

Product datasheet for **MC220784**

Acsl4 (NM_207625) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl4 (NM_207625) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acsl4
Synonyms:	9430020A05Rik; ACS4; AU018108; FacI4; Lacs4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220784 representing NM_207625
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTTAAGCTAAATGTGCTCACCATTATATTGCTGCCTGTCCACTTGTTAATAACAATATACAGTG
 CCCTTATATTTATTCCATGGTATTTTCTTACCAATGCCAAGAAGAAAAACGCTATGGCAAAGAGAATAAA
 AGCTAAGCCCACTTCAGACAAACCTGGAAGTCCATATCGCTCTGTACACACTTCGACTCACTAGCTGTC
 ATAGACATCCCTGGAGCAGATACTCTGGATAAATTATTTGACCATGCTGTAGCCAAATTTGGGAAGAAGG
 ACAGCCTTGAACCCGGGAGATCCTGAGTGAAGAAAATGAAATGCAGCCAAATGGAAAGGTTTTTAAGAA
 GTTAATCTTGGGAATTATAAATGGATAAACTATCTTGAAGTGAAGTGCAGAGTGAATAACTTTGGAAAGT
 GGCCTCACTGCATTGGGACTGAAACCAAGAACACCATTGCCATTTCTGTGAGACCAGGGCAGAGTGGAG
 TGATTGCAGCACAGACTTGCTTTAAGTACAACCTTCCACTTGACTTTTATATGCCACACTTGGCAGAGA
 AGCTGTAGTTCATGGATTAATGAATCTGAGGCTTCTATCTGATTACTAGTGTGAGCTTCTGGAAAGC
 AAAGTGAAGGCGGCCTTAGTAGATATCAATTGTGTAAACATATCATTTATGTGGATAAATAGACTATCA
 ATAGAGCAGAGTACCCTGAGGGGCTTGAATTCACAGCATGCAATCAGTAGAGGAGCTGGGAGCCAAAGCC
 AGAAAAGTGGAGCTTCCCAAGTAGACCAACCCCTTCAGACATGGCCATTGTCATGTACACCAGTGGT
 TCTACGGGCCGCCCAAGGGAGTGTATGCATCATAGCAATTTGATTGCTGGAATGACAGGCCAGTGTG
 AACGTATCCCTGGACTAGGACCGAAGGACACATATATTGGCTACTTACCTTTGGCTCATGTGCTGGAAGT
 GACAGCAGAGATATCATGCTTTACCTATGGCTGTAGGATTGGATACTCTTACCCCTTACACTGTCTGAC
 CAGTCCAGCAAAATCAAGAAGGGAAGCAAGGGTATTGTACTGTACTGAAACCCACACTTATGGCCGCTG
 TTCCGGAAATCATGGATAGAATTTATAAGAATGTTATGAGCAAGTTCAAGAGATGAATTAATGTTAGAA
 AACTCTATTTAAAATCGGGTATGATTACAAATTAGAGCAAAATCAAGAAAGGCTATGACGCCCTCTTTGT
 AATCTGATACTGTTTAAAAGGTGAAGGCTCTGCTGGGAGGGAATGTCCGCATGATGCTGTCTGGCGGCG
 CGCCACTGTCCCCTCAGACACACCGATTGATGAATGTCTGCTTCTGCTGCCCCATTGGTCAGGGATATGG
 GCTGACAGAATCATGTGGTGTGGAACAGTTACTGAAGTTACTGACTACTACTGGAAGAGTTGGAGCT
 CCTCTTATTTGCTGTGAAATTAAGTGAAGACTGGCAGGAAGTGGTTATACAGTTCATGATAAGCCGA
 ACCCCAGAGGTGAGATTGTGATCGGTGGCCAGAATATCTCCATGGGATATTTTAAAACGAAGAGAAAAC
 AGCAGAAGATTATTGTGTTGATGAAAATGGACAAAGTGGTTTTGCACTGGCGATATTGGAGAATCCAT
 CCTGATGGATGCTTACAGATTATAGATCGTAAGAAAGATCTGGTAAAGTTACAAGCAGGAGAATATGTAT
 CTCTGGGAAAGTAGAAGCTGCACTGAAGAATTGCCACTGATCGACAACATCTGTGCTTTTGCCAAAAG
 TGACCAGTCTATGTGATCAGTTTTGTGGTTCCTAACCAGAAAAAGTTGACTCTTTTGGCACAACAGAAG
 GGGGTAGAAGGATCTTGGGTTGATATTTGCAATAATCCCGCCATGGAAGCTGAAACTGAAAGAAATTC
 GAGAAGCTGCAATGCCATGAAATTTGGAGCGATTTGAAATTCGATCAAGGTTCCGTTAAGCCCAGAGCC
 ATGGACCCCGAGACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGGAGTTGAAGAACCATTAT
 CTCAAAGACATTGAGCGAATGTATGGGGCAAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2007_a08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_207625

Insert Size: 2136 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 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_207625.2](#), [NP_997508.1](#)

RefSeq Size: 5280 bp

RefSeq ORF: 2136 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]