

## Product datasheet for **RG209557**

### **SLC27A4 (NM\_005094) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | SLC27A4 (NM_005094) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                   |
| Symbol:                   | SLC27A4                                    |
| Synonyms:                 | ACSVL4; FATP4; IPS                         |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-AC-GFP (PS100010)                    |
| E. coli Selection:        | Ampicillin (100 ug/mL)                     |



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**ORF Nucleotide  
Sequence:**

>RG209557 representing NM\_005094  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCTTGAGCCTCTCTGGTGGGGTCTGCTGTTCTCCAAGCTGGTCTGAAACTGCCTGGACCC  
 AGGTGGGATTCTCCTGTTGTTCTCTACTTGGGATCTGGCGGCTGGCGCTTCATCCGGGTCTTCATCAA  
 GACCATCAGGCGCGATATCTTTGGCGGCTGGTCTCCTGAAGGTGAAGGCAAAGGTGCGACAGTGCCTG  
 CAGGAGCGGCGGACAGTCCCATTTTGTTCCTCTACCGTTCGGCGCCACCCGACAAGACGGCCCTGA  
 TCTTCGAGGGACAGATACCCACTGGACCTTCGCCAGCTGGATGAGTACTCAAGCAGTGTAGCCAACTT  
 CCTGCAGGCCCGGGCTGGCTCGGGCATGTGGCTGCCATCTTCATGGAGAACCGCAATGAGTTCGTG  
 GGCCTATGGCTGGGCATGGCAAGCTCGGTGTGGAGGCAGCCCTCATCAACACCAACCTGCGGCGGGATG  
 CTCTGCTCCACTGCCTCACCACCTCGCGGCACGGGCCCTGTCTTTGGCAGCGAAATGGCTCAGCCAT  
 CTGTGAGGTCCATGCCAGCTGGACCCCTCGCTCAGCCTCTTCTGCTCTGGCTCCTGGGAGCCCGGTGCG  
 GTGCCTCCAAGCACAGAACACCTGGACCTCTGCTGAAAGATGCTCCCAAGCACCTTCCAGTTGCCTG  
 ACAAGGGCTTCACAGATAAACTGTTCTACATCTACACATCCGGCACCCACAGGGCTGCCAAGGCCGCCAT  
 CGTGGTGACAGCAGGTATTACCGCATGGCTGCCTGGTGTACTATGGATTCCGCATGCGGCCAACGAC  
 ATCGTCTATGACTGCCTCCCCCTCTACCACTCAGCAGGAAACATCGTGGGAATCGGCCAGTGCCTGCTGC  
 ATGGCATGACGGTGGTGATTTCGAAGAAGTTCTCAGCCTCCCGGTTCTGGGACGATTGTATCAAGTACAA  
 CTGCACGATTGTGAGTACATTGGTGAAGTGTGCCCTACCTCCTGAACCAGCCACCGCGGGAGGCAGAA  
 AACCAGCACCAGGTTTCGATGGCACTAGGCAATGGCTCCGGCAGTCCATCTGGACCAACTTTCCAGCC  
 GCTTCCACATACCCAGGTGGCTGAGTTCTACGGGGCCACAGAGTGAAGTGTAGCCTGGCAACTTCGA  
 CAGCCAGGTGGGGCCTGTGGTTTCAATAGCCGATCCTGTCTCGTGTACCCCATCCGGTTGGTACGT  
 GTCAACGAGGACACCATGGAGCTGATCCGGGGGCCGACGGCGTCTGCATTCCCTGCCAGCCAGGTGAGC  
 CGGGCCAGCTGGTGGGCCGATCATCCAGAAAGACCCCTGCGCCGCTTCGATGGCTACCTCAACCAGGG  
 CGCCAACAACAAGAAGATTGCCAAGGATGTCTTCAAGAAGGGGGACCAGGCCTACCTTACTGGTGTGTG  
 CTGGTGTGGACGAGCTGGGCTACCTGTACTTCCGAGACCGCACTGGGACACGTTCCGCTGAAAGGTG  
 AGAACGTGTCCACCACCGAGGTGGAAGGCACACTCAGCCGCTGCTGGACATGGTGACGTGGCCGTGTG  
 TGGTGTGAGGTGCCAGGAACCGAGGGCCGGCCGGAATGGCTGCTGTGGCCAGCCCACTGGCAACTGT  
 GACCTGGAGCGCTTGTCTAGGTCTTGAGAAGGAAGTCCCTGTATGCGCGCCCATCTTCTGCGCC  
 TCTGCGCTGAGCTGCACAAAACAGGAACCTACAAGTTCAGAAAGACAGAGCTACGGAAGGAGGGCTTTGA  
 CCCGGCTATTGTAAAGACCCGCTGTTCTATCTAGATGCCAGAAAGGGCCGTACGTCCCGCTGGACCA  
 GAGGCCTACAGCCGATCCAGGCAGGCGAGGAGAAGCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

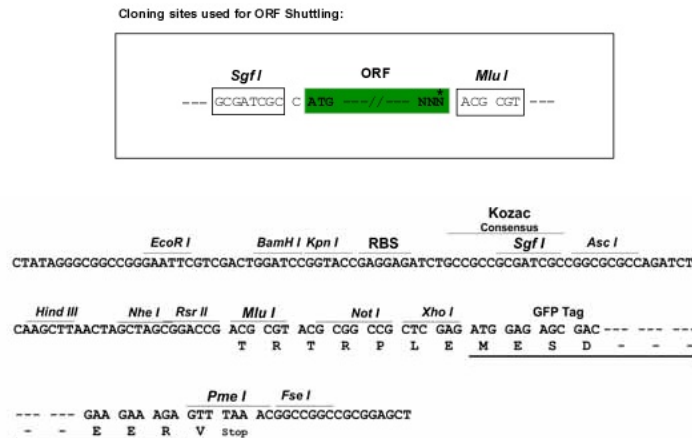
>RG209557 representing NM\_005094  
 Red=Cloning site Green=Tags(s)

MLLGASLVGVLLFSKLVKLKPWTQVGSLLFLYLGS GGWRFIRVFIKTI RRDIFGGLVLLKV KAKVRQCL  
 QERRTPILFASTVRRHPDKTALIFEGTDTHWTFRQLDEYSSVANFLQARGLASGDVA AIFMENRNEFV  
 GLWLGMAKLGVEAALINTNLRDALLHCLTTSRARALVFGSEMAI CEVHASLDPSLSLFCSGSWEPGA  
 VPPSTEHLDP LLDAPKHL PSCPDKGFTDKLFYIYTS GTTGLPKAAIVVHSRYRMAAL VYYGFRMRPND  
 IYVDCLPLYHSAGNIVIGQCL LHGMTVVIRKFSASRFWDDCIKYNCTIVQYIGELCRYLLNQPPREAE  
 NQHQVRMALGNLRQSIWTFSSRFHIPQVAEFYGATECNCSLGNFDSQVGACGFNSRILSFVYPIRLVR  
 VNEDTMELIRGPDGVCIPCQPGEPGQLVGRI IQKDPLRRFDGYLNQGANNKIIAKDVFKKG DQAYLTGDV  
 LVMDELGYLYFRDRTGDTFRWKGENVSTTEVEGTL SRLLDMADVAVYGV EPGTEGRAGMAAVASPTGNC  
 DLERFAQVLEKELPLYARPIFLRLLPELHKTGT YKFQKTEL RKEGFDP AIVKDPLFYLD A QKGRYVPLDQ  
 EAYSRIQAGEEKL

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_005094

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_005094.4](#)

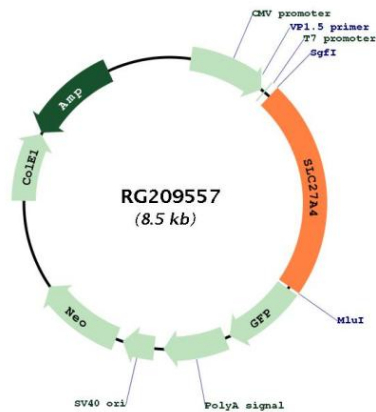
RefSeq Size: 2991 bp

RefSeq ORF: 1932 bp

**Locus ID:** 10999  
**UniProt ID:** [Q6P1M0](#)  
**Cytogenetics:** 9q34.11  
**Domains:** AMP-binding  
**Protein Families:** Transmembrane  
**Protein Pathways:** PPAR signaling pathway  
**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 RG209557