

Product datasheet for **MC218620**

Tufm (NM_001163713) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tufm (NM_001163713) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tufm
Synonyms:	2300002G02Rik; C76308; C76389; EF-TuMT; EFTU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218620 representing NM_001163713
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGCAGCCACTCTATTGCGAGCGACGCCCGCTTCAGCGGTCTCTGCGCCAGCCGACCCCATTTT
 TGCAAGGTCGGCTGCGGCCGCTGAAGGCTCCCGCATCACCTTCTTGTGTCGCGGCTAGCTGTGGAGGC
 CAAGAAGACTTATGTACGCGACAAGCCCATGTGAATGTGGGTACCATCGGACATGTGGACCATGGCAAG
 ACCACCCTGACTGCAGCCATCACGAAAATTCTAGCCGAGGGAGGTGGAGCTAAGTTCAAGAAGTACGAGG
 AGATAGACAATGCCCCAGAGGAGCGAGCTCGGGGCATCACCATCAATGCAGCCCATGTGGAGTATAGCAC
 TGCTGCCCCGACACTATGCCACACAGACTGTCTGGTCATGCAGATTATGTTAAGAATATGATCACAGGC
 ACTGCCCCCTGGATGGCTGTATCCTGGTGGTGGCAGCTAATGATGGCCCATGCCCCAGACCCGAGAGC
 ACTTACTGCTAGCTAAACAGATTGGGGTAGAACATGTTGTGGTGTACGTGAACAAGGCAGACGCTGTCCA
 GGACTCAGAGATGGTGGAGTTAGTCGAGCTGGAGATCCGGGAGCTGCTCACCGAGTTTGGCTATAAAGGA
 GAGGAAACTCCAGTCATCGTAGGCTCGGCTCTCTGTGCCCTTGAGCAACGTGACCCTGAGCTAGGCGTGA
 AGTCAGTGCAGAAGCTCCTGGATGCTGTGGACACCTACATCCAGTGCCACCCGGGACCTGGACAAGCC
 CTTCTGCTCCCTGTAGAGTCAGTCTACTCTATTCCTGGCCGGGCGACAGTGGTGACAGGTACATTAGAG
 CGTGGCATTGTTGAAGAAAGGAGATGAGTGTGAGTTGCTGGGACATAACAAGAATCCGCACTGTGGTGA
 CAGGCATTGAGATGTTCCACAAGAGCCTGGAGAGGGCTGAGGCAGGGGATAACCTGGGTGCTCTGGTCCG
 AGGCTTAAAGCGCAAGATTTGAGGCGTGGCTTGGTCATGGTCAAGCCAGGCTCCATCCAACCCACCAG
 AAGGTGGAGGCCAGGTGAGGGCTCCAGTGTGAGTGGTTCCCTTGCTTAGAAGCAGGACTTGTAGCTA
 AGCCATTCCATCCTTACTGCTTCTCTCTAGGTTTATCCTCAGCAAGGAGGAAGGTGGCCGCCACA
 AACCCCTTGTATCTCATTTCATGCCCCTCATGTTCTCCCTGACCTGGGACATGGCCTGTGAGTCATCTT
 GCCTCCAGGGAAGGAAGTGGCATGCCTGGAGAGGACTTGAAGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001163713

Insert Size: 1308 bp

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).

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_001163713.1</u> , <u>NP_001157185.1</u>
RefSeq Size:	1806 bp
RefSeq ORF:	1308 bp
Locus ID:	233870
UniProt ID:	<u>Q8BFR5</u>
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] Transcript Variant: This variant (2) includes an alternate segment that results in a frameshift compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus compared to isoform 1.