

Product datasheet for **MR215668**

Acsl4 (NM_001033600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl4 (NM_001033600) 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:

>MR215668 representing NM_001033600
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAAAGAGAATAAAAGCTAAGCCACTTCAGACAAACCTGGAAGTCCATATCGTCTGTGCACACT
TCGACTCACTAGCTGTATAGACATCCCTGGAGCAGATACTCTGGATAAAATTATTTGACCATGCTGTAGC
CAAATTTGGGAAGAAGGACAGCCTTGAACCCGGGAGATCCTGAGTGAAGAAAATGAAATGCAGCCAAAT
GGAAGGTTTTTAAGAAGTTAATCTTGGGAATTATAAATGGATAAACTATCTTGAAGTGAAGTGCAGAG
TGAATAACTTTGGAAGTGGCCTCACTGCATTGGGACTGAAACCAAGAACACCATTGCCATTTCTGTGA
GACCAGGGCAGAGTGGATGATTGCAGCACAGACTTGTCTTAAGTACAACCTTCCACTTGTGACTTTATAT
GCCACACTTGGCAGAGAAGCTGTAGTTCATGGATTAATGAATCTGAGGCTTCTATCTGATTACTAGTG
TTGAGCTTCTGGAAAGCAAACCTGAAGGCGCCTTAGTAGATATCAATTGTGTTAAACATATCATTATGT
GGATAATAAGACTATCAATAGAGCAGAGTACCCTGAGGGGCTTGAATTCACAGCATGCAATCAGTAGAG
GAGCTGGGAGCCAAGCCAGAAAACCTTGAGCGTTCCTCCAAGTAGACCAACCCCTTCAGACATGGCCATTG
TCATGTACACCAGTGGTTCTACGGGCGCCCAAGGGAGTGTATGCATCATAGCAATTTGATTGCTGG
AATGACAGGCCAGTGTGAACGTATCCCTGGACTAGGACCGAAGGACACATATATTGGCTACTTACCTTTG
GCTCATGTGCTGGAACCTGACAGCAGAGATATCATGCTTTACCTATGGCTGTAGGATTGGATACTCTTAC
CCCTTACACTGTCTGACCAGTCCAGCAAATCAAGAAGGGAAGCAAGGGTGATTGTACTGTACTGAAACC
CACACTTATGGCCGCTGTTCCGAAATCATGGATAGAATTTATAAGAATGTTATGAGCAAGGTTCAAGAG
ATGAATTATGTTCAAAAACCTATTTAAAATCGGGTATGATTACAAATTAGAGCAAATCAAGAAAGGCT
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TGTGCTTTTGCCAAAAGTGACCAGTCTATGTGATCAGTTTTGTGTTCTAACCAGAAAAGTTGACTC
TTTTGGCACAACAGAAGGGGTAGAAGGATCTTGGGTTGATATTTGCAATAATCCCGCCATGGAAGCTGA
AATACTGAAAGAAATTCGAGAAGCTGCAATGCCATGAAATTGGAGCGATTTGAAATCCGATCAAGGTT
CGGTTAAGCCAGAGCCATGGACCCCGAGACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGG
AGTTGAAGAACCATTATCTCAAAGACATTGAGCGAATGTATGGGGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215668 representing NM_001033600
 Red=Cloning site Green=Tags(s)

MAKRIKAKPTSDKPGSPYRSVTHFDSLAVIDIPGADTLDKLFDHAVAKFGKKDSLGTREILSEENEMQPN
 GKVFKKLILGNYKWINYLEVNCRVNNFGSGLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPLVTLY
 ATLGREAVVHGLNESEASYLITSVELLESKLKAALVDINCVKHIIYVDNKTINRAEYPEGLEIHSMSQSV
 ELGAKPENL SVPPSRPTPSDMAIVMYTSGSTGRPKGVMMHHSNLIAGMTGQCERIPGLGPKDITYIGYLP
 AHVLELTAEISCFYGCRIGYSSPLTSDQSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQE
 MNYVQKTLFKIGYDYKLEQIKKGYDAPLCNLILFKKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCP
 IGQGYGLTESCGAGTVTEVDYTTGRVGAPLICCEIKLKDQEGGYTVHDKPNRGEIVIGGQNIISMGYF
 KNEEKTAEDYCDENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDNI
 CAFAKSDQSYVVISFVVPNQKLLTLLAQQKGVESWVDICNNPAMEAEILKEIREAANAMKLERFEIPIKV
 RLSPEPWPETGLVTDFAFKLKRKELKNHYLKDIERMYGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033600

ORF Size: 2010 bp

OTI Disclaimer: 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_001033600.1](#), [NP_001028772.1](#)

RefSeq Size: 4987 bp

RefSeq ORF: 2013 bp

Locus ID: 50790

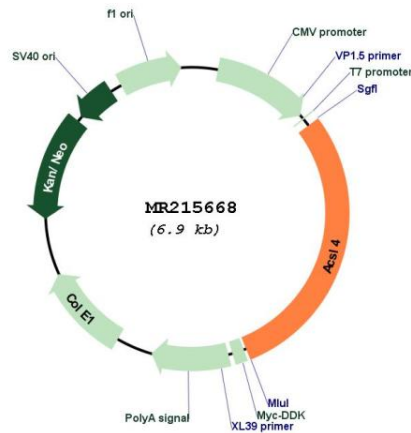
UniProt ID: [Q9QUJ7](#)

Cytogenetics: X F2

MW: 74.8 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 MR215668