

Product datasheet for **RG214531**

MTERF2 (NM_001033050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MTERF2
Synonyms:	MTERFD3; mTERFL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214531 representing NM_001033050
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGGAAGCTGCTGCTGAGATCCAGTCCTGCAGGCTGTGTTCTTTCAGAAAGATGCGATCACCTC
CAAAATACAGACCTTTCTTAGCATGCTTACCTATACAACGATAAACAGTCGAGCAAAGAAAATACAAG
AACAGTGGAAGCTCTATAAATGTCAGTTGACATTAGGAAAATTCGTAGATTAAGGATGGGTACTT
TTAGAGGATGAAACCTATGTTGAAGAAATTGCGAATATTTACAAGAACTAGGTGCCGATGAGACTGCTG
TAGCCAGTATTTTGAACGCTGCCGGAAGCAATTGTCTGTAGTCCAACCGCTGTTAACACCCAGAGAAA
ACTCTGGCAGTTGGTCTGCAAAAATGAGGAAGAGTTAATCAAGTTAATAGAGCAGTTTCCAGAATCTTTC
TTTACTATTAAGACCAAGAGAACCAGAAGCTGAATGTTTCAGTTCTTCAAGAGTTGGGACTAAAAATG
TGGTCATTAGCAGACTTTTGACAGCTGCACCTAATGTTTTTCATAATCCTGTTGAGAAGAATAAGCAAAT
GGTAAGAAATCTCCAAGAGAGTTATCTAGATGTAGGTGGCTCTGAGGCCAACATGAAAGTTTGGCTACTA
AAATGTTAAGCCAAACCCATTTATTTTGTAAATCTCCACAGCTATAAAGGAAACACTAGAATTTTC
TCCAGGAGCAAGGTTTACCAGCTTTGAAATCTCCAGCTTCTATCCAACTCAAAGGATTTCTTTTCA
ACTTTGCCCAAGAAGTATACAGAATAGTATTTCTTCTCTAAAAATGCTTTTAAATGCACAGATCATGAC
CTGAAGCAATTAGTTTGAATGTCTGCCCTTTTATATTATTCTGTTCCAGTTTGAAGAGAGAGATGC
AAGGATTATTGAGAGAAGGAATTTCCATAGCTCAGATAAGAGAGACGCCAATGGTTCTTGAATTAACACC
ACAGATAGTACAGTACAGGATAAGGAACTGAATTCCTCAGGCTACAGAATAAGGATGGACATCTAGCA
AATCTAAATGGATCAAAAAAGAGTTTGAAGCTAATTTGGCAAAATTCAGGCCAAAAAGTAAGGCCAT
TATTTAACCTGTGGCACCATTAAATGTTGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG214531 representing NM_001033050
Red=Cloning site Green=Tags(s)

MLWKLRLRSQSCRLCSFRKMRSPPKYRPFACFTYTTDKQSSKENTRTVEKLYKCSVDIRKIRRLKGWV
LEDETYVEEIANILQELGADETAVASILERCEAIVCSPTAVNTQRKLWQLVCKNEELIKLIEQFPESF
FTIKDQENQKLNQVFFQELGLKNVISRLLTAAPNVFHNPEKNQKQVIRILQESYLDVGGSEANMKVWLL
KLLSQNPFIILLNSPTAIKETLEFLQEQFTSFEILQLLSKLGFLFQLCPRSIQNSISFSKNAFKCTDHD
LKQLVLKCPALLYSVPLVEERMQGLLREGISIAQIRETPMVLELTPQIVQYRIRKLNSSGYRIKDGHLA
NLNGSKKEFEANFGKIQAQKVRPLFNPVAPLNVEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033050

ORF Size: 1155 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033050.3](#)

RefSeq Size: 1775 bp

RefSeq ORF: 1158 bp

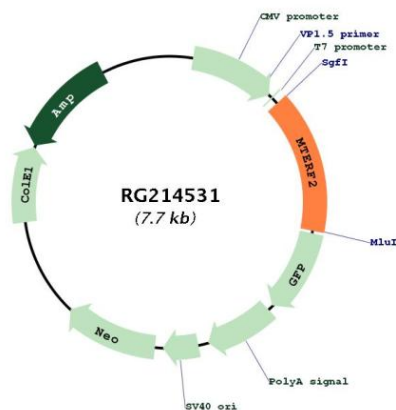
Locus ID: 80298

UniProt ID: [Q49AM1](#)

Cytogenetics: 12q23.3

Gene Summary: Binds mitochondrial DNA and plays a role in the regulation of transcription of mitochondrial mRNA and rRNA species.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214531