

Product datasheet for **RC209557**

SLC27A4 (NM_005094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC27A4 (NM_005094) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC27A4
Synonyms:	ACSVL4; FATP4; IPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209557 representing NM_005094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGGAGCCTCTCTGGTGGGGTCTGCTGTTCTCCAAGCTGGTCTGAAACTGCCTGGACCC
 AGGTGGGATTCTCCCTGTTGTTCTCTACTTGGGATCTGGCGGCTGGCGCTTCATCCGGTCTTCATCAA
 GACCATCAGGCGCGATATCTTTGGCGGCCTGGTCTCCTGAAGGTGAAGGCAAAGGTGCGACAGTGCCTG
 CAGGAGCGGCGGACAGTCCCATTTTGTTCCTCTACCGTTCGGCGCCACCCGACAAGACGGCCCTGA
 TCTTCGAGGGCACAGATACCCACTGGACCTTCGCCAGCTGGATGAGTACTCAAGCAGTGTAGCCAACTT
 CCTGCAGGCCCGGGCCTGGCCTCGGGCGATGTGGCTGCCATCTTCATGGAGAACCAGCAATGAGTTCGTG
 GGCCTATGGCTGGGCATGGCCAAGCTCGGTGTGGAGGCAGCCCTCATCAACACCAACTGCGCGGGGATG
 CTCTGCTCCACTGCCTCACCACCTCGCGCGACGGGCCCTTGCTTTGGCAGCGAAATGGCCTCAGCCAT
 CTGTGAGGTCCATGCCAGCCTGGACCCCTCGCTCAGCCTTTCTGCTCTGGCTCCTGGGAGCCCGGTGCG
 GTGCCTCCAAGCACAGAACACCTGGACCCCTCGCTGAAAGATGCTCCCAAGCACCTTCCCAGTTGCCCTG
 ACAAGGGCTTACAGATAAACTGTTCTACATCTACACATCCGGCACACAGGGCTGCCAAAGGCCGCCAT
 CGTGGTGCACAGCAGGATTACCGCATGGCTGCCCTGGTGTACTATGGATTCCGCATGCGGCCAACAGC
 ATCGTCTATGACTGCCTCCCCCTCTACCACTCAGCAGGAAACATCGTGGGAATCGGCCAGTGCCTGCTGC
 ATGGCATGACGGTGGTGATTTCGGAAGAAGTTCTCAGCCTCCCGTTCCTGGGACTATTGTATCAAGTACAA
 CTGCACGATTGTGCAGTACATTTGGTGAAGTGTGCCCTACCTCCTGAACCAGCCACCGCGGGAGGCAGAA
 AACCAGCACAGGTTTCGCATGGCACTAGGCAATGGCCTCCGGCAGTCCATCTGGACCAACTTTTCCAGCC
 GCTTCCACATACCCAGGTGGCTGAGTTCTACGGGGCCACAGAGTGAAGTGTAGCCTGGGCAACTTCGA
 CAGCCAGGTGGGGCCTGTGGTTTCAATAGCCGCATCCTGTCTTCGTGTACCCCATCCGGTTGGTACGT
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 CGCCAACAACAAGAAGATTGCCAAGGATGTTTCAAGAAGGGGGACCAGGCCTACCTTACTGGTGTGTG
 CTGGTGTGGACGAGCTGGGCTACCTGTACTTCCGAGACCGCACTGGGGACACGTTCCGCTGGAAAGGTG
 AGAACGTGTCCACCACCGAGGTGGAAGGCACACTCAGCCGCTGCTGGACATGGCTGACGTGGCCGTGTA
 TGGTGTGAGGTGCCAGGAACCGAGGGCCGGCCGGAATGGCTGCTGTGGCCAGCCCACTGGCAACTGT
 GACCTGGAGCGCTTTGCTCAGGCTTGGAGAAGGAACTGCCCTGTATGCGCGCCCATCTTCTGCGCC
 TCCTGCCTGAGCTGCACAAAACAGGAACCTACAAGTTCAGAAGACAGAGCTACGGAAGGAGGGCTTTGA
 CCCGGCTATTGTAAAGACCCGCTGTTCTATCTAGATGCCAGAAGGGCCGCTACGTCCCGCTGGACCAA
 GAGGCCTACAGCCGCATCCAGGCAGGCGAGGAGAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209557 representing NM_005094
 Red=Cloning site Green=Tags(s)

MLLGASLVGVLLFSKLVLKLPTVQVGSLLFLYLGS GGWRFIRVFIKTI RRDI FGGLVLLKVKAKVRQCL
 QERRTPILFASTVRRHPDKTALIFEGTDTHWTFRQLDEYSSSVANFLQARGLASGDVAAIFMENRNEFV
 GLWLGMAKLGVEAALINTNLRDALLHCLTTSRARALVFGSEMASAICEVHASLDPSLSLFCSGSWEPGA
 VPPSTEHLDP LLDAPKHL PSCPDKGFTDKLFYIYTS GTTGLPKAAIVVHSRYRMAALVYYGFRMRPND
 IVYDCLPLYHSAGNIVGIGQCL LHGMTVVIRKKFSASRFWDYCIKYNCTIVQYIGELCRYLLNQPPREAE
 NQHQVRMALGNLRQSIWTFSSRFHIPQVAEFYGATECNCSLGNFDSQV GACGFNSRILSFVYPIRLVR
 VNEDTMELIRPGDVCIPCQPGEPQLVGR I IQKDLRRFDGYLNQGAN NKIAKDVFKGDQAYLTGDV
 LVMDLGYLYFRDRTGDTFRWKGENVSTTEVEGTL SRRLLDMADVAVYGVEVPGTEGRAGMAAVASPTGNC
 DLERFAQVLEKELPLYARPIFLRLLPELHKTGT YKFKTEL RKEGFDP AIVKDPLFYLD AQKGRYVPLDQ
 EAYSRIQAGEEKL

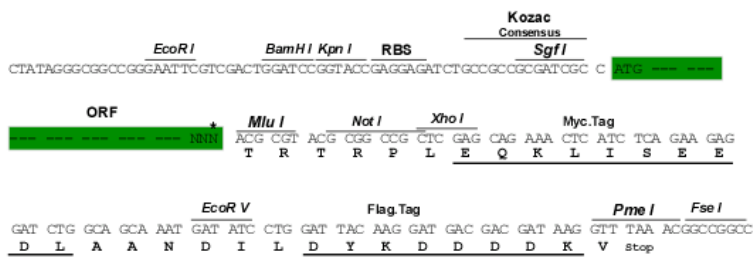
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3391_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005094

ORF Size: 1929 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_005094.4](#)

RefSeq Size: 2991 bp

RefSeq ORF: 1932 bp

Locus ID: 10999

UniProt ID: [Q6P1M0](#)

Cytogenetics: 9q34.11

Domains: AMP-binding

Protein Families: Transmembrane

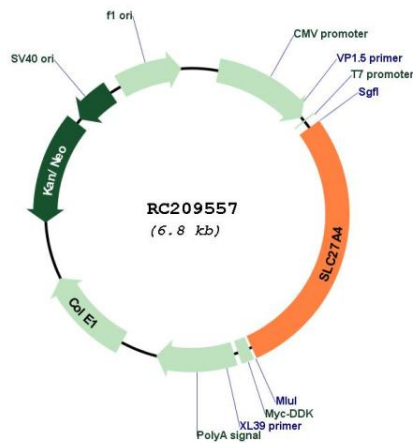
Protein Pathways: PPAR signaling pathway

MW: 71.9 kDa

Gene Summary:

This gene encodes a member of a family of fatty acid transport proteins, which are involved in translocation of long-chain fatty acids cross the plasma membrane. This protein is expressed at high levels on the apical side of mature enterocytes in the small intestine, and appears to be the principal fatty acid transporter in enterocytes. Clinical studies suggest this gene as a candidate gene for the insulin resistance syndrome. Mutations in this gene have been associated with ichthyosis prematurity syndrome. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RC209557