

Product datasheet for **RC210625**

MDH1B (NM_001039845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDH1B (NM_001039845) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MDH1B
Synonyms:	RP11-95H11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC210625 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAATTCGTCATCGCGGGTAGAGCAGATTGTCCATATTATGCTAAAACAGAACTGTGGCAGACT
 ATTTACAAAAGAATCTTCTGATTTTCGGATACATAAAATCACACAACGTCCTGAGGTTTGGGAGGATTG
 GCTAAAAGATGTGTGTGAAAAGAATAAGTGGAGTCACAAGAATCCCCTATCATCTGGAGAGAGCTGTTG
 GATCGTGGAGGAAAGGGTTTGCTTTTGGGAGGATATAATGAGTTCCTGGAGCATGCTCAGCTTTACTATG
 ATGTCACCTCTAGCATGACGACTGAAGTATGATGGTAATTGCTCAAGAGAACCTGGGGGCACATATAGA
 AAAAGAGCAGGAGGAAGAAGCCCTGAAACTTGCATCAACCCCTTGCAAGTCTGGATCACCAGTGCCTCT
 GCTCTGCCTGCTACAACCTAATTCCCATTGACGAGTGGCGAAGTGTTGGGATGCATACAGAAATTA
 GCATAACTCTATTTGACAACAAGCAGGCGGAAGAATCTCAAAAGCCTTGTTGGTGGAGACCCAAGACCT
 GGCATCTCCCGTCTGCGCAGTGTCTCCATCTGCACGAAGGTGGAGGAGGCTTCCGCCAGGCCACGTC
 ATTGTGGTGTGGATGACAGCACCAACAAGGAGGTGTTCACTCTGGAGGACTGCCTCCGAAGCAGGGTGC
 CTCTCTGCAGGCTCTATGGGTACCTGATAGAGAAAAATGCTCATGAGTCTGTGAGTCTATCGTGGGAGG
 GAGAACCTTTGTAACCTGAAGACAGTTTACTCATGAGATATGCCCCACGCATTGCACACAACATTATT
 GCTGTGGCGCTGGGGGTGAAGGTGAAGCGAAAGCCATACTGGCCAGAAAAGTGAAGACAGCTCCTTCAT
 ACATTAAGACGTGATCATTGGGGTAATATCAGTGGAAATAATTACGTTGATCTGAGAAAAACAAGGT
 GTACAGATATGAGAGTGCCATTTGGGGACCTCTCATTATTCACGCCCTGTTTTAACTTGATTTTGGAC
 AGTGAGTGGGTAAAAAGAGAATTTGTGGCAATCTTAAAACTTGACCACCACAGGAAGACAATTTGGAG
 GCATTTTGGCTGCACACAGTATAGCCACTACACTGAAATACTGGTACCATGGCTCACCACCTGGGGAGAT
 TGTATCTTTAGGAATATTGAGTGAAGGCCAGTTTGGTATTCGAAAGGGATCGTCTTTCTATGCCTGTG
 AAATTTGAGAATGGAAGTGGTGGTCTTACAGATCTCAAAGATGTTGAAATAAGTGAACAAATATGA
 CCCGAATGACAAGTGATCTAATTCAGGAGAACTGTTGCACTTGGAGACAAGATACATTTTCAGCCATA
 CCAATCAGGACATAAAGATCTGGTCCCTGATGAAGAAAAAATCTAGCTATGTCAGATGCAGCAGAGTTT
 CCAATCAGATTCTCAAACCACCTTTGAAAAGCCACAGAGTCTTGAGTCTCTAAATGAATTTGAAGGCA
 AAACCGTGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210625 protein sequence
 Red=Cloning site Green=Tags(s)

MAKFVIAGRADCPYYAKTEL VADYLQKNLPDFRIHKITQRPEVWEDWLKD VCEKNKWSHKNSPIIWRELL
 DRGGKGLLLGGYNEFLEHAQLYYDVTSSMTTELMVIAQENLGAHIEKEQEEELKTCINPLQVWITSAS
 APACYNLIPILTSGEVFGMHTEISITLFDNKQAEHLKSLVVETQDLASPVLRVSICTKVEEAFRQAHV
 IVVLDSTNKEVFTLEDCLRSRVPLCRLYGYLIEKNAHESVRVIVGGRTFVNLKTVLLMRYAPRIAHNII
 AVALGVEGEAKAILARKLKTAPSYIKDVIWGNISGNNYDLRKTRVYRYESA IWGPLHYSRPVLNLIFD
 SEWVKREFVAILKNLTTTGRQFGGILAAHSIATTLKYWYHGSPPGEIVSLGILSEGQFGIPKGIVFSMPV
 KFENGTWVVLTDLKDVEISEQIMTRMTSDLIQEKLVALGDKIHFPYQSGHKDLVPDEEKNLAMSDAAEF
 PNQIPQTTFEKPQSLEFLNEFEGKTVES

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6586_d09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001039845

ORF Size: 1554 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001039845.3](#)

RefSeq Size: 2564 bp

RefSeq ORF: 1557 bp

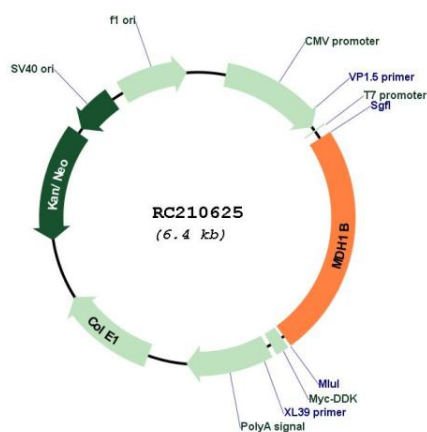
Locus ID: 130752

UniProt ID: [Q5I0G3](#)

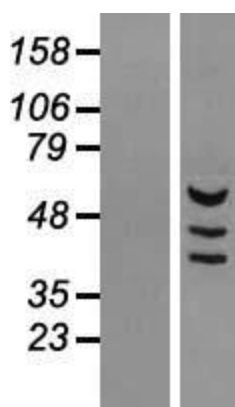
Cytogenetics: 2q33.3

MW: 58.7 kDa

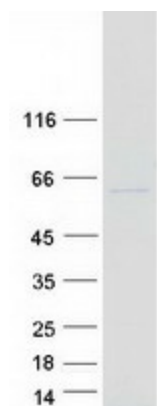
Product images:



Circular map for RC210625



Western blot validation of overexpression lysate (Cat# [LY421838]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210625 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MDH1B protein (Cat# [TP310625]). The protein was produced from HEK293T cells transfected with MDH1B cDNA clone (Cat# RC210625) using MegaTran 2.0 (Cat# [TT210002]).