

Product datasheet for **MR219239**

Acsl6 (NM_001033597) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl6 (NM_001033597) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsl6
Synonyms:	A330035H04Rik; AW050338; FacI6; LACS; Lacsl; mKIAA0837
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR219239 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGACCTTCTTCTTGGTGTGCGGGGTTCTCTCTGGTGTGTTGCCGAGATTGCTCTCACTTCTGG
AGAAGATGCAGACCCAGGAGATCCTGAGGATCCTGCGGCTGCCCGAGCTATCGGACTTGGCCAGTTTTT
CCGCAGCCTCTCAGCTACCACCCTCGTGAGTGTGGGTGCACTGGCTGCCGTCCTTGCCTACTGGCTCACT
CACCGGCCAAAGGCCTTGAACACCATGCAACCTCCTGAAGCAGTCGGAAGAAGTGAGGACGGTGGT
GAGCCCGCGATCTGTGATTGGGGTTGCACTCAATTGCTTACCCATTACTATGACGATGCCCGACCAT
GTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGACCCTGTCTTGGCTTCCGGAAGCCAGAG
CAACCTTACCAGTGGCTGTCTACCAAGAGGTGGCCAAAAGGGCTGAATTTCTGGGGTGGGGCTTCTCC
AGCAGACTGTAAAGTGGGCACAGAGCAGTTTCGTTGGTGTGTTTGCACAAAATCGGCCGGAGTGGATCAT
TGCCGAGCTGGCCTGCTACACGTATTCCATGGTGGTGGTACCGCTCTACGACACCCTGGGCCAGGGTCT
ATCAGCTACATCAATACTGCGGACATTTGCACGGTAATCGTCGATAAACCCACAAGGCAACACTTC
TGCTGGAACACGTGGAGAGGAAGGAGACTCCGGGCCTCAAGCTGGTCATCCTCATGGAGCCGTTTGGGA
CGCCCTGAGAGAGAGAGGAAAGAAGTGCGGGTGGACATCAAGTCCATGCAGGCTATAGAGGACTGTGGC
CGAGAGAAATCATGCCCCCGTCCCCCAGCGCTGATGACCTCTCATCGTGTGTTTCAAAAGTGGTA
CAACAGGGAACCCCAAAGGTGCAATGCTCACCCACGGGAACGTGGTGGCCGATTTCTCGGGCTTCTGAA
AGTGACAGAGAGTCAGTGGGCCCCGACCTGTGCGGACGTCACCTTTTCTACTTGCCTTTAGCACACATG
TTTGAGCGCATGGTGCAGTCTGTTGTCTACTGCCACGGAGGCGCGTGGGCTTCTCCAGGGAGACATCC
GCCTCTCTCAGATGACATGAAGGCTCTCCGCCCTACCATCTTCCCTGTGGTCCCACGGCTGCTGAATCG
GATGTATGACAAGATCTTCCACCAGGCAGACACCTCACTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAG
CGCAAGCAGGCAGAGGTCCGGAGCGGAATCATCAGAAACAATAGTATCTGGGATGAACTCTTCTTTAATA
AGATTCAGGCCAGTCTTGGTGGCATGTGAGGATGATTGTCACTGGAGCAGCCCCCGCTCACCAACGGT
TCTGGGATTCTACGAGCAGCTCTGGGGTCCAGGTCTATGAAGGTTATGGGCAAAGTGAATGCACAGCT
GGGTGTACCTTCAACGCCAGGGGACTGGACATCAGGGCATGTAGGGCACCTTGCCCTGCAACCACA
TCAAGCTGGTCGATGCAGAGGAAGTCACTACTGGACCTGCAAAGGAGAAGGAGAGATATGTGTAAAGG
ACCAAATGTGTTCAAAGGCTACTTAAAAGACGAGGACAGGACAAAGGAGGCCCTGGACAGCGACGGCTGG
CTTCACACTGGAGACATTGGGAAATGGCTGCCGGAGGGAACACTCAAATCATTGATCGGAAAAAGCACA
TATTTAAACTTGCTCAGGGGGAATATGTTGCGCCAGAGAAGATCGAGAACATCTACATCCGGAGTGAGCC
TGTGGCACAATCTACGTCCACGGGGACAGCTTAAAGGCCTTTTTGGTTGGCATTGTCTGCCTGACCCCT
GAAGTCATGCCTTCTGGGCTCAGAAGAAAGGAATCGAAGGGACCTATCAGGAACTCTGCATGAAAAAGG
AATTGAAGAAAGCCATTCTGGATGACATGGTGTGCTGGGGAAAGAAAGCGGACTGCATTCTTTGAACA
GGTTAAAGCCATTTACATCCATTGTGACATGTTCTCTGTTCAAAATGGTCTGCTGACACCAACACTAAAG
GCTAAGAGACCGGAGCTGAGAGAGTACTTCAAAAAGCAAATAGAAGAGCTTTACTTAGTCTCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219239 protein sequence
 Red=Cloning site Green=Tags(s)

MLTFFLVSGGSLWFLAEIALSLLEKMQTQEILRILRPELSDLGQFFRSLSATTLVSVGALAAVLAYWLT
 HRPKALQPPCNLLKQSEEVEDGGGARRSVIGGCTQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPE
 QPYQWLSYQEVAKRAEFLGSGLLQHDCKVGTQFVGVFAQNRPEWIIAELACYTYSMVVPLYDITLGP
 ISYIINTADICTVIVDKPHKATLLEHVERKETPGLKLVILMEPFEDALRERKKCGVDIKSMQAIEDCG
 RENHHAPVPPRPDDLIVCFSTSGTTGNPKGAMLTGHNVADFSGFLKVTESQWAPTCADVHFSYLAH
 FERMVQSVVYCHGGRVGFQGDIRLLSDDMKALRPTIFPVVPRLLNRMYDKIFHQADTSLKRWLEFAAK
 RKQAEVRSIGIRNNSIWDELFFNKIQASLGGHVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTA
 GCTFTTPGDWTSGHVGAPLPCNHIKLVDAEELNYWTCKGEGEICVKGNVFKGYLKDEDRTKEALDSDGW
 LHTGDIGKWLPEGTLKIIDRKKHIFKLAQGEYVAPEKIENIYIRSEPVQIYVHGDSLKAFVLGIVVDP
 EVMPSWAQKKGIEGTQYELCMKKELKKAILDDMVMLGKESGLHSFEQVKAIYIHCDMFSVQNGLLTPTLK
 AKRPELREYFKQIEELYLVSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033597

ORF Size: 2166 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_001033597.1](#), [NP_001028769.1](#)

RefSeq Size: 2592 bp

RefSeq ORF: 2169 bp

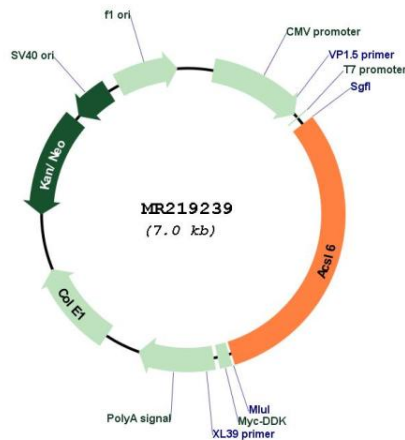
Locus ID: 216739

Cytogenetics: 11 32.13 cM

MW: 80.7 kDa

Gene Summary: Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Plays an important role in fatty acid metabolism in brain and the acyl-CoAs produced may be utilized exclusively for the synthesis of the brain lipid (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219239