

## Product datasheet for **MG210290**

### **Acsl6 (BC022959) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acsl6 (BC022959) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acsl6
Synonyms:	MGC36650, LACS, mKIAA0837
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MG210290 representing BC022959  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGACCTTCTTCTGGTGTGCGGGGTTCTCTCTGGCTGTTTCCGAGATTGCTCTCACTTCTGG  
 AGAAGATGCAGACCCAGGAGATCCTGAGGATCCTGCGGCTGCCCGAGCTATCGGACTTGGCCAGTTTTT  
 CCGCAGCCTCTCAGCTACCACCCTCGTGAGTGTGGGTGCACTGGCTGCCGTCCTTGCCTACTGGCTCACT  
 CACCGGCCAAAGGCCTTGAACACCATGCAACCTCCTGAAGCAGTCGGAAGAAGTGAGGACGGTGGT  
 GAGCCCGCGATCTGTGATTGGGGTTGCACTCAATTGCTTACCCATTACTATGACGATGCCCGGACCAT  
 GTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGACCCTGTCTTGGCTTCCGGAAGCCAGAG  
 CAACCTTACCAGTGGCTGTCTACCAAGAGGTGGCCAAAAGGGCTGAATTTCTGGGGTGGGGCTTCTCC  
 AGCAGACTGTAAAGTGGGCACAGAGCAGTTTCGTTGGTGTTCGACAAAATCGGCCGGAGTGGATCAT  
 TGCCGAGCTGGCCTGCTACACGTATTCCATGGTGGTGGTACCGCTCTACGACACCCTGGGCCAGGGTCT  
 ATCAGCTACATCAATACTGCGGACATTTGCACGGTAATCGTCGATAAACCCACAAGGCAACACTTC  
 TGCTGGAACACGTGGAGAGGAAGGAGACTCCGGGCCTCAAGCTGGTCATCCTCATGGAGCCGTTTGGAGG  
 CGCCCTGAGAGAGAGAGGAAAGAAGTGCGGGGTGGACATCAAGTCCATGCAGGCTATAGAGGACTGTGGC  
 CGAGAGAATCATCATGCCCCCGTCCCCCAGCGCTGATGACCTCTCCATCGTGTGTTTCAAAAGTGGTA  
 CAACAGGGAACCCCAAAGGTGCAATGCTCACCCACGGGAACGTGGTGGCCGATTTCTCGGGCTTTCTGAA  
 AGTGACAGAGAGTCAGTGGGCCCCGACCTGTGCGGACGTCACCTTTTCTACTTGCCTTTAGCACACATG  
 TTTGAGCGCATGGTGCAGTCTGTTGTCTACTGCCACGGAGGCGCGTGGGCTTCTCCAGGGAGACATCC  
 GCCTCCTCAGATGACATGAAGGCTCTCCGCCCTACCATCTTCCCTGTGGTCCCACGGCTGCTGAATCG  
 GATGTATGACAAGATCTTCCACCAGGCAGACACCTCACTAAAGCGCTGGCTCCTGGAGTTTGCAGCAAAG  
 CGCAAGCAGGCAGAGGTCCGGAGCGGAATCATCAGAAACAATAGTATCTGGGATGAACTCTTCTTTAATA  
 AGATTCAGGCCAGTCTTGGTGGGCATGTGAGGATGATTGTCACTGGAGCAGCCCCGCGTCACCAACGGT  
 TCTGGGATTCCTACGAGCAGCTCTGGGGTCCAGGTCTATGAAGGTTATGGGCAAAGTGAATGCACAGCT  
 GGGTGTACCTTCAACGCCAGGGGACTGGACATCAGGGCATGTAGGGCACCTTGCCTGCAACCACA  
 TCAAGCTGGTCGATGCAGAGGAAGTCACTACTGGACCTGCAAAGGAGAAGGAGAGATATGTGTAAAGG  
 ACCAAATGTGTTCAAAGGCTACTTAAAAGACGAGGACAGGACAAAGGAGGCCCTGGACAGCGACGGCTGG  
 CTTCACTGGAGACATTGGGAAATGGTGCCTGGAGGGAACACTCAAATCATTGATCGGAAAAAGCACA  
 TATTTAAACTTGCTCAGGGGGAATATGTTGCGCCAGAGAAGATCGAGAACATCTACATCCGGAGTGAGCC  
 TGTGGCACAATCTACGTCCACGGGGACAGCTTAAAGGCCTTTTTGGTTGGCATTGTCTGCCTGACCCCT  
 GAAGTCATGCCTTCTGGGCTCAGAAGAAAGGAATCGAAGGGACCTATCAGGAACTCTGCATGAAAAAGG  
 AATTGAAGAAAGCCATTCTGGATGACATGGTGTGCTGGGGAAAGAAAGCGGACTGCATTCTTTGAACA  
 GGTTAAAGCCATTTACATCCATTGTGACATGTTCTCTGTTCAAATGGTCTGCTGACACCAACACTAAAG  
 GCTAAGAGACCGGAGCTGAGAGAGTACTTCAAAAAGCAAATAGAAGAGCTTTACTTAGTCTCCGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210290 representing BC022959  
Red=Cloning site Green=Tags(s)

```

MLTFFLVSGGSLWLFAEIALSLLEKMQTQEILRILRRLPELSDLGQFFRSLSATTLVSVGALAAVLAYWLT
HRPKALQPPCNLLKQSEEVEDGGGARRSVIGGCTQLLTHYYDDARTMYQVFRRLSISGNGPCLGFRKPE
QPYQWLSYQEVAKRAEFLGSGLLQHDCKVGTQFVGVFAQNRPEWIIAELACYTYSMVVPLYDTLGPGS
ISYIINTADICTVIVDKPHKATLLEHVERKETPGLKLVILMEPFEDALRERGGKCGVDIKSMQAIEDCG
RENHHAPVPPRDDLIVCFSTGTTGNPKGAMLTGHNVVADFSGFLKVTESQWAPTCADVHFSYLAHMH
FERMVQSVVYCHGGRVGFQGDIRLLSDDMKALRPTIFPVVPRLLNRMVDKIFHQADTSLKRWLLEFAAK
RKQAEVRSIGIIRNNSIWDELFFNKIQASLGGHVRMIVTGAAPASPTVLGFLRAALGCQVYEGYQTECTA
GCTFTTPGDWTSGHVGAPLPCNHIKLVDAEELNYWTCKGEGEICVKGNVFKGYLKDEDRTKEALDSDGW
LHTGDIGKWLPEGTLKIIDRKKHIFKLAQGEYVAPEKIENIYIRSEPVQIYVHGDSLKAFLVGIVVDPD
EVMPSWAQKKGIEGTQYQELCMKKELKKAILLDDMVMLGKESGLHSFEQVKAIYIHCDMFSVQNGLLTPTLK
AKRPELREYFKQIEELYLVSV
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC022959

**ORF Size:** 2168 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:** [BC022959](#), [AAH22959](#)

**RefSeq Size:** 2619 bp

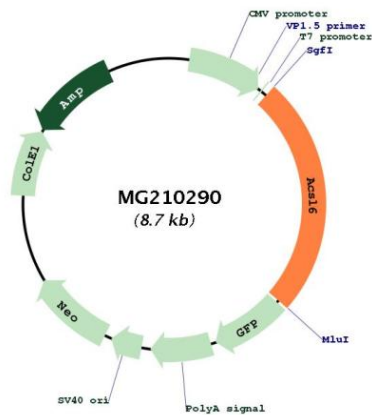
**RefSeq ORF:** 2168 bp

**Locus ID:** 216739

**Cytogenetics:** 11 32.13 cM

**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 MG210290