggered by the death ligand TRAIL (By similarity). May have a role in the survival of glioma cells (By similarity). Utilizes a wide range of saturated fatty acids with a preference for C16-C18 unsaturated fatty acids (By similarity).[UniProtKB/Swiss-Prot Function]