

## Product datasheet for **MC220338**

### **Acsl4 (NM\_001033600) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsl4 (NM_001033600) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsl4
Synonyms:	9430020A05Rik; ACS4; AU018108; FacI4; Lacs4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220338 representing NM\_001033600  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAAGAGAATAAAGCTAAGCCACTTCAGACAAACCTGGAAGTCCATATCGTCTGTGCACACT  
 TCGACTACTAGCTGTATAGACATCCCTGGAGCAGATACTCTGGATAAATTATTTGACCATGCTGTAGC  
 CAAATTTGGGAAGAAGGACAGCCTTGAACCCGGGAGATCCTGAGTGAAGAAAATGAAATGCAGCCAAAT  
 GGAAAGGTTTTAAGAAGTTAATCTTGGGAATTATAAATGGATAAACTATCTTGAAGTGAAGTGCAGAG  
 TGAATAACTTTGGAAGTGGCCTCACTGCATTGGGACTGAAACCAAGAACACCATTGCCATTTCTGTGA  
 GACCAGGGCAGAGTGGATGATTGCAGCACAGACTTGTCTTAAGTACAACCTTCCACTTGTGACTTTATAT  
 GCCACACTTGGCAGAGAAGCTGTAGTTCATGGATTAATGAATCTGAGGCTTCTATCTGATTACTAGTG  
 TTGAGCTTCTGGAAAGCAAACCTGAAGGCGCCTTAGTAGATATCAATTGTGTTAAACATATCATTATGT  
 GGATAATAAGACTATCAATAGAGCAGAGTACCCTGAGGGGCTTGAATTCACAGCATGCAATCAGTAGAG  
 GAGCTGGGAGCCAAGCCAGAAAACCTTGAGCGTTCCTCCAAGTAGACCAACCCCTTCAAGCATGGCCATTG  
 TCATGTACACCAGTGGTTCTACGGGCGCCCAAGGGAGTGATGATGCATCATAGCAATTTGATTGCTGG  
 AATGACAGGCCAGTGTGAACGTATCCCTGGACTAGGACCGAAGGACACATATATTGGCTACTTACCTTTG  
 GCTCATGTGCTGGAAGTACAGCAGAGATATCATGCTTTACCTATGGCTGTAGGATTGGATACTCTTAC  
 CCCTTACACTGTCTGACCAGTCCAGCAAATCAAGAAGGGAAGCAAGGGTGATTGTACTGTACTGAAACC  
 CACTTATGGCCGCTGTTCCGAAATCATGGATAGAAATTTATAAGAATGTTATGAGCAAGGTTCAAGAG  
 ATGAATTATGTTCAAAAACCTATTTAAAATCGGGTATGATTACAAATAGAGCAAATCAAGAAGGCT  
 ATGACCCCTCTTTGTAATCTGATACTGTTTAAAAAGGTGAAGGCTCTGCTGGGAGGGAATGTCGGCAT  
 GATGCTGTCTGGCGCGGCCACTGTCCCTCAGACACACCGATTTCATGAATGTCTGCTTCTGCTGCCCC  
 ATTGGTACAGGATATGGGCTGACAGAATCATGTGGTGTGGAACAGTTACTGAAGTACTGACTACACTA  
 CTGGAAGAGTTGGAGCTCCTCTTATTTGCTGTGAAATTAACCTGAAAGACTGGCAGGAAGGTGGTTATAC  
 AGTTCATGATAAGCCGAACCCAGAGGTGAGATTGTGATCGGTGGCCAGAATATCTCCATGGGATTTTT  
 AAAACAGAAAGAGAAAACAGCAGAAGATTATTGTGTTGATGAAAATGGACAAAGGTGGTTTTGCACTGGCG  
 ATATTGGAGAATCCATCCTGATGGATGCTTACAGATTATAGATCGTAAGAAAGATCTGGTAAAGTTACA  
 AGCAGGAGAATATGTATCTTTGGAAAGTAGAAGCTGCACTGAAGAATTGTCCACTGATCGACAACATC  
 TGTGCTTTTGCCAAAAGTGACCAGTCTATGTGATCAGTTTTGTGTTTCTAACCAGAAAAGTTGACTC  
 TTTTGGCAACAACAGAAGGGGTAGAAGGATCTTGGGTTGATATTGCAATAATCCCGCCATGGAAGCTGA  
 AATACTGAAAGAAATTCGAGAAGCTGCAATGCCATGAAATTGGAGCGATTTGAAATCCGATCAAGGTT  
 CGGTTAAGCCCAGAGCCATGGACCCCGAGACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGG  
 AGTTGAAGAACCATTATCTCAAAGACATTGAGCGAATGTATGGGGCAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001033600

**Insert Size:** 2013 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\\_001033600.1](#), [NP\\_001028772.1](#)

**RefSeq Size:** 4987 bp

**RefSeq ORF:** 2013 bp

**Locus ID:** 50790

**UniProt ID:** [Q9QUJ7](#)

**Cytogenetics:** X F2

**Gene Summary:** Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses arachidonate and eicosapentaenoate as substrates. [UniProtKB/Swiss-Prot Function]