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Product datasheet for RG201507

ACAD8 (NM_014384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD8 (NM_014384) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACAD8
Synonyms:	ACAD-8; ARC42; IBDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201507 representing NM_014384
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTGGAGCGGCTGCCGGCGTTTCGGGGCGCGCCTCGGCTGCCTGCCCGGCGGTCTCCGGGTCCTCG
TCCAGACCGGCCACCGGAGCTTGACCTCCTGCATCGACCCTTCCATGGGACTTAATGAAGAGCAGAAAGA
ATTTCAAAAAGTGGCCTTTGACTTTGCTGCCCGAGAGATGGCTCCAAATATGGCAGAGTGGGACCAGAAG
GAGCTGTTCCCAGTGGATGTGATGCGGAAGGCAGCCCAGCTAGGCTTCGGAGGGGTCTACATACAAACAG
ATGTGGGCGGGTCTGGGCTGTCACGTCTTGATACCTCTGTCATTTTTGAAGCCTTGGCTACAGGCTGCAC
CAGCACCACAGCCTATATAAGCATCCACAACATGTGTGCCTGGATGATTGATAGCTTCGGAAATGAGGAA
CAGAGGCACAAATTTTGCCCACCGCTCTGTACCATGGAGAAGTTTGCTTCCTACTGCCTCACTGAACCAG
GAAGTGGGAGTGATGCTGCCTCTCTTCTGACCTCCGCTAAGAAACAGGGAGATCATTACATCCTCAATGG
CTCCAAGGCCTTCATCAGTGGTGCTGGTGAGTCAGACATCTATGTGGTCATGTGCCGAACAGGAGGACTA
GGCCCCAAGGGCATCTCATGCATAGTTGTTGAGAAGGGGACCCCTGGCCTCAGCTTTGGCAAGAAGGAGA
AAAAGGTGGGGTGGAACTCCCAGCCAACACGAGCTGTGATCTTCGAAGACTGTGCTGTCCCTGTGGCCAA
CAGAATTGGGAGCGAGGGGCAGGGCTTCCTCATTGCCGTGAGAGGACTGAACGGAGGGAGGATCAATATT
GCTTCCTGCTCCCTGGGGGCTGCCCACGCCTCTGTCATCCTCACCCGAGACCACCTCAATGTCCGGAAGC
AGTTTGGAGAGCCTCTGGCCAGTAACCAGTACTTGCAATTCACACTGGCTGATATGGCAACAAGGCTGGT
GGCCGCGCGGCTGATGGTCCGCAATGCAGCAGTGGCTCTGCAGGAGGAGAGGAAGGATGCAGTGGCCTTG
TGCTCCATGGCCAAGCTCTTTGCTACAGATGAATGCTTTGCCATCTGCAACCAGGCCTTGCAGATGCACG
GGGGCTACGGCTACCTGAAGGATTACGCTGTTCAGCAGTACGTGCGGGACTCCAGGGTCCACCAGATTCT
AGAAGGTAGCAATGAAGTGATGAGGATACTGATCTCTAGAAGCCTGCTTCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

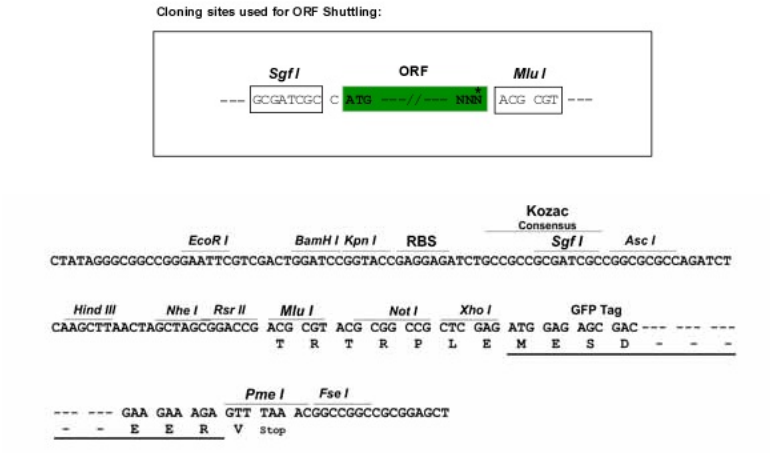
>RG201507 representing NM_014384
Red=Cloning site Green=Tags(s)

MLWSGCRRFGARLGCLPGGLRVLVQTGHRSLTSCIDPSMGLNEEQKEFQKVAFDFAAREMAPNMAEWDQK
ELFPVDVMRKAAQLGFGGVYIQTDVGGSGLSRLDTSVIFEALATGCTSTTAYISIHNMCAWMIDSFGNEE
QRHKFCPPLCTMEKFASYCLTEPGSGSDAASLLTSAKKQGDHYILNGSKAFISGAGESDIYVVMCRTGGL
GPKGISCIVVEKGTPGLSFGKKEKKVGWNSQPTRAVIFEDCAVPVANRIGSEGQGFLIAVRGLNGGRINI
ASCSLGAAHASVILTRDHLNVRKQFGEPLASNQYLQFTLADMATRLVAARLMVRNAAVALQEERKDAVAL
CSMAKLFATDECFAICNQALQMHGGYGYLKDYAVQQYVRDSRVHQILEGSNEVMRILISRSLLQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014384

ORF Size: 1245 bp

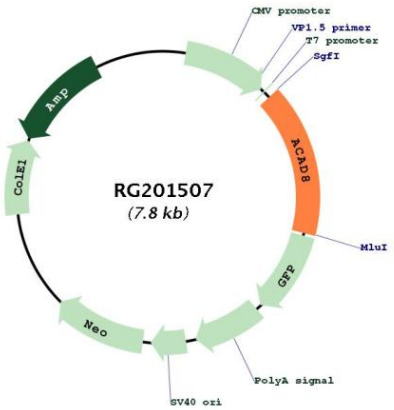
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_014384.2, NP_055199.1
RefSeq Size:	2216 bp
RefSeq ORF:	1248 bp
Locus ID:	27034
UniProt ID:	Q9UKU7
Cytogenetics:	11q25
Domains:	Acyl-CoA_dh, Acyl-CoA_dh_M, Acyl-CoA_dh_N
Protein Families:	Transcription Factors
Protein Pathways:	Metabolic pathways, Valine, leucine and isoleucine degradation
Gene Summary:	This gene encodes a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. The encoded protein is a mitochondrial enzyme that functions in catabolism of the branched-chain amino acid valine. Defects in this gene are the cause of isobutyryl-CoA dehydrogenase deficiency.[provided by RefSeq, Nov 2009]

Product images:



Circular map for RG201507