

Product datasheet for RC201507

ACAD8 (NM_014384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD8 (NM_014384) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACAD8
Synonyms:	ACAD-8; ARC42; IBDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201507 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGGAGCGGCTGCCGGCCTTCGGGGCGCGCCTCGGCTGCCTGCCGGCGGTCTCCGGTCTCTCG
TCCAGACCGGCCACCGGAGCTTGACCTCCTGCATCGACCCTTCCATGGGACTTAATGAAGAGCAGAAAGA
ATTTCAAAGTGGCCTTTGACTTTGCTGCCCGAGAGATGGCTCCAAATATGGCAGAGTGGGACCAGAAG
GAGCTGTTCCAGTGGATGTGATGCGGAAGGCAGCCAGCTAGGCTTCGGAGGGGTCTACATACAAACAG
ATGTGGGCGGGTCTGGGCTGTCAGTCTTGATACCTCTGTCAATTTTGAAGCCTTGGCTACAGGCTGCAC
CAGCACCACAGCCTATATAAGCATCCACAACATGTGTGCCTGGATGATTGATAGCTTCGAAATGAGGAA
CAGAGGCACAAATTTTGGCCACCGCTCTGTACCATGGAGAAGTTTGTCTCTACTGCCTCACTGAACCAG
GAAGTGGGAGTGATGCTGCCTCTCTTCTGACCTCCGCTAAGAAACAGGGAGATCATTACATCCTCAATGG
CTCCAAGGCCCTCATCAGTGGTGTGGTGTGAGTCAGACATCTATGTGGTCAATGTGCCGAACAGGAGGACTA
GGCCCCAAGGGCATCTCATGATAGTTGTTGAGAAGGGGACCCCTGGCCTCAGCTTTGGCAAGAAGGAGA
AAAAGGTGGGGTGAACCTCCAGCCAACACGAGCTGTGATCTTCGAAGACTGTGCTGTCCCTGTGGCCAA
CAGAATTGGGAGCGAGGGGACGGCTTCTCATTGCCGTGAGAGGACTGAACGGAGGGAGGATCAATATT
GCTTCTGCTCCCTGGGGCTGCCACGCCTCTGTCATCCTCACCCGAGACCCTCAATGTCCGGAAGC
AGTTTGGAGAGCCTCTGGCCAGTAACCACTACTTGAATTCACACTGGCTGATATGGCAACAAGGCTGGT
GGCCGCGCGGCTGATGGTCCGCAATGCAGCAGTGGCTCTGCAGGAGGAGGAAGGATGAGTGGCCTTG
TGCTCCATGGCCAAGCTCTTTGCTACAGATGAATGCTTTGCCATCTGCAACCAGGCTTGCAGATGCACG
GGGGCTACGGCTACCTGAAGGATTACGCTGTTACAGCAGTACGTGCGGGACTCCAGGGTCCACCAGATTCT
AGAAGGTAGCAATGAAGTATGAGGATACTGATCTCTAGAAGCCTGCTTCAGGAG

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014384.3](#)

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

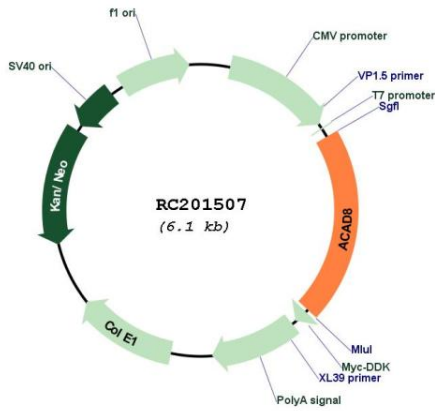
Protein Families: Transcription Factors

Protein Pathways: Metabolic pathways, Valine, leucine and isoleucine degradation

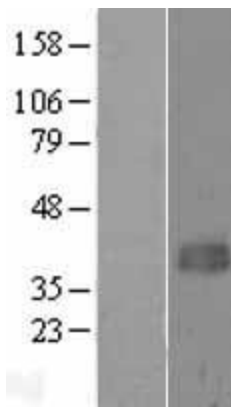
MW: 45.1 kDa

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]

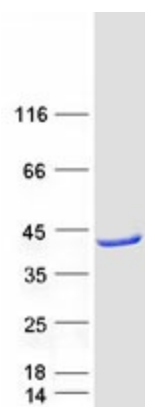
Product images:



Circular map for RC201507



Western blot validation of overexpression lysate (Cat# [LY415328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACAD8 protein (Cat# [TP301507]). The protein was produced from HEK293T cells transfected with ACAD8 cDNA clone (Cat# RC201507) using MegaTran 2.0 (Cat# [TT210002]).