

Product datasheet for MR201810

Mterfd2 (BC002280) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mterfd2 (BC002280) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mterfd2
Synonyms: 1810059A23Rik; 4933412H03Rik; Mterfd2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201810 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGATGAAGAGGCGTTCAGTTACCTTCGGAAGCTTGGCCTTGGAGAAGGGAACTGAAGCGGGTGC
 TGTCCGTTTGCCTGAGTTTTCCACATGCATCAGCGGGACATTGACCGAGTTGTGAAGTCTCAGGGA
 GAAGTGTGTTACGGCACAGCACATCACAGACGTTCTGCACAGATGCCCCACTGTTTTGCAGGAGGAC
 CCCAACGAGCTAGAATACAAATCCAGTATGCATATTTCCAGGATGGGACTCACACATCTAGACATAGTCA
 GGACGAATTTCTTACAGTATTCAATAACCAAGATCAAGCAGAGACACATTTACCTGGAGCGCCTTGGACG
 GTACCAGACCCCTGATAAGAAGGGGACAGACAGATCCCTAATCCCTCACTGAGGAACATTCTCAGAGTT
 TCTGAAGCTGAGTTTTTGGCCAGGACAGCCTGTTCTCTGTGAGGAGTTTCAAGTTTTTAAAAACTCT
 TGGATCAAGAGGAGGAGGAGGAGTCTGAGAGCCATGCATCTGAGGAGGAAGAGGAAGAGGAGGAAGGGA
 GGAGCTACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201810 protein sequence
 Red=Cloning site Green=Tags(s)

MQMKRRSSYLRLGLGEGKLRVLSVCPEVFTMHQRDIDRVVVKVLRKCLFTAQHITDVLHRCPTVLQED
 PNELEYKFQYAYFRMGLTHLDIVRTNLFQYSITIKQRHIYLERLGRYQTPDKKGQTQIPNPSLRNLRV
 SEAEFLARTACSSVEEFQVFKLLDQEEEESESHASEEEEEEEEEELL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC002280

ORF Size: 570 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: [BC002280](#), [AAH02280](#)

RefSeq Size: 964 bp

RefSeq ORF: 572 bp

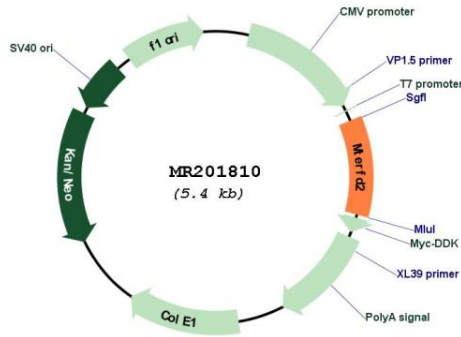
Locus ID: 69821

Cytogenetics: 1 D

MW: 22.6 kDa

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]

Product images:



Circular map for MR201810