

Product datasheet for **MG221519**

Slc27a6 (NM_001081072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a6 (NM_001081072) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc27a6
Synonyms:	4732438L20Rik; FACVL2; FATP6; VLCS-H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221519 representing NM_001081072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCTGTCATGGCTCACAGGATTGGGGCTGGACTGCTCTCCCTGCATTTCTCGCAAACCTCTGT
 TCCCGTATTTCTGGGATGATTTCTGGTACTTGCTGAAGGTGGTGCCTACGGAATTCAGATGGAGATGTA
 CAAACTGAGGGGGGAGCTGGTCACGGTCTGGATAAGTTCCTGAGCCACACCAGGAAGCAACCACGGAAA
 GCCTTCATCATTTATGAGGGGGACGTCTACACCTACGAGGACGTGGACAAGAGGAGTAACAGAATAGCCC
 ACGCTCTCTGAACCACTCTCGCTGAAAAGGGGGACGTTGTGGCTTTGTTGATGAGCAACGAGCCGA
 CTTCTGTTTATGTTGGCTGGCTAACTGGGCTGCGTGGTGGCCTTCTCAACTCCAACCTTCGC
 TTCGATCCCTCTACACTGCATCAACACCTGTGAACCACTGCCGTGGTGGTGGCGGAGATTTGCTTG
 GAAGCATAGAAGAAATACTTCCAGTCTCCAAAACACGTGAGAGTTGGGAATGAAGGATTCTGTTCC
 AGAAGGTATAGATTCACCTCAAGAAAAGCTGAGTCTCGCCTCTGATGAGCCAGTACCACCAAGCCATCAT
 GTCACCTCAAGCCTCAAGTCTACTTGCCTCTACATTTTTACCTCTGGAACAACAGGTCTACCCAAAGCAG
 CTGTGATTAGCCAGTTGCAAGTGTGAAGGGATCTGTTGGGCTATGGGCGTTTGGCTGCACAGCTGATGA
 CATCATTTATATAACCTCCCTCTGTACCACAGCTCAGGGTCTCTCCTTGGAAATGGTGGATGTGTTGAG
 TTGGGCGCCACGTGTGTGCTAAAGAAGAAATTTCCGCAAGCCAGTTTGGAAATGATTGCAAGAAGTACA
 ACGTGACTGTGTTTCACTACATTGGGAACTTTGCCGTTATCTGTGCAACAGCCTCAGAGAGAAGGGGA
 AAAGGACCATCGGTACGTTTGGCAGTTGGAACGGTTTGGCAGTGTGTTGGAGACAATTTTATAGC
 AGATTTGGAAATATTAATGTGTGAAGTGTACGGAGCTACCGAAGGAAACATAGTCTTCATGAACCATA
 CTGGGAAGATTGGATCTGTGCGGAGAGCAAATTTCTTCTACAGTCTTTTTTCTCTTTGAGTTGATCAA
 GTATGACTTTTCAGAAAGATGAACCATGGCGGAACGGACAAGGCTGGTCTGCTGTGTGAGAAAAGGAGAA
 CCTGGTCTCCTCATTTCTCGTGTGAATAAGAAGATCCCTTCTCGGCTACGCTGGCTCGGACACGCACA
 CGAAAAGCAAGCTGCTCTTTGATGTGTTTGGAAAGGAGACGTGACTTCAACACCGGAGACCTAATGTT
 CCAAGACCAGGAGAACTTCGTTTATTTTGGGACCGTCTTGGAGACACTTTCAGGTGAAAGGAGAAAAAC
 GTCGCAACCACAGAGGTCGCTGATGTGCTTGGGAGTTGGACTTCATCCAGGAAGCAAACGTGTACGGTG
 TCGTGTGCCAGGTTATGAAGGAAAAGCAGGAATGACTTCTGTTATCCTAAAACCAAACAAGTCTTTAGA
 CTTAGAAAAAATGTACAACCAAGTGGTACATCTCTGCCAGTTCACGCTGCCACTGTTTTTAAGAAAT
 CAGGACAAAATGGAACCTACAGGACATTAAGCTAAAGAAGCTACAACCTGGTGAAGAAGGATTTGATC
 CGCTGAAGATTTCTGACCCGCTTACTTTATGGATAACTTGA AAAAATCTTATGTCCATTGACCGAAGA
 GATTTATAATCAGATAATGTCAGAGGAAGTAAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221519 representing NM_001081072
 Red=Cloning site Green=Tags(s)

MLLSWLTLGAGLLSLHFLQKLLFPYFWDFFWYLLKVVRYGIQMEMYKLRGELVTVLDFKLSHTRKQPRK
 AFIIYEGDVYTYEDVDKRSNRIAHALLNHSSLKRGDVALLLMSNEPDFVHVWFGLAKLGCVVAFLNSNLR
 FDSLLHCINTCEPTAVVGGDLLGSIIEILPSLPKHVRVWGMKDSVPEGIDSLQEKLSLASDEPVPPSHH
 VTSSLKSTCLYIFTSGTTGLPKAAVISQLQVLKGSVGLWAFGCTADDIIYITLPLYHSSGSLLGIGGCVE
 LGATCVLKKKFSASQFVNDCKKYNVTVFYIYIGELCRYLCKQPQREGEKDRVRLAVGNLSSDVWRQFLD
 RFGNIKMCELYGATEGNIIVFMNHTGKIGSVGRANFFYSLFFSFELIKYDFQKDEPWRNGQWCSVVRKGE
 PGLLISRNVKKNPFFGYAGSDHTKSKLLFDVFRKGDVYFNTGDLMFQDQENFVYFWDRLGDTFRWKGEN
 VATTEVADVLRDLDFIQEANVYGVVPGYEGKAGMTSVILKPNKSLDLEKMYNQVVTSLPAYACPLFLRI
 QDKMETTGTFLKQLVEEGFDPLKISDPLYFMDNLKKSIVPLTEEIYNQIMSEELK

TRTRPLE - GFP Tag - V

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

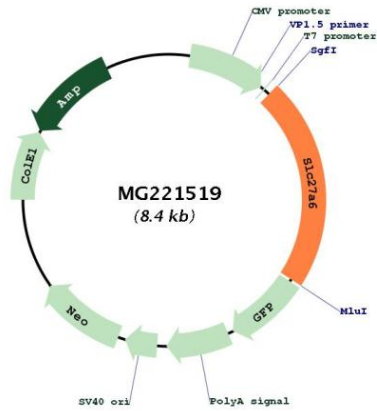
Locus ID: 225579

UniProt ID: [E9Q9W4](#)

Cytogenetics: 18 D3

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 MG221519