

## Product datasheet for **MC201650**

### Slc27a1 (NM\_011977) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a1 (NM_011977) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc27a1
Synonyms:	Fatp; FATP1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC028937 sequence for NM\_011977  
 ATCCCCTGAAGGGACCCACCAGCTAGGCCTGAGCTCAGAACTTCCCAGTCCAGACTTCTGTGAGAACCTG  
 CGAGGGAGCAGCAAGGGCCAGGGATCTCTCTCCACCCCGGGTGTGAATTTGACTTTCTCGGAGTCT  
 GGAATGCTGAGAAGCCTCGGGCTTGGATCTAGGACAAGCTGGATCAGGCAAGCTCCAGCACAGGATGCG  
 GGCTCCTGGAGCAGGAACAGCCTCTGTGGCCTCACTGGCGCTGCTTTGGTTTCTGGGACTCCGTGGACC  
 TGGAGCGCGGCGCGGCTTCTGTGTACGTGGGTGGCGCGGCTGGCGCTTTCTGCGTATCGTCTGCA  
 AGACGGCAGGGCAGACCTCTTTGGCCTCTGTTCTGATTCTGTTTCGGCTAGAGCTGCGACGACACCG  
 GCGAGCAGGAGACAGATCCCGTGCATCTTCCAGGCTGTGGCCCGGCGACAACCAGAGCGCCTGGCACTG  
 GTGGACGCCAGTAGTGGTATATGCTGGACCTTCGCACAGCTGGACACCTACTCCAATGCTGTAGCCAACC  
 TGTTCGCCAGCTGGGCTTTCACCAGGCGATGTGGTGGCTGTGTTCTGGAGGGCCGGCCGGAGTTCGT  
 GGGACTGTGGCTGGGCTGGCCAAGGCCGTGTGGTGGCTGCTTCTCAATGTCAACCTGAGGCGGGAG  
 CCCCTGGCCTTCTGCCTGGGCACATCAGCTGCCAAGGCCCTCATTTATGGCGGGGAGATGGCAGCGGCGG  
 TGGCGGAGGTGAGCGAGCAGCTGGGGAAGAGCCTCCTCAAGTTCTGCTCTGGAGATCTGGGCTGAGAG  
 CATCCTGCCTGACACGCAGCTCCTGGACCCATGCTTGTGAGGGCGCCACCACACCCTGGCACAAGCC  
 CCAGGCAAGGCCATGGATGATCGGCTGTTTACATCTATACTTCTGGGACCACCGGGCTTCTAAGGCTG  
 CCATTGTTGGTGCACAGCAGGTAACCGATTGCTGCCTTTGGCCACCATTCTACAGCATGCGTGGCCG  
 CGATGTGCTCTATGACTGCCTGCCACTCTACCCTCTGCAGGGAACATCATGGGTGTGGGACAGTGCCT  
 ATCTACGGGTTGACGGTGGTACTGCGCAAGAAGTTCTCCGCCAGCCGCTTCTGGGATGACTGTGTCAAGT  
 ACAATTGCACGGTAGTGCAGTACATAGGTGAAATCTGCCGCTACCTGCTGAGGCAGCCGGTTCGCGACGT  
 GGAGCAGCGACACCGGCTGCGCCTGGCCGTGGTAATGGGCTGCGGCCAGCCATCTGGGAGGAGTTCAGG  
 CAGCGCTTCGGTGTGCCACAGATCGGCGAGTCTACGGCGCTACCGAGTGCAACTGCAGCATTGCCAACA  
 TGGACGGCAAGGTCGGCTCCTGCGGCTTCAACAGCCGATCCTCACGCATGTGTACCCCATCCGTCTGGT  
 CAAGGTCAATGAGGACACGATGGAGCCACTGCGGACTCCGAGGGCTCTGCATCCCGTCCAGCCCGGG  
 GAACCCGGCCTTCTCGTGGGCCAGATCAACCAGCAGGACCCTCTGCGGCGTTCGATGGTTATGTTAGTG  
 ACAGTGCCACCAACAAGAAGATTGCCACAGCGTTTTCCGAAAGGGCGATAGCGCCTACCTCTCAGGTGA  
 CGTGCTAGTGATGGACGAGCTGGGCTACATGTATTTCCGTGACCGCAGCGGGACACCTTCGCTGGCGC  
 GGGGAGAACGTGTCCACCACGGAGGTGGAAGCCGTGCTGAGCCGCTACTGGGCCAGACGGACGTGGCTG  
 TGTATGGGGTGGCTGTGCCAGGAGTGGAGGGGAAAGCTGGCATGGCAGCCATCGCAGATCCCACAGCCA  
 GTTGGACCCTAACTCAATGTACCAGGAATTACAGAAGGTTCTTGCATCCTATGCTCGGCCATCTTCTCTG  
 CGTCTTCTGCCCCAGGTGGATACCACAGGCACCTTCAAGATCCAGAAGACCCGGCTGCAGCGTGAAGGCT  
 TTGACCCCGTCAAGCCTCAGACAGGCTCTTCTTCTAGACCTGAAGCAGGGACGCTATGTACCCCTGGA  
 TGAGAGAGTCCATGCCCGCATTTGTGCAGGCGACTTCTACTCTGAGCCTGGAGAGTGGGCTGGGCCTGG  
 ACTCCTGAGACCTGGGAGCCTGACACCCCTCTTCCGGTGTCTTCTCTGCCTGGCCACATGGACAGCAGCA  
 CCTGTGAGAGTAGGAAAATGGAACCTGAGTGGCTGGGACCCTCTCCTACTTCCCCTATGCATCCATTT  
 TGCCCTCTGCCTTATCTTTTCTCCATCTCTTTTCTCCCTACCCAGCAGGAGCCCCACAAACACATGTTG  
 GCTGCTGTGCTCAGTGGACAGTGTCCAGGGGTACAGGCTTACGGCTGTGACCCACACTGGTACCC  
 ACCTCCCTTTCTATTGTGCCTTAGGTTTATCCACGGTCCCTGTGGAGCAAGTGGGGGCCACATAGC  
 TGCTGTCCCTGCTGAGGGTTGGTAGCAATCACACCCTCATGTAGCTGGGAGACACGCGCAGTCTCCCAC  
 TGACCCCAATCAACTGAAAATATGTTTTGACTACTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 GTTTTTTCGAGACAGATTTCTCTGTATAGCCCTGGCTGTCTGGAACCTACTTTGTAGACCAGGCTGGCC  
 TCGAAAATCAGAAATCCACTGCCTCTGCCTCCCTAGTGCTGGGATTAAAGACATGCGCCCCCCCCAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_011977  
**Insert Size:** 1941 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](mailto: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](#)

**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:** [BC028937](#), [AAH28937](#)

**RefSeq Size:** 2828 bp

**RefSeq ORF:** 1941 bp

**Locus ID:** 26457

**UniProt ID:** [Q60714](#)

**Cytogenetics:** 8 B3.3

**Gene Summary:** Mediates the ATP-dependent import of long-chain fatty acids (LCFA) into the cell by mediating their translocation at the plasma membrane (PubMed:7954810, PubMed:9786857, PubMed:9671728, PubMed:10471110, PubMed:12235169, PubMed:11970897, PubMed:15699031, PubMed:28178239). Has also an acyl-CoA ligase activity for long-chain and very-long-chain fatty acids (PubMed:10593920, PubMed:12235169, PubMed:12937175). May act directly as a bona fide transporter, or alternatively, in a cytoplasmic or membrane-associated multimeric protein complex to trap and draw fatty acids towards accumulation (PubMed:14991074, PubMed:15897321). Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation or triglyceride synthesis (PubMed:12235169). May be involved in regulation of cholesterol metabolism (PubMed:12235169).[UniProtKB/Swiss-Prot Function]