

Product datasheet for **RG238026**

ACADS (NM_001302554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADS (NM_001302554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACADS
Synonyms:	ACAD3; SCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238026 representing NM_001302554. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
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GAAATCCAGCGGCTGGTATCGCCGGGCATCTGCTCAGGAGCTACCGGAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238026
 Blue=ORF Red=Cloning site Green=Tag(s)

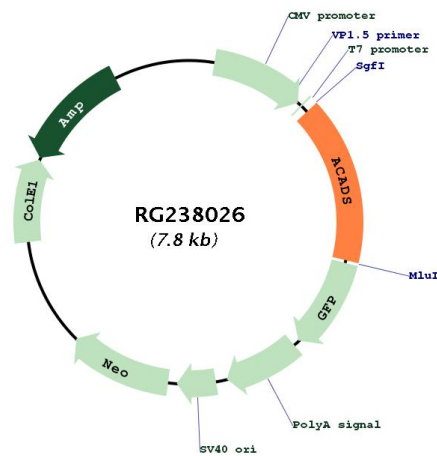
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 AFLVPMPTPLTLGKKEDKLGIRGSSTANLIFEDCRIPKDSILGEPGMGFKIAMQTLDMGRIGIASQAL
 GIAQTALDCAVNYAENRMAGAPLTKLQVIQFKLADMALALESARLLTWRAAMLKDNKPFKEAAMAK
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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001302554
ORF Size:	1224 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_001302554.2
RefSeq Size:	1952 bp
RefSeq ORF:	1227 bp
Locus ID:	35
UniProt ID:	P16219
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation
MW:	44.5 kDa
Gene Summary:	This gene encodes a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with short-chain acyl-CoA dehydrogenase (SCAD) deficiency. Alternative splicing results in two variants which encode different isoforms. [provided by RefSeq, Oct 2014]