

## Product datasheet for **MR230573**

### **Acsm3 (NM\_212442) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsm3 (NM_212442) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsm3
Synonyms:	Sa; Sah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230573 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGATGTTACTCCGTGCTAGGTGTTTTTCAGCGCCTAGCAATTCCTGATCCTATGAGAGTCTTGATA  
 AAGATTACAGAACAGCGACCCCTCAGAACTTTTCCAACATGAGTCCATGAAACAAGACTTCAAAATAGA  
 GATTCCAGAGTATTTCAATTTTGCAAAAGATGTCTGGACCAATGGACCAATATGAAAAAGGCTGGAAAG  
 AGACTTTCCAATCCAGCCTTCTGGTGGATAGATGGGAATGGAGAAGAGCTGAGATGGAGTTTTGAAGAAC  
 TTGGGTTGTTATCCAGGAAATTTGCCAACATACTCACAGAAGCCTGCTCCCTGCAAAGAGGAGACAGAGT  
 AATGGTGATACTGCCAAGATCCAGAGTGGTGGCTTCCAATGTGGCCTGTCTGCGAACAGGGACAGTT  
 TTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATCCTCTATAGACTACAATCTTCAAAGCTAAGT  
 GCATTATTACCGATGATACTTTGGCCCCAGCAGTAGATGCCGTGGCAGCTAAATGTGAAATCTCCACTC  
 CAAATTAATTGTGTCTCAGCACTCCAGAGAAGGCTGGGGAACTCAAGGAGATGATGAAATATGCCAGT  
 GACAGCCACACTTGTGTGGACACAAAACAGCAGAGATGATGGCCATCTACTTCACCAGTGGGACAAGT  
 GGCTCCTAAGATGATTGGACACACCCACAGCAGCTTTGGTTTAGGATTGTCTGTCAATGGAAGTTCTG  
 GCTGGATTTGATAGCCTCCGATGTGATGTGGAATACTTCAGATACAGGCTGGGCAAAGTCTGCATGGAGT  
 AGTGTTTTTTCTCCATGGACCAAGGAGCATGTGTGTTTGCACACTATTTGCCCGTTTTGAATCAACTT  
 CCATCTTGCAAACCTCTCCAAGTTCCTCATCTGTCTTCTGTCTGCACCAACTGCCTACCGGATGCT  
 TGTTGAGAATGACATGAGCAGCTATAAGTTCAACAGTTTGAAGCACTGTGTCAGTCTGGAGAACCTATT  
 AACCTGAAGTGATGGAACAATGGAGAAGAAGACGGCCCTAGACATCTATGAAGGATATGGACAGACAG  
 AACCGTCTGATCTGTGGAAATTTCAAGGGGATGAAAATTAAGCCCGCTCAATGGGAAAGCCTTCTCC  
 TGCTTTTGTAGTGAAGATTTTAGATGAAAATGGTGCCACTCTTCTCTGGACAAGAAGGGGATATTGCT  
 CTCAAGTCTTCTGAGCGACCAATTTGGCCTTTTACTCATTATGTAGATAATCCTTCCAAAACGGCTT  
 CAACTCTACGAGGGAGTTTCTACATACTGGGGACAGAGGATATATGGATGAAGATGGCTATTTCTGGTT  
 TGTTGCAAGATCAGATGATATCATATTATCTTCTGGTTACCGAATTGGACCATTGAGGTAGAAAGTGCC  
 CTCATAGAACATCCTTCCATCGCAGAGTCACTGTTGTCAGCAGTCCAGACCCCATCAGAGGAGAGGTAG  
 TAAAGGCTTTTATTGCTGAATCCTGATTACAAGTCCCATGATCAAGAGCAACTGAAAAAGGAGATCCA  
 GGAGCAGTGAAGAAGACTACAGCGCTTACAAATACCCAGAAAGGTAGAATTTATTGAAGAGCTGCC  
 AAGACTGTCAGTGGGAAGGTCAAAGAAATGAACTGAGGAAAAAGGAATGGGTAACAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230573 protein sequence  
 Red=Cloning site Green=Tags(s)

MVLLRARCFLAIPDPMRVLKYDRTATPQNFSNYESMKQDFKIEIPEYFNFAKDVLQDWTNMEKAGK  
 RLSNPAFWWIDNGEELRWSFEELGLLSRKFANILTEACSLQRGDRVMVILPKIPEWWLANVA CLRGTV  
 LIPGTTQLTQKDILYRLQSSKAKCIITDIDLAPAVDAVAACENLHSLIVSQHSREGWGNLKEMMKYAS  
 DSHTCVDTKHDEMMAIYFTSGTTGPPKMIGHTHSSFLGLSVNGRFWLDLIASDVMWNTSDTGWAKSAWS  
 SVFSPWTQGACVFAHYLPRFESTSILQTLKFPITVFCAPTAYRMLVQNDMSSYKFNSLKHCVSAGEPI  
 NPEVMEQWRKKTGLDIYEGYQTEVLICGNFKGMKIKPGSMGKPSPAFDVKILDENGATLPPGQEGDIA  
 LQVLPERPFLFTHYVDNPSKASTLRGSFYITGDRGYMDEGDYFWFVARSDDIILSSGYRIGPFEVESA  
 LIEHPSIAESAVVSSPDIRGEVVKAFIVLNPDYKSHDQEQLKKEIQEHVKKTTAPYKYPRKVEFIEELP  
 KTVSGKVKRNELRKEWVTT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_212442

**ORF Size:** 1740 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\\_212442.2](#), [NP\\_997607.2](#)

**RefSeq Size:** 2557 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 20216

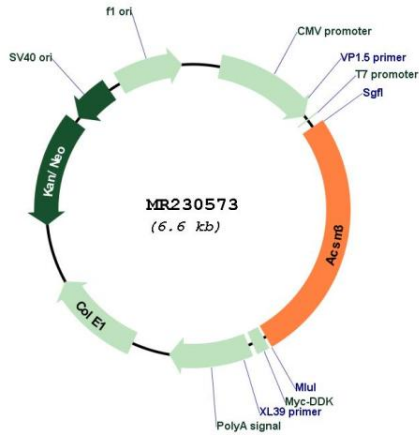
**UniProt ID:** [Q3UNX5](#)

**Cytogenetics:** 7 F2

**MW:** 65.6 kDa

**Gene Summary:** Has medium-chain fatty acid:CoA ligase activity with broad substrate specificity (in vitro). Acts on acids from C(4) to C(11) and on the corresponding 3-hydroxy- and 2,3- or 3,4-unsaturated acids (in vitro).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230573