

Product datasheet for **MC226445**

Mettl21b (NM_001205036) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mettl21b (NM_001205036) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mettl21b
Synonyms: eef1akmt3; Fam119b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226445 representing NM_001205036
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCCAGCTCTCGCACCATCCGAACTGAGCCGAATCCGTGTTCCACGGGAGATCCGGCTCTTCA
 CAGACTCTTACTCAGAGAGCAGCCGGTTCTGCTTCTGTGGGCACGAGCTGAGCATCACGCAGAACCTTTGG
 GTCGCGCCTTGGGGTGGCGGCACGCGTGTGGGATGCGGCTCTGAGCCTGTGTGACTATTCGAGAGTCAA
 AATGTGGATTTTCGAGGCAAGAAGGTGATCGAACTGGGCGCGGGACGGGCATCGTGGGAATCTTGGCGG
 CGCTGCAGGGGGGGATGTTACCATCACTGATTTGCCAGTGGCACTAGAGCAAATCCAGGATAACGTCCA
 CGCCAATGTGCCACCCGGAGGCCGGGCTCGGGTGTGCGCCTTGTCTGGGGAATTGACCAGCATGTCTTT
 CCTGGAAACTATGACTTGGTGTGGGGCGGATATCGTGTACCTGGAACCTACCTCCCCTACTGTTGG
 GGACTCTCCGACACCTGTGTGGGCCACGGCACCATCTACCTGGCCTCCAAGATGAGAGCAGAACACGG
 GGCAGAGACCTTCTTCGGCGCCTCTGCCAGCACTCCACCTGGAGCTGGCCAGCGGGATGAGGAT
 GTGAATGTCAACATCTATAGGGCCAGGCACAGGGAGGTGGCACCTGCCGACAGCACCCCTTCTGT**TGA**

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001205036
Insert Size: 699 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001205036.1</u> , <u>NP_001191965.1</u>
RefSeq Size:	699 bp
RefSeq ORF:	699 bp
Locus ID:	100504608
UniProt ID:	<u>D3YWPO</u>
Cytogenetics:	10 D3
Gene Summary:	Protein-lysine methyltransferase that selectively methylates EEF1A1 and EEF1A2 at 'Lys-165' in an aminoacyl-tRNA and GTP-dependent manner. EEF1A1 methylation by EEF1AKMT3 is dynamic as well as inducible by stress conditions, such as ER-stress, and plays a regulatory role on mRNA translation.[UniProtKB/Swiss-Prot Function]