

Product datasheet for **MG205220**

Mterf4 (NM_178051) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mterf4 (NM_178051) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mterf4
Synonyms: 1810059A23Rik; 4933412H03Rik; Mterfd2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205220 representing NM_178051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCGCTGGGAAGGCAGGTTCTGAGTGGCATCGTCTACTGGCCCTCTCTGGCCTGTTTGGTTA
 GGCAGACCCCTCATCTCAGAGAACAGAAACAGATGAGCCCTTCTTTGTCTTGCAAAGTACTACAGTGCC
 CGGTAGAGGAAGCTTTCAAGAGTTTTCCAGCATTACACCCAAAAGTACATGCAGGAACAGAAAACAGG
 ACACGACTTGTTCAAGTCTTTCATGAGGAACAGAAGCCTTGTGTGGATCCTGAGTCTTGGAGCCTGAAA
 AGGTCATCCGTTCCCTCCAGGACATGGGTTTTGCTGAAGCCACATTCACAGCTTGTAGTATACAGCC
 AAGTGTCCATCCTCAACAGTTGCTGGGTATAGTTTCAGAACTCCTACTCTTGGGGTTGAACCCAGAGCCT
 GTATTTAATGCCTGAAGAAAAATCCCCAGTTGCTGAAACTGTCTAGCATGCAGATGAAGAGGCGTTCCA
 GTTACCTTCGGAAGCTTGGCCTTGGAGAAGGAAACTGAAGCGGGTGTGTCCGTTTGGCCTGAGGTTTT
 CACCATGCATCAGCGGGACATTGACCGAGTTGTGAAGTCTCAGGGAGAAGTGTGTTTACGGCACAG
 CACATCACAGACGTTCTGCACAGATGCCCCACTGTTTTGCAGGAGGACCCCAACGAGCTAGAATACAAAT
 TCCAGTATGCATATTTCAAGATGGGACTCACACATCTAGACATAGTCAGGACGAATTTCTTACAGTATTC
 AATAACCAAGATCAAGCAGAGACACATTTACCTGGAGCGCCTTGGACGGTACCAGACCCCTGATAAGAAG
 GGCAGACACAGATCCCTAATCCCTCACTGAGGAACATTTCTCAGAGTTTCTGAAGCTGAGTTTTTGGCCA
 GGACAGCCTGTTCTCTGTGAGGAGTTTCAAGTTTTTAAAAAACTCTTGGATCAAGAGGAGGAGGAGGA
 GTCTGAGAGCCATGCATCTGAGGAGGAAGAGGAAGAGGAGGAAGAGGAGGAGGAGCTACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205220 representing NM_178051
 Red=Cloning site Green=Tags(s)

MASLGRQVPEWHRLALSWACLVRQTPHLREQKQMSPSL SCKLTTVPGRGSFQEFSSITPQKYMQEPENR
 TRLVQCLHEEQKPCVDPESELEPEKVIKSLQDMGFAEAHISLFSIQPSVHPQQLLGVSELLLLGLNPEP
 VFNALKKNPQLLKLSSMQMKRRSSYLRLKLGEGKLRVLSVCPEVFTMHQRDIDRVVVKVLRKCLFTAQ
 HITDVLHRCPTVLQEDPNELEYKFQYAYFRMGLTHLDIVRTNFLQYSITKIKQRHIYLERLGRYQTPDKK
 GQTQIPNPSLRNILRVSEAEFLARTACSSVEEFQVFKLLDQEEEESESHASEEEEEEEEEELL

TRTRPLE - GFP Tag - V

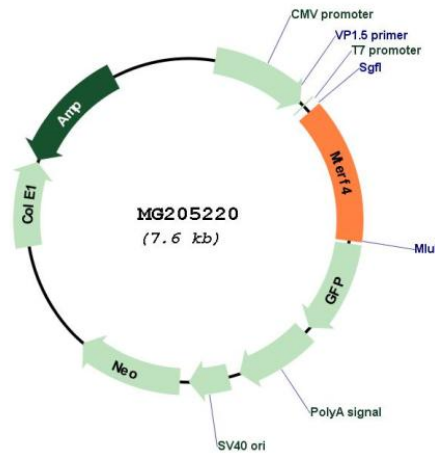
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_178051

ORF Size: 1038 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:	<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:	NM_178051.4 , NP_835152.1
RefSeq Size:	3315 bp
RefSeq ORF:	1041 bp
Locus ID:	69821
UniProt ID:	Q8BVN4
Cytogenetics:	1 D
Gene Summary:	Regulator of mitochondrial ribosome biogenesis and translation. Binds to mitochondrial ribosomal RNAs 16S, 12S and 7S (By similarity). Targets NSUN4 RNA methyltransferase to the mitochondrial large ribosomal subunit.[UniProtKB/Swiss-Prot Function]