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Product datasheet for MR219238

Acsl6 (NM_144823) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acsl6 (NM_144823) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acsl6
Synonyms:	A330035H04Rik; AW050338; Facl6; LACS; Lacsl; mKIAA0837
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR219238 representing NM_144823
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGACCTTCTTCTTGGTGTCGGGGGGTTCTCTCTGGCTGTTTGCCGAGATTGCTCTCTCACTTCTGG
AGAAGATGCAGACCCAGGAGATCCTGAGGATCCTGCGGCTGCCCGAGCTATCGGACTTGGGCCAGTTTTT
CCGCAGCCTCTCAGCTACCACCCTCGTGAGTGTGGGTGCACTGGCTGCCGTCCTTGCCTACTGGCTCACT
CACCGGCCAAAGGCCTTGCAACCACCATGCAACCTCCTGAAGCAGTCGGAAGAAGTGGAGGACGGTGGTG
GAGCCCGGCGATCTGTGATTGGGGGTTGCACTCAATTGCTTACCCATTACTATGACGATGCCCGGACCAT
GTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGACCCTGTCTTGGCTTCCGGAAGCCAGAG
CAACCTTACCAGTGGCTGTCCTACCAAGAGGTGGCCAAAAGGGCTGAATTTCTGGGGTCGGGGCTTCTCC
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TGCCGAGCTGGCCTGCTACACGTATTCCATGGTGGTGGTACCGCTCTACGACACCCTGGGCCCAGGGTCT
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TGCTGGAACACGTGGAGAGGAAGGAGACTCCGGGCCTCAAGCTGGTCATCCTCATGGAGCCGTTTGAGGA
CGCCCTGAGAGAGAGAGGAAAGAAGTGCGGGGTGGACATCAAGTCCATGCAGGCTATAGAGGACTGTGGC
CGAGAGAATCATCATGCCCCCGTGCCCCCACGGCCTGATGACCTCTCCATCGTGTGTTTCACAAGTGGTA
CAACAGGGAACCCCAAAGGTGCAATGCTCACCCACGGGAACGTGGTGGCCGATTTCTCGGGCTTTCTGAA
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TTTGAGAGAGTGATCCAGTCTGTTGTCTACTGCCACGGAGGGCGCGTGGGCTTCTTCCAGGGAGACATCC
GCCTCCTCTCAGATGACATGAAGGCTCTCCGCCCTACCATCTTCCCTGTGGTCCCACGGCTGCTGAATCG
GATGTATGACAAGATCTTCCACCAGGCAGACACCTCACTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAG
CGCAAGCAGGCAGAGGTCCGGAGCGGAATCATCAGAAACAATAGTATCTGGGATGAACTCTTCTTTAATA
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TCAAGCTGGTCGATGCAGAGGAACTCAACTACTGGACCTGCAAAGGAGAAGGAGAGATATGTGTGAAAGG
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AATTGAAGAAAGCCATTCTGGATGACATGGTGATGCTGGGGAAAGAAAGCGGACTGCATTCTTTTGAACA
GGTTAAAGCCATTTACATCCATTGTGACATGTTCTCTGTTCAAAATGGTCTGCTGACACCAACACTAAAG
GCTAAGAGACCGGAGCTGAGAGAGTACTTCAAAAAGCAAATAGAAGAGCTTTACTTAGTCTCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219238 representing NM_144823
Red=Cloning site Green=Tags(s)

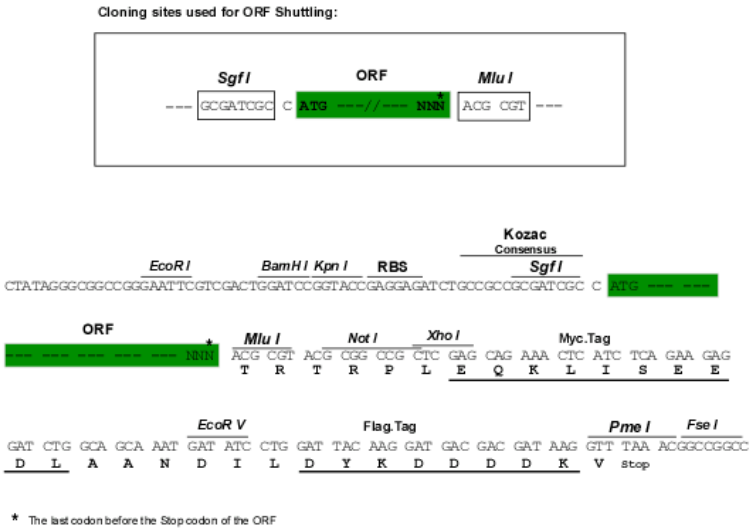
MLTFFLVSGGSLWLFAEIALSLLEKMQTQEILRILRLPELSDLGQFFRSLSATTLVSVGALAAVLAYWLT
HRPKALQPPCNLLKQSEEVEDGGGARRSVIGGCTQLLTHYYDDARTMYQVFRRGLSISGNGPCLGFRKPE
QPYQWLSYQEVAKRAEFLGSGLLQHDCKVGTEQFVGVFAQNRPEWIIAELACYTYSMVVVPLYDTLGPGS
ISYIINTADICTVIVDKPHKATLLLEHVERKETPGLKLVILMEPFEDALRERGKKCGVDIKSMQAIEDCG
RENHHAPVPPRPDDLSIVCFTSGTTGNPKGAMLTHGNVVADFSGFLKVTEKVIFPRQDDVLISFLPLAHM
FERVIQSVVYCHGGRVGFFQGDIRLLSDDMKALRPTIFPVVPRLLNRMYDKIFHQADTSLKRWLLEFAAK
RKQAEVRSGIIRNNSIWDELFFNKIQASLGGHVRMIVTGAAPASPTVLGFLRAALGCQVYEGYGQTECTA
GCTFTTPGDWTSGHVGAPLPCNHIKLVDAEELNYWTCKGEGEICVKGPNVFKGYLKDEDRTKEALDSDGW
LHTGDIGKWLPEGTLKIIDRKKHIFKLAQGEYVAPEKIENIYIRSEPVAQIYVHGDSLKAFLVGIVVPDP
EVMPSWAQKKGIEGTYQELCMKKELKKAILDDMVMLGKESGLHSFEQVKAIYIHCDMFSVQNGLLTPTLK
AKRPELREYFKKQIEELYLVSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

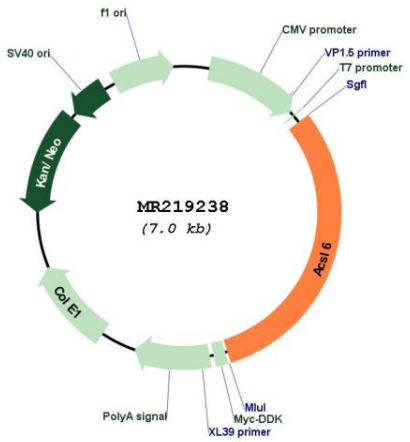


ACCN: NM_144823

ORF Size: 2166 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 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_144823.4, NP_659072.3
RefSeq Size:	2592 bp
RefSeq ORF:	2169 bp
Locus ID:	216739
Cytogenetics:	11 32.13 cM
MW:	81.2 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 MR219238