

Product datasheet for **RG209285**

FATP1 (SLC27A1) (NM_198580) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | FATP1 (SLC27A1) (NM_198580) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FATP1 |
| Synonyms: | ACSVL5; FATP; FATP-1; FATP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG209285 representing NM_198580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGGTCCGGGTGCGGGCGCGCCTCGGTGGTCTCGTGGCGCTGTTGTGGCTGCTGGGGCTGCCGT
 GGACCTGGAGCGCGGCAGCGCGCTCGGGTGTACGTGGCAGCGCGCGCTGGCGTTCTCGCATCGT
 CTGCAAGACCGCGAGGCGAGACCTCTTCGGTCTCTGTGCTGATCCGCGTGCAGCTGGAGCTGCGGCGG
 CACCAGCGTGCCGGCCACACCATCCCGCATCTTTAGGCGGTAGTGCAGCGACAGCCGAGCGCTGG
 CGCTGGTGGATGCCGGGACCGCGAGTGTGGACCTTTGCGCAGCTGGACGCTACTCCAATGCGGTAGC
 CAACCTCTCCGCCAGCTGGGCTTCGCGCCGGGCGACGTGGTGGCCATCTTCTGGAGGGCCGGCCGGAG
 TTCGTTGGGCTGTGGCTGGGCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCGGC
 GCGAGCCCTGGCCTTGCCTGGGCACCTCGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGC
 GCGGTTGGCCGAAGTGAAGCGGCATCTGGGAAAAGTTTATCAAGTTCTGCTCTGGAGACTTGGGGCC
 GAGGGCATCTTGCCGGACACCCACTCCTGGACCCGCTGCTGAAGGAGGCTCTACTGCCCCCTTGGCAC
 AGATCCCCAGCAAGGGCATGGACGATCGTCTTTCTACATCTACACGTCGGGGACACCGGGCTGCCAA
 GGCTGCCATTGTCGTGCACAGCAGTACTACCGCATGGCAGCCTTCGGCCACCACGCTACCGCATGCAG
 GCGGCTGACGTGCTATGACTGCCTGCCCTGTACCCTCGGCAGGAAACATCATCGGCGTGGGGCAGT
 GTCTCATCTATGGGCTGACAGTCGTCTCCGCAAGAAATCTCGGCCAGCCGCTTCTGGGACGACTGCAT
 CAAGTACAACGACGGTGGTTCAGTACATCGGGGAGATCTGCCGCTACCTGTGAAGCAGCCGGTGGC
 GAGGCGGAGAGGGCAGCCGCGTGGCCTGGCGGTGGGAAACGGGCTGCGTCTGCCATCTGGGAGGAGT
 TCACGGAGCGCTTCGGCGTACGCCAAATCGGGGAGTTCTACGGCGCCACCGAGTGCACATTCGCAATTGC
 CAACATGGACGGCAAGGTGCGCTCTGTGGTTTCAACAGCCGCATCTGCCCCACGTGTACCCCATCCGG
 CTGGTGAAGTCAATGAGGACACAATGGAGCTGCTGCGGGATGCCAGGGCTCTGCATCCCTGCCAGG
 CCGGGGAGCTGGCCTCCTTGTGGGTGAGTCAACCAACAGGACCGCTGCGCCGCTTCGATGGCTATGT
 CAGCGAGAGCGCCACCAGCAAGAAGATCGCCACAGCGTCTTCAGCAAGGGCGACAGCGCTACCTCTCA
 GGTGACGTGCTAGTATGGATGAGTGGCTACATGTACTTCCGGGACCGTAGCGGGACACCTCCGCT
 GCGGAGGGGAGAAGCTCTCCACCACGAGGTGGAGGGCTGCTGAGCCGCTGCTGGCCAGACAGACGT
 GGCCGTCTATGGGTGGCTGTTCCAGGAGTGGAGGTAAGGCAGGGATGGCGCCGTCGACAGCCCCAC
 AGCCTGCTGGACCCAACGCGATATACCAGGAGTGCAGAAGGTGCTGGCACCTATGCCGGCCCATCT
 TCCTGCGCTCCTGCCCAAGGTGGACACCACAGGCACCTTCAAGATCCAGAAGACGAGGCTGACGGAGA
 GGGCTTTGACCCAGCCAGACCTCAGACCGGCTCTTCTTCTGGACCTGAAGCAGGGCCACTACCTGCC
 TAAATGAGGCAGTCTACACTCGCATCTGCTCGGGCGCCTTCGCCCTC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209285 representing NM_198580
 Red=Cloning site Green=Tags(s)

MRAPGAGAASVSLALLWLLGLPWTWSAAAALGVYVSGSGWRFLRIVCKTARRDLFGLSVLIRVRLELRR
 HQRAGHTIPRIFQAVVQRQPERLALVDAGTGECWTFQAQLDAYSNVANLFRQLGFAPGDVVAIFLEGRPE
 FVGLWLGLAKAGMEAALLNVNLRREPLAFCLGTSGAKALIFGGEMVAVAEVSGLKSLIKFCSGDLGP
 EGILPDTHLLDPLLKEASTAPLAQIPSKGMDRLFYIYTSGTTGLPKAAIIVHSRYRMAAFGHAYRMQ
 AADVLYDCLPLYHSAGNIIGVGQCLYGLTVVLRKKFSASRFWDDCIKYNCTVVQYIGEICRYLLKQPVR
 EAERRHRVRLAVGNLRPAIWEETFTERFVVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILPHVYPIR
 LVKVNEDTMELLRDAQGLCIPCQAGEPGLLVGQINQQDPLRRFDGYVSESATSKKIAHSVFSKGDAYSLS
 GDVLMDELGYMYFRDRSGDTFRWRGENVSTTEVEGVL SRLLGQTDVAVYGVAVPGVEGKAGMAAVADPH
 SLLDPNAIYQELQKVLAPYARPIFLRLLPQVDTTGTFKIQKTRLQREGFDPQTSDRLLFFLDLKGHYLP
 LNEAVYTRICSGAFAL

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_198580

ORF Size: 1938 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_198580.3](#)

RefSeq Size: 3562 bp

RefSeq ORF: 1941 bp

Locus ID: 376497

UniProt ID: [Q6PCB7](#)

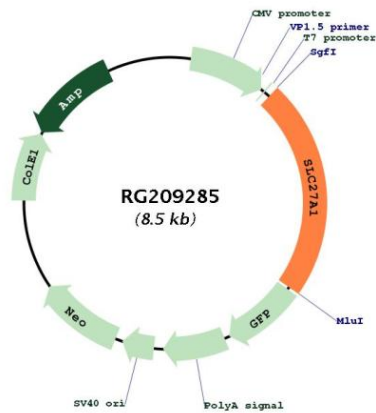
Cytogenetics: 19p13.11

Protein Families: Transmembrane

Protein Pathways: PPAR signaling pathway

Gene Summary: Mediates the ATP-dependent import of long-chain fatty acids (LCFA) into the cell by mediating their translocation at the plasma membrane (PubMed:28178239). Has also an acyl-CoA ligase activity for long-chain and very-long-chain fatty acids. May act directly as a bona fide transporter, or alternatively, in a cytoplasmic or membrane-associated multimeric protein complex to trap and draw fatty acids towards accumulation. Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation or triglyceride synthesis. May be involved in regulation of cholesterol metabolism (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209285