

Product datasheet for RC223846

MMACHC (NM_015506) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

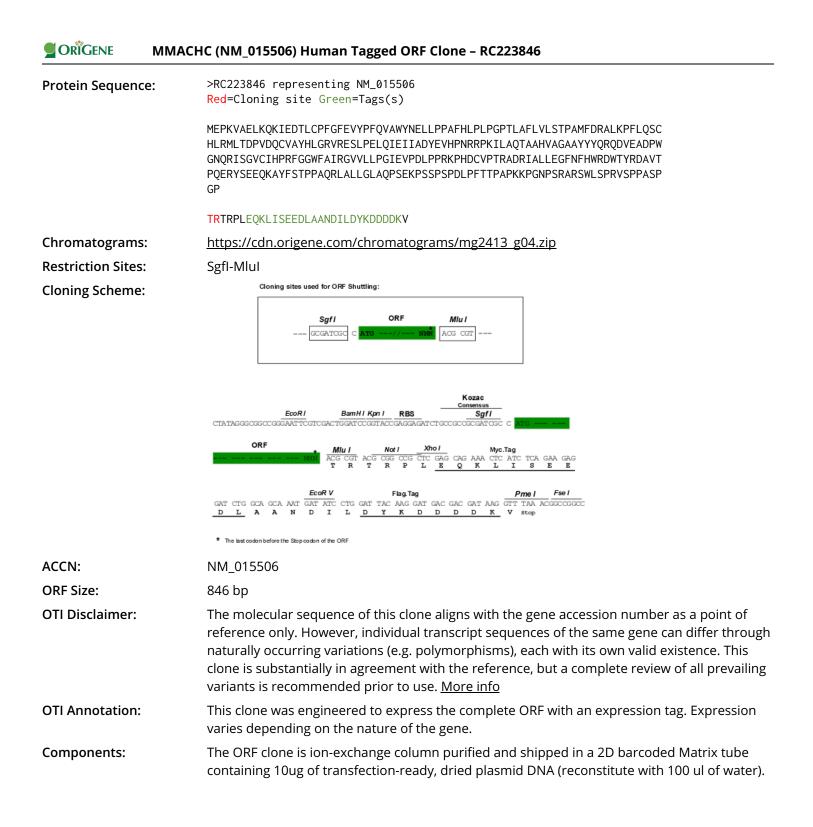
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | MMACHC (NM_015506) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ММАСНС |
| Synonyms: | cblC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RC223846 representing NM_015506 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



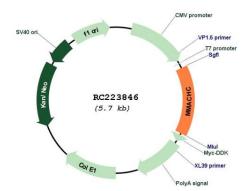
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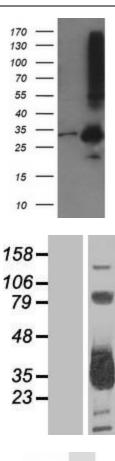
| ORIGENE MMACHC (NM_015506) Human Tagged ORF Clone – RC223846 | |
|--|---|
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 015506.3</u> |
| RefSeq Size: | 2247 bp |
| RefSeq ORF: | 849 bp |
| Locus ID: | 25974 |
| UniProt ID: | <u>Q9Y4U1</u> |
| Cytogenetics: | 1p34.1 |
| MW: | 31.5 kDa |
| 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] |

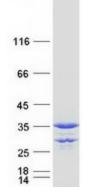
Product images:



Circular map for RC223846

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MMACHC (Cat# RC223846, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MMACHC(Cat# [TA504954]). Positive lysates [LY402444] (100ug) and [LC402444] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY402444]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MMACHC protein (Cat# [TP323846]). The protein was produced from HEK293T cells transfected with MMACHC cDNA clone (Cat# RC223846) using MegaTran 2.0 (Cat# [TT210002]).

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