

## Product datasheet for **MR230975**

### **AcsI3 (NM\_001033606) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AcsI3 (NM_001033606) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AcsI3
Synonyms:	2610510B12Rik; Acs3; C85929; FacI3; Pro2194
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230975 representing NM\_001033606  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATAACCACGTATCTTCAACACCATCAACCATGAAGCTAAAAACAAACCATCAACCCATACTTTTAT  
 ATTTTCATACATTTTATAATATCACTCTATACTATTTTAAACATACATCCCATTTTATTTTTTGTGTGAGTC  
 AAAACAAGAGAAACCAAACCAAATTAAGCAAAACCTGTCAAGTCCAAACCGGACTCTGCATACAGATCT  
 ATCAACAGTGTGGATGGCTTGGCTTCAGTGTGTATCCTGGCTGCGATACACTTGATAAAGTCTTTATGT  
 ATGCAAAAAACAAATTTAAAAACAAAAGACTATTGGGAACACGTGAAATTTTAAATGAGGAAGATGAAAT  
 ACAGCCAAATGGAAAAATTTTAAAAAGGTTATTCTGGGGCACTATAATTGGCTTTCCTATGAAGATGTC  
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 TCTTCTGTGAGACCAGGGCTGAGTGGATGATCGCTGCACAGGCGTGTATGTATAACTCCAGCTTGT  
 TACACTGTATGCTACTCTGGGAGGTCCAGCCATTGTTTCATGGACTGAATGAGACAGAGGTGACCAACATC  
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 TCATTACTGTTGATGGGAAGCCTCCAACCTGGTCTGAGTTCCTCCAAAGGTGTCATTGTACACACCATGGC  
 TGCAGTGCAGGCTCTAGGAGTGAAGGCCAACGTGGAAAAGAAAGCTCACAGCAAACCACTGCCCTCAGAT  
 ATTGCAGTAATCATGTACACAAGTGGGTCCACAGGAATTCCAAAGGGAGTCATGATCTCACACAGCAACA  
 TCATTGCTTCTATAACGGGGATGGCGAGAAGGATTCCAAGACTGGGAGAGGAAGATGTGTATATTGGCTA  
 CTTGCCCTGGCAGATGTTCTAGAATTAAGTGTGAGCTTGTGTGCTTTTCTCATGGATGCCGAATCGGC  
 TACTCTTACCACAGACATTAGCAGATCAGTCTTCAAAAAATAAAAAAGGAAGCAAAGGAGACACATCCG  
 TGCTGAAGCCAACTGATGGCAGCTGTTCCGAAATCATGGATCGGATCTACAAAAATGTCATGAATAA  
 AGTGAATGAAATGAGTGTCTTTCAACGAAACTGTTTATTTTGGCATATAATTATAAGATGGAACAGATT  
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 GACTACAATACCGGCAGAGTGGGAGCACCATTAGTTTGTGTGAAATCAAATTAAGAACTGGGAGGAAG  
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 AGATAACATTTGTGCGTATGCAACAGCTACCATTCTTACGTAATTGGGTTTGTGTGCCAAATCAAAG  
 GAATTTACAGAGCTAGCTAGAACAAAAGGATTTAAAGGAACTTGGGAAGAGCTGTGTAACAGCAGCGAGA  
 TGGAAAATGAGGTCTTAAAGTGTCTTCTGAAGCTGCTATTTAGCAAGTCTGAAAAAGTTTGAATTTCC  
 ACTAAAAATACGTTTGTAGCCCTGACCCATGGACTCCCGAAACTGGTCTGGTGACAGATGCCTTCAAGTTG  
 AAACGTAAGAGCTTAAAAACACTACCAGGCAGACATTGAGCGGATGTATGGAAGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230975 representing NM\_001033606  
 Red=Cloning site Green=Tags(s)

MNNHVSSTPSTMKLKQITNPILLYFIHFIIISLYTILTYIPFYFLCESKQEKPNQIKAKPVSSKPDAYSRS  
 INSVDDLASVLYPGCDTLDKVFMYAKNFKFNKRLGTREILNEEDEIQPNGKIFKKVILGHYNWLSYEDV  
 FIRALDFGNLQMLGQPKANIAIFCETRAEWMIAAQACFMYNFQLVTL YATLGGPAIVHGLNETEVTNI  
 ITSKELLQTKLKDIVSLVPRLRHIITVDGKPPWTSEFPKGVIVHTMAAVQALGVKANVEKKAHSPKLP  
 IAVIMYTSSTGIPKGVMI SHSNI IASITGMARRIPRLGEEDVYIGYLPLAHVLELSAELVCLSHGCRIG  
 YSSPQTLADQSSKIKKSGKSDTSVLKPTLMAAVPEIMDRIYKNVMNKNVEMSAFQRNLFILAYNYKMEQI  
 SKGCSTPLCDRFVFRNVRLLGGNIRLLLCGGAPLSATTQRFMNICCCPVGGYGLTESTGAGTITEVW  
 DYNTGRVGAPLVCCEIKLNWEEGGYFNTDKPHRGEILIGGQNVTMGYKNEAKTKDFFEDENGQRWL  
 CTGDIGEFDPDGCLKIIDRKDLVKLQAGEYVSLGKVEAALKNLPLIDNICAYANSYHSYVIGFVVPNQK  
 ELTELARTKGFKGTWEELCNSSEMENEVLKVLSEAAISASLEKFEIPLKIRLSPDPWTPETGLVTDFAFKL  
 KRKELKTHYQADIERMYGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033606

**ORF Size:** 2160 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\\_001033606.2](#), [NP\\_001028778.2](#)

**RefSeq Size:** 3810 bp

**RefSeq ORF:** 2163 bp

**Locus ID:** 74205

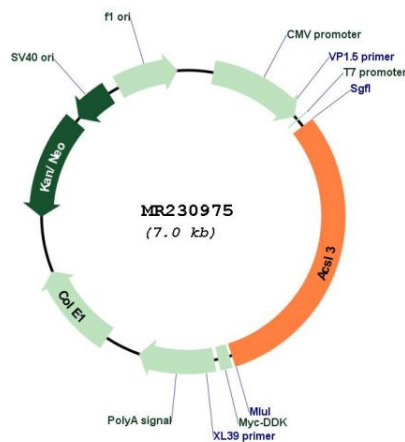
**UniProt ID:** [Q9CZW4](#)

**Cytogenetics:** 1 40.84 cM

**MW:** 80.5 kDa

**Gene Summary:** Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL3 has mainly an anabolic role in energy metabolism (By similarity). Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins) (By similarity). Mediates hepatic lipogenesis (By similarity). Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR230975