

## Product datasheet for **RR209930**

### **Acsm4 (NM\_181695) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsm4 (NM_181695) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsm4
Synonyms:	Omacs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR209930 representing NM\_181695  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGGTTCTCCTCGCTGTCAGAGACTTAGATTCATCTGGCTTGCCAAGCCTGCTGGCCGGCACTTCC  
 ACAGAGACCCCCAGCTCTGGGCACCTCTGACATTGGATGACTTTGAAGCCATCAACCGCTGTGAGAAGCC  
 ATTACCCAAGAACTTTAACTTTGCTGCGGATGTTCTCGACCAGTGGTCTCTAAAGGAGAAGTCTGGAGAG  
 AGGCCAGCCAACCCAGCCCTGTGGTGGTGAATGGCAAAGGAGATGAGGTGAAGTGGAGTTTCCAAGAAC  
 TGGGCTCCTTGTCCGAAAGGCTGCCAACGTGCTCACCAAGCCCTGTGGCCTGCAGAGGGGAGACCGGGT  
 AGCTGTGATTCTGCCCGCATCCCTGAATGGTGGCTCATCAATGTGGCTTGCATGAGAACAGGGCTTGTCT  
 TTCATGCCTGGAACAATCCAAGTACCAGAAAAGACATCTCTACCGGCTGCAAGCATCCAAGGCCAAGT  
 GCATTGTGGCCAGTGAGGAAGTGGCCCTGCAGTGGACTCCATTGCATCAGAGTGTCCAACTTGAAGAC  
 TAAGTCTTGGTGTCTCCACACCGCTGGGACGGGTGGCTCAGCTTTCAGGAATTACTTCAATCAGCCTCT  
 GAAGAGACAATTTGTGTGCAGACAGGAAGTCAAGAGCCAATGGCCATTTACTTCACCAGTGGGACCACAG  
 GCTCCCCAAGATGGCTCAGCACTCACAGAGCAGCCTTGGCATTGGGTATGCCCTTTGTGGAAGGTAAGT  
 GCTGGACTTGACATCATCAGATATCATGTGGAACATGTCAGACTGGCTGGATCAAGGCTGCCATTGGT  
 AGTGTGTTTTCCACGTGGCTTCGAGGTGCCTGTGTTTTGTGCACCGGATGGCCAGTTCACACTGATA  
 CCTTCTAGATACGCTTACCTCATATCCTATCACGACCTGTGCAGTGCCTACCGTGTACCGGATGCT  
 TGTACAACAGGACCTTAAGAGGTATCAATCAAGAGGCTGCGGCACTGCCTGACAGGAGGGGAGCCACTC  
 AACCCGAGGTGCTGGAACAGTGAAGGCACAACTGGGCTGGAGCTATACGAGGGCTACGGACAGACTG  
 AAGTGGGAATAATTTGCGCCAATCGAAAGGAGAAGAAATTAACCAGGCTCCATGGGAAAGGGAGATTG  
 GCCTACGATGTGCAGATTATAGATGAACATGGAATATCCTACCATCGGGCAAGGAAGGGGAGATTGCC  
 CTTAGGCTGGGGTCTGATCGGCCCTTCTGCTTCTCTGAATATGTGGACAATCCAGAGAAGACTGATG  
 CCACAATAAGAAGAAATTTTACATCACTGGAGACAGAGGAGTATGGACGATGATGGATACCTTTGGTT  
 TGTGCGCAGAGCTGATGATGTCATTATATCCTCCGGTACCGAATGGGCCGTTTGAAGTAGAGAGTGCA  
 CTGATAGAGCACCCAGCAGTAGTTGAGTCACTGTTGTCAGCAGTCCAGATCCAATCCGAGGAGAGGTGG  
 TGAAAGCGTTTATTGTATTAGCTGCACCCTCAAGTCTCAACCGTGAAGTTAACTGCTGAACCTTCA  
 GGATCATGTGAAAACTCAACAGCACCTACAAGTACCAAGAAAGGTGGAATTTGTTCAAGAACTCCCC  
 AAGACAATCACTGGGAAATCAAACGCAACGTGTTAAGAGACCAGGAGTGGGACGGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209930 representing NM\_181695  
 Red=Cloning site Green=Tags(s)

MKVLRLCQRLRFIWLAKPAGRHFRDPQLWAPLTLDDFEAINRCEKPLPKNFNAADVLDQWSLKEKSGE  
 RPANPALWWVNGKGDEVKWSFQELGSLSRKAANVLTCPKGLQRGDRVAVILPRIPEWWLINVACMRTGLV  
 FMPGTIQLTRKDILYRLQASKAKCIVASEEVAPAVDSIASECPNLKTKLLVSPHRWDGWSFQELLQSAS  
 EEHNCVQTGSQEPMAIYFTSGTTGSPKMAQHSQSSLGIGYALCGRYWLDLTSSDIMWNMSDTGWIKAAIG  
 SVFSTWLRGACVFVHRMAQFNTDFTLDTLTSYPITTLCSAPT VYRMLVQQLKRYQFKRLRHCLTGGEPL  
 NPEVLEQWKAQTGLELYEGYQTEVGIICANRKGEEIKPGSMGKVVVPYDVQIIDEHGNILPSGKEGEIA  
 LRLGSDRPFCCFFSEYVDNPEKTDATIRRNFYITGDRGVMDDGYLWVGRADDVIISGGRIGPFEVES  
 LIEHPAVVESAVVSSPDIRGEVVKAFIVLAAPFKSSNREKLTAEQLQDHVKNSTAPYKYPRKVEFVQELP  
 KITITGKIKRNVLRDQEWGRA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_181695

**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\\_181695.1](#), [NP\\_859046.1](#)

**RefSeq Size:** 2084 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 353317

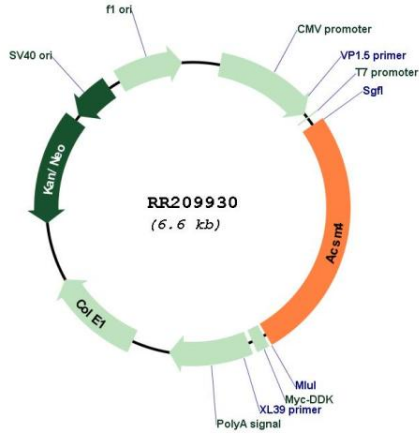
**UniProt ID:** [Q7TN78](#)

**Cytogenetics:** 1q35

**MW:** 65.3 kDa

**Gene Summary:** acyl-CoA synthase enzyme involved in fatty acid metabolism; may be involved in processing odorants [RGD, Feb 2006]

**Product images:**



Circular map for RR209930