

## Product datasheet for **RN207852**

### **Acs11 (NM\_012820) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acs11 (NM_012820) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acs11
Synonyms:	Acas; ACS; COAA; FacI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN207852 representing NM\_012820  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGTCCACGAATTGTTCCGGTATTTTCGAATGCCAGAGCTGATTGACATTCGCGAGTACGTGCGTA  
 CCCTTCCAACCAACACTCATGGGCTTCGGGGCTTTTGACGCGCTCACCACCTTCTGGTATGCCACCCG  
 GCCGAAGGCCCTGAAGCCACCATGTGATCTGTCCATGCAGTCTGTGGAAGTAACGGTACTACTGAGGGT  
 GTCGAAGATCAGCAGTCTTGAGGACGACAAGCTCTTGTGTAATACTACGACGATGTCAGAACGATGT  
 ACGATGGCTTCCAGAGGGGATTGAGGTGCAAAATGATGGCCCTGTTTAGGTTCTAGAAAGCCAAACCA  
 GCCATATGAGTGGATTTCTTACAAACAGGTTGCAGAAATGGCTGAGTGCATAGGCTCGGCCTGATCCAG  
 AAGGGTTTCAAACCTTGCTCAGAGCAGTTCATCGGCATCTTTCTCAGAACAGACCTGAGTGGGTGACCA  
 TCGAGCAGGGGTGCTTCACTTACTCCATGGTGGTTGTTCCGCTCTATGACAGCTTGAACCGACGCCAT  
 CACCTACATAGTGAACAAAGCTGAACTCTCTGTGATTTTTGCTGACAAGCCAGAAAAAGCCAAACTTTA  
 TTAGAAGGTGTAGAAAATAAGTTAACACCATGCCTTAAAATCATAGTCATCATGGACTCCTACGACAATG  
 ATCTGGTGGAAACGCGCCAGAAGTGTGGGGTGGAAATCATCGGCCTAAAAGCTCTGGAGGATCTTGGAA  
 AGTGAACAGAACGAAACCAAGCCTCCAGAACCTGAAGATCTTGCATAATCTGTTTCAAGTGGAACT  
 ACAGGCAACCCAAAGGAGCAATGGTCAACCCACCAAAACATTAAGAAGTGGTCCGGTTTTATAAAAG  
 CGACGGAGAGTGCATTCATCGCTTCCCCAGAGGATGTTCTGATATCTTCTTGCCTCTCGCCCATATGT  
 TGAGACCGTTGTAGAGTGTGAATGCTATGTATGGAGCTAAGATAGGATTTTTCCAAGGAGACATCAGG  
 CTGCTTATGGATGACCTCAAGGTGCTTCCAGCCTACCATCTCCCTGTGGTCCGAGACTGCTAAACCGGA  
 GTTTTGACAGAATTTTTGGACAAGCAACACGTCAGTGAAGCGATGGCTGTTGGATTTTTGCCTCCAAAAG  
 GAAAGAGCGGAGCTTCGAGTGGCATCGTCAGAAACAACAGCCTGTGGGATAAACTCATCTTTCACAAG  
 ATACAGTCGAGCCTGGGCGGAAAGTCCGGCTGATGATCACAGGAGCAGCCCAAGTGTCTGCCACAGTGC  
 TGACGTTTCTGAGGGCGCTCTCGGCTGTGAGTCTATGAAGGCTACGGACAGACCGAGTGCACCGCTGG  
 TTGCTGCCTGAGCTTGCCTGGAGACTGGACAGCAGGCCATGTTGGTGCCCCATGCCTTGAATTATATC  
 AAGCTTGTAGATGTGGAAGATATGAATTACCAGGCTGCCAAGGGCGAGGGTGAAGTGTGTGAAAGGGG  
 CAAATGTGTTCAAAGGCTACTTGAAGACCCAGCAAGAACAGCTGAAGCCCTAGATAAAGATGGTTGGTT  
 ACACACGGGGACATTGAAAAATGGCTGCCAAATGGCACCTTGAAGATTATCGACAGGAAAAAGCACATA  
 TTTAAACTAGCCCAAGGAGAGTACATAGCTCCAGAAAAGATCGAAAATATCTACCTGCGGAGCGAAGCCG  
 TGGCCAGGTGTTGTCCATGGAGAAAGCTTGCAGGCCTTCTCATAGCCATTGTAGTACCTGATGTGGA  
 GATCCTACCTTCTGGGCACAGAAGAGAGGATTTCAAGGGTCTTTGAAGAACTGTGCAGGAACAAGGAT  
 ATCAATAAAGCTATCCTGGAAGACATGGTAAAAGTGGGAAGAATGCTGGTTTGAAGCCATTTGAACAGG  
 TCAAAGGCATTGCTGTGCACCCGGAATTTTTCTATTGACAAATGGCCTCCTGACTCCAACACTGAAGGC  
 AAAAAGGCCAGAGCTGCGGAACTATTTCAAGTCCAGATAGATGAACTGTACTCCACCATCAAGATT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2723\\_h07.zip](https://cdn.origene.com/chromatograms/ja2723_h07.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012820

**Insert Size:** 2100 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\\_012820.1](#), [NP\\_036952.1](#)

**RefSeq Size:** 3657 bp

**RefSeq ORF:** 2100 bp

**Locus ID:** 25288

**UniProt ID:** [P18163](#)

**Cytogenetics:** 16q11

**Gene Summary:** catalyzes the ligation of long chain fatty acids with coenzyme A to produce long chain acyl-CoAs; plays a role in lipid biosynthesis and fatty acid metabolism [RGD, Feb 2006]