

Product datasheet for **SC125499**

SLC27A4 (NM_005094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC27A4 (NM_005094) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC27A4
Synonyms:	ACSVL4; FATP4; IPS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_005094 edited
GCGGCCGCGAATTCGGCACGAGGGGCAGGCGGTGCTGCGGCCTGGCACAGCAGGGGCGGC
TAATGCTCCTCACGCTGTCTACGCTGCTGCAACCGGGCCGCATCTGGACGGGGCGCCGCG
CGGCGGAGCCGACGCCGGGCCACAATGCTGCTTGGAGCCTCTCTGGTGGGGTGTGCTG
TTCTCCAAGCTGGTGTGAAACTGCCCTGGACCCAGGTGGGATTCTCCCTGTTGTTCTC
TACTTGGGATCTGGCGGCTGGCGCTTCATCCGGGTCTTCATCAAGACCATCAGGCGCGAT
ATCTTTGGCGGCTGGTCTCTGAAAGGTGAAGGCAAAGGTGCGACAGTGCCTGCAGGAG
CGGCGGACAGTGCCATTTTGTTCCTTACCGTTTCGGCGCCACCCCGACAAGACGGCC
CTGATCTTCGAGGGCACAGATACCCACTGGACCTTCCGCCAGCTGGATGAGTACTCAAGC
AGTGTAGCCAACCTCCTGCAGGCCCGGGCCTGGCCTCGGGCGATGTGGTGCCATCTTC
ATGGAGAACCGAATGAGTTCGTGGCCTATGGCTGGGCATGGCCAAGCTCGGTGTGGAG
GCAGCCCTCATCAACACCAACCTGCGGCGGGATGCTCTGCTCCACTGCCTCACCACCTCG
CGCGCACGGGCCCTTGTCTTTGGCAGCGAAATGGCCTCAGCCATCTGTGAGGTCCATGCC
AGCCTGGACCCCTCGCTCAGCCTCTTCTGCTCTGGCTCCTGGGAGCCCGGTGCGGTGCC
CCAAGCACAGAACACCTGGACCCCTGCTGAAAGATGCTCCCAAGCACCTCCCAGTTGC
CCTGACAAGGGCTTCACAGATAAACTGTTCTACATCTACACATCCGGCACACAGGGCTG
CCCAAGGCCGCCATCGTGGTGCACAGCAGGTATTACCGCATGGCTGCCCTGGTGTACTAT
GGATTCGCATGCGGCCAACGACATCGTCTATGACTGCCTCCCCTCTACCACTCAGCA
GGAAACATCGTGGGAATCGGCCAGTGCCTGCTGCATGGCATGACGGTGGTGATTCGGAAG
AAGTTCCTCAGCCTCCCGTTCTGGGACTATTGTATCAAGTACAACGCACGATTGTGCAG
TACATTGGTGAAGTGTCCGCTACCTCCTGAACCAGCCACCGCGGGAGGCAGAAAACCG
CACCAGTTTCGCATGGCACTAGGCAATGGCCTCCGGCAGTCCATCTGGACCAACTTTTCC
AGCCGCTTCCACATAACCCAGGTGGCTGAGTTCTACGGGGCCACAGAGTGCACACTGAGC
TTGGGCAACTTCGACAGCCAGGTGGGGCCTGTGGTTTCAATAGCCGCATCCTGTCTTC
GTGTAACCCATCCGTTGGTACGTGTCAACGAGGACACCATGGAGCTGATCCGGGGGCC
GACGGCTGTGATTCCTGCCAGCCAGGTGAGCCGGGCCAGCTGGTGGGCCGCATCATC
CAGAAAGACCCCTGCGCCGCTTCGATGGCTACCTCAACCAGGGCCCAACAACAAGAAG
ATTGCCAAGGATGTCTTCAAGAAGGGGACCAGGCCTACCTTACTGGTGTGTGCTGGTG
ATGGACGAGCTGGGCTACCTGTACTTCCGAGACCGCACTGGGACACGTTCCGCTGGAAA
GGTGAGAACGTGTCCACCACCGAGGTGGAAGGCACACTCAGCCGCTGCTGGACATGGCT
GACGTGGCCGTGTATGGTGTGAGGTGCCAGGAACCGAGGGCCGGCCGGAATGGCTGCT
GTGGCCAGCCCACTGGCAACTGTGACCTGGAGCGCTTTGCTCAGGTCTTGGAGAAGGAA
CTGCCCTGTATGCGCGCCCATCTTCTGCGCCTCCTGCCTGAGCTGCACAAAACAGGA
ACCTACAAGTTCAGAAGACAGAGCTACGGAAGGAGGGCTTTGACCCGGCTATTGTGAAA
GACCCGCTGTTCTATCTAGATGCCCAGAAGGGCCGCTACGTCCTCCGCTGGACCAAGAGCC
TACAGCCGCATCCAGGCAGGCGAGGAGAAGCTGTGATCCCCCATCCCTCTGAGGGCCG
GCGGATGCTGGATCCGGAGCCCCAGGTTCCGCCCCAGAGCGGTCTGGACAAGGCCAGAC
CAAAGCAAAGCAGGGCCTGGCACCTCCATCCTGAGGTGCTGCCCTCCATCCAAAACCTGCC
AAGTGACTCATTGCCTTCCCAACCCTTCCAGAGGCTTTCTGTGAAAGTCTCATGTCCAAG
TTCCGTCTTCTGGGCTGGCAGGCCCTCTGGTTCCAGGCTGAGACTGACGGGTTTTCTC
A
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005094 unedited
 ACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGCAGGCGGTGCTGCGGCCTGG
 CACAGCAGGGGCGGCTAATGCTCCTCACGCTGTCTACGCTGTGCAACCGGGCCGCATCT
 GGACGGGGCGCCGCGCGGCGGAGCCGACCCGGGCCACAATGCTGCTTGGAGCCTCTCTG
 GTGGGGGTGCTGCTGTTCTCCAAGCTGGTGTGAAACTGCCCTGGACCCAGGTGGGATTC
 TCCCTGTTGTTCTACTTGGGATCTGGCGCTGGCGCTTTCATCCGGGTCTTCATCAAG
 ACCATCAGGCGCGATATCTTTGGCGGCCTGGTCCTCCTGAAGGTGAAGGCAAAGGTGCGA
 CAGTGCCTGCAGGAGCGGCGGACAGTGCCCATTTTGTTCCTCTACCGTTCGGCGCCAC
 CCCGACAAGACGGCCCTGATCTTCGAGGGCACAGATACCCACTGGACCTTCGGCCAGCTG
 GATGAGTACTCAAGCAGTGTAGCCAACCTCCTGCAGGCCCGGGCCTGGCCTCGGGCGAT
 GTGGCTGCCATCTTCATGGAGAACCGAATGAGTTCGTGGGCCTATGGCTGGGCATGGCC
 AAGCTCGGTGTGGAGGCAGCCCTCATCAACACCAACCTGCGGCGGGATGCTCTGTCCAC
 TGCTCACCACCTCGCGCGCACGGGCCCTTGTCTTTGGCAGCGAAATGGCCTCAGCCAT
 CTGTGAAGTCCATGCCAGCCTGNACCCCTCGCTCAGCCTCTTCTGCTCTGGGCTCTGNGA
 GCCNGTGCCGTGCTNCAAGACAGAACACCTGNACCCCTGCTGAAGATGCTCCAGCA
 CCTTCCAGNTGCCTGACAGGGCTNACAGTNAACTGTCTAATCTACCATNCGCACACAGG
 CTGCCAAGGCGCATCTGTGCCAGCAGTATACGCATGCTGCCTGTGTCTATGATTCGATGC
 GNCCAGACTCNCTTGACTGCTCCCTTACCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005094 unedited
 AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCTCAAGCAGAGTTTATTGGCCCT
 GAGCCCCCTCTCCATTCTCCTCCCCTCATAGCCAGGCCAAGACTGAGATGGAGGTGAC
 ACAGACCCACAAGGACTGAGAGGCCCTGCCTGAGGGATAATCAGGCAGCCACCCAGGGAG
 GAGGATGGGGGAGTGGGAGAGGCCAGGGGCGTGGTCCTGACCTCCTGCTGTAGATGGGG
 CATCAGGGGCCACCTACAGATGTCAGGTCTCCTCCCCTCCTGGAGGTGGGGTGGAG
 CCCAGTGAACCTGGGCAGCTCTGGGGCTACGATTCTCTTTGGCCACCAGATGGATGCTAC
 CACTGTCCCTGCCACTCTGTTGACTTCCTGAGTCTGGGGACTTCTGCTCTGGTTCCATT
 TATAAGCTCCCTGCTCTCTGGGAAGGGCTCGGTGACCCCTTGTCTCTCCCTACCCTCAC
 CCAAGACATTATCCTGAGAAAACCCGTCACTCTCAGCCTGGGAACCAGAGGGCCTGCCCA
 GCCCAGAAGACGGAACCTGGACATGAGACTTTCACAGAAAGCCTCTGGAAGGGTTGGAA
 GGCAATGAGTCACTTGGCAGTTTTTGGTGGAGGGGCAGCACCTCAGGATGGAGGTGCCAG
 GCCCTGCTTGCTTTGGTCTGGCCTTGTCCAGGACCCTCTGGGGGCGAAACCTGGGGCTT
 CGGAATCAGCAATCGCCGGCCCTTAGAAGAATGGGGGAAATAACAGTTCTCCTCCCTG
 CTCGGATGCGGGTGTAGGCCCTTGGCCACGGGAACTAATCGCCCTCTTGGGATTTT
 AAAATCAAAGGGGCTTTTTACAATACCGGGTCAAAGCCCCCTTTCGTACTTTGTTCTTT
 GAACTGGAGCTCCGGTTTGGCCACTATCCAGAGGCCCGAAATGGCCCCACCCGGGCATT
 TCTTTCAAACGAAAAGCCTCCGTACAATTCGGGGTGGCCAACTCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_005094

Insert Size:

3080 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](#)

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_005094.2](#), [NP_005085.2](#)

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

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]