

Product datasheet for **SC333002**

mtTFA (TFAM) (NM_001270782) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: mtTFA (TFAM) (NM_001270782) Human Untagged Clone
Tag: Tag Free
Symbol: mtTFA
Synonyms: MTDP515; MTTF1; MTTFA; TCF6; TCF6L1; TCF6L2; TCF6L3
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333002 representing NM_001270782.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGTTTCTCCGAAGCATGTGGGCGTGCTGAGTGCCCTGGGAAGTCTGGAGCAGAGCTGTGCACC
GGCTGTGGAAGTCGACTGCGCTCCCTTCAGTTTTGTGATTTACCGAGGTGGTTTTTCATCTGTCTTG
GCAAGTTGTCCAAAGAACCTGTAAGTTCTTACCTTCGATTTCTAAAGAACAACACCCATATTTAAA
GCTCAGAACCCAGATGCAAAAACACAGAACTAATTAGAAGAATTGCCAGCGTTGGAGGGAACCTCCT
GATTCAAAGAAAAAATATATCAAGATGCTTATAGGGCGGAGTGGCAGGTATATAAGAAGAGATAAGC
AGATTTAAAGAACAGCTAACTCCAAGTCAGATTATGTCTTTGGAAAAAGAAATCATGGACAAACATTTA
AAAAGGAAAGCTATGACAAAAAAGAAAGCTGAAGACTGTAAGGAAAACCTGGAAAAATCTGTCT
GACTCTGAAAAGGAATTATATTCAGCATGCTAAAGAGGACGAACTCGTTATCATAATGAAATGAAG
TCTTGGGAAAGCAAAATGATTGAAGTTGGACGAAAGGATCTTCTACGTCGCACAATAAAGAAACAACGA
AAATATGGTGCTGAGGAGTGTAA
```

Restriction Sites: Sgfl-Mlul
ACCN: NM_001270782
Insert Size: 645 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_001270782.1](#)

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

MW: 25.5 kDa

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]
Transcript Variant: This variant (2, also known as tr6 or delta 5TFam) lacks an exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.