

## Product datasheet for **MR230572**

### **Acsm3 (NM\_016870) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsm3 (NM_016870) 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:**

>MR230572 representing NM\_016870  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGATGTTACTCCGTGCTAGGTGTTTTTCAGCGCCTAGCAATTCCTGATCCTATGAGAGTCTTGATA  
 AAGATTACAGAACAGCGACCCCTCAGAACTTTTCCAATATGAGTCCATGAAACAAGACTTCAAAATAGA  
 GATTCCAGAGTATTTCAATTTTGCAAAAGATGTCTGGACCAATGGACCAATATGGAAAAGGCTGGAAA  
 AGACTTTCCAATCCAGCCTTCTGGTGGATAGATGGGAATGGAGAAGAGCTGAGATGGAGTTTTGAAGAAC  
 TTGGGTTGTTATCCAGGAAATTTGCCAACATACTCACAGAAGCCTGCTCCCTGCAAAGAGGAGACAGAGT  
 AATGGTGATACTGCCAAGATCCAGAGTGGTGGCTTCCAATGTGGCCTGTCTGCGAACAGGGACAGTT  
 TTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATCCTCTATAGACTACAATCTTCAAAGCTAAGT  
 GCATTATTACCGATGATACTTTGGCCCCAGCAGTAGATGCCGTGGCAGCTAAATGTGAAAATCTCCACTC  
 CAAATTAATTGTGTCTCAGCACTCCAGAGAAGGCTGGGGAACTCAAGGAGATGATGAAATATGCCAGT  
 GACAGCCACACTTGTGTGGACACAAAACAGCAGAGATGATGGCCATCTACTTCACCAGTGGGACAACCTG  
 GGCTCCTAAGATGATTGGACACACCCACAGCAGCTTTGGTTTAGGATTGTCTGTCAATGGAAAGTTCTG  
 GCTGGATTTGATAGCCTCCGATGTGATGTGGAATACTTCAGATACAGGCTGGGCAAAGTCTGCATGGAGT  
 AGTGTTTTTTCTCCATGGACCCAAGGAGCATGTGTGTTTGCACACTATTTGCCCGTTTTGAATCAACTT  
 CCATCTTGCAAACCTCTCCAAGTTCCTCATCTGTCTTCTGTTCTGCACCAACTGCCTACCGGATGCT  
 TGTTGAGAATGACATGAGCAGCTATAAGTTCAACAGTTTGAAGCACTGTGTCAGTGTGGAGAACCTATT  
 AACCTGAAGTGATGGAACAATGGAGAAGAAGACGGCCCTAGACATCTATGAAGGATATGGACAGACAG  
 AAACGGTCTGATCTGTGGAAATTTCAAGGGGATGAAAATTAAGCCCGCTCAATGGGAAAGCCTTCTCC  
 TGCTTTTGTAGTGAAGATTTTAGATGAAAATGGTGCCACTCTTCCCTCTGGACAAGAAGGGGATATTGCT  
 CTCAAGTTCTTCTGAGCGACCAATTTGGCCTTTTACTCATTATGTAGATAATCCTTCCAAAACGGCTT  
 CAACTCTACGAGGGAGTTTCTACATACTGGGGACAGAGGATATATGGATGAAGATGGCTATTTCTGGTT  
 TGTTGCAAGATCAGATGATATCATATTATCTTCTGGTTACCGAATTGGACCATTTGAGGTAGAAAGTGCC  
 CTCATAGAACATCCTTCCATCGCAGAGTCACTGTTGTCAGCAGTCCAGACCCCATCAGAGGAGAGGTAG  
 TAAAGGCTTTTATTGCTCCTGAATCCTGATTACAAGTCCCATGATCAAGAGCAACTGAAAAGGAGATCCA  
 GGAGCAGTGAAGAAGACTACAGCGCCTTACAAATACCCAGAAAGGTAGAATTTATTGAAGAGCTGCC  
 AAGACTGTCAGTGGGAAGGTCAAAGAAATGAACTGAGGAAAAGGAATGGGTAACAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230572 representing NM\_016870  
 Red=Cloning site Green=Tags(s)

MVLLRARCFLAIPDPMRVLKYDYRTATPQNFSNYESMKQDFKIEIPEYFNFAKDVLQDWTNMEKAGK  
 RLSNPAFWWIDNGEELRWSFEELGLLSRKFANILTEACSLQRGDRVMVILPKIPEWWLANVA CLRGTGTV  
 LIPGTTQLTQKDILYRLQSSKAKCIITDDTLAPAVDAVAACENLHSLKIVSQHSREGWGNLKEMMKYAS  
 DSHTCVDTKHDEMMAIYFTSGTTGPPKMIGHTHSSFLGLSVNGRFWLDLIASDVMWNTSDTGWAKSAWS  
 SVFSPWTQGACVFAHYLPRFESTSILQTLKFPITVFCAPTAYRMLVQNDMSSYKFNSLKHCVSAGEPI  
 NPEVMEQWRKKTGLDIYEGYQTEVLICGNFKGMKIKPGSMGKPSPAFDVKILDENGATLPPGQEGDIA  
 LQVLPERPFLFTHYVDNPSKASTLRGSFYITGDRGYMDEDGYFWFVARSDDIILSSGYRIGPFEVESA  
 LIEHPSIAESAVVSSPDIRGEVVKAFIVLNPDYKSHDQEQLKKEIQEHVKKTTAPYKYPRKVEFIEELP  
 KTVSGKVKNELRKEWVTT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_016870

**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\\_016870.3](#), [NP\\_058566.3](#)

**RefSeq Size:** 2777 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 20216

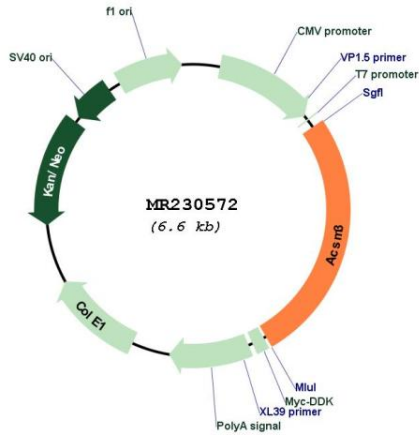
**UniProt ID:** [Q3UNX5](#)

**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 MR230572