

Product datasheet for **MR209726**

Slc27a1 (NM_011977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a1 (NM_011977) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a1
Synonyms:	Fatp; FATP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209726 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGGCTCCTGGAGCAGGAACAGCCTCTGTGGCCTCACTGGCGCTGCTTTGGTTTCTGGGACTTCCGT
 GGACCTGGAGCGCGCGCGGCGTTCTGTGTGTACGTGGGTGGCGCGGCTGGCGCTTTCTGCGTATCGT
 CTGCAAGACGGCGAGGCGAGACCTCTTTGGCCTCTCTGTTCTGATTCTGTTTCCGGCTAGAGCTGCGACGA
 CACCGGCGAGCAGGAGACACGATCCCGTGCATCTTCCAGGCTGTGGCCCGGCGACAACCAGAGCGCCTGG
 CACTGGTGGACGCCAGTAGTGGTATATGCTGGACCTTCGCACAGCTGGACACCTACTCCAATGCTGTAGC
 CAACCTGTTCCGCCAGCTGGGCTTTCACCAGGCGATGTGGTGGCTGTGTTCTGGAGGGCCGGCCGGAG
 TTCGTGGGACTGTGGCTGGCCAGGCCGGTGTGGTGGCTGCTTCTCAATGTCAACCTGAGGC
 GGGAGCCCTGGCCTTTCCTGGCCACATCAGCTGCCAAGGCCCTCATTTATGGCGGGGAGATGGCAGC
 GCGGTGGCGGAGGTGAGCGAGCAGCTGGGGAAGAGCCTCCTCAAGTTCTGCTCTGGAGATCTGGGGCT
 GAGAGCATCCTGCCTGACACGCAGCTCCTGGACCCATGCTTGTGAGGGGCCACCACACCCCTGGCAC
 AAGCCCCAGGCAAGGCCATGGATGATCGGCTGTTTACATCTATACTTCTGGGACCACCGGGCTTCTCAA
 GGCTGCCATTGTGGTGCACAGCAGGTAACCGCATTGCTGCCTTGGCCACCATTCTACAGCATGCGT
 GCCGCCGATGTGCTCTATGACTGCCTGCCACTCTACCACTCTGCAGGGAACATCATGGGTGTGGGCGAGT
 GCGTCATCTACGGGTTGACGGTGGTACTGCGCAAGAAGTTCTCCGCCAGCCGCTTCTGGGATGACTGTGT
 CAAGTACAATTGCACGGTAGTGCAGTACATAGGTAAAATCTGCCGCTACCTGTGAGGCAGCCGTTTCGC
 GACGTGGAGCAGCGACACCGGTGCGCCTGGCCGTGGTAATGGGCTGCGGCCAGCCATCTGGGAGGAGT
 TCACGCAGCGCTTCGGTGTGCCACAGATCGGCGAGTTCTACGGCGCTACCGAGTGCAACTGCAGCATTGC
 CAACATGGACGGCAAGGTCGGCTCCTGCGGCTTCAACAGCCGTATCCTCACGCATGTGTACCCCATCCGT
 CTGGTCAAGGTCAATGAGGACACGATGGAGCCACTGCGGGACTCCGAGGGCCTCTGCATCCCGTGGCAGC
 CCGGGGAACCCGGCCTTCTCGTGGGCCAGATCAACCAGCAGGACCCTCTGCGGCGTTTCGATGGTTATGT
 TAGTGACAGTGCCACCAACAAGAAGATTGCCACAGCGTTTTCCGAAAGGGCGATAGCGCTACCTCTCA
 GGTGACGTGCTAGTGATGGACGAGCTGGGCTACATGTATTTCCGTGACCGCAGCGGGACACCTTCCGCT
 GCGCGGGGAGAACGTGTCCACCACGGAGGTGGAAGCCGTGCTGAGCCGCTACTGGCCAGACGGACGT
 GGCTGTGTATGGGGTGGCTGTGCCAGGAGTGGAGGGAAAGCTGGCATGGCAGCCATCGCAGATCCCCAC
 AGCCAGTTGGACCCTAACTCAATGTACCAGGAATTACAGAAGGTTCTTGCATCCTATGCTCGGCCATCT
 TCCTGCGTCTTCTGCCCCAGGTGGATACCACAGGCACCTTCAAGATCCAGAAGACCCGGCTGCAGCGTGA
 AGGCTTTGACCCCGTCAGACCTCAGACAGGCTCTTCTTTCTAGACCTGAAGCAGGGACGCTATGTACCC
 CTGGATGAGAGAGTCCATGCCCGCATTGTGCAGGCGACTTCTCACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209726 protein sequence
 Red=Cloning site Green=Tags(s)

MRAPGAGTASVASLALLWFLGLPWTWSAAAAFCVYVGGGGWRFLRIVCKTARRDLFGLSVLIRVRELR
 HRRAGDTIPCIFQAVARRQPERLALVDASSGICWTF AQLDTYSNAVANLFRQLGFAPGDVVAVFLEGRPE
 FVGLWLGLAKAGVVAALLNVNLRREPLAFCLGTSAAKAL IYGGEMAAVAEVSEQLGKSLKFCSDGLGP
 ESILPDTQLLDPMLAEAPTTPLAQAPGKGMDDRLFYIYTSGTTGLPKAAI VVHSRYRIA AAFGHHSYSMR
 AADVLYDCLPLYHSAGNIMGVQCVIYGLTVVLRKKFSASRFWDDCVKYNCTVVQYIGEICRYLLRQPVR
 DVEQRHRVRLAVGNLRPAIWEFFTQRFQVPIGEFYGATECNC SIANMDGKVGSCGFNSRILTHVYPIR
 LVKVNEDTMEPLRDSEGLCIPCQPGEPGLLVGQINQDPLRRFDGYVSDSATNKKIAHSVFRKGD SAYLS
 GDVLMDELGYMYFRDRSGDTRFRWGENVSTTEVEAVLSRL LGQTDVAVYGVAVPGVEGKAGMAIADPH
 SQLDPNSMYQELQKVLASYARPIFLRLLPQVDTTGTFKIQKTRLQREGFDPRTSDRLFFLDLKQGRYVP
 LDERVHARICAGDFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_011977

ORF 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 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_011977.4](#)

RefSeq Size: 2795 bp

RefSeq ORF: 1941 bp

Locus ID: 26457

UniProt ID: [Q60714](#)

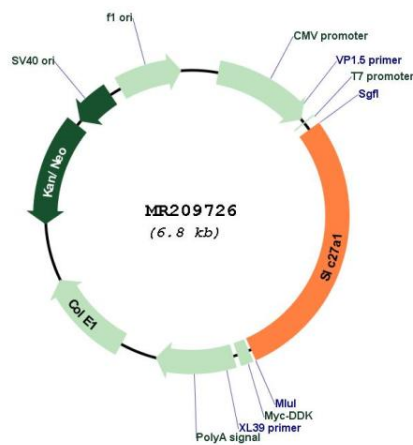
Cytogenetics: 8 B3.3

MW: 71.3 kDa

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]

Product images:



Circular map for MR209726