

Product datasheet for **RG236762**

ACADM (NM_001286044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADM (NM_001286044) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACADM
Synonyms:	ACAD1; MCAD; MCADH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236762 representing NM_001286044. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGATAACCAACGGAGGAAAAGCTAATTGGTATTTTTATTGGCACGTTCTGATCCAGATCCTAAA
GCTCCTGCTAATAAAGCCTTTACTGGATTCATTGTGGAAGCAGATACCCAGGAATTCAGATTGGGAGA
AAGGAATTAACATGGGCCAGCGATGTTTCAGATACTAGAGGAATTGTCTTCAAGATGTGAAAGTGCCT
AAAGAAAATGTTTTAATTGGTGACGGAGCTGGTTCAAAGTTGCAATGGGAGCTTTTGATAAAACCAGA
CCTGTAGTAGCTGCTGGTGTGTTGGATTAGCACAAAGAGCTTTGGATGAAGCTACCAAGTATGCCCTG
GAAAGGAAAACCTTCGGAAAGCTACTTGTAGAGCACCAAGCAATATCATTATGCTGGCTGAAATGGCA
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CAGATACTTGGAGGCAATGGATTTAATACAGAATATCCTGTAGAAAACTAATGAGGGATGCCAAAATC
TATCAGATTTTGAAGGTACTTCACAAATTCAAAGACTTATTGTAGCCCGTGAACACATTGACAAGTAC
AAAAAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236762
 Blue=ORF Red=Cloning site Green=Tag(s)

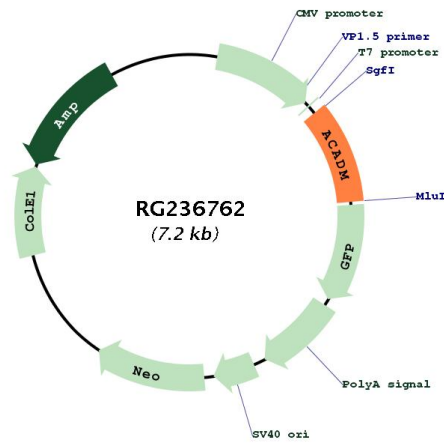
MWITNGGKANWYFLLARSDPKAPANKAFTGFIVEADTPGIQIGRKELNMGQRCS DTRGIVFEDVKVP
 KENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEATKYALERKTFGKLLVEHQAI SFMLAEMA
 MKVELARMSYQRAAWEVDSGRNRTYYASIAKAFAGDIANQLATDAVQILGGNGFNTEYYPEKLMRDAKI
 YQIYEGTSQIQRLLIVAREHIDKYKN
 TRTRPLEMESDESGLPAMEIECRITGTNLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286044

ORF Size:	696 bp
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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
RefSeq:	NM_001286044.1 , NP_001272973.1
RefSeq Size:	2353 bp
RefSeq ORF:	699 bp
Locus ID:	34
Cytogenetics:	1p31.1
Protein Families:	Druggable Genome
Protein Pathways:	beta-Alanine metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Valine, leucine and isoleucine degradation
MW:	26.1 kDa
Gene Summary:	This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]