

Product datasheet for RC204290

MMAB (NM 052845) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MMAB (NM_052845) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: MMAB

Synonyms: ATR; cblB; CFAP23; cob

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204290 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204290 protein sequence

Red=Cloning site Green=Tags(s)

MAVCGLGSRLGLRGCFGAARLLYPRFQSRGPQGVEDGDRPQPSSKTPRIPKIYTKTGDKGFSST FTGERRPKDDQVFEAVGTTDELSSAIGFALELVTEKGHTFAEELQKIQCTLQDVGSALATPCSSAREAHL KYTTFKAGPILELEQWIDKYTSQLPPLTAFILPSGGKISSALHFCRAVCRRAERRVVPLVQMGETDANVA KFLNRLSDYLFTLARYAAMKEGNQEKIYMKNDPSAESEGL

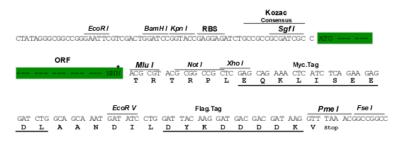
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6059 g12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_052845

ORF Size: 750 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 052845.4

RefSeq Size: 4154 bp

 RefSeq ORF:
 753 bp

 Locus ID:
 326625

 UniProt ID:
 Q96EY8

 Cytogenetics:
 12q24.11

 Domains:
 DUF80

Protein Pathways: Metabolic pathways, Porphyrin and chlorophyll metabolism

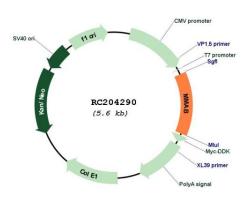
MW: 27.4 kDa

Gene Summary: This gene encodes a protein that catalyzes the final step in the conversion of vitamin B(12)

into adenosylcobalamin (AdoCbl), a vitamin B12-containing coenzyme for methylmalonyl-CoA mutase. Mutations in the gene are the cause of vitamin B12-dependent methylmalonic aciduria linked to the cblB complementation group. Alternatively spliced transcript variants

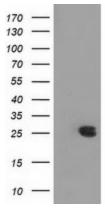
have been found. [provided by RefSeq, Apr 2011]

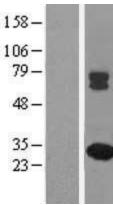
Product images:

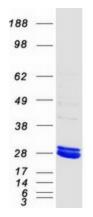


Circular map for RC204290









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MMAB (Cat# RC204290, 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-MMAB(Cat# [TA502178]). Positive lysates [LY409455] (100ug) and [LC409455] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY409455]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204290 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MMAB protein (Cat# [TP304290]). The protein was produced from HEK293T cells transfected with MMAB cDNA clone (Cat# RC204290) using MegaTran 2.0 (Cat# [TT210002]).