

Product datasheet for **SC118906**

EHHADH (NM_001966) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHHADH (NM_001966) Human Untagged Clone
Tag:	Tag Free
Symbol:	EHHADH
Synonyms:	ECHD; FRTS3; L-PBE; LBFP; LBP; MFE1; PBFE
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001966 edited
GCGAATTCGGCACGAGACATGGCCGAGTATACGCGGCTGCACAACGCCTTGGCGCTAATC
CGCCTCCGAAACCCGCCGGTCAACGCGATCAGTACGACTTTACTCCGTGACATAAAAGAA
GGACTACAGAAAGCTGTAATAGACCATAACAATAAAAGCCATTGTGATTTGTGGAGCAGAG
GGCAAATTTCTGCAGGTGCTGATATTCGTGGCTTCAGTGCTCCTAGGACATTTGGCCTT
ACACTGGGACATGTAGTAGAATACAGAGAAATGAGAAGCCCGTGGTGGCAGCAATC
CAAGGCATGGCTTTCGGAGGGGGACTAGAGCTGGCCCTGGGCTGTCACTATAGGATTGCC
CACGCAGAGGCTCAAGTTGGCTTACCAGAAGTTACACTGGGACTTCTCCCTGGTGAAGA
GGAACCCAGCTTCTCCCCAGACTCACTGGAGTTCCTGCTGCACTTGACTTAATTACTCA
GGAAGACGTATTTTAGCAGATGAAGCACTCAAGCTGGGCATTCTAGATAAAGTTGTA AAC
TCAGACCCGGTTGAAGAAGCAATCAGATTTGCTCAGAGAGTTTCAGATCAACCTTAGAA
TCCCGTAGACTCTGCAACAAGCCAATTCAGAGCTTGCCCAACATGGACAGCATTTTTAGT
GAGGCCCTCTTGAAGATGCGGAGGCAGCACCTGGGTGCTTGCACAGGAGGCTTGTGTC
CGTGCAGTCCAGGCTGCTGTGCAGTATCCCTATGAAGTGGGCATCAAGAAGGAGGAGGAG
CTTTTTCTATATCTTTTGAATCAGGGCAGGCTAGAGCCCTGCAATATGCTTTCTTCGCT
GAAAGGAAAGCAAATAAGTGGTCAACTCCCTCCGAGCATCGTGGAAAACAGCATCAGCG
CGGCCTGTCTCCTCAGTTGGTGTGTTGGCTTGGGAACAATGGGCCGAGGCATTGTCATT
TCTTTTGAAGGGCCAGGATTTCCTGTGATTGCTGTAGACTCGGACAAAAACCAGCTAGCA
ACTGCAACAAGATGATAACCTCTGTCTTGGAAAAAGAAGCCTCCAAAATGCAACAGAGC
GGCCACCTTGGTCAGGACCAAAACCCAGGTTAACTTCATCTGTGAAGGAGCTTGGTGGT
GTAGATTTAGTCATTGAAGCAGTATTTGAGGAAATGAGCCTGAAGAAGCAGGTCTTTGCT
GAACTCTCAGCTGTGTGCAAAACCAGAAGCATTTTTGTGCACTAATACTTCAGCCCTGGAT
GTTGATGAGATTGCTTCTCCACTGATCGTCTCACTTGGTCATTGGCACCCACTTCTTT
TCGCCAGCTCATGTCATGAAGTTGTTAGAGGTTATTCAGCCAACTACTTCCCCCACT
ACCATTGCCACTGTTATGAACCTATCAAAAAAGATTAAAAAGATTGGAGTCGTTGTAGGC
AACTGTTTTGGATTTGTGGGGAATCGAATGTTGAATCCTTACTACAATCAGGCATATTTT
TTGTTAGAAGAAGGCAGCAAAACCAGAGGAGGTAGATCAGGTGCTGGAAGAGTTTGGTTTT
AAAATGGGACCTTTTAGAGTGTCTGATCTTGTGGGTTGGATGTGGGCTGGAAATCTAGA
AAGGGCAAGGTCTTACTGGACCTACATTGCTTCCAGGAACCTCGCCGAAAAAGGGGT
AATAGGAGGTAAGTCCCTGATGTGCTCTGTGAATTAGGACGATTTGGCCAGAAG
ACAGGTAAGGTTGGTATCAATATGACAAGCCATTGGGTAGGATTCACAAACCTGATCCC
TGCTTTCCAAATTCCTATCACGGTATAGAAAAACCCATCACATTGAACCACGTACCATT
AGCCAGGATGAGATCCTTGAACGCTGCTTATATCACTTATCAATGAAGCATTCCGTATC
TTGGGAGAAGGGATAGCTGCTAGCCAGAGCACATTGATGTTGTCTATTTACATGGATAT
GGATGGCCAAGGCACAAGGGCGGGCCCATGTTCTATGCTTCCACAGTTGGGTTGCCACAC
GTTCTAGAGAAATTCAGAAATATTACAGGCAGAACCCCTGATATCCCCAACTGGAGCCA
AGTGACTATCTAAAAAACTGGCTTCTCAGGGAAACCCCTCCCCTGAAAGAATGGCAAAGC
TTGGCAGGCTCCCTAGCAGTAAATTGTGATTCACTTCCAGATTATGCCTCACATGCT
AGCATCAGGTAATGTGACTGAATTTCACTGAAATTAATCAAAAAATCCAAAGTAAGATT
GTTCTGAAATACAAAGCAAAATAAATAATCATTAGAATCTTCTGTGTAACGACTTAATG
GTCAAAATCTTTAGGAATGTGCTTCTATGCCTCTGAATCTGCTTATCAGATAAATTC
ATGCATGAACTTGTGTAATATAATACCATAATAGCTAATGAAAGAGGCTCAAGCATAAG
TTGAGATTCTCAAATGCTTTTATCATTGGATAAATGTGTCATCAATTAATAAATGATAAA
TGCAGCTAAGT
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001966 unedited AGCTCGNGATTTNGTAAACGCACCTTCATATAGGGCGGACAAGCCATTCGGCACGAGAACA TGGCCGAGTATACGCGGCTGCACAACGCCTTGGCGCTAATCCGCCTCCGAAACCCGCCGG TCAACGCGATCAGTACGACTTTACTCCGTGACATAAAAAGAAGGACTACAGAAAGCTGTAA TAGACCATACAATAAAAGCCATTGTGATTTGTGGAGCATTTTTAAATTTTCTGCAGGTG CTGATATTCGTGGCTTCAGTGCCTCCTAGGACATTTGGCCTTACACTGGGACATGTAGTAG ATGAAATACAGAGAAATGAGAAGCCCGTGGTGGCAGCAATCCAAGGCATGGCTTTCCGGAG GGGGACTAGAGCTGGCCCTGGGCTGTCACTATAGGATTGCCACGCAGAGGCTCAAGTTG GCTTACCAGAAGTTACACTGGGACTTCTCCCTGGTGAAGAGGAACCCAGCTTCTCCCA GACTCACTGGAGTTCTGCTGCACCTTGACTTAATTACCTCAGGAAGACGTATTTTAGCAG ATGAAGCACTCAAGCTGGGCATTCTAGATAAAGTTGTAAACTCAGACCCGGTTGAAGAAG CAATCAGATTTGCTCAGAGAGTTTCAGATCAACCTCTAGAATCCCGTAGACTCTGCAACA AGCCAATTCAGAGCTTGCCCAACATGGACAGCATTTTTAGTGAGGCCCTCTTGAAGATGC GGAGGCAGCACCTGNGTGTCTTGCACAGGAGGCTTGTGTCCGTGCAGTCCAGGCTGCTG TGCAGTATCCCTATGAAGTGGGCATNCAGAANGGAGAGGAGCTGTTTCTATATCTTTTGC AATCAGGGCAGGCTAGAGCCCTGCCATATGCTTTTCTTCGCTGAAAAGGAAAGCAAAATAG TGGTCAACTTCTCCGGAGCATCGTGAA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001966 unedited TCCCCNNCCAAAATTTTNCCTNNNGCCCTCCCNCCCCGGACTCTAGCCCGNGGCCCC CCATNCTACATNCGGTTTTTTTTTTTTTTTTTTTTTTTACTACTTTCCAGCAATCATTTTTAT TGATGTCTTTAATTTACAAACCAAATTATATAAAATTAAGTAGTACACATTTCAAACAT AATAATGTGCTCTGTACAATCAAGGCACACTCGGATTCCTCGTTGGTTTTTGCCTG CTTTTTAACAAACGGTAAACTTATACTCCCATTCACAGATTCTTCCCATCACGAACCTTA ATCATTCTATTCCGGCCTCACACGGTGAATACATTTCGCGAAAGCTCATTTACACCACAA TGAAGGATACCATCTTCAGACTTATTTATTCACATAACAACTTTATTGACATATATTTTAC ATACCCTATCATTACCCACTTAAAATACTTTCCCTCTATGCCCTTTAACATATTGCCACG CGACTACCACCACACTCCCTTTATACCATTCCCCCGACCATAAATAAATCTTGCCCTA CAGATGAATTTCCCCCCCCCTTCATCCCTCCCAATTTTTCCCCCACCACCCCATGC CCCGTAAGTTTCCCTGACTTCACCGCCTTCCCCTTTGTTCCCCCTCCTCCACCCAATCCA CTGCCCTCACCTACTCTCCCTCCCTCATACTTCCCCCCCCCCCCCCCCCTTCTCTCC ACCCCTTGTCTTCTCCCTTCTTCTCCCCCCTCTCTTCTCCTCCTCCTCCGCTACCCCAA CTCTTCCACCCCCCCCGTTTCCAAAACCAATTTTACCCCTCACCACCTTCCGCCCC CCCTCCCTCTTAGTCCCTAACACCTATTCTCCCCCTCCTCCACCCGATTTAAATTATT ATTCGCCCCCACCACCATTTTTCTCCTTACCCCACTTAACAACAATCTCACA CATTTCTCACC
Restriction Sites:	NotI-NotI
ACCN:	NM_001966
Insert Size:	3520 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).
RefSeq:	NM_001966.2 , NP_001957.2
RefSeq Size:	3821 bp
RefSeq ORF:	2172 bp
Locus ID:	1962

UniProt ID:	<u>Q08426</u>
Domains:	ECH, 3HCDH, 3HCDH_N
Protein Pathways:	beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation
Gene Summary:	<p>The protein encoded by this gene is a bifunctional enzyme and is one of the four enzymes of the peroxisomal beta-oxidation pathway. The N-terminal region of the encoded protein contains enoyl-CoA hydratase activity while the C-terminal region contains 3-hydroxyacyl-CoA dehydrogenase activity. Defects in this gene are a cause of peroxisomal disorders such as Zellweger syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>