

Product datasheet for **KN204428**

ACADVL Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	ACADVL
Locus ID:	37
Components:	<p>KN204428G1, ACADVL gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGGCCGCGGCGGGTAA</p> <p>KN204428G2, ACADVL gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTTCGTTCCCTCCCCTCCGT</p> <p>KN204428D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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TAACAGTTCC CTCAAATTGA GAGAGCATCC CTAATGCAG CCACCACGAG ATGCTTGTTT TAGAGTCTGA
AGGCCACCC CTTCCTGCC AGCTGACACC CCCAGATCAG TCAGGCACTC ACAACCAATA ACCTTTACCC
CATGCCAGGA GCCCCCCAAA ACTGGACAAG GCCCTTGAA GCCAGCTTTT CCCTGGGGAG GAAAGAGGAA
CCCCCAACA TAGCCACCT TCCACATAC ACCAGCAGGA CTCCTTATG AGCCAGGCTT CTCCTTAAAT
AAGTCTCCCT CAAACAGCGC TGATGAACCC CCAACCCGC CAGGCCCCC GAACCATGGA ATATCCTAAA
TTTTCCATAT CCCTACAGT ACAAGGGAT CACTCCAGGG GGCACCTGTG GCCAAATCCT GCATTTTCTC
AGATGTGAAC CCCAAAATA AATTAAGACC CCCAAATACA TCTTACTTCT GATGCTGCCA CTCCAGGGGC
GCCAGTCCA GATAAGGCCT ACTAACCCT CCCACAAC TCATACCCTC CCCCAGTTT ATAGCCCCC
CATCATGCTT ACCTTGTTG TCACTATA GAGACAGTCC AGGATGGGG GAGGGGTGAG AGGGGAAGGA
GGGGTTGGA GAAGGAAGG GGAGGGGAGC GTGGGAGGGA GGGGAAGGG GCCCTAAAG GGGCTCCCA
GTGGAGGGGA GGGGCTTGG GGAGCACACC CCGATTCTCA GGAGGGGCGG GGCACCGGG GGCTGGCAGC
CCCGAGTTC GGGGCTGGG GCATGAGCTG GGGTGGGGGA GGGGAAGTGG ATTTCCGGGA GCCCCGGGT
AGGGGGGGT CTTGCCAAC GGCCAGGGGC TAGGGGCCGT GCGGGGGGAG TGGGGTGGG GGGTTGAAA
CGGCAGCGC CGAGGGAGCC GTGGAGCCGA AGAGGAAGG GGAGAGAGGA GGAGAGAGGA AGCAGGGGA
GGGAGGGAG GAGCTAGGAG CAGAATGGG GGGGTGCCT TGGCAGAGTT AACTCCTTCT GTGCTGGCAG
GAACCCGAT AATGGGAAAG GAGATAGAAG CAGAAGCACA GAGGCCCTG AGGCAACAT GGAGACCTGG
CCAGCCACA GCGATGACAG CAAAGACGAT GAGGCTGGAT TTCATTCTT AGAGAAGGAA GCATCTATAG
TTGGGCTGGG

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GE100003, scramble sequence in pCas-Guide vector



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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:

