

## Product datasheet for **MR206476L3V**

### Acads (NM\_007383) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Acads (NM_007383) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Acads
Synonyms:	Al196007; Bcd-1; Bcd1; Hdlq; Hdlq8; SC; SCAD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_007383
ORF Size:	1239 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206476).
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_007383.2</a>
RefSeq Size:	1881 bp
RefSeq ORF:	1239 bp
Locus ID:	11409
UniProt ID:	<a href="#">Q07417</a>
Cytogenetics:	5 F


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**Gene Summary:**

This gene encodes a homotetrameric mitochondrial flavoprotein and is a member of the acyl-CoA dehydrogenase family. Members of this family catalyze the first step of fatty acid beta-oxidation, forming a C2-C3 trans-double bond in a FAD-dependent reaction. As beta-oxidation cycles through its four steps, each member of the Acyl-CoA dehydrogenase family works at an optimum fatty acid chain-length. This enzyme has its optimum at C(four)-CoA. In mice, deficiency of this gene has been linked to cold sensitivity and increased high-density lipoprotein levels. [provided by RefSeq, Nov 2012]