

Product datasheet for **RG210625**

MDH1B (NM_001039845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDH1B (NM_001039845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MDH1B
Synonyms:	RP11-95H11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210625 representing NM_001039845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAATTCGTCATCGCGGTAGAGCAGATTGTCCATATTATGCTAAACAGAACTTGTCGAGACT
 ATTTACAAAAGAATCTTCTGATTTTCGGATACATAAAATCACACAACGTCCTGAGGTTTGGGAGGATTG
 GCTAAAGATGTGTGTGAAAAGAATAAGTGGAGTCACAAGAATCCCCTATCATCTGGAGAGAGCTGTTG
 GATCGTGGAGGAAAGGTTTGTCTTTGGGAGGATATAATGAGTTCCTGGAGCATGCTCAGCTTTACTATG
 ATGTCACCTCTAGCATGACGACTGAAGTATGATGGTAATTGCTCAAGAGAACCTGGGGGCACATATAGA
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 GCTCCTGCCTGTACAACCTAATCCCATTGACGAGTGGCGAAGTGTGTTGGGATGCATACAGAAATTA
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 GGCATCTCCCGTCTGCGCAGTGTCTCCATCTGCACGAAGGTGGAGGAGCCTTCCGCCAGGCCACGTC
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 CCCGAATGACAAGTGATCTAATTCAGGAGAACTGTTGCACTTGGAGACAAGATACATTTTCAGCCATA
 CCAATCAGGACATAAAGATCTGGTCCCTGATGAAGAAAAAATCTAGCTATGTCAGATGCAGCAGAGTTT
 CCAATCAGATTCCTCAAACCACCTTTGAAAAGCCACAGAGTCTTGAGTTCCTAAATGAATTTGAAGGCA
 AAACCGTGAATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210625 representing NM_001039845
 Red=Cloning site Green=Tags(s)

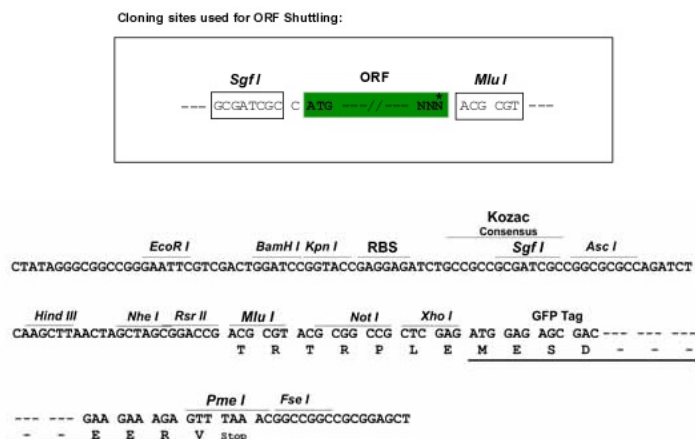
MAKFVIAGRADCPYYAKTELVDYLQKNLPDFRIHKITQRPEVWEDWLKDVCEKNKWSHKNSPIIWRELL
 DRGGKGLLLGGYNEFLEHAQLYYDVTSSMTTELMVIAQENLGAHIEKEQEEELKTCINPLQVWITSAS
 APACYNLIPILTSGEVFGMHTEISITLFDNKQAEHLKSLVVETQDLASPLRSVSICTKVEEAFRQAHV
 IVVLDSTNKEVFTLEDCLRSRVPLCRLYGYLIEKNAHESVRVIVGGRTFVNLKTVLLMRYAPRIAHNII
 AVALGVEGEAKAILARKLKTAPSYIKDVIWGNISGNNYVDLRKTRVYRYESAIIWGPHYSRPVNLNIFD
 SEWVKREFVAILKNLTTGRQFGGILAAHSIATTLKYWYHGSPPEIVSLGILSEGQFGIPKGIVFSMPV
 KFENGTVVVLTDLDVEISEQIMTRMTSDLIQEKLVALGDKIHFPYQSGHKDLVPDEEKNLAMSDAEF
 PNQIPQTTFEKPQSLEFLNEFEGKTVES

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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: 2332 bp

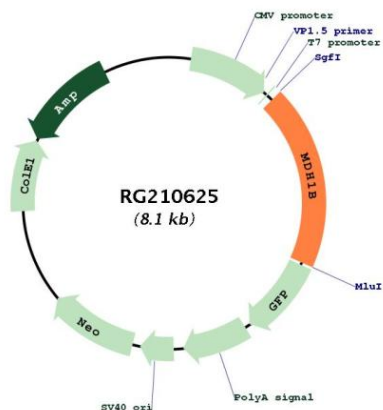
RefSeq ORF: 1557 bp

Locus ID: 130752

UniProt ID: Q5I0G3

Cytogenetics: 2q33.3

Product images:



Circular map for RG210625