

Product datasheet for **MR221519**

Slc27a6 (NM_001081072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a6 (NM_001081072) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a6
Synonyms:	4732438L20Rik; FACVL2; FATP6; VLCS-H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221519 representing NM_001081072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCCTGTCATGGCTCACAGGATTGGGGCTGGACTGCTCTCCCTGCATTTCTCGAGAACTTCTGT
 TCCCGTATTTCTGGGATGATTTCTGGTACTTGCTGAAGGTGGTGCCTACGGAATTCAGATGGAGATGTA
 CAAACTGAGGGGGGAGCTGGTACCGGTGCTGGATAAGTTCCTGAGCCACACCAGGAAGCAACCACGGAAA
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 CTTGTTTCATGTGTGGTTTGGCCTGGCTAACTGGGCTGCGTGGTGGCCTTCTCAACTCCAACCTTCGC
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 GTCACCTCAAGCCTCAAGTCTACTTGCCTCTACATTTTTACCTCTGGAACAACAGGTCTACCCAAAGCAG
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 GATTTATAATCAGATAATGTCAGAGGAAGTTAAACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221519 representing NM_001081072
 Red=Cloning site Green=Tags(s)

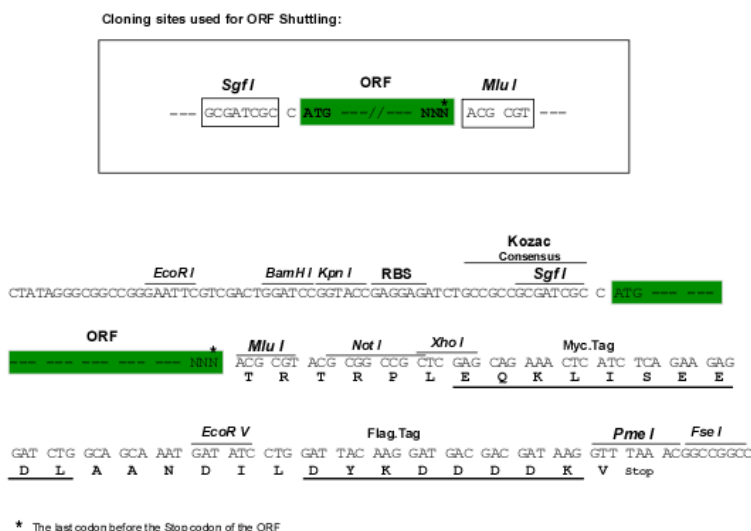
MLLSWL TGLGAGLLSLHFLQKLLFPYFWDFFWYLLKVVRYGIQMEMYKLRGELVTVLDFKLSHTRKQPRK
 AFIIYEGDVYTYEDVDKRSNRIAHALLNHSSLKRGDVALLMSPDFVHVWFGLAKLGCVVAFLNSNLR
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 RFGNIKMCELYGATEGNIVFMNHTGKIGSVGRANFFYSLFFSFELIKYDFQKDEPWRNGQWCSCVRKGE
 PGLLISRNVKKNPFFGYAGSDTHTKSKLLFDVFRKGDVYFNTGDLMFQDQENFVYFWDRLGDTFRWKGEN
 VATTEVADVLRGLDFIQEANVYGVVPGYEGKAGMTSVILKPNKSLDLEKMYNQVVTSLPAYACPLFLRI
 QDKMETTGTFLKQLVEEGFDPLKISDPLYFMDNLKKSYPVPLTEEIYNQIMSEEVKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9081_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081072

ORF Size: 1857 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_001081072.1](#), [NP_001074541.1](#)

RefSeq Size: 2598 bp

RefSeq ORF: 1860 bp

Locus ID: 225579

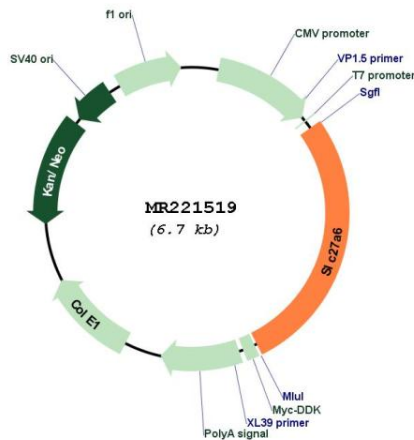
UniProt ID: [E9Q9W4](#)

Cytogenetics: 18 D3

MW: 70.2 kDa

Gene Summary: Involved in translocation of long-chain fatty acids (LFCA) across the plasma membrane (PubMed:15699031). Thought to function as the predominant fatty acid protein transporter in heart (By similarity). Has acyl-CoA ligase activity for long-chain and very-long-chain fatty acids (VLCFAs) (PubMed:15699031).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221519