

## Product datasheet for **MG201810**

### Mterfd2 (BC002280) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mterfd2 (BC002280) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Mterfd2  
**Synonyms:** 1810059A23Rik; 4933412H03Rik; Mterfd2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201810 representing BC002280  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGATGAAGAGGCGTTCAGTTACCTTCGGAAGCTTGGCCTTGAGAAAGGGAACTGAAGCGGGTGC  
TGTCGGTTTGCCTGAGTTTTCCACCATGCATCAGCGGGACATTGACCGAGTTGTGAAGTCCCTCAGGGA  
GAAGTGCTTGTTCACGGCACAGCACATCACAGACGTTCTGCACAGATGCCCCACTGTTTTGCAGGAGGAC  
CCCAACGAGCTAGAATACAAATCCAGTATGCATATTTCCAGGATGGACTCACACATCTAGACATAGTCA  
GGACGAATTTCTACAGTATTCAATAACCAAGATCAAGCAGAGACACATTTACCTGGAGCGCCTTGAGC  
GTACCAGACCCCTGATAAGAAGGGGACAGACAGATCCCTAATCCCTCACTGAGGAACATTCTCAGAGTT  
TCTGAAGCTGAGTTTTTGCCAGGACAGCCTGTTCTCTGTGAGGAGTTTCAAGTTTTTAAAAACTCT  
TGGATCAAGAGGAGGAGGAGGAGTCTGAGAGCCATGCATCTGAGGAGGAAGAGGAAGAGGAGGAAGGGA  
GGAGCTACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201810 representing BC002280  
Red=Cloning site Green=Tags(s)

MQMKRRSSYLRLGLGEGKLRVLSVCPEVFTMHQRDIDRVVVKVLRKCLFTAQHITDVLHRCPTVLQED  
PNELEYKFQYAYFRMGLTHLDIVRTNFLQYSITKIKQRHIYLERLGRYQTPDKKGQTQIPNPSLRNLRV  
SEAEFLARTACSSVEEFQVFKLLDQEEEESESHASEEEEEEEEEELL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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:** [BC002280](#), [AAH02280](#)

**RefSeq Size:** 964 bp

**RefSeq ORF:** 572 bp

**Locus ID:** 69821

**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]