

Product datasheet for **RG204290**

MMAB (NM_052845) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MMAB (NM_052845) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MMAB
Synonyms: ATR; cb1B; CFAP23; cob
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204290 representing NM_052845
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTGTGCGGCTGGGGAGCCGTCTTGGCCTGGGGAGCCGTCTTGGCCTGCGCGGGTGCTTCGGCG
CCGCCAGGCTCCTGTATCCCGTTTCCAGAGCCGCGGCCCTCAGGGCGTGAAGACGGGGACAGGCCACA
GCCTTCTCGAAGACACCAGGATCCCCAAGATTTACACAAAACGGGAGACAAAGGTTTTCTAGTACC
TTCACAGGAGAAAGGAGACCCAAAGATGACCAAGTGTGTTGAAGCCGTGGAACTACAGATGAATTAAGTT
CAGCTATTGGGTTTGTCTGGAATTAGTCACAGAAAAGGGCCATACATTTGCCGAAGAGCTTCAGAAAAT
CCAGTGCACATTGCAGGACGTGCGCTCGGCCCTGGCGACACCATGCTCCTCGGCCCGGGAGGCTCACTTA
AAGTATACCACGTTCAAGGCGGGGCCATCCTGGAGCTGGAGCAGTGGATCGACAAGTACACCAGCCAGC
TCCCACCACTCACGGCCTTCATCCTGCCTTCGGGAGGCAAGATCAGCTCGGCGCTGCATTCTGCCGGGC
CGTGTGCCCGGGCCGAGAGACGTGTGGTGCCTTTGTCCAGATGGGAGAGACCGATGCGAACGTGGCC
AAGTTCTAAACAGACTCAGTACTATCTTCCAGCTAGCCAGATATGCAGCCATGAAGGAGGGGAATC
AAGAGAAAATACATGAAAAATGACCCATCGGCCGAGTCTGAGGGACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204290 representing NM_052845

Red=Cloning site Green=Tags(s)

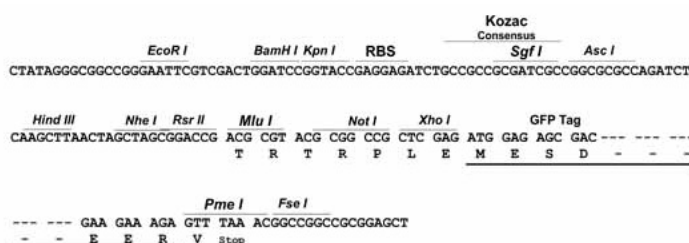
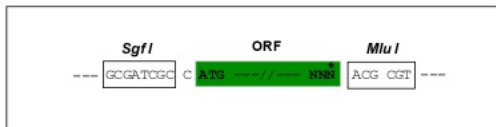
MAVCGLGSRLGLGSRLGLRGCFGAARLLYPRFQSRGPQGVEDGDRPQPSSKTPRIPKIYTKTGDKGFSST
 FTGERRPKDDQVFEAVGTTDELSSAIGFALELVTEKGHTFAEELQKIQCTLQDVGSALATPCSSAREAHL
 KYTTFKAGPILELEQWIDKYTSQLPPLTAFILPSGGKISSALHFCRAVCRRAERRVVPLVQMGETDANVA
 KFLNRLSDYLFLLARYAAMKEGNQEKIYMKNDPSAESEGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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.

RefSeq: [NM_052845.4](#)

RefSeq Size: 4154 bp

RefSeq ORF: 753 bp

Locus ID: 326625

UniProt ID: [Q96EY8](#)

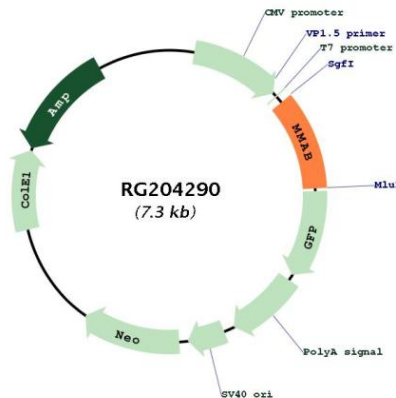
Cytogenetics: 12q24.11

Domains: DUF80

Protein Pathways: Metabolic pathways, Porphyrin and chlorophyll metabolism

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 RG204290