

Product datasheet for **RG203235**

ACAD9 (NM_014049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD9 (NM_014049) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACAD9
Synonyms:	MC1DN20; NPD002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203235 representing NM_014049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGGCTGCGGGCTTCTCTGCGCACACGGCTGCGGCTCGTGCCTGCCGGGTCTGGTGGTCTCTA
 CCGCGAACCGGGGCTACTGCGCACAGCCCGCTGTACGAGCTTTCGCCAAAGAGCTTTTCTAGGCAA
 AATCAAGAAGAAAAGTTTTCCATTTCCAGAAGTTAGCCAAGATGAACCTAATGAAATCAATCAGTTC
 TTGGGACCCGTGAAAAATTTCTCACTGAAGAGGTGGACTCCCGAAAAATTGACCAGGAAGGAAAAATCC
 CAGATGAAACTTTGGAGAAATTAAGAGCCTAGGGCTTTTGGGCTGCAAGTCCCAGAAGAATATGGTGG
 CCTGGGCTTCTCCAACACCATGTACTCACGACTAGGGGAGATCATCAGCATGGATGGTCCATCACTGTG
 ACCCTGGCAGCGCACAGGCTATTGGCCTCAAGGGGATCATCTTGGCTGGCACTGAGGAGCAGAAAGCCA
 AATACTTGCTAACTGGCGTCCGGGGAGCACATTGCAGCCTTCTGCCTCACGGAGCCAGCCAGTGGGAG
 CGATGCAGCCTCAATCCGGAGCAGACCACTAAGTGAAGACAAGAAGCACTACATCCTCAATGGCTCC
 AAGGTCTGGATTACTAATGGAGGACTGGCCAATTTTTACTGTGTTTGC AAAGACTGAGGTCGTTGATT
 CTGATGGATCAGTGAAAGACAAAATCACAGCATTATAGTAGAAAAGAGACTTTGGTGGAGTCACTAATGG
 GAAACCGAAGATAAATAGGCATTCGGGGCTCCAACACTTGTGAAGTCCATTTTAAAAACCAAGATA
 CCTGTGAAAAACATCCTTGGAGAGGTGGAGATGGGTTTAAAGTGGCCATGAACATCCTCAACAGCGGCC
 GGTTACAGCATGGGAGCGTCTGGCTGGGCTGCTCAAGAGATTGATTGAAATGACTGTGAGTACGCTG
 CACAAGGAAACAGTTTACAAGAGGCTCAGTGAATTTGGATTGATTCAGGAGAAATTTGCACTGATGGCT
 CAGAAGGCTTACGTCATGGAGAGTATGACCTACCTCACAGCAGGGATGCTGGACCAACCTGGCTTCCCG
 ACTGCTCCATCGAGGCAGCCATGGTGAAGTGTTCAGCTCCGAGGCCCGCTGGCAGTGTGTGAGTAGGGC
 GCTGCAGATCCTCGGGGGCTTGGGCTACACAAGGGACTATCCGTACGAGCGCATACTGCGTGACACCCGC
 ATCCTCCTCATCTTCGAGGGAACCAATGAGATTCTCCGGATGTACATCGCCCTGACGGGTCTGCAGCATG
 CCGGCCGCATCCTGACTACCAGGATCCATGAGCTTAAACAGGCCAAAGTGAACACAGTCAAGTACCGT
 TGGCCGGAGGCTTCGGGACTCCCTGGGCCGAAGTGGACCTGGGGCTGACAGGCAACCATGGAGTTGTG
 CACCCTAGTCTTTCGGACAGTGCCAACAAAGTTTGGAGAGAACCTACTGCTTCGGCCGGACCGTGGAGA
 CACTGTGCTCCGCTTTGGCAAGACCATCATGGAGGAGCAGCTGGTACTGAAGCGGGTGGCAACATCCT
 CATCAACCTGTATGGCATGACGGCCGTGCTGTCGCGGGCCAGCCGCTCCATCCGATTGGGCTCCGCAAC
 CACGACCAGAGTTCTCTTGGCCAACACCTTCTGCGTGAAGCTTACTTGCAGAATCTCTTCAGCCTCT
 CTAGCTGGACAAGTATGCTCCAGAAAACCTAGATGAGCAGATTAAGAAAAGTGTCCAGCAGATCCTTGA
 GAAGCGAGCCTATATCTGTGCCACCCTCTGGACAGGACATGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203235 representing NM_014049
 Red=Cloning site Green=Tags(s)

MSGCGLFLRTTAAARACRGLVVSTANRLLRTSPPVRAF AKELFLGKIKKKEVFPFPEVSQDELNEINQF
 LGPVEKFFTEEVD SRKIDQEGKIPDETLEKLSLGLFGLQVPEEYGG LFSNTMYSRLGEIISMDGSITV
 TLAHQAIGLKGIILAGTEEQKAKYLPKLASGEHIAAFCLTEPASGSDAASIRSRATLSEDKHYILNGS
 KVVITNGLANIFTVFAKTEVVSDSGSVKDKITAFIVERDFGGVTNGKPEDKLGIRGNTCEVHFENTKI
 PVENILGEVGDGFKVAMNINLSGRFSMGSVVAGLLKRLIEMTAEYACTRKQFNKRLSEFGLIQEFALMA
 QKAYVMESMTYL TAGMLDQPGFPDCSIEAMVKVFSSEAAWQCVSEALQILGGLGYTRDYPYERILRDTR
 ILLIFEGTNEILRMYIALTGLQHAGRILTTRIHELKQAKVSTVMDTVGRRLRDSLGRVVDLGLTGNHGVV
 HPSLADSANKFEENTYCFGRVTETLLRFGKTI MEEQLVLKRVANILINLYGMTAVLSRASRSIRIGLRN
 HDHEVLLANTFCVEAYLQNLFSLSQLDKYAPENLDEQIKKVSQQILEKRAYICAHPLDRTC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014049

ORF Size: 1863 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_014049.3](#), [NP_054768.2](#)

RefSeq Size: 2485 bp

RefSeq ORF: 1866 bp

Locus ID: 28976

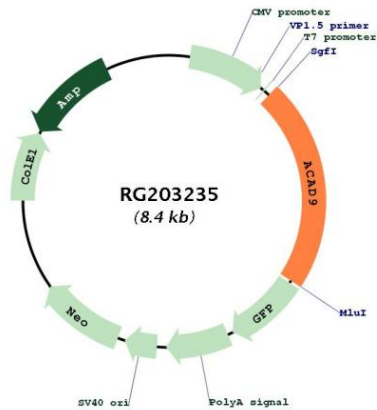
UniProt ID: [Q9H845](#)

Cytogenetics: 3q21.3

Domains: Acyl-CoA_dh, Acyl-CoA_dh_M, Acyl-CoA_dh_N

Gene Summary: This gene encodes a member of the acyl-CoA dehydrogenase family. Members of this family of proteins localize to the mitochondria and catalyze the rate-limiting step in the beta-oxidation of fatty acyl-CoA. The encoded protein is specifically active toward palmitoyl-CoA and long-chain unsaturated substrates. Mutations in this gene cause acyl-CoA dehydrogenase family member type 9 deficiency. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG203235