

Product datasheet for **RC238305**

HADHB (NM_001281513) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HADHB (NM_001281513) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HADHB
Synonyms:	ECHB; MSTP029; MTPB; TP-BETA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238305 representing NM_001281513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACTGGTTTCTGGTTGGCTCCTATATGGATGGATCATTGCTGTCCAGACAAAACGAAGAAGACGT
 TAGCCAAACCCAATATAAGGAATGTTGGTGGTGGATGGTGTTCGCACTCCATTTTTGCTGTCTGGCAC
 TTCATATAAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTACGGGTTTGTTCATCGGACCAGT
 GTCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGTAAAAACAAGCAATGTGG
 CTAGAGAGGCTGCCCTTGGAGCTGGCTTCTGACAAGACTCCTGCTCACACTGTCACCATTGGCTTGAT
 CTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGCCAGTGTGATGTGATCGTGGCA
 GGTGGTGTGAGTTGATGTCGATGTCCCTATTCGTCCTCAAGGAAAATGAGAAAAGTATGCTTGTGATC
 TCAATAAGGCCAAATCTATGGGCCAGCGACTGTCTTAACTCTAAATTCGATTTAATTTCTAGCACC
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 AGGATGAAGGACTCCTTTCTGATGTGGTACCCTTCAAAGTACCAGGAAAAGATACAGTTACCAAAGATAA
 TGGCATCCGCTCCTTCTCACTGGAGCAGATGGCCAACTAAAACCTGCATTATCAAGCCCTACGGCACA
 GTGACAGCTGCAAATCTTCTTTCTTACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGG
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 ATGGGTTGGATCTCTGCTCCCTGGGACACCATTTGGAGCCACTGGCTGCAGGTTGGTTCATGGCTGCTGCC
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 CTATGATAGTGAAGCTTATCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238305 representing NM_001281513
 Red=Cloning site Green=Tags(s)

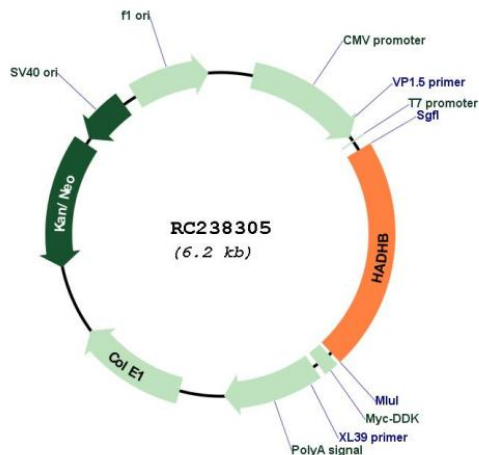
MTLVSGWLLYGWIIAVQTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLMPHDLARAALTGLLHRTS
 VPKEVVDYIIFGTVIQEVKTSNVAREALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVA
 GGVELMSDVPPIRHSRKMRLMLDLNKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLPKAFIKPYGT
 VTAANSSFLTDGASAMLMAEEKALAMGYKPKAYLRDFMYVSQDPKQQLLLGPTYATPKVLEKAGLTMND
 IDAFEFHEAFSGQILANFKAMDSDFEAENYMRKTKVGLPPELFFNNWGGSLSLGHFPFGATGCRLVMAAA
 NRLRKEGGQYGLVAACAAGGQGHAMIVEAYPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001281513

ORF Size: 1356 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:	<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_001281513.2
RefSeq Size:	2279 bp
RefSeq ORF:	1359 bp
Locus ID:	3032
UniProt ID:	P55084
Cytogenetics:	2p23.3
Protein Pathways:	Fatty acid elongation in mitochondria, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation
MW:	49.3 kDa
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>