

Product datasheet for **RG223846**

MMACHC (NM_015506) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMACHC (NM_015506) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMACHC
Synonyms:	cbIC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223846 representing NM_015506 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGAAAGTCGCAGAGCTGAAGCAGAAGATCGAGGACACGCTATGTCCTTTGGCTTCGAGGTTT
ACCCCTCCAGGTGGCATGGTACAATGAACTCTTGCTCCAGCCTCCACCTACCGCTGCCAGGACCTAC
CCTGGCCTCCTGGTACTCAGCACGCCTGCCATGTTTGACCGGGCCCTCAAGCCCTTCTGCAGAGCTGC
CACCTCCGAATGCTGACTGACCCAGTGGACCAGTGTGTGGCTACCATCTGGGCCGTGTTAGAGAGAGCC
TCCCAGAGCTGCAGATAGAAATCATTGCTGACTACGAGGTGCACCCCAACCGACGCCCAAGATCCTGGC
CCAGACAGCAGCCATGTAGCTGGGGCTGCTTACTACTACCAACGACAAGATGTGGAGGCTGACCCATGG
GGGAACCGCGCATATCAGGTGTGTGCATACACCCCGATTTGGGGCTGGTTTGCCATCCGAGGGGTAG
TGCTGCTGCCAGGGATAGAGGTGCCAGATCTGCCACCCAGAAAACCTCATGACTGTGTACCTACAAGAGC
TGACCGTATCGCCCTACTCGAAGGCTTCAATTTCCACTGGCGTGATTGGACTTACCGGGATGCTGTGACA
CCCCAGGAGCGCTACTCAGAAGAGCAGAAGGCCTACTTCTCCACTCCACCTGCCAACGATTGGCCCTAT
TGGGCTTGGCTCAGCCCTCAGAGAAGCCTAGTTCTCCCTCCCGGACCTTCCCTTACCACACCCGCCCC
CAAGAAGCCTGGGAATCCAGCAGAGCCCGGAGCTGGCTCAGCCCCAGGGTCTCACCACCTGCATCCCT
GGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223846 representing NM_015506
Red=Cloning site Green=Tags(s)

MEPKVAELKQKIEDTLCPFGFEVYPPFQVAWYNELLPAPFHLPLPGPTLAFVLVSTPAMFDRALKPFLQSC
 HLRMLTDPVDQCVAYHLGRVRESLPELQIEIIADYEVHPNRRPKILAQTAHVAGAAAYYQRQDVEADPW
 GNQRIISGVCIHPRFGGWF AIRGVLLPGIEVPLPPRKP HDCVPTRADRIALLEGFNHWRDWTYRDAVT
 PQERYSEEQKAYFSTPPAQRLLALLGLAQPSEKPPSSPDLPFTTPAPKKPGNPSRARSWLSPRVSPASP
 GP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015506

ORF Size: 846 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.

RefSeq: [NM_015506.3](#)

RefSeq Size: 2247 bp

RefSeq ORF: 849 bp

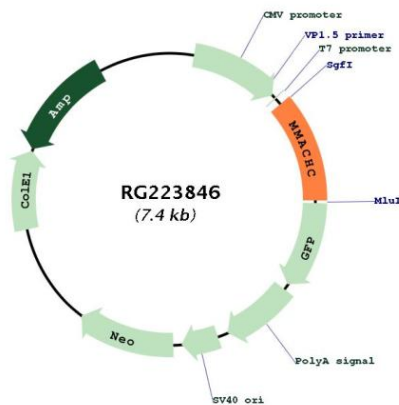
Locus ID: 25974

UniProt ID: [Q9Y4U1](#)

Cytogenetics: 1p34.1

Gene Summary: The exact function of the protein encoded by this gene is not known, however, its C-terminal region shows similarity to TonB, a bacterial protein involved in energy transduction for cobalamin (vitamin B12) uptake. Hence, it is postulated that this protein may have a role in the binding and intracellular trafficking of cobalamin. Mutations in this gene are associated with methylmalonic aciduria and homocystinuria type cblC. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG223846