

## **Product datasheet for RG233462**

## mtTFA (TFAM) (NM 001270782) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: mtTFA (TFAM) (NM\_001270782) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: mtTFA

Synonyms: MTDPS15; MTTF1; MTTFA; TCF6; TCF6L1; TCF6L2; TCF6L3

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG233462 representing NM\_001270782 Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

**GCTGAGGAGTGT** 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Protein Sequence: >RG233462 representing NM\_001270782

Red=Cloning site Green=Tags(s)

MAFLRSMWGVLSALGRSGAELCTGCGSRLRSPFSFVYLPRWFSSVLASCPKKPVSSYLRFSKEQLPIFKA QNPDAKTTELIRRIAQRWRELPDSKKKIYQDAYRAEWQVYKEEISRFKEQLTPSQIMSLEKEIMDKHLKR KAMTKKKEKLKTVKENWKNLSDSEKELYIQHAKEDETRYHNEMKSWEEQMIEVGRKDLLRRTIKKQRKYG AEEC

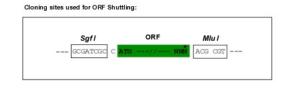
AEEC

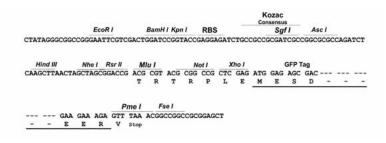
TRTRPLE - GFP Tag - V

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_001270782

ORF Size: 642 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: <u>NM 001270782.1</u>, <u>NP 001257711.1</u>

 RefSeq Size:
 5223 bp

 RefSeq ORF:
 645 bp

 Locus ID:
 7019

 UniProt ID:
 Q00059

 Cytogenetics:
 10q21.1

**Protein Families:** Druggable Genome, Transcription Factors

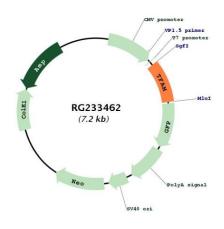
**Protein Pathways:** Huntington's disease

**Gene Summary:** This gene encodes a key mitochondrial transcription factor containing two high mobility

group motifs. The encoded protein also functions in mitochondrial DNA replication and repair. Sequence polymorphisms in this gene are associated with Alzheimer's and Parkinson's diseases. There are pseudogenes for this gene on chromosomes 6, 7, and 11. Alternative

splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

## **Product images:**



Circular map for RG233462