

Product datasheet for **RG208837**

MTERFD2 (MTERF4) (NM_182501) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MTERFD2 (MTERF4) (NM_182501) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MTERFD2 |
| Synonyms: | MTERFD2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG208837 representing NM_182501 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGTTTCGGCCGTCAGGTCCTTGATTGGCACCGCCTGATCCCCCTCACCTGGGCCTGTATGGCTA
GGCAGACTCCTCATCTTGGAGAACAGAGAAGGACGACAGCTTCTTTGTTGCGCAAAGTACTACAGCCTC
CAATGGAGGGGTCATTGAGGAGTTATCTTGTTAGATCCAATACTATGTGCAGGAACAGAGTGCAGG
AGGAATCTTGTTGAGTGCCTCCTTGAGAAGCAGGGGACTCCTGTGTTACAAGGGTCTTGGAGCTAGAGA
GGGTCATGAGTCCCTCCTGGACATGGGTTTCAGCAATGCCATATTAATGAATTGCTCAGTGTACGGCG
AGGTGCCAGTCTCAACAGTTGCTGGACATCATTTCAGAAATTTCTCTTGGGTCTGAATCCAGAGCCT
GTGTGTGTGGTCTGAAGAAAAGTCCCCAGTTATTGAAACTGCCTATTATGCAAATGAGGAAGCGCTCCA
GTTACCTGCAAAAAGCTTGGGCTTGGAGAAGGAAATTAAGAGGGTGCTTTACTGTTGCCCTGAAATTTT
CACCATGCGCCAGCAGGACATTAACGACACTGTCAGGCTTCTCAAGGAGAAGTGCCTTTTACGGTACAG
CAAGTCACCAAGATTTTGCACAGTTGCCCTCTGTTCTTCGAGAGGACCTGGGTCAACTGGAATACAAGT
TTCAGTATGCATACTTCAGGATGGGAATTAAGCATCCAGACATTGTAAGAGTGAAGTACTGAGTATTC
ACTAACCAAGATTAAGCAGAGACACATTTACCTGGAGCGCCTGGGACGGTACCAAACCCCTGATAAGAAG
GGCAGACACAGATCCCTAACCCATTGCTCAAGGACATTCTCAGAGTTTCAGAAGCTGAGTTTTTGGCCA
GGACAGCCGTAATCTGTTGAGGAGTTTCAAGTTTTTAAGAAGCTCCTGGCTCGGGAGGAGGAGGATC
TGAGAGCAGCACATCTGATGACAAAAGGCAAGTCTGGATGAGGATGAGGATGACGATGATGAGGAGGAC
AATGATGAGGATGACAATGATGAGGATGACGATGATGAGGACGACGACGAGGCGGAGGACAATGATGAGG
ATGAGGACGACGACGAGGAGGAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208837 representing NM_182501
 Red=Cloning site Green=Tags(s)

MAAFGRQVLDPWHRLIPLTWACMARQTPHLGEQRRTTASLLRKLTTASNGGVIEELSCVRSNNYVQEP
 ECR RNLVQCLLEKQGTTPVVQGSLELERVMSSLLDMGFSNAHINELLSVRRGASLQQLLDIIESEFILLGLNPEP
 VCVVLLKSPQLLKLPIQMQRKSSYLQKLGLEGKLRVLYCCPEIFTMRQDINDTVRLLKEKCLFTVQ
 QVTKILHSCPSVLRDLGQLEYKFQYAYFRMGIKHPDIVKSEYLQYSLTKIKQRHIYLERLGRYQTPDKK
 GQTQIPNPLLKDILRVSEAEFLARTARTSVEEFQVFKLLAREEEEESESSTSDDKRASLDEDEDDEDEED
 NDEDDNDEDDDEDDDEAEDNDEDEDDEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182501

ORF Size: 1143 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: [NM_182501.2](#), [NP_872307.2](#)

RefSeq Size: 4545 bp

RefSeq ORF: 1146 bp

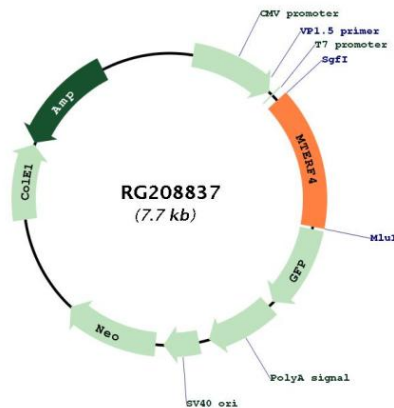
Locus ID: 130916

UniProt ID: [Q7Z6M4](#)

Cytogenetics: 2q37.3

Gene Summary: Regulator of mitochondrial ribosome biogenesis and translation. Binds to mitochondrial ribosomal RNAs 16S, 12S and 7S and targets NSUN4 RNA methyltransferase to the mitochondrial large ribosomal subunit (39S).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208837