

## Product datasheet for **MC220439**

### Acss1 (NM\_080575) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acss1 (NM_080575) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acss1
Synonyms:	1110032O15Rik; Acas2; Acas2l; AceCS2; AI788978
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220439 representing NM\_080575  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCGCGCAGCCTCGGCAGCGGTGTGGGGCGACTGCTGCGTGGCCTGCAAGGGCGCTCTGGACAAT  
 CGGGGTGGTCACTGAGCGTGTCCCGCTCGACCGCCACCGACTCCCGGGCTGCGTTCCTGCAGCAGCGCA  
 ACCAGGCTCGTACCCCGGTTGAGCGCTCAGGCAGCCAGGAGCCGCGCCCTTCTGGGGCCGCTGGCC  
 CGTGACACACTAGTTTGGGACACTCCTTACCATACTGTCTGGGACTGTGACTTCAGGACGGGCAAGATCG  
 GCTGGTTCCTGGGAGGCCAGTTGAATGTGTCTGTCAACTGCCTGGATCAGCATGTGCAGAAGTCTCTGA  
 GACCATAGCTTTGATCTGGGAGAGAGATGAACCTGGGACAGAAGTGAGAATCACTTACAGGGAGCTTCTG  
 GAGACCACATGCCGCTGGCCAATACACTGAAGAGACATGGAGTGCACCGAGGGGACCGTGTGGCCATCT  
 ACATGCCTGTGTCCCACTGGCTGTGGCAGCAATGCTGGCCTGTCCAGGATTGGAGCTATCCACACAGT  
 GGTATTTGCTGGCTTTAGTGCAGAGTCTTGGCTGGGAGGATCAATGATGCCAAATGCAAGGCTGTTATC  
 ACCTTCAACCAAGGACTCAGGGGAGGGCGTGTGGTGGAGCTGAAGAAAATAGTGGATGAAGCTGTGAAGA  
 GCTGCCAACAGTCCAGCATGTCCTGGTGGCTCACAGGACGGACACCAAGGTTCCCATGGGGAGTCTGGA  
 TATCCCCCTTGAACAGGAGATGGCCAAGGAGGCCCTGTTTGACCCCTGAGAGCATGAGCAGTGAAGAC  
 ATGCTCTTTATGCTCTACACCTCAGGGAGCACCAGGACACCAAGGGACTCGTTCATACACAGGCAGGCT  
 ATCTACTGTATGCCGCCATGACGCACAAGCTCGTGTGGTACTACCAGCCAGGTGATGTCTTTGGCTGTGT  
 GGCTGACATCGGTTGGATCACAGGACACAGCTATGTGGTGTATGGACCCCTGCAATGGAGCTACCACA  
 GTCCTTTTTGAGAGCACCCAGTTTACCCTGATGCTGGTGGTACTGGGAGACAGTGCAGAGGCTAAAGA  
 TCAACCAAGTCTATGGTGGCCGACAGCTGTCCGGCTGCTGCTGAAGTATGGGGATGCCTGGGTGAAAAA  
 GTATGACCGCTCTTCCCTGCGCACACTGGGGTCAGTGGGAGAGCCTATCAACCACGAAGCCTGGGAGTGG  
 CTCCACAAAGTCTGGGTGATGGCAGATGTACACTGGTGGACACTGGTGGCAAACGAAACTGGAGGCA  
 TCTGCATTGCACCACGGCCCTCGGAAGATGGGGCAGAGATCCTCCCGGCATGGCCATGAGGCCGTTTTT  
 TGGCATCGTTCCTGACTCATGGATGAGAAGGGCAATGTTTTGGAGGGTGGAGATGTCTCTGGGCCCTTG  
 TGTATTTCCCAAGCTTGGCCAGGCATGGCAAGGACCATCTATGGTGACCACCAGAGGTTTCGTAGATGCCT  
 ACTTCAGAGCGTACCCAGGTTATTACTTCACTGGAGACGGAGCTCACCGACAGAGGGTGGCTATTACCA  
 GATCACGGGGCGCATGGATGATGTCAATATCAGTGGTTCATCGCTGGGGACTGCAGAGATTGAGGAT  
 GCAATGGCTGACCATCCCGCTGTCCAGAGACTGCTGTCAATTGGGTACCCTCATGATATCAAAGGAGAAG  
 CTGCATTTGCCTTCAATTGTGCTGAAAGATAACATCAGTGTGAGAACATGGTAGTGAATGAAGTCAAATT  
 GTCGGTGGCCACCAAGATCGCCAAGTATGCTGTGCCTGACCAGATCCTGGTGGTGAAGCGTCTCCCCAAA  
 ACCAGATCTGGGAAAGTATGAGGAGACTACTGAGGAAGATCATCACCAGCAGGGGACAGGATCTAGGGG  
 ACACCACTACCCTGGAGGACCCAGCGTCATCACAGAAATCTTGAGTGCCTTCCAGAAGTATGAAGAGCA  
 GCGGGCTGCTACCAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_080575
- Insert Size:** 2049 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\\_080575.2](#), [NP\\_542142.1](#)

**RefSeq Size:** 3594 bp

**RefSeq ORF:** 2049 bp

**Locus ID:** 68738

**UniProt ID:** [Q99NB1](#)

**Cytogenetics:** 2 G3

**Gene Summary:** Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential for energy expenditure under ketogenic conditions. Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2).[UniProtKB/Swiss-Prot Function]