

## Product datasheet for **MC220560**

### **Acs11 (NM\_007981) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acs11 (NM_007981) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acs11
Synonyms:	Ac; Acas; Acas1; Acs; Fac; Fac12; FACS; LACS 1; LACS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220560 representing NM\_007981  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTCCATGAATTGTTCCGGTATTTTCGAATGCCAGAGCTGATTGACATTCGGCAGTACGTGCGCA  
 CCCTTCCAACCAACACCCTCATGGGTTTGGGGCTTTTGACGCGCTCACCACCTTCTGGTATGCCACCAG  
 GCCTAAGGCCCTGAAGCCACCATGTGACCTCTCCATGCAGTCAGTGAAAATAGCGGGTACCACTGATGGT  
 ATTCGAAGATCAGCAGTCTTGAAGATGACAAGCTCTTGGTGTACTACTACGACGATGTCAGAACCATGT  
 ACGATGGCTTCCAGAGGGGATTGAGGTGTCAAAATAATGGTCTTGTAGGTTCTCGGAAGCCAAACCA  
 GCCCTATGAGTGGATTTCTACAAAGAGGTGCCAGAACTGGCTGAGTGCATAGGCTCCGGCTGATCCAG  
 AAGGGTTCAAGCCTTGCTCCGAGCAGTTCATCGGCCTTCTCTCAAAACAGACCCGAGTGGGTGATCG  
 TCGAGCAAGGATGCTTCTTACTCAATGGTGGTCGCCGCTCTATGACACCCTGGAGCTGACGCCAT  
 CACCTACATAGTGAACAAAGCTGAACTCTCTGTGATTTTTGCTGACAAGCCAGAAAAAGCCAAACTCTTA  
 TTAGAAGGTGTAGAAAACAGTTAACACCATGCCTTAAAATCATAGTCATCATGGACTCCTACGGCAGTG  
 ATCTGGTGGAACGAGGCAAGAAGTGTGGGTGGAAATCATCAGCCTCAAAGCTCTGGAGGACCTTGGAAAG  
 AGTGAACAGAGTGAAGCCCAAGCCTCCAGAACCAGAGATCTTGCATAATTTGTTTCAAGTGGAACT  
 ACAGGCAACCCCAAGGAGCAATGATCACTCACCAAAACATTATAAACGACTGCTCAGGTTTTATAAAAG  
 CAACAGAGAGTGCATTATCGCTTCCACAGATGATGTGCTGATATCTTCTTGCCTCTCGCCCATATGTT  
 TGAGACCGTTGTAGAGTGTAAATGCTGTGTCATGGAGCTAAGATAGGATTTTTCCAAGGAGATATCAGG  
 CTGCTTATGGACGACCTCAAGGTGCTTCAGCCCACCATCTCCCTGTGGTCCCAGGCTGCTGAACCGGA  
 GTTTCGACAGAATTTTTGGACAAGCAAACACTTCTTGAAGCGATGGCTGTTGGACTTTGCCTCCAAAAG  
 GAAAGAGCGGAGCTTCGCAGTGGCATCGTCAGAAACAACAGCCTGTGGGATAAACTCATCTTCCACAAG  
 ATACAGTCGAGCCTGGGTGGGAAAGTCCGGCTGATGATCACAGGAGCAGCCCCGGTGTCTGCCACAGTGC  
 TGACGTTTCTGAGGACAGCGCTCGGCTGCCAGTTCTATGAAGGCTACGGACAGACCGAGTGCAGTCTGG  
 TTGCTGCCTGAGCTTGCCTGGAGACTGGACGGCAGGCCATGTTGGAGCCCCATGCCTTGAATTAATGTA  
 AAGCTTGTGGATGTGGAAGAAATGAATTACCTGGCATCCAAGGGCGAGGGTGAAGTGTGTGAAAGGGG  
 CAAATGTGTTCAAAGGCTACTTGAAGACCCAGCAAGAACAGCTGAAGCCCTGGATAAAGATGGCTGGTT  
 ACACACGGGGACATTGAAAAATGGCTGCCAAATGGCACCTTGAAGATTATCGACAGGAAAAAGCACATA  
 TTTAAACTAGCCCAAGGAGAGTACATAGCACCAGAAAAGATTGAAAATATCTACCTGCGGAGTGAAGCCG  
 TGCCCCAGGTGTTGTCCACGGAGAAAGCTTGCAGGCCTTCTCATAGCAGTTGTGGTACCCGACGTTGA  
 GAGCCTACCGTCTGGGCACAGAAGAGAGGCTTACAAGGGTCTTCAAGAACTGTGCAGGAACAAGGAT  
 ATCAATAAAGCTATCCTGGACGACTTGTGAAACTTGGGAAGGAAGCCGGTCTGAAGCCATTTGAACAGG  
 TCAAAGGCATTGCTGTGCACCCGGAATTTTTCTATTGACAACGGCCTTCTGACTCCAACACTGAAGGC  
 GAAGAGGCCAGAGCTACGGAACTATTTCAAGTTCGAGATAGATGAACTGTACGCCACCATCAAGATCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_007981
- Insert Size:** 2100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_007981.4](#), [NP\\_032007.2](#)

**RefSeq Size:** 3925 bp

**RefSeq ORF:** 2100 bp

**Locus ID:** 14081

**UniProt ID:** [P41216](#)

**Cytogenetics:** 8 B1.1

**Gene Summary:** The protein encoded by this gene belongs to a family of acyl coenzyme A synthetase proteins, which convert long chain fatty acids to acyl CoA products via an ATP-dependent pathway. This enzyme is enriched in heart, liver and adipose tissue, where it functions in lipid synthesis and mitochondrial and peroxisomal beta-oxidation. In addition, it is expressed in monocytes and macrophages where it appears to have a functionally distinct role in mediating inflammatory and innate immune responses. A pseudogene of this gene is found on chromosome 5. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]  
Transcript Variant: This variant (2) has a distinct 5' UTR and represents use of an alternate promoter compared to variant 1. Both variants 1 and 2 encode the same protein.