

Product datasheet for **MR230841**

Acsl4 (NM_019477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl4 (NM_019477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR230841 representing NM_019477
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAAAGAGAATAAAGCTAAGCCACTTCAGACAAACCTGGAAGTCCATATCGTCTGTGCACACT
TCGACTCACTAGCTGTATAGACATCCCTGGAGCAGATACTCTGGATAAATTATTTGACCATGCTGTAGC
CAAATTTGGGAAGAAGGACAGCCTTGAACCCGGGAGATCCTGAGTGAAGAAAATGAAATGCAGCCAAAT
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GACCAGGGCAGAGTGGATGATTGCAGCACAGACTTGCTTTAAGTACAACCTTCCACTTGTGACTTTATAT
GCCACACTTGGCAGAGAAGCTGTAGTTCATGGATTAATGAATCTGAGGCTTCTATCTGATTACTAGTG
TTGAGCTTCTGGAAAGCAAACCTGAAGGCGCCTTAGTAGATATCAATTGTGTTAAACATATCATTATGT
GGATAATAAGACTATCAATAGAGCAGAGTACCCTGAGGGGCTTGAATTCACAGCATGCAATCAGTAGAG
GAGCTGGGAGCCAAGCCAGAAAACCTTGAGCGTTCCTCCAAGTAGACCAACCCCTTCAAGCATGGCCATTG
TCATGTACACCAGTGGTTCTACGGGCGCCCAAGGGAGTGATGATGCATCATAGCAATTTGATTGCTGG
AATGACAGGCCAGTGTGAACGTATCCCTGGACTAGGACCGAAGGACACATATATTGGCTACTTACCTTTG
GCTCATGTGCTGGAACCTGACAGCAGAGATATCATGCTTTACCTATGGCTGTAGGATTGGATACTCTTAC
CCCTTACACTGTCTGACCAGTCCAGCAAATCAAGAAGGGAAGCAAGGGTGATTGTACTGTACTGAAACC
CACACTTATGGCCGCTGTTCCGAAATCATGGATAGAATTTATAAGAATGTTATGAGCAAGGTTCAAGAG
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CGGTTAAGCCAGAGCCATGGACCCCGAGACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGG
AGTTGAAGAACCATTATCTCAAAGACATTGAGCGAATGTATGGGGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230841 representing NM_019477
 Red=Cloning site Green=Tags(s)

MAKRKAKPTSDKPGSPYRSVTHFDSLAVIDIPGADTLDKLFDHAVAKFGKKDSLGTREILSEENEMQPN
 GKVFKKLILGNYKWINYLEVNCRVNFGSGLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPLVTLY
 ATLGREAVVHGLNESEASYLITSVELLESKLKAALVDINCVKHIIYVDNKTINRAEYPEGLEIHSMQSVE
 ELGAKPENLSVPPSRPTPSDMAIVMYTSGSTGRPKGVMMHHSNLIAGMTGQCERIPGLGPKDITYIGYLP
 AHVLELTAEISCFYGRIGYSSPLTLDQSSKIKKSGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQE
 MNYVQKTLFKIGYDYKLEQIKKGYDAPLNCNLILFKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCP
 IGQGYGLTESCGAGTVTEVDYTTGRVGAPLICCEIKLKDWEQEGGYTVHDKPNRGEIVIGGQNIISMGYF
 KNEEKTAEDYCDENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDNI
 CAFAKSDQSYVVISFVVPNQKLLTLLAQQKGVESWVDICNNPAMEAEILKEIREANAMKLERFEIPIKV
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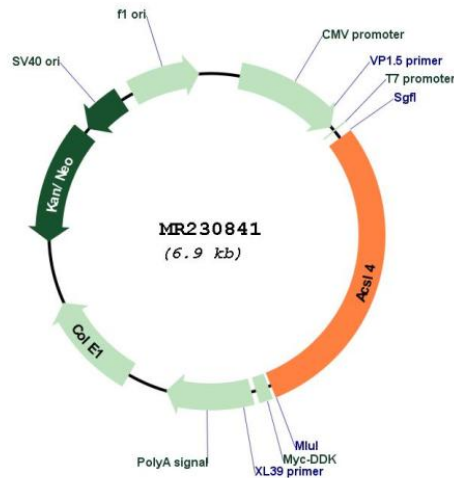
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019477

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_019477.3](#), [NP_062350.3](#)

RefSeq Size: 4990 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]