

Product datasheet for **MC227885**

Hadhb (NM_001289799) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hadhb (NM_001289799) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hadhb
Synonyms:	4930479F15Rik; Mtpb; TP-beta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227885 representing NM_001289799
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTACCATCTTGACTTCCACTTTTAGAACTTGCAACTACATCAAATGGGCTCTCAGATCTTCTA
 TAAGACCTCTGAGCTGTTCTTCCAACTGCACTCTGCCAGCTGTCCAGACCAAGTCAAAGAAGACTTT
 AGCAAAACCCAATATGAAGAATATTGTGGTGGTGAAGGGTCCGCATTCATTCTGCTGTCAGGCACT
 TCGTATAAAGACCTAATGCCACATGACTTGGCTAGAGCTGCATTTCCGGTTTGTGTCATCGGACCAATA
 TTCCAAAGGATGTTGTTGATTATATCATCTTGGTACAGTTATTCAGGAAGTAAAAACAAGCAATGTGGC
 TAGAGAGGCTGCCCTGGGAGCTGGCTTCTCTGATAAGACTCCAGCTCACACTGTCACCATGGCTTGATC
 TCTTCAAACCAAGCCATGACCACAGCTGTTGGTCTGATAGCTTCTGGCCAGTGTGATGTCGTCGTGGCTG
 GTGGTGTGAGTTAATGTCTGATGTCCCTATTCGTCATTCAAGAAATATGAGGAAATGATGCTTGATCT
 CAATAAGCCAAGACTCTGGGCCAGCGCTGCTTACTCAGTAAATTCAGATTGAATTTCTGTCCCCT
 GAGCTCCCTGCAGTGGCTGAGTTCTCCACTAATGAGACCATGGGCCACTCTGCAGACCGACTGGCTGCTG
 CCTTGTCTGTTTCTGAATGGAACAGGATGAATATGCACTGCGTTCTCATAGTCTGGCCAAGAAGGCACA
 GGATGAAGGACACCTTTCTGATATTGTACCCTTCAAAGTACCAGGAAAGGACACAGTTACCAAAGATAAT
 GGGATCCGTCCTTCTCACTGGAGCAAATGGCCAACTAAAACCTGCGTTCATCAAACCCTATGGCACAG
 TGACAGCTGCAAATCTTCTTCTGACTGATGGCGCTTCTGCGATGCTAATCATGTGTCAGAGGACAGAGC
 TCTGGCCATGGTTATAAACCAAAGGCATATTTGAGGGATTTTATATGTGTCCAGGATCCGAAAGAT
 CAGCTTTTACTCGGACCAACATATGCTACTCCAAAAGTTTTAGAAAAGGCAGGGTTAACCATGAATGATA
 TCGATGCTTTTGAATTTTCAAGCCTTCTCAGGCCAGATTTTAGCTAACTTTAAAGCAATGGATTCTGA
 TTGGTTTGCACAAAACACTACATGGGTAGGAAAACCAAGTTGGATCACCTCCTCTGGAGAAGTTAATATC
 TGGGGCGGATCACTGTCTCTGGGCACCCTTTTGGAGCCACTGGCTGTCGGCTGGTCATGGCAGCTGCCA
 ACAGACTGAGGAAGGATGGAGGCCAGTATGCTTTAGTGGCTGCCTGTGCAGCTGGAGGACAGGGTCATGC
 TATGATTGTGGAAGCTTACCCAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001289799
- Insert Size:** 1428 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:

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_001289799.1](#), [NP_001276728.1](#)

RefSeq Size: 2088 bp

RefSeq ORF: 1428 bp

Locus ID: 231086

UniProt ID: [Q99JY0](#)

Cytogenetics: 5 B1

Gene Summary: Mitochondrial trifunctional enzyme catalyzes the last three of the four reactions of the mitochondrial beta-oxidation pathway. The mitochondrial beta-oxidation pathway is the major energy-producing process in tissues and is performed through four consecutive reactions breaking down fatty acids into acetyl-CoA. Among the enzymes involved in this pathway, the trifunctional enzyme exhibits specificity for long-chain fatty acids. Mitochondrial trifunctional enzyme is a heterotetrameric complex composed of two proteins, the trifunctional enzyme subunit alpha/HADHA carries the 2,3-enoyl-CoA hydratase and the 3-hydroxyacyl-CoA dehydrogenase activities, while the trifunctional enzyme subunit beta/HADHB described here bears the 3-ketoacyl-CoA thiolase activity.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein.