

Product datasheet for **MG209717**

Slc27a4 (NM_011989) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a4 (NM_011989) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc27a4
Synonyms:	BB144259; FATP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209717 representing NM_011989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTACTTGGAGCATCTCTGGTGGGGGCGCTACTGTTCTCCAAGCTAGTGCTGAAGCTGCCTGGACCC
 AGGTGGGATTCTCCCTGTTGCTCCTGTACTTGGGGTCTGGTGGCTGGCGTTTCATCCGGGTCTTCATCAA
 GACGGTACAGGAGAGATATCTTTGGTGGCATGGTCTCCTGAAGGTGAAGACCAAGGTGCGACGGTACCTT
 CAGGAGCGGAAGACGGTCCCTGCTGTTTGTCTCAATGGTACAGCGCCACCCGGACAAGACAGCCCTGA
 TTTTCGAGGGCACAGACTCACTGGACCTCCGCCAGCTGGATGAGTACTCCAGTAGTGTGCCAACTT
 CCTGCAGGCCCGGGCCTGGCCTCAGGCAATGTAGTTGCCCTCTTATGGAAAACCGCAATGAGTTTGTG
 GGTCTGTGGCTAGGCATGGCCAAGCTGGGCGTGGAGGCGGCTCTCATCAACACCAACCTTAGCGGGGATG
 CCCTGCGCCACTGTCTTGACACCTCAAAGGCACGAGCTCTCATCTTTGGCAGTGAGATGGCCTCAGCTAT
 CTGTGAGATCCATGCTAGCCTGGAGCCCACTCAGCCTCTTCTGCTCTGGATCCTGGGAGCCAGCACA
 GTCCCGTCAGCACAGAGCATCTGGACCTCTTCTGGAAGATGCCCGAAGCACCTGCCAGTACCCAG
 ACAAGGGTTTTACAGATAAGCTCTTCTACATCTACACATCGGGCACACGGGGCTACCCAAAGCTGCCAT
 TGTGGTGCACAGCAGGATTATCGTATGGCTTCCCTGGTACTACTGGATTCCGCATGCGGCCTGATGAC
 ATGTCTATGACTGCCTCCCTCTACCACTCAGCAGGAAACATCGTGGGGATTGGCCAGTGCTTACTCC
 ACGGCATGACTGTGGTATCCGGAAGAAGTTCTCAGCCTCCCGTTCTGGGATGATTGTATCAAGTACAA
 CTGCACAATTGTACAGTACATTGGCGAGCTCTGCCCTACCTCCTGAACCAGCCACCCGTGAGGCTGAG
 TCTCGGCACAAGGTGCGCATGGCACTGGCAACGGTCTCCGGCAGTCCATCTGGACCAGTCTCCAGCC
 GTTTCACATCCCCAGGTGGCTGAGTTCTATGGGGCCACTGAATGCAACTGTAGCCTGGCAACTTTGA
 CAGCCGGGTGGGGCCTGTGGCTTCAATAGCCGATCCTGTCTTTGTGTACCCTATCCGTTTGGTACGT
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 TGCCAACAACAAGAAGATTGCTAATGATGTCTTCAAGAAGGGGGACCAAGCCTACCTCACTGGTACGTC
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 AGAATGTATCTACCAGTGGTGGAGGGCACACTCAGCCGCTGCTTCATATGGCAGATGTGGCAGTTTA
 TGGTGTGAGGTGCCAGGAAGTGAAGGCCGAGCAGGAATGGCTGCCGTTGCAAGTCCCATCAGCAACTGT
 GACCTGGAGAGCTTTCACAGACCTTGA AAAAGGAGCTGCCTCTGTATGCCCGCCCATCTTCTGCGCT
 TCTTGCCTGAGCTGCACAAGACAGGACCTTCAAGTTCAGAAGACAGAGTTGCGGAAGGAGGGCTTTGA
 CCCATCTGTTGTGAAAGACCCGCTGTTCTATCTGGATGCTCGGAAGGGCTGCTACGTTGCACTGGACCAG
 GAGGCCTATACCCGATCCAGGCAGGCGAGGAGAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209717 representing NM_011989
 Red=Cloning site Green=Tags(s)

MLLGASLVGALLFSKLVLKLPTWQVGFSLLLLVLGSGGWRFRVFIKTVRRDIFGGMVLKVKTKVRRYL
 QERKTVPLLFASMVQRHPDKTALIFEQTDTHWTFRQLDEYSSSVANFLQARGLASGNVVALFMENRNEFV
 GLWLGMAKLGVEAALINTNLRRDALRHCLDTSKARALIFGSEMASAICEIHASLEPTLSLFCSGSWEPT
 VPVSTHELDPLEDAPKHLPSHPDKGFTDKLFYIYTSGTTGLPKAAIVVHSRYRMASLVVYGFMRPDD
 IVYDCLPLYHSAGNIVGIGQCLLHGMTVVIRKKFSASRFWDDCIKYNCTIVQYIGELCRYLLNQPPREAE
 SRHKVRMALGNLRQSIWTFSSRFHQPVAEFYGATECNCSLGNFDSRVGACGFNSRILSFVYPIRLVR
 VNEDTMELIRGPDGVCIPCQPGQPGQLVGRIIQQDPLRRFDGYLNQGANNKIANDVFVKGDQAYLTGDV
 LVMDELGYLYFRDRTGDTFRWKGENVSTTEVEGTLRLLHMADVAVYGVVEVPGTEGRAGMAAVASPI SNC
 DLESFAQTLKKELPLYARPIFLRFLPELHKTGTFKFQKTELKKEGFDPSVVKDPLFYLDARKGCYVALDQ
 EAYTRIQAGEEKL

TRTRPLE - GFP Tag - V

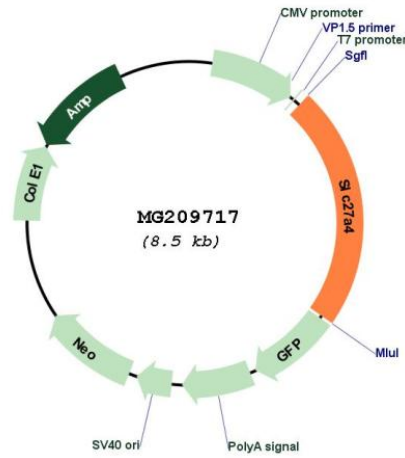
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011989

ORF Size: 1929 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:	<ol style="list-style-type: none">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_011989.5
RefSeq Size:	4009 bp
RefSeq ORF:	1932 bp
Locus ID:	26569
UniProt ID:	Q91VE0
Cytogenetics:	2 20.64 cM
Gene Summary:	Involved in translocation of long-chain fatty acids (LFCA) across the plasma membrane. Appears to be the principal fatty acid transporter in small intestinal enterocytes. Plays a role in the formation of the epidermal barrier. Required for fat absorption in early embryogenesis. Has acyl-CoA ligase activity for long-chain and very-long-chain fatty acids (VLCFAs). Indirectly inhibits RPE65 via substrate competition and via production of VLCFA derivatives like lignoceroyl-CoA. Prevents light-induced degeneration of rods and cones.[UniProtKB/Swiss-Prot Function]