

Product datasheet for **RC215305L1V**

ACACB (NM_001093) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ACACB (NM_001093) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ACACB
Synonyms:	ACC-beta; ACC2; ACCB; HACC275
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_001093
ORF Size:	7374 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215305).
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. More info
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:	NM_001093.2
RefSeq Size:	9251 bp
RefSeq ORF:	7377 bp
Locus ID:	32
UniProt ID:	O00763
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome, Transmembrane



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Protein Pathways:	Adipocytokine signaling pathway, Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
MW:	276.4 kDa
Gene Summary:	Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACC-beta isoforms. [provided by RefSeq, Jul 2008]