

# Product datasheet for RC223846

## MMACHC (NM\_015506) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

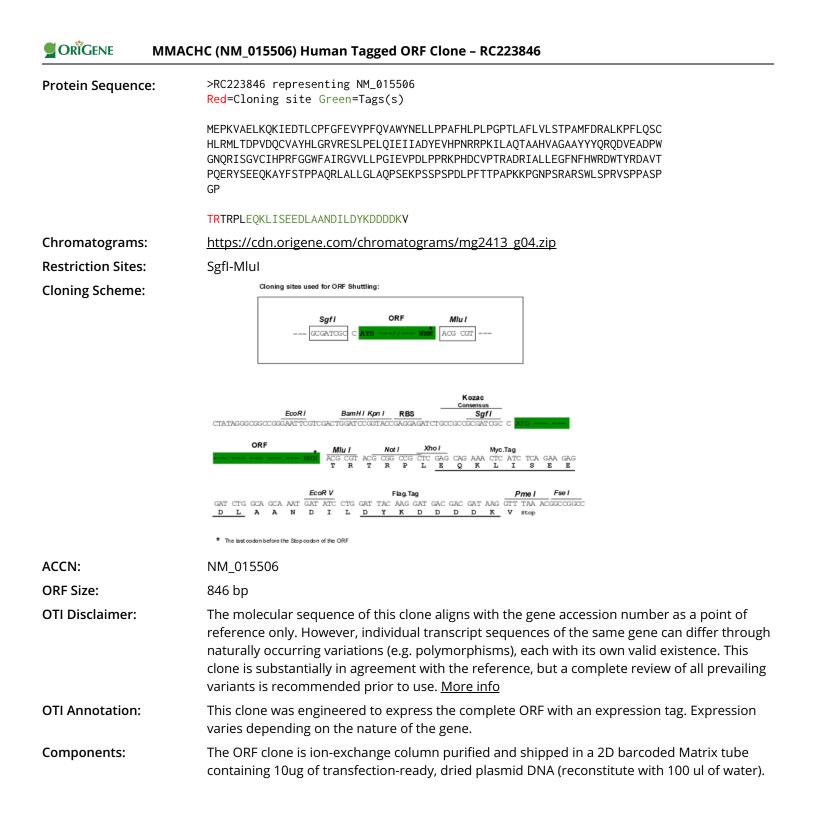
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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>&gt;RC223846 representing NM_015506 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



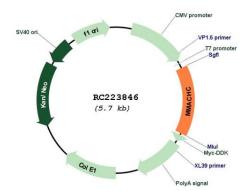
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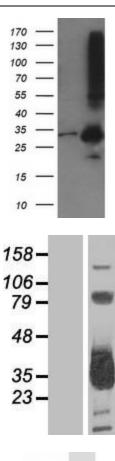
ORIGENE MMACHC (NM_015506) Human Tagged ORF Clone – RC223846	
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
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]

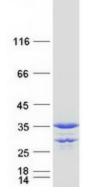
# **Product images:**



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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