

Product datasheet for **SC320121**

HADHB (NM_000183) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HADHB (NM_000183) Human Untagged Clone
Tag:	Tag Free
Symbol:	HADHB
Synonyms:	ECHB; MSTP029; MTPB; TP-BETA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000183.2
 CCCTTGGTCCCGCAGAGCCTTGGTACTTGGACCTGAACCTTGCTCCGAGAGGGAGTCCTC
 GCGGACGTGAGCCAAAGATTCCAGAATGACTACTATCTTGACTTACCCCTTTAAAAATCTT
 CCCACTGCATCAAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCTCCCAG
 CTACGAGCTGCCCCAGCTGTCCAGACAAAACGAAGAAGACGTTAGCCAAACCAATATA
 AGGAATGTTGGTGGTGGATGGTGTTCGCACTCCATTTTTGCTGTCTGGCACTTCATAT
 AAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTACGGGTTTGTTCATCGGACC
 AGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGTGAAA
 ACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGCT
 CACACTGTACCATTGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTG
 ATTGCTTCTGGCCAGTGTGATGTGATCGTGGCAGGTGGTGTGAGTTGATGTCCGATGTC
 CCTATTCGCTCAAGGAAAATGAGAAAATGATGCTTGTCTCAATAAGGCCAAATCT
 ATGGGCCAGCGACTGTCTTAATCTCTAAATCCGATTTAATTTCTAGCACCTGAGCTC
 CCTGCGGTTTCTGAGTTCTCCACCAGTGTGAGACCATGGGCCACTCTGCAGACCGACTGGCC
 GCTGCCTTTGCTGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTCACAGTCTA
 GCCAAGAAGGCACAGGATGAAGGACTCCTTTCTGATGTGGTACCCTTCAAAGTACCAGGA
 AAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCTCACTGGAGCAGATGGCCAAA
 CTAAAACCTGCATTTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATCTTCTTTCTTG
 ACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTAT
 AAGCCGAAGGCATATTTGAGGGATTTTATGTATGTGTCTCAGGATCCAAAAGATCAACTA
 TTACTTGGACCAACATATGCTACTCCAAAAGTTCTAGAAAAGGCAGGATTGACCATGAAT
 GATATTGATGCTTTTGAATTTTCATGAAGCTTTCTCGGGTACAGATTTTGGCAAATTTTAAA
 GCCATGGATTCTGATTGGTTTGCAGAAAATACATGGGTAGAAAACCAAGGTTGGATTG
 CCTCCTTTGGAGAAGTTTAATAACTGGGGTGGATCTGTCCCTGGGACACCCATTTGGA
 GCCACTGGCTGCAGGTTGGTCATGGCTGCTGCCAACAGATTACGAAAAGAAGGAGGCCAG
 TATGGCTTAGTGGCTGCGTGTGCAGCTGGAGGGCAGGGCCATGCTATGATAGTGAAGCT
 TATCCAAAATAATAGATCCAGAAGAAGTACCTGAAGTTTCTGTGCAACACTCACACTAG
 GCAATGCCATTTCAATGCATTAATAATGACATTTGTAGTTTCTAGCTCCTTTAGGAAA
 ACAGTTCTTGGGCCCTTCTATTAATACTTTGCACTTAAGCCTTGCCAGTGTCTGAGCT
 TTTCAATAATCAGTTTACTGCTTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGAG
 ATGTGTGGTGGTGTGTTTTGGTCTCTGTTGCTACTAAAGACTAAATGAGGGTTTGCAGT
 TGGGAAAGAGGTCAACTGAGATTTGGAAATCATCTTTGTAATATTGCAAATTATACTTG
 TTCTTATCTGTGCCTAAAGATGTGTTCTCTATAAAAATACAAACCAACGTCCTAATTA
 TTATGGAAAAATAATTCAGAATCTAAACACCACTGAAAACCTATAAAAAATGTTTAGATA
 CATAAATATGGTGGTCAGCGTTAATAAAGTGGAGAAATATTGGAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000183

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000183.2 , NP_000174.1
RefSeq Size:	2196 bp
RefSeq ORF:	1425 bp
Locus ID:	3032
UniProt ID:	P55084
Cytogenetics:	2p23.3
Domains:	thiolase
Protein Pathways:	Fatty acid elongation in mitochondria, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation
Gene Summary:	<p>This gene encodes the beta subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the beta subunit catalyzing the 3-ketoacyl-CoA thiolase activity. The encoded protein can also bind RNA and decreases the stability of some mRNAs. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. Mutations in this gene result in trifunctional protein deficiency. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest protein (isoform 1).</p>