

## Product datasheet for **RN205987**

### **AcsI3 (NM\_057107) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AcsI3 (NM_057107) Rat Untagged Clone
Tag:	Tag Free
Symbol:	AcsI3
Synonyms:	Acs3; FacI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >RN205987 representing NM\_057107  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATAACCACGTATCTTCAACACCGTCTACCATGAAGCTAAAACAAACCATCCACCCATACTTTTAT  
 ATTTTCATACATTTTATAATATCACTCTATACTATTTTAAACATACATCCCATTTTATTTTTTGTGTGAGTC  
 AAAACAAGAGAAAACCAAACACATTAAGCAAAGCCTGTCAAGTTCAAACCGGACTCTGCATACAGGTCT  
 GTCAACAGTATGGATGGCTTAGCTTCAGTATTGTATCCTGGCTGCGACACACTTGATAAAGTTTTTATGT  
 ATGCAAAAAACAAATTAAGGACAAAAGACTATTGGGAACACGTGAGATTTTGAATGAGGAAGATGAAAT  
 ACAACCAATGAAAAGTTTTTAAAAAGGTTATTCTGGGCACTATAATTGGCTTTCCTATGAAGATGTC  
 TTCATTCGAGCCCTCGATTTTGGAAATGGGTTACAAATGTTGGCCAGAAGCCGAAGGCCAACATCGCCA  
 TCTTTTGTGAGACCAGGGCTGAGTGGATGATTGCTGCGCAGGCGTGTTCATGTACAACCTCCAGCTTGT  
 TACACTGTATGCGACTCTGGGAGGTCCAGCCATTGTCCATGGACTGAATGAGACAGAGGTGACCAACATC  
 ATTACTAGTAAAGAACTCCTGCAAAACAAAGCTGAAGGATATCGTCTCTTTGGTCCCACGCTCTGCGGCATA  
 TCATTACTGTTGATGGGAAGCCTCCAACCTGGTCTGAGTTCCTCAAGGGCGTCATTGTACACACCATGGC  
 TGCAGTGCAGGCTCTAGGAGTAAAGGCTGACGTGGACAAGAAAGCTCACAGCAAACCACTGCCCTCAGAT  
 ATTGCAGTAAATCATGTACACAAGTGGATCCACAGGAATTCCAAAGGGAGTCATGATCTCACACAGCAACA  
 TCATTGCCTCTATAACGGGGATGGCGAGAAGGATTCCAAGACTGGGAGAGGAAGATGTATACATTGGATA  
 TTTGCCCTGGCAGATGTTCTAGAATTAAGCGCTGAGCTTGTGTGCTTTTCTCATGGATGCCGATTGGC  
 TACTCTTACCACAGACATTAGCAGATCAGTCTTCAAAAAATAAGAAAGGAAGCAAAGGAGACACATCCG  
 TTCTGAAGCCCACGCTGATGGCAGCTGTGCCGAAATCATGGATCGGATCTACAAAAATGTCATGAATAA  
 AGTGAATGAAATGAGTGCTTTTCAACGAAACTGTTTATTTTGGCATATAATTATAAGATGGAGCAGATT  
 TCAAAAGGGTGTAGTACCCCGCTGTGTGACCGCTTTGTTTTCCGGAATGTCCGAAGGCTGCTGGGTGGAA  
 ATATTCGCGTTTTATTGTGCGGTGGTGCTCCACTTTCTGCAACGACACAGCGATTGATGAATATCTGCTT  
 CTGTTGTCCCGTTGGCCAGGGTATGGACTCACAGAATCTACTGGGGCTGGAACAATTACAGAAGTGTGG  
 GACTACAATACCGGCAGAGTGGGAGCACCATTAGTTTGTGTGAAATCAAATTAAGAACTGGGAGGAAG  
 GTGGCTATTTAATACTGACAAACACATCCCAGAGGTGAAATCTGATTGGTGGCCAAAATGTGACAAT  
 GGGTACTACAAAAATGAAGCAAAAACAAAGCCGATTTCTTTGAAGATGAAAACGGACAGAGGTGGCTG  
 TGCAGTGGCGATATTGGAGATTTGACCCTGATGGCTGCCTCAAGATCATTGATCGTAAAAAGACCTTG  
 TGAAACTACAGGCAGGAGATGTTTCTTAGGCAAAGTTGAGGCAGCTTTGAAGAACCTCCCAGTAT  
 AGATAACATTTGTGCATATGCAACAGTTACCATTCTACGTAATTGGATTTGTTGTGCCAAATCAAAAAG  
 GAATTAACGGAGCTAGCTAGAACGAAAGGATTTAACGGAAGTGGGAAGAGCTGTGTAACAGCAGTGAAA  
 TGGAAAACGAGGTCTTAAAGTGCTTTCTGAGGCTGCTATTTAGCAAGTCTGAAAAAGTTTGAATCCC  
 ACTGAAAATTCGTTTGTAGCCCTGACCCATGGACTCCCGAAACTGGTCTGGTGACTGATGCCTTCAAGTTG  
 AAACGTAAGAAGCTTAAACACACTACCAGGCAGACATTGAGCGGATGTACGGAAGAAAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2772\\_a08.zip](https://cdn.origene.com/chromatograms/ja2772_a08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_057107

**Insert Size:** 2163 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_057107.1](#), [NP\\_476448.1](#)

**RefSeq Size:** 2779 bp

**RefSeq ORF:** 2163 bp

**Locus ID:** 114024

**UniProt ID:** [Q63151](#)

**Cytogenetics:** 9q34

**Gene Summary:** catalyzes initial reaction of fatty acid metabolism to produce Acyl-CoA; plays a key role in lipid metabolism; may mediate the synthesis of brain lipids [RGD, Feb 2006]