

Product datasheet for **SC307759**

FATP1 (SLC27A1) (NM_198580) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FATP1 (SLC27A1) (NM_198580) Human Untagged Clone
Tag:	Tag Free
Symbol:	FATP1
Synonyms:	ACSVL5; FATP; FATP-1; FATP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_198580 edited
 ATGCGGGCTCCGGGTGCGGGCGCGGCTCGGTGGTCTCGCTGGCGCTGTTGTGGCTGCTG
 GGGCTGCCGTGGACCTGGAGCGCGGCAGCGGCGCTCGGCGTGTACGTGGGACGCGGGC
 TGGCGCTTCTGCGCATCGTCTGCAAGACCGCGAGGCGAGACCTTTTCGGTCTCTGTG
 CTGATCCGCGTGCCTGGAGCTGCGGCGGCACCAGCGTGCCGGCCACACCATCCCGCGC
 ATCTTTTACGGCGGTAGTGCAGCGACAGCCGAGCGCCTGGCGTGGTGGATGCCGGGACC
 GCGGAGTGTGGACCTTTGCGCAGCTGGACGCCTACTCCAATGCGGTAGCCAACCTTTC
 CGCCAGCTGGGCTTCGCGCCGGGCGACGTGGTGGCCATCTTCTGGAGGGCCGGCCGGAG
 TTCGTGGGGCTGTGGCTGGGCTGGCCAAGCGGGCATGGAGGCCGCGCTGCTCAACGTG
 AACCTGCGGCGCGAGCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATC
 TTTGGAGGAGAAATGGTGGCGCGGTGGCCGAAGTGGAGCGGCATCTGGGAAAAGTTTG
 ATCAAGTTCTGCTCTGGAGACTTGGGGCCGAGGGCATCTTGCCGGACACCCACCTCTG
 GACCCGCTGCTGAAGGAGGCCTTACTGCCCTTGGCACAGATCCCAGCAAGGGCATG
 GACGATCGTCTTTTCTACATCTACACGTCGGGGACCACCGGGCTGCCAAGGCTGCCATT
 GTCGTGCACAGCAGGTAACCGCATGGCAGCCTTCGGCCACCAGCCTACCGCATGCAG
 GCGGCTGACGTGCTATGACTGCCTGCCCTGTACCCTCGGCAGGAAACATCATCGGC
 GTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCTCCGCAAGAAATTCTCGGCCAGC
 CGCTTCTGGGACGACTGCATCAAGTACAAGTGCACGGTGGTTCAGTACATCGGGGAGATC
 TGCCGCTACCTGCTGAAGCAGCCGGTGCAGGAGGGGAGAGGGGACACCGCGTGCCTG
 GCGGTGGGGAACGGGCTGCGTCTGCCATCTGGGAGGAGTTACGGAGCGCTTCGGCGTA
 CGCCAAATCGGGAGTTCTACGGCGCCACCGAGTGCAACTGCAGCATTGCCAACATGGAC
 GGCAAGGTGCGCTCCTGTGGTTTCAACAGCCGCATCTGCCACAGTGTACCCCATCCGG
 CTGGTGAAGGTCAATGAGGACACAATGGAGCTGCTGCGGGATGCCAGGGCCTCTGCATC
 CCTGCCAGGCCGGGAGCCTGGCCTCCTTGTGGGTGAGATCAACCAACAGGACCCGCTG
 CGCCGCTTCGATGGCTATGTCAGCGAGAGCGCCACCAGCAAGAAGATCGCCACAGCGTC
 TTCAGCAAGGGGACAGCGCCTACCTCTCAGGTGACGTGCTAGTATGGATGAGCTGGGC
 TACATGTACTTCCGGGACCGTAGCGGGACACCTTCCGCTGGCGAGGGGAGAACGCTCC
 ACCACCGAGGTGGAGGGCGTGTGAGCCGCTGCTGGCCAGACAGAGCTGGCCGCTAT
 GGGGTGGCTGTTCCAGGAGTGGAGGTAAGGCAGGGATGGCGCCGTCGAGACCCCCAC
 AGCCTGCTGGACCCCAACGCGATATACCAGGAGCTGCAGAAGGTGCTGGCACCTATGCC
 CGCCCATCTTCTGCGCTCCTGCCACAGGTGGACACCAGGCACCTTCAAGATCCAG
 AAGACGAGGCTGACGAGAGGGCTTTGACCCAGCCAGACCTCAGACCGGCTCTTCTTC
 CTGGACCTGAAGCAGGGCCACTACCTGCCCTTAAATGAGGCAGTCTACACTCGCATCTGC
 TCGGGCGCCTTCGCCCTCTGA

5' Read Nucleotide Sequence: >Reverse primer walk for NM_198580 unedited
 CACGNCTGGCTGCCCGCGCGAGCTACCGGTGCGACGCGGNTCAGCACAGAGAGACCGAA
 GAGTCTCGCCTCGCGTCTTGCAGACGATGCGCAGGAAGCGCCAGCCCGCTGCCACG
 TACACGCCGAGCGCCGCTGCCGCGCTCCAGGTCCACGGCAGCCCAAGCAGCCACAACAGC
 GCCAGCGAGACCACCGAGGCCGCGCCGACCCGGAGCCGCATCCTGGGGAAGCAGAGA
 GAGCTAAGGGCGAATTCGCGCCGCTGCAAAAAGAACAAGTAGCTTGTATTCTATAGTGT
 CACCTAAATGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATTTGCG
 TCAACGGGGCGGGTTATTACGACATTTTGGAAAGTCCCGTTGATTTTGGTGCCAAAACA
 AACTCCCATTGACGTCATGGGGTGGAGACTTGGAAATCCCGTGGAGTCAAACCGCTATC
 CACGCCATTGGTGTACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTAATACGT
 AGATGACTGCCAAGTACGAAAGTCCCGTAAGGTGATGACTGGGCATAATGCCAGGCGG
 GCCATTTACCGTCATTGACGTCATAGGGGGCGGACTTGGCATATGATACACTTGTATGTA
 CTGCCAAGTGGGAGTTTACCGTAGACTGACCCATTGACGTCGATGGAAAGTCCCTA
 TTGGCGTTACTATGGGAACATACGTCAGTATTGACGTCATGGGCGGGGGTCTGTGGGC
 GGTGAGCCAGGCGGGCCATTTACCGTAAGTATGTCACGCGGAACCTCATATATGGGCTAT
 GAACTAAT

3' Read Nucleotide Sequence:	>Forward primer walk for NM_198580 unedited GGGCCCCGGGGGACCTGGCCTCTTGTGGGTCAGTTCAACCAACAGNACCCGCTGCGCCGC TTCGATGGCTATGTCAGCGAGAGCGCCACCAGCAAGAAGATCGCCACAGCGTCTTCAGC AAGGGCGACAGCGCTACCTCTCAGGTGACGTGCTAGTGATGGATGAGCTGGGCTACATG TACTTCCGGGACCGTAGCGGGGACACCTTCCGCTGGCGAGGGGAGAACGTCTCCACCACC GAGGTGGAGGGCGTGTGAGCCGCTGCTGGGCCAGACAGACGTGGCCGTCTATGGGGTG GCTGTTCCAGGAGTGAGGGTAAGGCAGGGATGGCGGCCGTCGCAGACCCCCACAGCCTG CTGGACCCCAACGCGATATACCAGGAGCTGCAGAAGGTGCTGGCACCCCTATGCCCGGCC ATCTTCTGCGCCTCCTGCCCCAGGTGGACACCACAGGCACCTTCAAGATCCAGAAGACG AGGCTGCAGCGAGAGGGCTTTGACCCACGCCAGACCTCAGACCGGCTCTTCTTCTGGAC CTGAAGCAGGGCCACTACCTGCCCTTAAATGAGGCAGTCTACACTCGCATCTGCTCGGGC GCCTTCGCCCTCTGAAGCTGTTCTCTACTGGCCACAACTCTGGGCCTGGTGGGAGAGG CCAGCTTGAGCCAGACAGCGCTGCCAGGGGTGGCCGCCTAGTACACACCCACCTGGCCG AGCTGTACTTGGCACGGCCATCCTGGACTGAGAACTGGGACCTCAGAGAAACCCGTGC CTCTCTGCTGCCCTGGNTGCCCGTGTCTGCCTCCCTCTCTGCTTTTCAGCCTCTGTC TCCTTCCATCCCTGTCCCTGTCTTGGCCTTACT
Restriction Sites:	Please inquire
ACCN:	NM_198580
Insert Size:	3600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_198580.1</u> , <u>NP_940982.1</u>
RefSeq Size:	3562 bp
RefSeq ORF:	1941 bp
Locus ID:	376497
UniProt ID:	<u>Q6PCB7</u>
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]