

## Product datasheet for **RC215758**

### SLC27A5 (NM\_012254) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC27A5 (NM_012254) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC27A5
Synonyms:	ACSB; ACSVL6; BACS; BAL; FACVL3; FATP-5; FATP5; VLACSR; VLCS-H2; VLCSH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Protein Sequence: >RC215758 representing NM\_012254  
 Red=Cloning site Green=Tags(s)

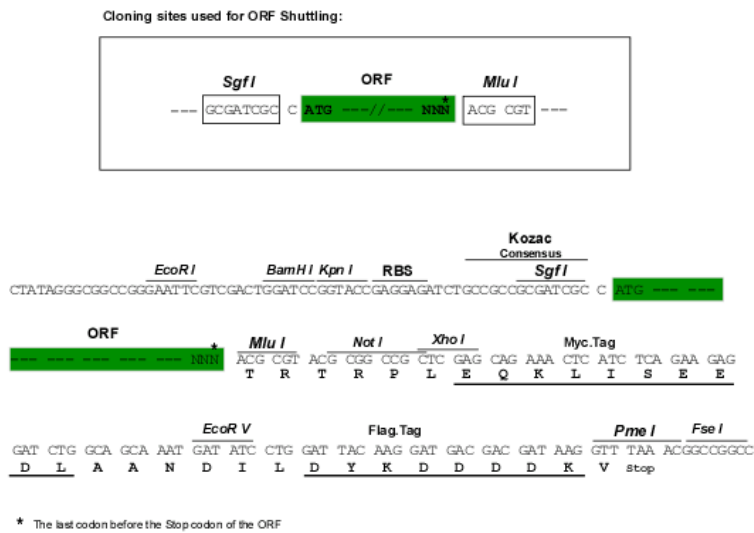
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 QRFGPIRIWEVYGSTEGNMGLVNYVGRGALGKMSCLLRMLSPFELVQFDMEAAEPVRDNQGF CIPVGLG  
 EPGLLLTKVVSQQPFVGYRGPREL SERKLVNRVRSQGDVYNTGDV LAMDREGFLYFRDRLGDTFRWKGE  
 NVSTHEVEGVL SQVDFLQVNVYGVCPV GCEGKVGMAAVQLAPGQTFDGEKLYQHVRAWLPAYATPHFIR  
 IQDAMEVTSTFKLMKTRLVREGFNVGIVDPLFVLDNRAQSF RPLTAEMYQAVCEGTWRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8115\\_d04.zip](https://cdn.origene.com/chromatograms/mk8115_d04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

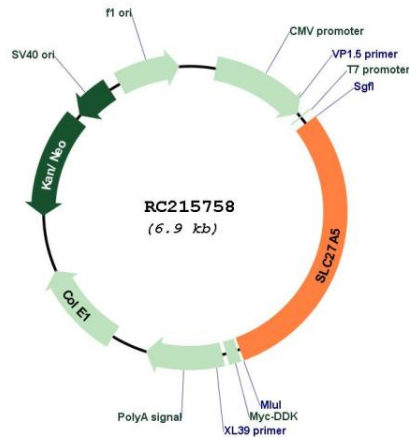


ACCN: NM\_012254

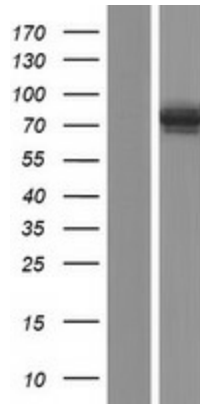
ORF Size: 2070 bp

<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_012254.3</a>
<b>RefSeq Size:</b>	2378 bp
<b>RefSeq ORF:</b>	2073 bp
<b>Locus ID:</b>	10998
<b>UniProt ID:</b>	<a href="#">Q9Y2P5</a>
<b>Cytogenetics:</b>	19q13.43
<b>Domains:</b>	AMP-binding
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis
<b>MW:</b>	75.4 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC215758



Western blot validation of overexpression lysate (Cat# [LY415880]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215758 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).