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Product datasheet for RG201030

MTERFD1 (MTERF3) (NM_015942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTERFD1 (MTERF3) (NM_015942) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTERFD1
Synonyms:	CGI-12; MTERFD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201030 representing NM_015942
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTGTCAGCCCAACAGATACCCAGATGGTTTAACTCAGTTAAGTTGAGGAGCCTCATTAATGCTG
CACAACTCACAAAACGTTTTACTAGACCAGCAAGAACACTGTTACATGGCTTTTCTGCTCAGCCTCAGAT
ATCCTCTGACAATTGCTTTCTCCAGTGGGGATTTAAGACTTACAGGACTTCCTCCTTATGGAATAGTTCC
CAGTCTACTAGCTCAAGTAGTCAGGAGAATAATTCTGCCCAAAGCAGTCTGCTTCCTTCCATGAATGAAC
AGTCACAGAAGACACAAAATATATCCAGCTTTGATTCTGAGCTGTTTCTAGAAGAACTGGATGAATTGCC
TCCATTGTCTCCAATGCAGCCAATTTCAGAGGAAGAGGCTATTCAGATTATTGCAGACCCTCCATTGCCA
CCAGCTTCATTCACACTTCGAGACTATGTGGATCATTCTGAGACTCTGCAGAAGTTGGTTCTTCTAGGCG
TGGATTTGTCCAAGATAGAAAAACATCCAGAAGCAGCAAACCTCCTTCTGAGACTGGATTTTGAAAAAGA
CATTAAGCAAATGCTTCTGTTTCTTAAAGATGTGGGTATAGAGGATAACCAACTGGGAGCATTCCTGACA
AAAAATCATGCAATTTTCTCTGAAGACCTTGAAAATCTGAAGACCAGGGTGGCTTATCTGCATTCAAAAA
ATTTCAGTAAAGCAGATGTTGCACAGATGGTCAGAAAAGCACCATTTTTGCTGAACTTTTCAGTGGAAAG
ACTGGATAACAGATTGGGATTTTTTCAGAAAGAACTTGAACTTAGTGTGAAGAAGACTAGAGATCTGGTA
GTTCGTCTCCCAAGGCTGCTAACTGGAAGTCTGGAACCCGTGAAAGAAAATATGAAGGTTTATCGTCTTG
AACTTGGTTTTAAACATAACGAAATTCAACATATGATCACCAGAATCCCAAAGATGTTAACTGCAAATAA
AATGAAACTTACCGAGACGTTTGATTTTGTGCACAATGTGATGAGCATTCCCCACCACATCATTGTCAAG
TTCCCACAGGTATTTAATACAAGGCTGTTTAAGGTCAAAGAAAGACACTTGTTTCTTACCTATTTAGGAA
GAGCACAGTATGATCCAGCAAAACCTAACTACATCTCTTTGGACAAACTAGTATCTATTCCTGATGAAAT
ATTTTGTGAAGAGATTGCCAAAGCATCAGTACAGGACTTTGAAAAATTCTTAAAAACGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

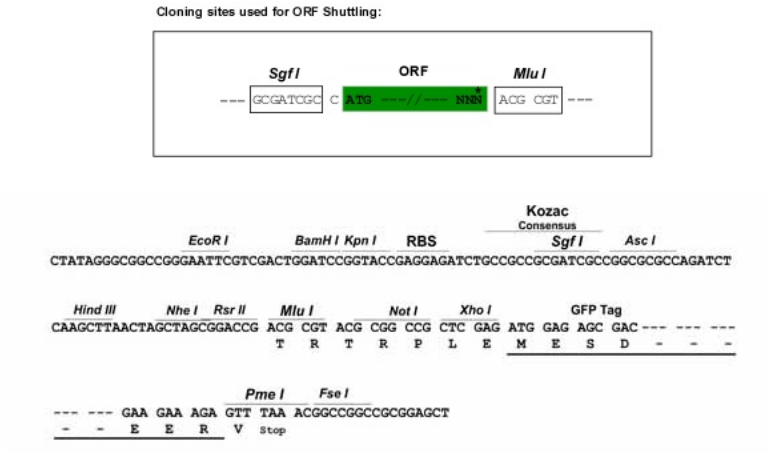
>RG201030 representing NM_015942
Red=Cloning site Green=Tags(s)

MALSAQQIPRWFNSVKLRSLINAAQLTKRFTRPARTLLHGFSAQPQISSDNCFLQWGFKTYRTSSLWNSS
QSTSSSSQENNSAQSSLLPSMNEQSQKTQNISSFDSELFLEELDELPPLSPMQPISEEEAIQIIADPPLP
PASFTLRDYVDHSETLQKLVLLGVDLSKIEKHPEAANLLLRLDFEKDIKQMLLFLKDVGIEDNQLGAFLT
KNHAIFSEDLENLKTRVAYLHSKNFSKADVAQMVRKAPFLLNFSVERLDNRLGFFQKELELSVKKTRDLV
VRLPRLLTGSLEPVKENMKVYRLELGFKHNEIQHMITRIPKMLTANKMKLTETFDFVHNVMSIPHHIIVK
FPQVFNTRLFKVKERHLFLTYLGRAQYDPAKPNYISLDKLVSIPDEIFCEEIAKASVQDFEKFLKTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015942

ORF Size: 1251 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_015942.5

RefSeq Size: 1424 bp

RefSeq ORF: 1254 bp

Locus ID: 51001

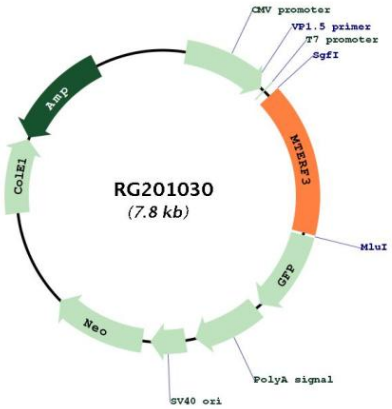
UniProt ID: Q96E29

Cytogenetics: 8q22.1

Domains: Mterf

Gene Summary: Binds promoter DNA and regulates initiation of transcription (PubMed:17662942). Required for normal mitochondrial transcription and translation, and for normal assembly of mitochondrial respiratory complexes. Required for normal mitochondrial function (By similarity). Maintains 16S rRNA levels and functions in mitochondrial ribosome assembly by regulating the biogenesis of the 39S ribosomal subunit (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201030