

Product datasheet for **MR221326**

Mettl1lb (NM_001143956) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mettl1lb
Synonyms:	Gm207; NTM1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR221326 representing NM_001143956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCACTGGGAGCCCATTTGCCTTTAGATCCCGTTGGCAGAAGACCGACGACGAACTCTGTCGTC
ATAGCATGTCCTTTATCCTTCACAAAGCCATTCGCAATGACTTCTTTAGAGCTACCTCTACCTGCTGGA
AAAAATCCCTGGTAAATTTGTATGCTTTAACAAGCCAAGTCATTGATGGTGAGATGCAGTTCTATGCC
AGAGCCAACTTTTCTACCAAGAAGTACCAGCCACAGAAGAAGGCATGATGGGAAATTTATTGAATTAT
CCAACCCAGATATCCAAGCCTCTCGTGAATTTCTTAGGAAATTTGTTGGGGGCCAGGGAGAGCGGGAAC
TGGCTGCGCCTTGGACTGCGGTTCTGGAATAGGAAGGGTCAGCAAGCACGTCTTGTTGCCTGTTTTCAGC
AGTGTGAATTGGTGGACATGATGGAATCCTTCCTTGAAGCCAGAGCTACTTGCAGTTAACGAGG
ACAAAGTTGAAAGTTACCACTGCTACAGCCTGCAGGAGTTCACGCCCCACTTAGGGAGATATGATGTCAT
CTGGATTCACTGGGTCTCAGGGTACCTGACTGATAAGGACCTTCTTGCAATTTCTTCCCGGTGTCGAGAT
GGCCTGAAAGAAAATGGTGTATCATACTGAAGGACAAATGTGGCACGGGAGGGCTGTATCTTCGACCTGT
CTGACAGCAGTGTGACTCGGGACATGGACATCCTTCGAAGCCTTATTAGGAAGAGTGGACTGGTGGTTCT
GGGCCAGGAGAAACAAGAGGGTTTCCAGAGCAGTGTGTTCCGGTGTGGATGTTGCACTGCACAGTGAC
AGGCACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR221326 representing NM_001143956

Red=Cloning site Green=Tags(s)

MAHLGAHFAFRSRWQKTDELCRHSMSFILHKAIRNDFQSYLYLLEKIPLVKLYALTSQVIDGEMQFYA
RAKLFYQVEVPATEEGMMGNFIELSNPDIQASREFLRKFVGGPGRAGTGCALDCGSGIGRVSKHVLLPVFS
SVELVDMMESFLLEAQSYLQVNEDKVESYHCYSLQEFTPHLGRYDVIWIQWVSGYLTDKDLAFLSRCRD
GLKENGVIILKDNVAREGCIFDLSDSSVTRDMDILRSLIRKSGLVVLGQEQEGFPEQCVPMVMFALHSD
RHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

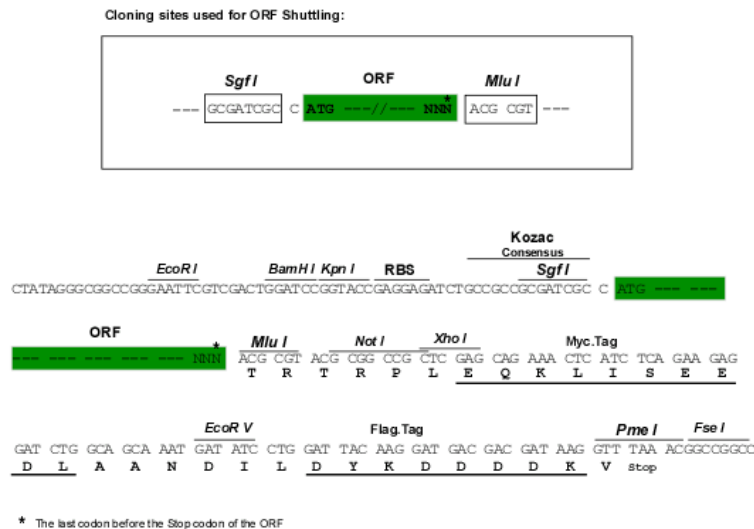
Chromatograms:

https://cdn.origene.com/chromatograms/mm9065_c06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001143956

ORF Size:

849 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:

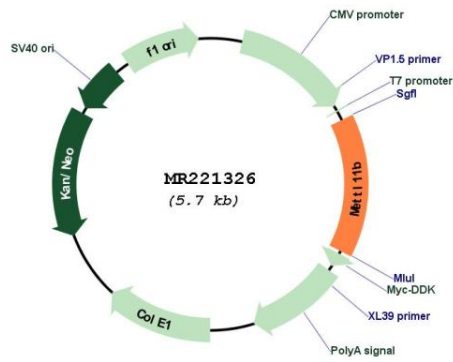
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001143956.1, NP_001137428.1</u>
RefSeq Size:	1053 bp
RefSeq ORF:	852 bp
Locus ID:	240879
UniProt ID:	<u>B2RXM4</u>
Cytogenetics:	1 H2.1
MW:	32.3 kDa
Gene Summary:	Alpha-N-methyltransferase that methylates the N-terminus of target proteins containing the N-terminal motif [Ala/Pro/Ser]-Pro-Lys when the initiator Met is cleaved. Specifically catalyzes monomethylation of exposed alpha-amino group of Ala or Ser residue in the [Ala/Ser]-Pro-Lys motif and Pro in the Pro-Pro-Lys motif. May activate NTMT1 by priming its substrates for trimethylation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221326