

Product datasheet for **MR209717**

Slc27a4 (NM_011989) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc27a4 (NM_011989) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc27a4
Synonyms:	BB144259; FATP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209717 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACTTGGAGCATCTCTGGTGGGGGCGCTACTGTTCTCCAAGCTAGTGTGAAGCTGCCTGGACCC
AGGTGGGATTCTCCCTGTTGCTCCTGTACTTGGGGTCTGGTGGCTGGCGTTTCATCCGGGTCTTCATCAA
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CCTGCAGGCCCGGGCCTGGCCTCAGGCAATGTAGTTGCCCTCTTTATGGAAAACCGCAATGAGTTTGTG
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GAGGCCTATACCCGATCCAGGCAGGCGAGGAGAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR209717 protein sequence
 Red=Cloning site Green=Tags(s)

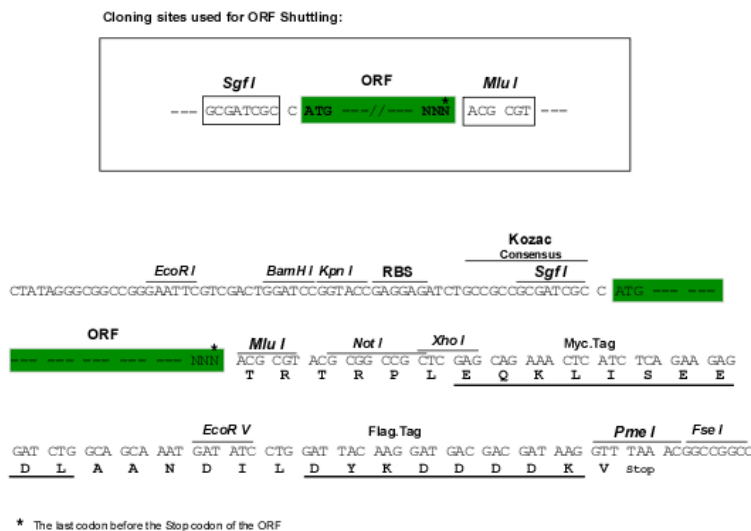
MLLGASLVGALLFSKLVLKL PWTQVGFSLLLL YLGGGWRFIRVFIKTVRRDIFGGMVLLKVTKVRRYL
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 GLWLGMAKLGVEAALINTNLRRDALRHCLDTSKARALIFGSEMASAICEIHASLEPTLSLFCSGSWEPST
 VPVSTEHLDPLEADAPKHLPSHPDKGFTDKLFYIYTS GTTGLPKAAIVVHSRYRMSLVYYGFRMRPDD
 IVYDCLPLYHSAGNIVGIGQCLLHGMTVVIRKKFSASRFWDDCIKYNCTIVQYIGELCRYLLNQPPREAE
 SRHKVRMALGNLRQSIWTFSSRFHQPVAEFGATECNCSLGNFDSRVGACGFNSRILSFVYPIRLVLR
 VNEDTMELIRGPDGVCIPCQPGQPGQLVGRIIQQDPLRRFDGYLNQGANNKIANDVFKKGDQAYLTGDV
 LVMDLGYLYFRDRTGDTFRWKGENVSTTEVEGTL SRRLLHMADVAVYGVEVPGTEGRAGMAAVASPI SNC
 DLESFAQTLKKELPLYARPIFLRFLPELHKTGTFKFQKTELKKEGFDPSVVKDPLFYLDARKGCYVALDQ
 EAYTRIQAGEEKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011989

ORF Size: 1932 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_011989.5](#)

RefSeq Size: 4008 bp

RefSeq ORF: 1932 bp

Locus ID: 26569

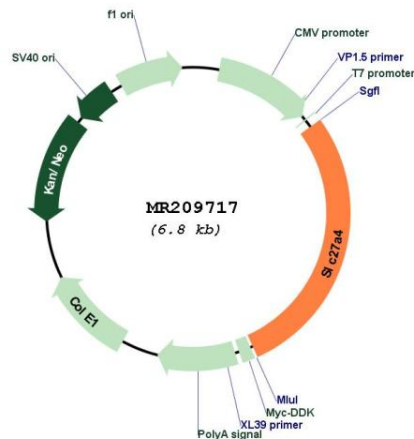
UniProt ID: [Q91VE0](#)

Cytogenetics: 2 20.64 cM

MW: 72.3 kDa

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]

Product images:



Circular map for MR209717