

Product datasheet for **MG202904**

Mmab (NM_029956) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mmab (NM_029956) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mmab
Synonyms: 9130222L19Rik; ATR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202904 representing NM_029956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTGGCTCTTTGGGGTGCCTCGGCCGCGGGCGTCTCAGCGCTGCAGACTGCTGTGTC
CCCGTTCCAGAGCCGTGGCCCTCAGGGCGGGGAAGACGGGGACAGGCTGCAGCCGTCTCGACGGCAGC
CAAGATCCCAAGATTTACCCAAGACGGGAGACAAAGGGTTTTCCAGCACCTTCACAGGAGAAAGGAGA
CCTAAAGATGATCAAGTATTTGAAGCCGTGGGACCACGGATGAGCTAAGCTCAGCTATTGGTTTGCCA
TGGAGTTGGTCACAGAAAAGGCCACATGTTTGCCGAAGAGCTTCAGAAAATCCAGTGCATGCTACAGGA
CGTCGGCTCCGCCCTGGCCACTCCACGTTCCCTCAGCCAGGGAGGCTCACTTAAAGCACACGGCCTCCAG
GAAGGGCCTGTCTGGAGCTGGAGCGGTGATTGACAAGTACTCCAGCCAGCTCCCCCGCTCAAGGCCT
TCATTCTGCCTTCTGGAGGCAAGAGCAGCTCTGCCTGCATTCTGCCGCGCTGTATGCCGTGTCGCGA
GAGACGTGTGGTGCCTCTGTCCAGATGGGAGAGACGGATGCAAACGTGGCGAAGTTCTTAAACAGGCTC
AGTGATTACCTCTTCACTGTAGCCAGATATGCAGCCATGAAGGAGGGCAGCCAAGAGAAAATATACAAGA
AACATGATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202904 representing NM_029956
Red=Cloning site Green=Tags(s)

MAVWLFGGRLGLRGRLSACRLLCPRFQSRGPQGGEDGDRLQPSSTAALKIPKIYTKTGDKGFSSTFTGERR
 PKDDQVFEAVGTTDELSSAIGFAMELVTEKGHMF AEELQKIQCLM QDVGSALATPRSSAREAHLKHTAFQ
 EGPVLELERWIDKYSSQLPPLKAFILPSGGKSSSALHFCRAVCRAERRV VPLVQMGETDANVAKFLNRL
 SDYLF TVARYAAMKEGSQEKIYKKHDV

TRTRPLE - GFP Tag - V

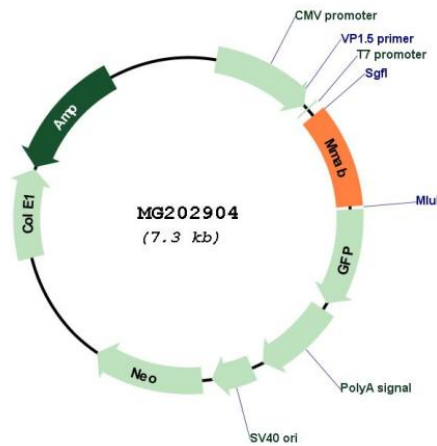
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_029956

ORF Size: 711 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:	<ol style="list-style-type: none">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:	3026 bp
RefSeq ORF:	714 bp
Locus ID:	77697
UniProt ID:	Q9D273
Cytogenetics:	5 F
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]