

## Product datasheet for **MR210102**

### **Acsl6 (NM\_001033598) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsl6 (NM_001033598) 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:**

>MR210102 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGACCCAGGAGATCCTGAGGATCCTGCGGCTGCCGAGCTATCGGACTTGGCCAGTTTTTCCGCA  
 GCCTCTCAGCTACCACCCTCGTGAGTGTGGGTGCACTGGCTGCCGTCCTTGCCTACTGGCTCACTACCG  
 GCCAAAGGCCTTGAACACCATTGCAACCTCCTGAAGCAGTCGGAAGAAGTGGAGACGGTGGTGGAGCC  
 CGGCGATCTGTGATTGGGGTTGCACTCAATTGCTTACCATTACTATGACGATGCCCGACCATGTACC  
 AGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGACCCTGTCTTGGCTTCCGGAAGCCAGAGCAACC  
 TTACCAGTGGCTGTCTACCAAGAGGTGGCCAAAAGGGCTGAATTTCTGGGGTCCGGGCTTCTCCAGCAC  
 GACTGTAAAGTGGGCACAGAGCAGTTTCGTTGGTGTTCGACAAAATCGGCCGGAGTGGATCATTGCCG  
 AGCTGGCCTGCTACACGTATCCATGGTGGTGGTACCGCTCTACGACACCCTGGGCCAGGGTCTATCAG  
 CTACATCAATACTGCGGACATTTGCACGGTAATCGTCGATAAACCCACAAGCAACTTCTGCTG  
 GAACACGTGGAGAGGAAGGAGACTCCGGCCCTCAAGCTGGTCATCCTCATGGAGCCGTTTGGAGCGCC  
 TGAGAGAGAGAGAAAGAAGTGCGGGGTGGACATCAAGTCCATGCAGGCTATAGAGGACTGTGGCCGAGA  
 GAATCATCATGCCCCGTGCCCCACGGCCTGATGACCTCTCCATCGTGTGTTTACAAGTGGTACAACA  
 GGGAAACCCAAAGGTGCAATGCTCACCCACGGGAACGTGGTGGCCGATTTCTCGGGCTTTCTGAAAGTGA  
 CAGAGAAAGTGATCTTCCGAGACAGGACGATGTGCTCATCTCCTTCTGCTCTGGCTCACATGTTTGA  
 GAGAGTGATCCAGTCTGTGTCTACTGCCACGGAGGGCGCGTGGGCTTCTCCAGGGAGACATCCGCCTC  
 CTCTCAGATGACATGAAGGCTCTCCGCCCTACCATCTCCCTGTGGTCCCACGGCTGTGAATCGGATG  
 ATGACAAGATCTTCCACCAGGCAGACACTCACTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAGCGCAA  
 GCAGGCAGAGGTCGGAGCGGAATCATCAGAAACAATAGTATCTGGGATGAACTCTCTTTAATAAGATT  
 CAGGCCAGTCTTGGTGGGCATGTGAGGATGATTGTCACTGGAGCAGCCCCGCGTCACCAACGGTCTGG  
 GATTCTACGAGCAGCTCTGGGGTCCAGGTCTATGAAGGTTATGGGCAAACTGAATGCACAGCTGGGTG  
 TACCTTACAACGCCAGGGGACTGGACATCAGGGCATGTAGGGCACCTCTGCCCTGCAACCACATCAAG  
 CTGGTCGATGCAGAGGAACCACTACTGGACCTGCAAAGGAGAAGGAGAGATATGTGTAAAGGACCAA  
 ATGTGTTCAAAGGCTACTTAAAAGACGAGGACAGGACAAAGGAGGCCCTGGACAGCGACGGCTGGCTTCA  
 CACTGGAGACATTGGGAAATGGCTGCCGGAGGGAACACTCAAAATCATTGATCGGAAAAAGCACATATTT  
 AAAGTGTCTCAGGGGAATATGTTGCGCCAGAGAAGATCGAGAACATCTACATCCGGAGTGAGCCTGTGG  
 CACAAATCTACGTCCACGGGGACAGCTTAAAGGCCTTTTGGTTGGCATTGTCTGCTGACCCCTGAAGT  
 CATGCCTTCTGGGCTCAGAAGAAAGGAATCGAAGGGACCTATCAGGAACTCTGCATGAAAAAGGAATTG  
 AAGAAAGCCATTCTGGATGACATGGTGTGCTGGGGAAAGAAAGCGGACTGCATTCTTTGAACAGGTTA  
 AAGCCATTTACATCCATTGTGACATGTTCTGTTCAAAATGGTCTGCTGACACCAACTAAAGGCTAA  
 GAGACCGGAGCTGAGAGAGTACTTCAAAAAGCAAAATAGAAGAGCTTTACTTAGTCTCCGTG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210102 protein sequence  
Red=Cloning site Green=Tags(s)

MQTQEILRILRLEPELSDLGQFFRSLSATTLVSVGALAAVLAYWLTHRPKALQPPCNLLKQSEEVEDGGGA  
 RRSVIGGCTQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPEQPYQWLSYQEVAKRAEFLGSGLLQH  
 DCKVGTGEQFVGVFAQNRPEWIIAELACYTYSMVVPLYDTLGPGSISYIINTADICTVIIDKPHKATLLL  
 EHVERKETPGLKLVILMEPFEDALRERGGKCGVDIKSMQAIEDCGRENHHAPVPPRPDDLIVCFSTGTT  
 GNPKGAMLTGHNVDVDFSGFLKVTEKVIQVPRQDDVLISFLPLAHMFERVIQSVVYCHGGRVGFQGDRL  
 LSDDMKALRPTIFPVVPRLLNRMYSKIFHQADTSLKRWLEFAAKRQAEVRSIGIIRNNSIWDELFFNKI  
 QASLGGHVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTAGCTFTTPGDWTSGHVAPLPCNHK  
 LVDAEELNYWTKGEGEICVKGNVFKGKYLKDEDRTKEALDSDGWLHTGDIGKWLPEGTLKIIDRKKHIF  
 KLAQGEYVAPEKIENIYIRSEVVAQIYVHGDLSKAFLVGIVVPDPEVMPSWAQKKGIEGTQELCMKKEL  
 KKAILDMMVMLGKESGLHSFEQVKAIYIHCDMFSVQNGLLTPTLAKRPELREYFKKQIEELYLVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033598

**ORF Size:** 2094 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\\_001033598.1](#), [NP\\_001028770.1](#)

**RefSeq Size:** 2561 bp

**RefSeq ORF:** 2094 bp

**Locus ID:** 216739

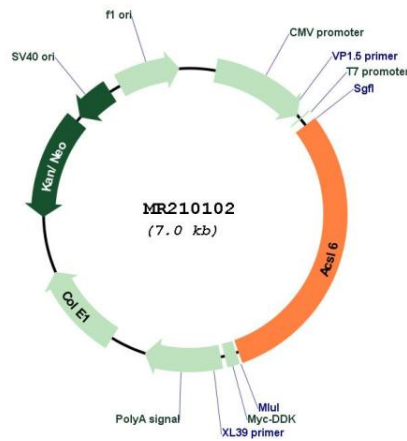
**UniProt ID:** [Q91WC3](#)

**Cytogenetics:** 11 32.13 cM

**MW:** 78 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 MR210102