

Product datasheet for **MG204102**

Mmadhc (NM_133839) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmadhc (NM_133839) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmadhc
Synonyms:	2010311D03Rik; AI314967; CbID
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204102 representing NM_133839 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCCATGTGCTCTGTAAACAGAGCCAGACTGGTTTCCTATCTCCAGGATTTTGTCTTTAGTGAAAA
 GAGTCATCAATCCAAGAGCCTTTTCACTGCAGGATCTTCAGGTTCTGATGAGTCTCATGTGGCCACCGC
 ACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAACTATGGGACCCTTTGGACCTCAGGACCAG
 AGATTCCAGCTTCTGGGAATATAGGCTTCGATTGTCACCTCAATGGGACTGCCTCACAGAAGAAAAGCC
 AGGCCCATAAACTTTGCCTGATGTTCTAGCAGAGCCTTTTCACTGAAAGACACGAGTTTGTGATGGC
 GCAGTATGTAAATGAGTTTCAGGATAGTGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAACTTAC
 TTTGAAAGTGCCAAAGTTGAGTGTGCGATCCAGACATGTCCAGAGCTGCTGCGGAGAGATTTTGAGTCAC
 TTTTCCAGAAGTGGCTAATAGCAAACTAATGATCCTGACTGTAACCCAGAAAAGTGAAGTGCATGAC
 TGTCTGGAGTGAAGAGGTGGAGTTGAGAGAGAGGTGCTCTTGGAAAAGTTCATCAGTGGTGCTAAGGAG
 ATCTGCTATGCCCTTCGGGCTGAAGGATATTGGGCTGACTTCATTGACCCATCATCTGGTGTGGCATT
 TTGGACCATATACCAACAACACACTTTTGAACAGATGAACGGTACCGGCATTTAGGATTCTCAGTTGA
 CGACCTTGGCTGCTGTAAAGTGATCCGTACAGTCTCTGGGTACTCATGTGTTGTAGGAAGTATCTTC
 ACTAACGCAACAGCAGACAGCAGTATCATGAGGAAGCTCAGTGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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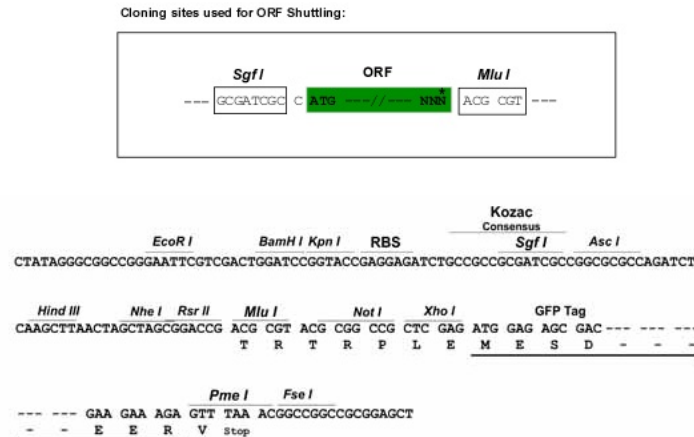
Protein Sequence: >MG204102 representing NM_133839
 Red=Cloning site Green=Tags(s)

MAHVLNCRARLVSYLPGFCSLVKRVINPRAFSTAGSSGSDSHVATAPPDICSRTVWPDETMGPFQPDQ
 RFQLPGNIGFDCHLNGTASQKKSQAHKTLDPDLAEPLSTERHEFVMAQYVNEFQSDAPVEQEINSAETY
 FESAKVECAIQTCPELLRRDFESLFPEVANSKLMILTVTQKTENDMTVWSEEEVEREVLLKFIISGAKE
 ICYALRAEGYWADFIDPSSGVAFFGPYTNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIF
 TNATADSSIMRKLSGN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133839

ORF Size: 888 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_133839.1](#)

RefSeq Size: 1302 bp

RefSeq ORF: 891 bp

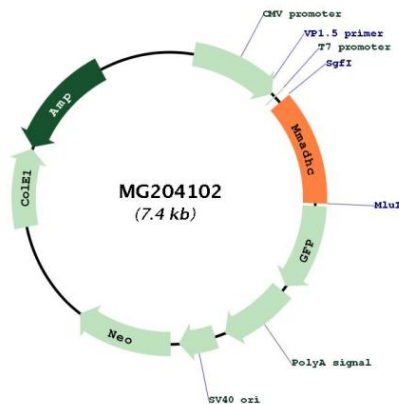
Locus ID: 109129

UniProt ID: [Q99LS1](#)

Cytogenetics: 2 C1.1

Gene Summary: Involved in cobalamin metabolism. Plays a role in regulating the biosynthesis of two coenzymes, methylcobalamin and adenosylcobalamin. Plays a role in regulating the proportion of methylcobalamin and adenosylcobalamin. Promotes oxidation of cob(II)alamin bound to MMACHC.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204102