**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC216562

## Hadhb (NM_145558) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Hadhb (NM_145558) 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:**

>MC216562 representing NM_145558
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTACCATCTTGACTTCCACTTTTAGAAACTTGTCAACTACATCAAAATGGGCTCTCAGATCTTCTA
TAAGACCTCTGAGCTGTTCTTCCCAACTGCACTCTGCCCCAGCTGTCCAGACCAAGTCAAAGAAGACTTT
AGCAAAACCCAATATGAAGAATATTGTGGTGGTGGAAGGGGTCCGCATTCCATTTCTGCTGTCAGGCACT
TCGTATAAAGACCTAATGCCACATGACTTGGCTAGAGCTGCACTTTCGGGTTTGTTGCATCGGACCAATA
TTCCAAAGGATGTTGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGTGAAAACAAGCAATGTGGC
TAGAGAGGCTGCCCTGGGAGCTGGCTTCTCTGATAAGACTCCAGCTCACACTGTCACCATGGCTTGTATC
TCTTCAAACCAAGCCATGACCACAGCTGTTGGTCTGATAGCTTCTGGCCAGTGTGATGTCGTCGTGGCTG
GTGGTGTTGAGTTAATGTCTGATGTCCCTATTCGTCATTCAAGAAATATGAGGAAAATGATGCTTGATCT
CAATAAAGCCAAGACTCTGGGCCAGCGCCTGTCCTTACTCAGTAAATTCAGATTGAATTTTCTGTCCCCT
GAGCTCCCTGCAGTGGCTGAGTTCTCCACTAATGAGACCATGGGCCACTCTGCAGACCGACTGGCTGCTG
CCTTTGCTGTTTCTCGAATGGAACAGGATGAATATGCACTGCGTTCTCATAGTCTGGCCAAGAAGGCACA
GGATGAAGGACACCTTTCTGATATTGTACCCTTCAAAGTACCAGGAAAGGACACAGTTACCAAAGATAAT
GGGATCCGTCCTTCCTCACTGGAGCAAATGGCCAAACTAAAACCTGCGTTCATCAAACCCTATGGCACAG
TGACAGCTGCAAATTCTTCTTTCCTGACTGATGGCGCTTCTGCGATGCTAATCATGTCAGAGGACAGAGC
TCTGGCCATGGGTTATAAACCAAAGGCATATTTGAGGGATTTTATATATGTGTCCCAGGATCCGAAAGAT
CAGCTTTTACTCGGACCAACATATGCTACTCCAAAAGTTTTAGAAAAGGCAGGGTTAACCATGAATGATA
TCGATGCTTTTGAATTTCATGAAGCCTTCTCAGGCCAGATTTTAGCTAACTTTAAAGCCATGGATTCTGA
TTGGTTTGCACAAAACTACATGGGTAGGAAAACCAAGGTTGGATCACCTCCTCTGGAGAAGTTTAATATC
TGGGGCGGATCACTGTCTCTGGGGCACCCTTTTGGAGCCACTGGCTGTCGGCTGGTCATGGCAGCTGCCA
ACAGACTGAGGAAGGATGGAGGCCAGTATGCTTTAGTGGCTGCCTGTGCAGCTGGAGGACAGGGTCATGC
TATGATTGTGGAAGCTTACCCCAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_145558

**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).

**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.

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| **RefSeq:** | NM_145558.2, NP_663533.1 |
| **RefSeq Size:** | 2045 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]<br>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein. |