

Product datasheet for KN204428LP

OriGene Technologies, Inc.

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ACADVL Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ACADVL

Locus ID: 37

Components: KN204428G1, ACADVL gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN204428G2, ACADVL gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204428LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: NM 000018, NM 001033859, NM 001270447, NM 001270448

UniProt ID: P49748

Synonyms: ACAD6; LCACD; VLCAD

Summary: The protein encoded by this gene is targeted to the inner mitochondrial membrane where it

catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A

deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding

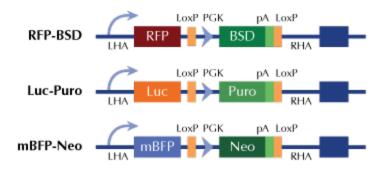
different isoforms. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter