

## Product datasheet for **RG237853**

### MTERF (MTERF1) (NM\_001301135) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTERF (MTERF1) (NM_001301135) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTERF
Synonyms:	MTERF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237853 representing NM_001301135. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCACCAGGAAACCTCTGGCATATGAGAAATACTTTCTTTGGTTCAAGATGTTGGATGACTCGA
TTTTTCAGCAGAAAACATCTTCAAATCAGTTTCATTTAGGCTTTTTGGTGTGAAGTGTCAATAACAGAC
AGTGAGCCTTTGAAAAATGAGGACCTACTGAAAACTTACTTACTATGGGAGTAGATATTGACATGGCA
AGGAAACGACAGCCTGGAGTTTTTCATAGGATGATTACCAATGAGCAGGACCTGAAGATGTTCTTCTT
TCCAAAGGAGCTAGCAAAGAAGTGATCGCTAGCATCATATCAAGATATCCACGAGCAATAACACGTA
CCCGAGAATCTTTCAAACGGTGGGATCTGTGGAGAAAGATTGTGACATCAGACCTTGAATTTGTAAT
ATTTTGAACGTTCTCCTGAATCCTTTTTTCGGTCCAATAACAACCTAACTTAGAGAATAATATAAAG
TTCTCTACTCAGTTGGATTGACCCGTAATGCCTTTGTGCGATTGTTGACCAATGCCCTCGTACCTTC
TCCAATAGTCTTGATCTGAATAACAGATGGTTGAATTTTTGCAGGCAGCCGGTTTGTGATTGGGTCAC
AATGATCCCGCAGATTTTGTGAGAAAGATAATTTTTAAAAACCTTTTATCTTAATTCAGAGCACCAG
CGGGTGAAGCTAACATTGAATTTTACGGTCACTTTCAATTTGAACAGTGAGGAACGCTGTTGTTCTG
ATATGTGGTCCAGGAGCTGAAATCCTAGACCTTCCAATGACTATGCCAGAAGAAGCTACGCAAAACATC
AAAGAGAAGCTGTTTTCTTTGGATGTACTGAAGAAGAGGTACAGAAGTTTGTCTTAAGCTATCCAGAT
GTGATCTTTGGCAGAGAAAAAGTTAATGATAAAATAGACTGCCTCATGGAAGAAAACATTAGCATT
TCACAAATAATCGAAAAATCCTCGGGTCTGGATTCAAGCATAAGTACTTTAAAAAGTCGAATCAAAGAA
TTGGTAAATGCTGGCTGTAACCTGAGTACTTTAAACATCACTCTTCTATCTTGGAGTAAAAAAGATAT
GAAGCTAAATTGAAAAAGTTAAGCAGATTTGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237853  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAPGNLWHRNNFLFGSRCWMTRFSAENIFKSVSFRLFGVKCHNTDSEPLKNEDLLKNLLTMGVDIDMA  
 RKRQPGVFHRMITNEQDLKMFLLSGKASKEVIASIIISRYPRAITRTPENLSKRWDLWRKI VTS DLEIVN  
 ILERSPEFFRSNNLNLNENNIKFLYSVGLTRKCLCRLLTNAPRTFSNSLDLNKQMVFLQAAGLSLGH  
 NDPADFVRKIIIFKNPFIILIQSTKRVKANIEFLRSTFNLNSEELLVLICGPGAELDLSDNYARRSYANI  
 KEKLFSLGCTEEEVQKFVLSYDPVIFLAEKKFNDKIDCLMEENISISQI IENPRVLDSSISTLKSRIKE  
 LVNAGCNLSTLNIITLLSWSKKRYEAKLKKLSRFA  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301135

**ORF Size:** 1137 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).

**RefSeq:** [NM\\_001301135.2](#)

**RefSeq Size:** 2128 bp

RefSeq ORF: 1140 bp

Locus ID: 7978

UniProt ID: [Q99551](#)

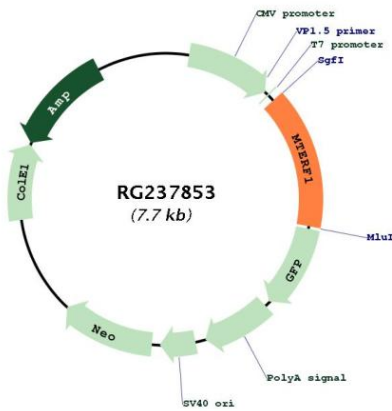
Cytogenetics: 7q21.2

Protein Families: Transcription Factors

MW: 44.1 kDa

**Gene Summary:** This gene encodes a mitochondrial transcription termination factor. This protein participates in attenuating transcription from the mitochondrial genome; this attenuation allows higher levels of expression of 16S ribosomal RNA relative to the tRNA gene downstream. The product of this gene has three leucine zipper motifs bracketed by two basic domains that are all required for DNA binding. There is evidence that, for this protein, the zippers participate in intramolecular interactions that establish the three-dimensional structure required for DNA binding. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG237853