

## Product datasheet for **SC327597**

### FATP2 (SLC27A2) (NM\_001159629) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FATP2 (SLC27A2) (NM_001159629) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC27A2
Synonyms:	ACSVL1; FACVL1; FATP2; hFACVL1; HsT17226; VLACS; VLCS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for NM_001159629, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCTTTCGCCATCTACACAGTCCTGGCGGGACTGCTGTTCTGCCGCTCCTGGTGAAC CTCTGCTGCCATACTTCTTCCAGGACATAGGCTACTTCTTGAAGGTGGCCGCGTGGGC CGGAGGGTGGCGCAGCTACGGGAAGCGGCGGCGCGCACCATCCTGCGGGCGTTCTCTG GAGAAAAGCGCGCCAGACGCCACACAAGCCTTTTCTGCTCTTCCGCGACGAGACTCTACC TACGCGCAGGTGGACCGGCGCAGCAATCAAGTGGCCCGGGCGCTGCACGACCACCTCGGC CTGCGCCAGGGAGACTGGGTGGCGCTCCTTATGGGTAACGAGCCGCGCTACGTGTGGCTG TGGCTGGGGCTGGTGAAGCTGGGCTGTGCCATGGCGTGCCTCAATTACAACATCCGCGCG AAGTCCCTGCTGCACTGCTTCCAGTGTGCGGGGCGAAGGTGCTGCTGGTGTGCGCAGAA CTACAAGCAGCTGTGAAGAGATACTGCCAAGCCTTAAAAAGATGATGTGTCCATCTAT TATGTGAGCAGAATTCTAACACAGATGGGATTGACTCTTCTGGACAAAGTGGATGAA GTATCAACTGAACCTATCCCAGAGTCATGGAGGTCTGAAGTCACTTTTTCCACTCCTGCC TTATACATTTATACTTCTGGAACCACAGGTGCTACTCTTGCCCTTGGCGACTAAATTTTCA GCCAGCCAGTTTTGGGATGACTGCAGAAAATACAACGTCAGTGCATTTCAGTATATCGGT GAACTGCTTCGGTATTTATGCAACTCACACAGAAACCAATGACCGTGATCATAAAGTG AGACTGGCACTGGGAAATGGCTTACGAGGAGATGTGTGGAGACAATTTGTCAAGAGATT GGGGACATATGCATCTATGAGTTCTATGCTGCCACTGAAGGCAATATTGGATTTATGAAT TATGCGAGAAAAGTTGGTGTGTTGGAAGAGTAACTACCTACAGAAAAAATCATAACT TATGACCTGATTAATATGATGTGGAGAAAAGTGAACCTGCCGTGATGAAAATGGATAT TGCGTCAGAGTCCCAAAGGTGAAGTTGGACTTCTGGTTTGCAAAATCACACAATTACA CCATTTAATGGCTATGCTGGAGCAAAGGCTCAGACAGAGAAGAAAAAAGTGAAGATGTC TTTAAGAAAAGGAGACCTCTATTTCAACAGTGGAGATCTCTTAATGGTTGACCATGAAAAT TTCATCTATTTCCACGACAGAGTTGGAGATACATTCCGGTGGAAAAGGGGAAAATGTGGCC ACCACTGAAGTTGCTGATACAGTTGGACTGGTTGATTTTGTCCAAGAAGTAAATGTTTAT GGAGTGCATGTGCCAGATCATGAGGGTGCATTGGCATGGCCTCCATCAAATGAAAAGAA AACCATGAATTTGATGGAAGAAAAGTCTTTTCCAGCACATTGCTGATTACCTACCTAGTTAT GCAAGGCCCGGTTTCTAAGAATACAGGACACCATTGAGATCACTGGAACTTTTAAACAC CGCAAAATGACCCTGGTGGAGGAGGGCTTAAACCTGCTGTCATCAAAGATGCCTTGTAT TTCTTGGATGACACAGCAAAAATGTATGTGCCTATGACTGAGGACATCTATAATGCCATA AGTGCTAAAACCCTGAAACTC </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001159629
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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\\_001159629.1](#), [NP\\_001153101.1](#)

**RefSeq Size:** 2249 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 11001

**UniProt ID:** [O14975](#)

**Cytogenetics:** 15q21.2

**Protein Families:** Transmembrane

**Protein Pathways:** PPAR signaling pathway

**Gene Summary:** The protein encoded by this gene is an isozyme of long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme activates long-chain, branched-chain and very-long-chain fatty acids containing 22 or more carbons to their CoA derivatives. It is expressed primarily in liver and kidney, and is present in both endoplasmic reticulum and peroxisomes, but not in mitochondria. Its decreased peroxisomal enzyme activity is in part responsible for the biochemical pathology in X-linked adrenoleukodystrophy. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Transcript Variant: This variant (2) is lacking an in-frame coding exon compared to variant 1, resulting in a shorter isoform (2) missing an internal protein segment compared to isoform 1.