

## Product datasheet for **MR202904**

### Mmab (NM\_029956) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mmab (NM_029956) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmab
Synonyms:	9130222L19Rik; ATR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202904 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGTGGCTCTTTGGGGTTCGCTCGGCCGCGGGCGTCTCAGCGCTGCAGACTGCTGTGTC  
CCCGTTCCAGAGCCGTGGCCCTCAGGGCGGGGAAGACGGGGACAGGCTGCAGCCGTCTCGACGGCAGC  
CAAGATCCCAAGATTTACACCAAGACGGGAGACAAAGGGTTTTCCAGCACCTTCACAGGAGAAAGGAGA  
CCTAAAGATGATCAAGTATTTGAAGCCGTGGGACCACGGATGAGCTAAGCTCAGCTATTGGTTTGCCA  
TGGAGTTGGTACAGAAAAGGCCACATGTTTGCCGAAGAGCTTCAGAAAATCCAGTGCATGCTACAGGA  
CGTCGGCTCCGCCCTGGCCACTCCACGTTCCCTCAGCCAGGGAGGCTCACTTAAAGCACACGGCCTCCAG  
GAAGGGCCTGTCCTGGAGCTGGAGCGGTGATTGACAAGTACTCCAGCCAGCTCCCCCGCTCAAGGCCT  
TCATTCTGCCTTCTGGAGGCAAGAGCAGCTCTGCCCTGCATTCTGCCGCGCTGTATGCCGTGTCGCGA  
GAGACGTGTGGTGCCTCTGTCCAGATGGGAGAGACGGATGCAAACGTGGCGAAGTTCTTAAACAGGCTC  
AGTGATTACCTTCTCACTGTAGCCAGATATGCAGCCATGAAGGAGGGCAGCCAAGAGAAAATATACAAGA  
AACATGATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202904 protein sequence  
Red=Cloning site Green=Tags(s)

MAVWLFGGRLGLRGRLSACRLLCPRFQSRGPQGGEDGDRLQPSSTAAPKIPKIYTKTGDKGFSSTFTGERR  
 PKDDQVFEAVGTTDELSSAIGFAMELVTEKGHMF AEELQKIQCM LQDVGSALATPRSSARE AHLKHTAFQ  
 EGPVLELERWIDKYSSQLPPLKAFILPSGGKSSSALHFCRAVCRAERRVPLVQMGETDANVAKFLNRL  
 SDYLFTVARYAAMKEGSQEKIYKKHDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_029956

**ORF Size:** 714 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\\_029956.4](#)

**RefSeq Size:** 3021 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 77697

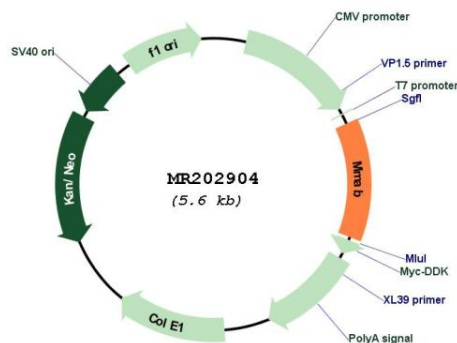
**UniProt ID:** [Q9D273](#)

**Cytogenetics:** 5 F

**MW:** 26.3 kDa

**Gene Summary:** Adenosyltransferase involved in intracellular vitamin B12 metabolism. Generates adenosylcobalamin (AdoCbl) and directly delivers the cofactor to MUT in a transfer taht is stimulated by ATP-binding to MMAB and gated by MMAA.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202904