

Product datasheet for **SC115026**

ACAD8 (NM_014384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAD8 (NM_014384) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAD8
Synonyms:	ACAD-8; ARC42; IBDH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014384, the custom clone sequence may differ by one or more nucleotides

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ATGCTGTGGAGCGGCTGCCGGCGTTTCGGGGCGCGCCTCGGCTGCCTGCCCGGGTCTCCGGTCTCG
TCCAGACCGGCCACCGGAGCTTGACCTCTGCATCGACCCTTCCATGGGACTTAATGAAGAGCAGAAAGA
ATTTCAAAAAGTGGCCTTTGACTTTGCTGCCCGAGAGATGGCTCCAAATATGGCAGAGTGGGACCAGAAG
GAGCTGTTCCAGTGGATGTGATGCGGAAGGCAGCCAGCTAGGCTTCGGAGGGTCTACATACAAACAG
ATGTGGGCGGGTCTGGGCTGTACGTCTTGATACCTCTGTCATTTTTGAAGCCTTGGCTACAGGCTGCAC
CAGCACCACAGCCTATATAAGCATCCACAACATGTGTGCCTGGATGATTGATAGCTTCGAAATGAGGAA
CAGAGGCACAAATTTGCCACCGCTCTGTACCATGGAGAAGTTTGCTTCTACTGCCTCACTGAACCAG
GAAGTGGGAGTGATGCTGCCTCTTTCTGACCTCCGCTAAGAAACAGGGAGATCATTACATCCTCAATGG
CTCCAAGGCCTTCATCAGTGGTGTGGTGTGATCAGACATCTATGTGGTCAATGTGCCGAACAGGAGGACCA
GGCCCCAAGGGCATCTCATGCATAGTTGTTGAGAAGGGGACCCCTGGCCTCAGCTTTGGCAAGAAGGAGA
AAAAGGTGGGGTGGAACTCCCAGCCAACACGAGCTGTGATCTTCGAAGACTGTGCTGTCCCTGTGGCCAA
CAGAAATGGGAGCGAGGGGACGGCTTCTCATTGCCGTGAGAGGACTGAACGGAGGGAGGATCAATATT
GCTTCTGCTCCCTGGGGCTGCCACGCCTCTGTCATCTCACCGAGACCACCTCAATGTCCGGAAGC
AGTTTGGAGAGCCTCTGGCCAGTAACAGTACTTGCAATTCACACTGGCTGATATGGCAACAAGGCTGTT
GGCCGCGGGCTGATGGTCCGCAATGCAGCAGTGGCTCTGCAGGAGGAGGAAGGATGCAGTGGCCTTG
TGCTCCATGGCCAAGCTTTGCTACAGATGAATGCTTTGCCATCTGCAACCAGGCTTGCAGATGCACG
GGGGCTACGGCTACCTGAAGATTACGCTGTTCAGCAGTACGTGCGGGACTCCAGGGTCCACCAGATTCT
AGAAGGTAGCAATGAAGTATGAGGATACTGATCTCTAGAAGCCTGCTTCAGGAGTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014384 unedited NGGGTCACCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGAGCTGC GGCGGCTATGCTGTGGAGCGGCTGCCGGCGTTTTCGGGGCGCGCCTCGGCTGCCTGCCCGG CCGTCTCCGGGTCTCGTCCAGACCGGCCACCGGAGCTTGACCTCCTGCATCGACCCCTC CATGGGACTTAATGAAGAGCAGAAAGAATTTCAAAAAGTGGCCTTTGACTTTGCTGCCCC AGAGATGGCTCCAAATATGGCAGAGTGGGACCAGAAGGAGCTGTCCCAGTGGATGTGAT GCGGAAGGCAGCCAGCTAGGCTTCGGAGGGGTCTACATACAAACAGATGTGGCGGGTC TGGGCTGTCACGTCTTGATACCTCTGTCATTTTTGAAGCCTTGGCTACAGGCTGCACCAG CACCACAGCCTATATAAGCATCCACAACATGTGTGCCTGGATGATTGATAGCTTCGGA TGAGGAACAGAGGCACAAATTTTCCCACCGCTCTGTACCATGGAGAAGTTTGCTTCTTA CTGCCTCACTGAACCAGGAAGTGGGAGTGTGCTGCCTCTCTTCTGACCTCCGCTAAGAA ACAGGGAGATCATTACATCCTCAATGGCTCCAAGGCCCTCATCAGTGGTGTGGTGTGATC AGACATCTATGTGGTGTGTCGGAACAGGAGGACCAGGCCCAAGGGCATCTCATGCAT AGTTGTTGAGAAAGGGGACCCTGGCCTCAGCTTTGGCAAGAAGGAGAAAAAGTGGGGTG GAACTCCAGCCACACGAGCTGTGATCTTGAAGACTGTGCTGTCCCTGTGGCCAACAGA ATTNNGAGCGAGGGGCAGGGCTTTCTCATTGCCGTGAGAAGACTGAACGGAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014384 unedited GCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAAAGCCAAATTGGAC GAGAGTTTTATTATCCAAAATCCAGTTAAGTGTTAATCAAATACAATTAACATTTAA AATAAAAATCAACTATAGTAGAACAGAGGTGGTGAAGGATAGATTTTATCAATGTGATT AAAAATATTTAAAAGGAGAACAGCTTCAGAAAAGGAAAACAAAAACAAAAAATATT CAAAGTGTATCAGGAAAAGAAACACTGAATAGCACTCCTAGACCACAGGCTTCTTAAC ATGAAACCAACGAATATTCAAAATTCAAAAGTCTCAGCCCTTGATATTGAGGCAGTCCA GAAGTAGAAATACACCCTAAATCACAGCTTAGGAGTAAGTTTCCAAATATCCATTTTATC ATGATTTACATTCAGAGGTGTGCTATCCAGAGAAACCTTCTGCATCTGTAGCTGTGGCAC AGAGAACGACACAGACAGGAGGGCATTCTCCATTTCCCTTCCACACCTTTGTCTAG AATCAGGAAGAGCATCAGTGAAGTCCCCAGGCCCTAGAGGAGGGATCCAGTGAAGTAG TAAAATGCAGACTAATCAAGATAAAGTGGATCCAAGAAAGGACTTTCATGGTTTGACGGT GAATCTTCACTGGTCACCCTTCTGGCATTAGGAAAACAAGGTAGTATGTGTTCTTCTGAT GTTTCTCATCAGTCCAGCTCTTCCGGTTCAGTGGGATTCTGCCCCAGTCCAAGACCCG ATGCTGGTGCCAAACACACAGGGTGCANGTCTGCCCTANAGGAGCTCACCCCTTGGGTCT AATCATGATTCCTTGGATAGAGCGGNACATGGCACACTCACACTGACTCAGTCGACTGA CACCAGCCAGACAGTGTGGGTCTACTCTGAGCAGCTNTAGAGACAGATCTATACTCATGC TACTTAGATCGGGN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014384
Insert Size:	2340 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_014384.1 , 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]