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Product datasheet for SC112657

SLC27A5 (NM_012254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC27A5 (NM_012254) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC27A5
Synonyms:	ACSB; ACSVL6; BACS; BAL; FACVL3; FATP-5; FATP5; VLACSR; VLCS-H2; VLCSH2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC112657 sequence for NM_012254 edited (data generated by NextGen Sequencing)

ATGGGTGTCAGGCAACAGTTGGCCTTGCTGCTGCTGCTGCTGCTCCTGCTCTGGGGCCTG
GGGCAGCCAGTGTGGCCAGTCGCTGTGGCCTTGACCCTGCGCTGGCTCCTGGGGGATCCC
ACATGTTGCGTGCTACTTGGGCTGGCCATGTTAGCACGGCCCTGGCTCGGCCCCTGGGTG
CCCCATGGGCTGAGCCTGGCAGCTGCGGCCCTGGCACTAACCCTCCTGCCAGCACGGCTG
CCCCCAGGACTACGCTGGCTGCCGGCTGATGTGATCTTCTTGGCCAAGATCCTCCACCTG
GGCCTGAAGATCAGGGGATGCTTGAGCCGGCAGCCGCCTGACACCTTTGTAGATGCCTTC
GAGCGGCGAGCACGAGCGCAGCCTGGCAGGGCACTCTTGGTGTGGACGGGGCCTGGGGCC
GGCTCAGTCACCTTTGGTGAGCTGGATGCCCGGGCCTGCCAGGCGGCATGGGCCCTGAAG
GCTGAGCTGGGTGACCCTGCGAGCCTGTGTGCCGGGGAGCCTACTGCCCTCCTTGTGCTG
GCTTCCCAGGCCGTTCCAGCCCTGTGTATGTGGCTGGGGCTGGCCAAGCTGGGCTGCCCA
ACAGCCTGGATCAACCCGCATGGCCGGGGGATGCCCCTGGCGCACTCTGTGCTGAGCTCT
GGGGCCCGGGTGCTGGTGGTGGACCCAGACCTCCGGGAGAGCCTGGAGGAGATCCTTCCC
AAGCTGCAGGCTGAGAACATCCGCTGCTTCTACCTCAGCCATACCTCCCCTACACCAGGG
GTGGGGGCTCTGGGGGCTGCCCTGGATGCAGCGCCCTCCCACCCAGTGCCTGCTGACCTG
CGTGCTGGGATCACATGGAGAAGCCCTGCCCTCTTCATCTATACCTCGGGGACCACTGGC
CTCCCGAAGCCAGCCATCCTCACGCATGAGCGGGTACTGCAGATGAGCAAGATGCTGTCC
TTATCTGGGGCCACAGCTGATGATGTGGTTTACACGGTCCTGCCTCTGTACCACGTGATG
GGACTTGTCGTTGGGATCCTCGGCTGCTTAGATCTCGGAGCCACCTGTGTTCTGGCCCCC
AAGTTCTCTACTTCCTGCTTCTGGGATGACTGTCGGCAGCATGGCGTGACAGTGATCCTG
TATGTGGGCGAGCTCCTGCGGTACTTGTGTAACATTCCCCAGCAACCAGAGGACCGGACA
CATACAGTCCGCCTGGCAATGGGCAATGGACTACGGGCTGATGTGTGGGAGACCTTCCAG
CAGCGCTTCGGTCCTATTCGGATCTGGGAAGTCTACGGCTCCACAGAAGGCAACATGGGC
TTAGTCAACTATGTGGGGCGCTGCGGGGCCCTGGGCAAGATGAGCTGCCTCCTCCGAATG
CTGTCCCCCTTTGAGCTGGTGCAGTTCGACATGGAGGCGGCGGAGCCTGTGAGGGACAAT
CAGGGCTTCTGCATCCCTGTAGGGCTAGGGGAGCCGGGGCTGCTGCTGACCAAGGTGGTA
AGCCAGCAACCCTTCGTGGGCTACCGCGGCCCCCGAGAGCTGTCGGAACGGAAGCTGGTG
CGCAACGTGCGGCAATCGGGCGACGTTTACTACAACACCGGGGACGTACTGGCCATGGAC
CGCGAAGGCTTCCTCTACTTCCGCGACCGCCTCGGGGACACCTTCCGATGGAAGGGCGAG
AACGTGTCCACGCACGAGGTGGAGGGCGTGTTGTCGCAGGTGGACTTCTTGCAACAGGTT
AACGTGTATGGCGTGTGCGTGCCAGGTTGTGAGGGTAAGGTGGGCATGGCTGCTGTGCAG
CTAGCCCCCGGCCAGACTTTCGACGGGGAGAAGTTGTACCAGCACGTTCGCGCTTGGCTC
CCTGCCTACGCTACCCCCCATTTCATCCGCATCCAGGACGCCATGGAGGTCACCAGCACG
TTCAAACTGATGAAGACCCGGTTGGTGCGTGAGGGCTTCAATGTGGGGATCGTGGTTGAC
CCTCTGTTTGTACTGGACAACCGGGCCCAGTCCTTCCGGCCCCTGACGGCAGAAATGTAC
CAGGCTGTGTGTGAGGGAACCTGGAGGCTCTGA

Clone variation with respect to NM_012254.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012254 unedited
NAAAAAGGGGGANNNAAATTGCCCACNNNNNCGGTTCATAATTGTATACGACTCACTATA
GGCGGCCGCGAAATTCGCACCAGGGTACCATGGGTGTCAGGCAACAGTTGGCCTTGCTGC
TGCTGCTGCTGCTCCTGCTCTGGGGCCTGGGGCAGCCAGTGTGGCCAGTCGCTGTGGCCT
TGACCCTGCGCTGGCTCCTGGGGGATCCCACATGTTGCGTGCTACTTGGGCTGGCCATGT
TAGCACGGCCCTGGCTCGGCCCCTGGGTGCCCCATGGGCTGAGCCTGGCAGCTGCGGCCC
TGGCACTAACCCTCCTGCCAGCACGGCTGCCCCCAGGACTACGCTGGCTGCCGGCTGATG
TGATCTTCTTGGCCAAGATCCTCCACCTGGGCCTGAAGATCAGGGGATGCTTGAGCCGGC
AGCCGCCTGACACCTTTGTAGATGCCTTCGAGCGGCGAGCACGAGCGCAGCCTGNCAGGG
CACTCTTGGTGTGGACGGGGCCTGGGGCCGGCTCANTCACCTTTGGTGAGCTGGATGCCC
GGGCCTGCCAGGCGGCATGGGCCCTGANAGCTGAGCTGGGTGACCCTGCGAGCCTGTGTG
CCGGGGAGCCTACTGCCCTCCTTGTGCTGGCTTCCCAGGCCGTTCCACCCCTGTGTATGT
GGCTGGGGCTGGCCAAGCTGGGCTGCCCACAGCCTGNATCAACCCCCATGCCCGGGGATG
CCCCTGGCGCACTCTGTGCTGAGCTCTGGGGCCCGGGTGCTGGTGGTGGACCCAAAACCT
CCGGGAGACCTGGAAGAAACCTTTCCCAACTGCAGGCTGAAAACATCCGCTGTTTTTACT
TAAGCCTACCTTCCCTACCCCAGGGGTGGGGGTTCTGGGGGCTGCCCTGAAACCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012254 unedited
CCCGCCCCAATTAGTTGCACGCGGCCCGCATCTACGACCGGTTTTTTTTTTTTTTTTTG
TGAACACATCTGAGTTTATTCTGCCACTGCTACAGGGCCCACTGTCATTTCCAGCCCACT
GAGGTTGAGGGTATGGCTCAGGCTTGGGTATTCTACACAGGCTCCAGGCATGAAAGGGAC
ACCGAGTGTGTTGGGGTGGGGGTGGCTGGATTTGATCCCTACCCCACTGGCTTTATCAGG
TGATCAGAGCCTCCAGGTTCCCTTACACTCTCTCTGGTCCATTCCTGATGTTAGGGGTCC
TGTCAGCACTGCTTCTGCCTTTTTTTTTCTCTTCCTTTCTCACCCCCCTTCTTACTTTAT
CACTTCCTCTTCCCACCCCCCTGCCCCCTCTTATTCATTCTTCCCACCCCACCTAATTTC
CCCGATTTTTTTCTTCCAAGCCACCTTCCCTTCATCTCTCCACCTCTCTTCTTAATCATC
CTCCTAACCTTTTCAACTCTCTCTCTTTTTCTATCCACTCCCCTTTCTCCCCAGATCCTC
TTCTGCGCGACTGTGCCCTCTCCTCCTCGTCTTTTGGTCTTCTCCCGCTCCTGTGCTACT
GTGTTCTTCTCGCTAACACCTTCTTCTCTCGGCTTGGTCCCTCCCCCTCTTCTCTTTTTC
TCACCGGCAGACCTCTCTCCCCCACCCTACCTCCCCTCTTCTCCCTCTGACGGCCCGTGG
TCTTTTTTTCTCTCTTTTCTCCCTCTCTTTTTACTTACTACGCGCTGCTGTCCTCCTCCT
CCCCGCCCAACGCCCCCTCCATGCCTCCTGGTGGTGGCGCCTCACCAGCGCCCCTTATTT
CCCCTCCCTATTCGCGTTCTGGTTGGCGTTGACCTTCCATTGCCGCGCGCACCCTTGGCG
CCGGCCTCGCCGCTGGCGGGGTGCCGTCCCCTGGCGGCGTGGCGCACCCTGCCCGCTTGC
CTCTATGGAT

Restriction Sites: NotI-NotI

ACCN: NM_012254

Insert Size: 2300 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).

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_012254.1, NP_036386.1
RefSeq Size:	2347 bp
RefSeq ORF:	2073 bp
Locus ID:	10998
UniProt ID:	Q9Y2P5
Cytogenetics:	19q13.43
Domains:	AMP-binding
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis
Gene Summary:	The protein encoded by this gene is an isozyme of very long-chain acyl-CoA synthetase (VLCS). It is capable of activating very long-chain fatty-acids containing 24- and 26-carbons. It is expressed in liver and associated with endoplasmic reticulum but not with peroxisomes. Its primary role is in fatty acid elongation or complex lipid synthesis rather than in degradation. This gene has a mouse ortholog. [provided by RefSeq, Jul 2008]