

## Product datasheet for **MR210200**

### **Acsl4 (NM\_207625) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsl4 (NM_207625) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>MR210200 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACCTTAAGCTAAATGTGCTCACCATTATATTGCTGCCTGTCCACTTGTTAATAACAATATACAGTGCCTTATATTTTCCATGGTATTTTCTTACCAATGCCAAGAAGAAAAACGCTATGGCAAAGAGAATAAAAGCTAAGCCACTTCAGACAAACCTGGAAGTCCATATCGCTCTGTACACACTTCGACTCACTAGCTGTCATAGACATCCCTGGAGCAGATACTCTGGATAAATTATTTGACCATGCTGTAGCCAAATTTGGGAAGAAGGACAGCCTTGAACCCGGGAGATCCTGAGTGAAGAAAATGAAATGCAGCCAAATGGAAAGGTTTTTAAGAAATTAATTCTTGGGAATTATAAATGGATAAACTATCTTGAAGTGAAGTGCAGAGTGAATAACTTTGGAAAGTGGCCTCACTGCATTGGGACTGAAACCAAGAACACCATTGCCATTTTCTGTGAGACCAGGGCAGAGTGGATGATTGCAGCACAGACTTGCTTTAAGTACAACCTTCCACTTGACTTTTATATGCCACACTTGGCAGAGAGCTGTAGTTCATGGATTAATGAATCTGAGGCTTCTATCTGATTACTAGTGTGAGCTTCTGGAAAGCAAACTGAAGGCGCCTTAGTAGATCAATTGTGTAAACATATCATTTATGTGGATAAATAGACTATCATAGAGCAGAGTACCCTGAGGGCTTGAATTCACAGCATGCAATCAGTAGAGGAGCTGGGAGCCAAAGCCAGAAAACCTTGAGCGTTCCTCCAAGTAGACCAACCCCTTCAGACATGGCCATTGTCATGTACACCAGTGGTCTACGGGCCGCCCAAGGGAGTGATGATGCATCATAGCAATTTGATTGCTGGAATGACAGGCCAGTGTGAACGTATCCCTGGACTAGGACCGAAGGACACATATATTGGCTACTTACCTTTGGCTCATGTGCTGGAACGACAGCAGAGATATCATGCTTTACCTATGGCTGTAGGATTGGATACTCTTCAACCCTTCACTGTCTGACAGTCCAGCAAAATCAAGAAGGGAAGCAAGGGTGATTGTACTGTACTGAAACCCACACTTATGGCCGCTGTCCGGAAATCATGGATAGAATTTATAAGAATGTTATGAGCAAGTTCAAGAGATGAATTAATGTTTCAGAAACTCTATTTAAAATCGGGTATGATTACAAATTAGAGCAAATCAAGAAAAGGCTATGACGCCCTCTTTGTAACTCTGATACTGTTTAAAAGGTGAAGGCTCTGCTGGGAGGGAATGCCGCATGATGCTGTCTGGCGGCGCGCCACTGTCCCCTCAGACACACCGATTATGAATGTCTGCTTCTGCTGCCCCATTGGTCAGGGATATGGCTGACAGAATCATGTGGTGCTGGAACAGTTACTGAAGTTACTGACTACACTACTGGAAGAGTTGGAGCTCCTCTTTTGTGTAATTAAGTAACTGAAAGACTGGCAGGAAGGTGGTTATACAGTTCATGATAAGCCGACCCCAGAGGTGAGATTGTGATCGGTGGCCAGAATATCTCCATGGGATATTTTAAAACGAAGAGAAAACAGCAGAAGATTATTGTGTTGATGAAAATGGACAAAGGTGGTTTTGCACTGGCGATATTGGAGAATCCATCCTGATGGATGCTTACAGATTATAGATCGTAAGAAAGATCTGGTAAAGTTACAAGCAGGAGAATATGTATCTCTGGGAAAGTAGAAGCTGCACTGAAGAATTGCCACTGATCGACAACATCTGTGCTTTTGGCAAAGTGACCAGTCTATGTGATCAGTTTTGTGGTTTCTAACCAGAAAAAGTTGACTCTTTTGGCACAACAGAAGGGGTAGAAAGGATCTTGGGTTGATATTTGCAATAATCCCGCCATGGAAGCTGAAATACTGAAAGAAATTCGAGAAGCTGCAATGCCATGAAATTTGGAGCGATTTGAAATTCGATCAAGGTTCCGTTAAGCCCAGAGCCATGGACCCCGAGACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGGAGTTGAAGAACCATTATCTCAAAGACATTGAGCGAATGTATGGGGGCAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210200 protein sequence  
 Red=Cloning site Green=Tags(s)

MNLKLNVLTIILLPVHLLITIYSALIFIPWYFLTNAKKKNAMAKRIKAKPTSDKPGSPYRSVTHFDSLAV  
 IDIPGADTLDKLFDHAVAKFGKKDSLGTREILSEENEMQPNGKVFKKLILGNYKWINYLEVNCRVNFFGS  
 GLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPLVTLATLGREAVVHGLNESEASYLITSVELLES  
 KLKAAALVDINCVKHIIYVDNKTINRAEYPEGLEIHSMSQSV EELGAKPENLSVPPSRPTPSDMAIVMYTSG  
 STGRPKGVMHHSNLIAGMTGQCERIPGLGPKDTYIGYPLAHVLELTAEISCFYGCRIGYSSPLTSD  
 QSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQEMNYVQKTLFKIGYDYKLEQIKKGYDAPLC  
 NLILFKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPIGQGYGLTESCGAGTVTEVTDYTTGRVGA  
 PLICCEIKLKDWEQGGYVHDKPNPRGEIVIGGQNI SMGYFKNEEKTAEDYCVDENGQRWFCTGDIGEFH  
 PDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDNICAFKSDQSYVVISFVVPNQKKLLLAQQK  
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 LKDIERMYGGK

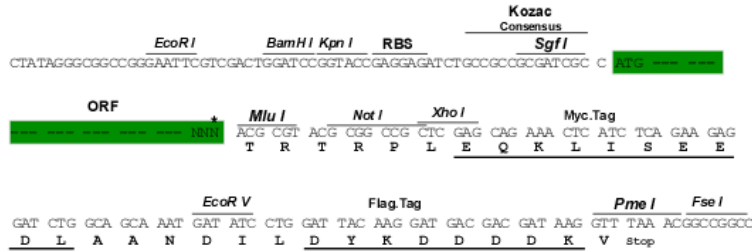
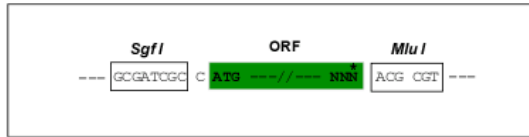
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_207625

ORF 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](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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

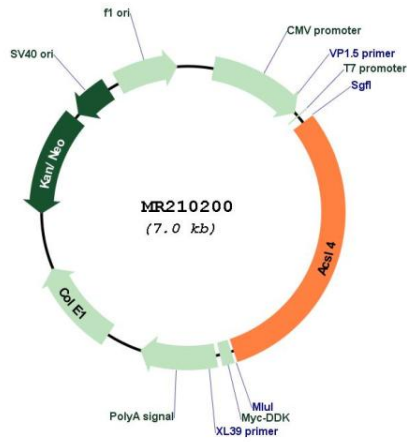
**UniProt ID:** [Q9QUJ7](#)

**Cytogenetics:** X F2

**MW:** 79.1 kDa

**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]

Product images:



Circular map for MR210200