

Product datasheet for **MG219778**

Mterf1b (NM_001042670) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mterf1b (NM_001042670) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mterf1b
Synonyms:	ENSMUSG00000053178; Gm9897
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219778 representing NM_001042670 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCAAGAAACATCTGGTGTGTGAGAAGAACTTTCTCTTTGATTTAAGAGGCTGGATGCTTCAGT
ATTCAGCAGAAGTTTTCTCAAGTCGATTTTCATTGAGGACGTTTGTGGAAATGCGACAGTAAGGACAA
GGAGTCTTTGGAGGAGGAGGGGAGGACCTGCTGAGCACTTAGTCACCATGGGCGTTGATATCGACATG
GCAAGGAGGCGACAGCCTGGAGTTTTTAAACAAGGCTGTACGAATGAGCAGGAGCTGAAGATATTCCTTC
TGCCAAGGGAGCTAGTGACAAAGTGATTGGTAGCATCATCAAGATATCCACGAGCTATAACACGCAC
TCCTGAAAGTCTTCAAACGGTGGGATCTGTGGAGAAAGATTATGGCATCAGACCTTGAATGTAAT
ATTTTGGAGCGTTCTCCTGAATCCTTTTTTCGATCTAATAACAATCTAACTTAGAGAATAATATAAAGT
TCCTTTGCTCTGTTGGATTGACTCATAAATGCCTCTGCAGACTGTTGACCAATGCTCCAGAACCTTCTC
CAACAGTCTGAATTTGAATAAGCAAATGGTTGAATTTTTGCAGGAGACTGGTATGTCCTTAGGTCACAA
GATCCCAGAGATTTTGTGAGGAAGATAATTTCTAAAAACCTTCCATCTTAATTCAGAGCACCAAGCGTG
TAAAACTAACATTGAATTTTTACAATCACTTCACTTGAACAAACAGGACCTGCTGCTTCTGATATG
AGGCTGCTTTCTTTGGGTGCAGTGAGGAGGAGGTACAGAGTTTGTCTAAGCTATCTGAATATGGTCT
TCTTGTGAGAAAAAAGTTAATGATAAAATAGACTGCCTTATAGAAGAAAAAATCAGTGTTCACAAAT
AATTGAAATCCGAGGATTTTAGACTCCAGCATAAATACTTTAAAAACTCGCATCCGAGAGCTGTCCCAT
GCTGGGTATGACTTGAGCACATCCAGCATTGCTGTCTGCTGCTGCTGGAGTCAGAGAAGATATGAAGCTAAAC
TGAAGAGATTATGTGGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG219778 representing NM_001042670
 Red=Cloning site Green=Tags(s)

```
MASRNIWCVRRNFLFDLRGWLQYSAEVFLKSI SFRTFSVECD SKDKESLEEEREDLLSNLVTMGVDIDM
ARRRQPGVFNKAVTNEQELKIFLLSKGASDKVIGSII SRYPRAITRTPESLSKRWDLWRKIMASDLEIVN
ILERSPEFFRSNNLNLNLENNIKFLCSVGLTHKCLCRLL TNAPRTFSNSLNLNKQMVFLQETGMSLGHN
DPRDFVRKIIISKNPSILIQSTKRKVTNIEFLQSTFNLNKQDLLLLICGPGARILDLSNDCTKKNYTNIRE
RLLSLGCSEEEVQRFVLSYLNMFVFLSEKKFNDKIDCLIEEKISASQI IENPRILDSSINTLKTIRELSH
AGYDLSTSSIALLSWSQRRYEAKLRLCG
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042670

ORF Size: 1143 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_001042670.1](#), [NP_001036135.2](#)

RefSeq Size: 1368 bp

RefSeq ORF: 1146 bp

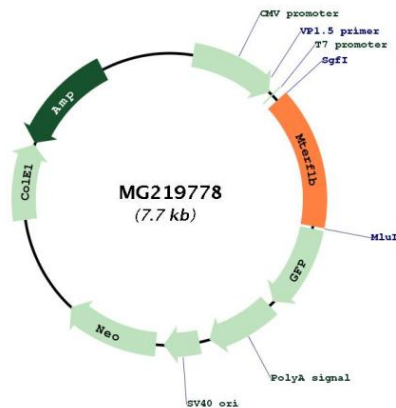
Locus ID: 208595

UniProt ID: [B9EJ57](#)

Cytogenetics: 5

Gene Summary: Transcription termination factor. Binds to a 28 bp region within the tRNA(Leu(uur)) gene at a position immediately adjacent to and downstream of the 16S rRNA gene; this region comprises a tridecamer sequence critical for directing accurate termination. Binds DNA along the major groove and promotes DNA bending and partial unwinding. Promotes base flipping. Transcription termination activity appears to be polarized with highest specificity for transcripts initiated on the light strand.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219778