

Product datasheet for **MG206939**

Tufm (BC060959) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tufm (BC060959) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tufm
Synonyms:	EFTU, EF-TuMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206939 representing BC060959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCACTCTATTGCGAGCGACGCCCGCTTCAGCGGTCTCTGCGCCAGCCCGACCCATTTCTGCAAGGTCGGCTGCGGCCGCTGAAGGCTCCCGCATCACCTTCTGTGTCGCGGCTAGCTGTGGAGGCCAAGAAGACTTATGTACGCGACAAGCCCATGTGAATGTGGGTACCATCGGACATGTGGACCATGGCAAGACCACCCTGACTGCAGCCATCACGAAAATTCTAGCCGAGGGAGGTGGAGCTAAGTTCAAGAAGTACGAGGAGATAGACAATGCCCCAGAGGAGCGAGCTCGGGGCATCACCATCAATGCAGCCCATGTGGAGTATAGCAC TGCTGCCCGACACTATGCCACACAGACTGTCCTGGTCATGCAGATTATGTTAAGAATATGATCACAGGC ACTGCCCCCTGGATGGCTGTATCCTGGTGGTGGCAGCTAATGATGGCCCATGCCCCAGACCCGAGAGC ACTTACTGCTAGCTAAACAGATTGGGGTAGAACATGTTGTGGTGTACGTGAACAAGGCAGACGCTGTCCA GGACTCAGAGATGGTGGAGTTAGTCGAGCTGGAGATCCGGGAGCTGCTCACCGAGTTTGGCTATAAAGGA GAGGAACTCCAGTCATCGTAGGCTCGGCTCTCTGTGCCCTTGAGCAACGTGACCCTGAGCTAGGCGTGA AGTCAGTGCAGAAGCTCCTGGATGCTGTGGACACCTACATCCCAGTGCCACCCGGGACCTGGACAAGCC CTTCTGCTCCCTGTAGAGTCAGTCTACTCTATTCCTGGCCGGGCACAGTGGTGACAGGTACATTAGAG CGTGCCATTTGAAGAAAGGAGATGAGTGTGAGTTGCTGGGACATAACAAGAACATCCGCACTGTGGTGA CAGGCATTGAGATGTTCCACAAGAGCCTGGAGAGGGCTGAGGCAGGGGATAACCTGGGTGCTCTGGTCCG AGGCTTAAAGCGCGAAGATTGAGGCGTGGCTTGGTCATGGTCAAGCCAGGCTCCATCCAACCCACCAG AAGGTGGAGGCCAGGTGAGGGCTCCAGTGTGAGTGGTTCCCTTGCTTGAAGCAGGACTGTAGCTA AGCCATCCATCCTTACTGCTTCTCCTCTAGGTTTATCCTCAGCAAGGAGGAAGGTGGCCGCCACA AACCCTTGTATCTCATTTTCATGCCGTCATGTTCTCCCTGACCTGGGACATGGCCTGTCGAGTCATCTT GCCTCCAGGAAGGAACCTGCCATGCCTGGAGAGGACTGAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206939 representing BC060959
 Red=Cloning site Green=Tags(s)

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  MAAATLLRATPRFSGLCASPTPFLQGRLRPLKAPASPFLCRGLAVEAKKTYVRDKPHVNVGTIGHVDHGK
  TTLTAAITKILAEGGGAKFKKYEEIDNAPEERARGITINAHVEYSTAARHYAHTDCPGHADYVKNMITG
  TAPLDGCILVVAANDGMPMQTREHLLAKQIGVEHVVVYVKNKADAVQDSEMVELVELEIRELLTEFGYKG
  EETPVIVGSALCALEQRDPELGVKSVQKLLDAVDYIIPVPTRDLDKPFLLPVESVYSIPGRGTVVTGTLE
  RGILKKGDECELLGHNKNIRTVVTGIEMFHKSLERAEGDNLGALVRGLKREDLRRGLVMVKPGSIQPHQ
  KVEAQVRAPVLSGFPCLEAGLVAKPFHPYCFSPGLGLYPQQGGRWPPQTLICISFHARHVL PDLGHGLSSHL
  ASREGTCHAWRGLEA
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC060959

ORF Size: 1307 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: [BC060959](#), [AAH60959](#)

RefSeq Size: 1783 bp

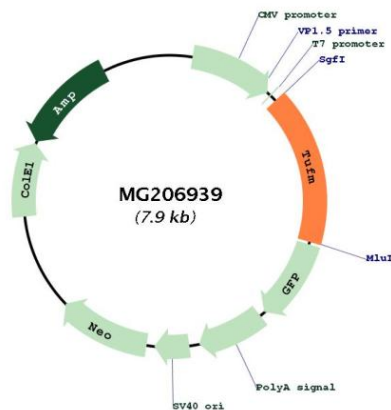
RefSeq ORF: 1307 bp

Locus ID: 233870

Cytogenetics: 7 F3

Gene Summary: Promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. Plays also a role in the regulation of autophagy and innate immunity. Recruits ATG5-ATG12 and NLRX1 at mitochondria and serves as a checkpoint of the RIG-I/DDX58-MAVS pathway. In turn, inhibits RLR-mediated type I interferon while promoting autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206939