

## Product datasheet for **MG219921**

### Tfb1m (NM\_146074) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tfb1m (NM_146074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tfb1m
Synonyms:	A1429207
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219921 representing NM_146074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCTCGGGGAAGCTCGGCACCTTCCGCCCTCCCCCGTTGCCACCATTCCGGAGATCATTAAAGT  
TGTTCCGACTGCGAGCGGTGAAACAGCTTCCAGAAATTCCTCCTGGACTTGAGGCTGACAGACAAGT  
TGTAAGGAAAGCTGGCAGTCTAGCAGATGTTTATGTTTATGAAGTGGTCTGGGCCCGGGGAATCACA  
AGATCCATCCTGAATGCCAACGTTGCTGAGCTTCTGGTGGTTGAAAAGGACTCGCTTTATCCAGGGT  
TACAGATGCTCTGATGCAGCACCTGGAAAACCCGAATTGTTTCATGGAGATGTGCTGACATACAAGT  
AGAAAAGGCTTTCCAGGCAACATTAGAAGACAGTGGGAAGATGATCCTCAAATGTACACATTATTGGA  
AATCTACCTTTTAGTGTTTCAACTCCACTGATTATCAAGTGGCTTAAAAATTTCTCTTAAAGATGGCC  
CTTTCGTTTATGGCAGAATAAGATGACGTTAACGTTTCAAAGGAAGTGGCTGAGAGACTTGTAGCCAC  
TACAGGAAGCAACAGCACAGTCGCCTTCCATTATGGCCAGTACCTCTGCAATGTTGAACACCTCTT  
ACAATCCAGGAAAAGCTTTTGTCCAAACAAAAGTTGATGTAGGAGTGGTGCACCTTACGCCCTTGA  
GAAATATTGCCACCGAGGCTTGGAAATGTTATTCCTGAAGCACAAACGCTCGAAAGCACTGGAAGGCTG  
TTACAGTTGGCAGACATTGATCCAACCTCCGGCCACCACCTCTGCTCATGATTTTAAAGATTTGT  
GTGATGTATACAGAAAAATGTGTGATGAAGACCCACAACCTTTTACTTATAACTTCAGAGAGGAGCTCAA  
GCAAAAAGAAAAGTAAAGGCCAAGAAAAGATGGTGACCCAGAAAGCTGCGGGTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219921 representing NM\_146074  
 Red=Cloning site Green=Tags(s)

MAASGKLGTFRLPPLPTIREIIKLFGLRAVKQLSQNFLDLRLTDKIVRKAGSLADVVYVEVGPGGIT  
 RSILNANVAELLVVEKDTRFIPGLQMLSDAAPGKLRIVHGDVLYKIEKAFPGNIRRQWEDDPPNVHIIG  
 NLPFVSSTPLIIKWLENI SLKDGPFVYGR TKMTLTFQKEVAERL VATTGSKQHSRLSIMAQYLCNVEHLF  
 TIPGKAFVPKPKVDVGVVHL TPLIEPKIKQPFKLVKVVQNAFQFRKYCHRGLGMLFPEAQRLESTGRL  
 LQLADIDPTLRPHLSLMHFKSLCDVYRKMCDDEPQLFTYNFREELKQKSKGQEKDGDPESCGF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146074

**ORF Size:** 1035 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\\_146074.3](#)

**RefSeq Size:** 1360 bp

**RefSeq ORF:** 1038 bp

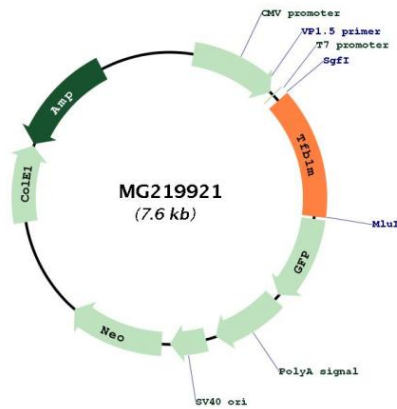
**Locus ID:** 224481

**UniProt ID:** [Q8JZM0](#)

**Cytogenetics:** 17 A1

**Gene Summary:** S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. Also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. Stimulates transcription independently of the methyltransferase activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG219921