

Product datasheet for **MR210290**

Acsl6 (NM_001033599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl6 (NM_001033599) 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:

>MR210290 representing NM_001033599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACCTTCTTCTTGGTGTGCGGGGTTCTCTCTGGTGTGTTGCCGAGATTGCTCTCACTTCTGG
 AGAAGATGCAGACCCAGGAGATCCTGAGGATCCTGCGGCTGCCGAGCTATCGGACTTGGCCAGTTTTT
 CCGCAGCCTCTCAGCTACCACCCTCGTGAGTGTGGGTGCACTGGCTGCCGTCCTTGCCTACTGGCTCACT
 CACCGGCCAAAGGCCTTGAACACCATGCAACCTCCTGAAGCAGTCGGAAGAAGTGAGGACGGTGGT
 GAGCCCGCGATCTGTGATTGGGGTTCAGTCAATTGCTTACCCATTACTATGACGATGCCCGACCAT
 GTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGACCCTGTCTTGGCTTCCGGAAGCCAGAG
 CAACCTTACCAGTGGCTGTCTACCAAGAGGTGGCCAAAAGGGCTGAATTTCTGGGGTGGGGCTTCTCC
 AGCAGACTGTAAAGTGGGCACAGAGCAGTTTCGTTGGTGTGTTTGCACAAAATCGGCCGGAGTGGATCAT
 TGCCGAGCTGGCCTGCTACACGTATTCCATGGTGGTGGTACCGCTCTACGACACCCTGGGCCAGGGTCT
 ATCAGCTACATCAATACTGCGGACATTTGCACGGTAATCGTCGATAAACCCACAAGGCAACACTTC
 TGCTGGAACACGTGGAGAGGAAGGAGACTCCGGGCCTCAAGCTGGTCATCCTCATGGAGCCGTTTGGAGG
 CGCCCTGAGAGAGAGAGGAAAGAAGTGCGGGTGGACATCAAGTCCATGCAGGCTATAGAGGACTGTGGC
 CGAGAGAATCATCATGCCCCGTGCCCCACGGCTGATGACCTCTCATCGTGTGTTTCAAAAGTGGTA
 CAACAGGGAACCCAAAGGTGCAATGCTCACCCACGGGAACGTGGTGGCCGATTTCTCGGGCTTCTGAA
 AGTGACAGAGAGTCAGTGGGCCCCGACCTGTGCGGACGTCACCTTTTCTACTTGCCTTTAGCACACATG
 TTTGAGCGCATGGTGCAGTCTGTTGTCTACTGCCACGGAGGCGCGTGGGCTTCTCCAGGGAGACATCC
 GCCTCCTCAGATGACATGAAGGCTCTCCGCCCTACCATCTTCCCTGTGGTCCCACGGCTGCTGAATCG
 GATGTATGACAAGATCTTCCACCAGCAGACACCTCACTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAG
 CGCAAGCAGGCAGAGGTCCGGAGCGGAATCATCAGAAACAATAGTATCTGGGATGAACTCTTCTTTAATA
 AGATTCAGGCCAGTCTTGGTGGCATGTGAGGATGATTGTCACTGGAGCAGCCCCGCGTCACCAACGGT
 TCTGGGATTCTACGAGCAGCTCTGGGGTCCAGGTCTATGAAGGTTATGGGCAAACTGAATGCACAGCT
 GGGTGTACCTTCAACGCCAGGGGACTGGACATCAGGGCATGTAGGGCACCTTGCCCTGCAACCACA
 TCAAGCTGGTCGATGCAGAGGAACCACTACTGGACCTGCAAAGGAGAAGGAGAGATATGTGTGAAAGG
 ACCAAATGTGTTCAAAGGCTACTTAAAAGACGAGGACAGGACAAAGGAGGCCCTGGACAGCGACGGCTGG
 CTTCACTGGAGACATTGGGAAATGGCTGCCGGAGGGAACACTCAAATCATTGATCGGAAAAAGCACA
 TATTTAAACTTGCTCAGGGGGAATATGTTGCGCCAGAGAAGATCGAGAACATCTACATCCGGAGTGAGCC
 TGTGGCACAATCTACGTCCACGGGACAGCTTAAAGGCCTTTTTGGTTGGCATTGTCTGCCTGACCCCT
 GAAGTCATGCCTTCTGGGCTCAGAAGAAAGGAATCGAAGGGACCTATCAGGAACTTGCAATGAAAAAGG
 AATTGAAGAAAGCCATTCTGGATGACATGGTGTGCTGGGGAAAGAAAGCGGACTGCATTCTTTGAAACA
 GGTTAAAGCCATTTACATCCATTGTGACATGTTCTCTGTTCAAAATGGTCTGCTGACACCAACACTAAAG
 GCTAAGAGACCGGAGCTGAGAGAGTACTTCAAAAAGCAAATAGAAGAGCTTTACTTAGTCTCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210290 representing NM_001033599
 Red=Cloning site Green=Tags(s)

MLTFFLVSGGSLWFLAEIALSLLEKMQTQEILRILRLPELSDLGQFFRSLSATTLVSVGALAAVLAYWLT
 HRPKALQPPCNLLKQSEEVEDGGGARRSVIGGCTQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPE
 QPYQWLSYQEVAKRAEFLGSSLLQHDCKVGTQFVGVFAQNRPEWIIAELACYTYSMVVPLYDTLGPGS
 ISYIINTADICTVIVDKPHKATLLEHVERKETPGLKLVILMEPFEDALRERKKCGVDIKSMQAIEDCG
 RENHHAPVPPRDDLIVCFSTSGTTGNPKGAMLTGHNVAADFSGFLKVTESQWAPTCADVHFSYLAHML
 FERMVQSVVYCHGGRVGFQGDIRLLSDDMKALRPTIFPVVPRLLNRMVDKIFHQADTSLKRWLEFAAK
 RKQAEVRSIGIIRNNSIWDELFFNKIQASLGGHVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTA
 GCTFTTPGDWTSGHVGAPLPCNHIKLVDAEELNYWTCKGEGEICVKGNVFKGYLKDEDRTKEALDSDGW
 LHTGDIGKWLPEGTLKIIDRKKHIFKLAQGEYVAPEKIENIYIRSEPVQIYVHGDSLKAFVLGIVVDPDP
 EVMPSWAQKKGIEGTQYQELCMKKELKKAILDDMVMLGKESGLHSFEQVKAIYIHCDMFSVQNGLLTPTLK
 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_001033599

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 Size: 2767 bp

RefSeq ORF: 2094 bp

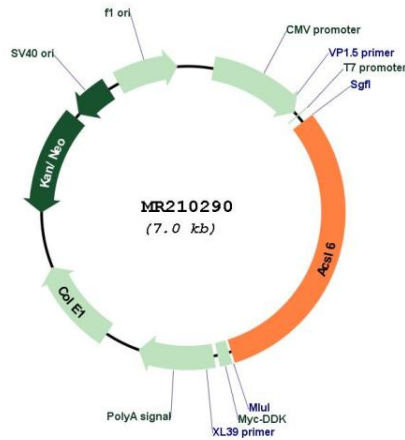
Locus ID: 216739

Cytogenetics: 11 32.13 cM

MW: 78.4 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 MR210290