

Product datasheet for **MR210022**

AcsI5 (NM_027976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AcsI5 (NM_027976) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AcsI5
Synonyms:	1700030F05Rik; ACS2; ACS5; FacI5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210022 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTTTTATTTTAACTTCTGTGTTTTCCCCTTCCAACCTCCGGCCCTGATCTGCCTCCTGACGTTTG
GAACGGCCATCTTCTGTGGCTGATCAACAGACCTCAGCCAGTTTACCTCTCATTGACTTGGACAACCA
GTCTGTGGGGATTGAGGGAGGAGCACGGAGGGCGCTTCCAGAAGAACAATGACCTAATCCTTTATTAC
TTCTCAGACGCCAAGACGTTGTATGAAAATTTCCAAAGAGGACTTGCTGTGTCTGACAATGGGCCTTGCT
TGGGATACAGAAAGCCAAACCAGCCCTACAAATGGATCTCCTACAAACAGGTGTCTGATCGAGCAGAGTA
CCTGGGCTCCTGTCTTTGCATAAAGGATATAAGTCATCACAGGACCAATTTGTTGGCATCTTTGCTCAA
AATAGGCCAGAGTGGGTCATCTCTGAGTTAGCCTGTTACACATATTCATGGTAGCTGTCCCCTGTATG
ACACGCTGGGTACAGAAGCCATCATCTTTGTCATCAACAGGGCTGATATCCCTGTGGTCATCTGTGATAC
ACCCAAAAGGCAACAATGCTAGTAGAAAATGTGAAAAGGGCCTCACACCAGGCTGAAGACGATCATC
CTCATGGACCCTTTTGTGACGACTGATGAAAAGAGGAGAAAAGTGTGGAGTTGAGATGTTATCCCTGC
ATGATGCGGAGAATATAGGCAAAGAGAACTTCAAAAAACAGTGCCTCCGAAGCCAGAGGATCTGAGCGT
CATCTGTTTACCAGTGGAACTACAGGTGACCCAAAAGGAGCTATGCTAACCCATGAAAATGTTGTTTCA
AACATGGCTGCTTTCCTCAAATTTCTGGAGCCTATCTCCAGCCACCTCTGATGATGTGACCATATCCT
ACCTTCCCTTGGCTCATATGTTTGAGAGGCTTGTCCAGGGTATCTTATTTTCTGTGGAGGCAAAATGG
GTTCTTCCAAGGAGATATCCGGTTGCTACCTGATGACATGAAGGCTTTGAAACCCACAGTGTTCCTACA
GTGCCTCGACTCCTTAAACAGGCTATGATAAGGTACAAAATGAAGCAAGACACCTTTGAAGAAGTTCT
TGTTGAACCTGGCTATCATCAATAATCAATGAAGTAAAAATGGCATCATTGCGCGGGACAGTTTGTG
GGACAAGCTCGTGTTTTCAAAGATTCAAGGAAGCCTGGGGGGAAAGTTTCGCCTCATGATCACTGGAGCC
GCCCCATCTCCACTCCAGTCTTGACATTCTTCAGGGCTGCAATGGGATGTTGGGTGTTTGAAGCTTATG
GCCAAACAGAATGCACAGGTGGATGTTCAATTACATCACCTGGGACTGGACAGCAGGTCATGTTGGGAC
TCCAGTGGCTTGCAATTTGTAAAGCTGGAAGATGTGGCTGACATGAACTACTTTTTCAGTAAACAACGAA
GGCGAGATCTGCATCAAAGGTAACAATGTGTTCAAAGGCTACCTAAAGGACCCAGAGAAAACACAGGAAG
TACTGGACAAGGATGGATGGCTTACACTGGGGACATTGGTCGCTGGCTTCCAAATGGAAGTCTGAAAAT
TGTTGACCGAAGAAGAATATTTTCAAGTTGGCACAAGGAGAATACATTGCCCCAGAGAAGATTGAAAAT
GTTTATCCAGGAGCAGACCAGTATTGCAAGTTTTTGTCCATGGGGAGAGCTTACGGTCATTCTCTGATCG
GAGTGGTGGTTCCCGACCCAGATCACTTCCCTCATTGTCAGCCAAGATCGGGGTAAGGGATCATTGGA
AGAACTGTGAAAAACCAATGTGTAAGGAAGCCATTTTGAAGACTTGCAGAAAATTTGGAAAAGAGGGT
GGCCTGAAATCCTTTGAGCAGGTCAAAGTATCTTTGTGCATCCAGAGCCCTTCACTATTGAAAACGGAC
TTCTGACACCGACTGAAAGCCAAACGAGTAGAGCTTGCCAAGTTCTTCCAGACACAAATCAAGAGCCT
CTATGAGAGCATCGAGGAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210022 protein sequence
 Red=Cloning site Green=Tags(s)

MLFIFNFLFSPLPTPALICLLTFGTAIFLWLINRPQVPLPLIDLNDQSVGIEGGARRGAFQKNNDLILYY
 FSDAKTLYENFQRGLAVSDNGPCLGYRKNQPYKWI SYKQVSDRAEYLGSCLLHKGKSSQDQFVGIFAQ
 NRPEWVISELACYTYSMVAVPLYDTLGTETAIIFVINRADIPVVICDTPQKATMLVENVEKGLTPGLKTII
 LMDPFDDDLMKRGEKCGVEMLSLHDAENIGKENFKKPVPPKPEDLSVICFTSGTTGDPKGAMLTENVVS
 NMAAFLKFLFPIFQPTSDDVTISYLP LAHMFERLVQGILFSCGGKIGFFQGDIRLLPDDMKALKPTVFPT
 VPRLLNRVYDKVQNEAKTPLKFKLLNLAIISKFNKNGIIRRDSDLWDLVFSKIQGS LGKVRMLITGA
 APISTPVLTFRAAMGCWFEAYGQTECTGGCSITSPGDWTAGHVGPVACNFVKLEDVADMNYFSVNNE
 GEICIKGNVFKGYLKDPEKTQEVLDKDGWLHTGDI GRWLPNGTLKIVDRKKNIFKLAQGEYIAPEKIEI
 VYSRSPVLQVFVHGESLRSFLIGVVVDPDPSLPSFAAKIGVKGSFEELCKNQCCKEAILEDLQKIGKEG
 GLKSFEQVKSIFVHPEPFTIENGLLTPTLAKRVELAKFFQTQIKSLYESIEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_027976

ORF Size: 2052 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_027976.2](#), [NP_082252.1](#)

RefSeq Size: 3167 bp

RefSeq ORF: 2052 bp

Locus ID: 433256

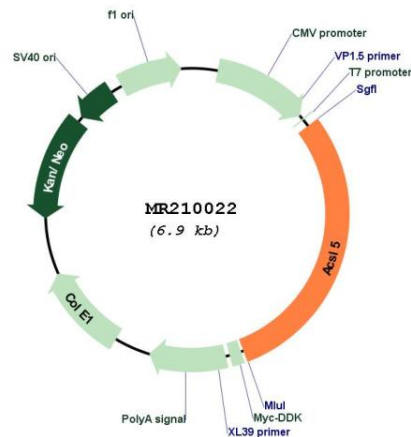
UniProt ID: [Q8JZR0](#)

Cytogenetics: 19 D2

MW: 76.2 kDa

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]

Product images:



Circular map for MR210022