

## Product datasheet for **RC217753L1V**

### ACAT1 (NM\_000019) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	ACAT1 (NM_000019) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ACAT1
Synonyms:	ACAT; MAT; T2; THIL
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000019
ORF Size:	1281 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217753).
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_000019.3</a>
RefSeq Size:	2149 bp
RefSeq ORF:	1284 bp
Locus ID:	38
UniProt ID:	<a href="#">P24752</a>
Cytogenetics:	11q22.3
Domains:	thiolase
Protein Families:	Druggable Genome



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<b>Protein Pathways:</b>	Butanoate metabolism, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine, leucine and isoleucine degradation
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone. [provided by RefSeq, Feb 2009]