

## Product datasheet for **RC221499L4V**

### SOAT 2 (SOAT2) (NM\_003578) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SOAT 2 (SOAT2) (NM_003578) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SOAT 2
Synonyms:	ACACT2; ACAT2; ARGP2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003578
ORF Size:	1566 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221499).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_003578.2</a>
RefSeq Size:	2073 bp
RefSeq ORF:	1569 bp
Locus ID:	8435
UniProt ID:	<a href="#">O75908</a>
Cytogenetics:	12q13.13
Protein Families:	Transmembrane
Protein Pathways:	Steroid biosynthesis



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**MW:** 59.8 kDa

**Gene Summary:** Summary: This gene is a member of a small family of acyl coenzyme A:cholesterol acyltransferases. The gene encodes a membrane-bound enzyme localized in the endoplasmic reticulum that produces intracellular cholesterol esters from long-chain fatty acyl CoA and cholesterol. The cholesterol esters are then stored as cytoplasmic lipid droplets inside the cell. The enzyme is implicated in cholesterol absorption in the intestine and in the assembly and secretion of apolipoprotein B-containing lipoproteins such as very low density lipoprotein (VLDL). Several alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2008]