

## General Information

**Gene Name:**

transcription factor A, mitochondrial

**Official Symbol:** TFAM**Organism:** Homo sapiens**RefSeq:** NM\_003201

## Description

**Sequence Description:**

Identical with the Gene Bank Ref. ID sequence.

**Vector:** pOTENT-1

**Note: using kanamycin at 25~30 ug/ml, higher concentration may lead to no bacteria clones.**

**Restriction Sites:****Shipping carrier:**

Each tube contains approximately 5 µg - 10 µg of lyophilized plasmid.

**Storage:**

The lyophilized plasmid can be stored at ambient temperature for three months.

**Quality control:**

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

**Sequencing primer list:****pOT-F:**TAATAGTAATCAATTACGGG**pOT-R:**CCTCTACAAATGTGGTATGGC

## Plasmid Resuspension protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add 20 µl 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 to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 °C.

**The plasmid is ready for:**

Restriction enzyme digestion; PCR amplification; E. coli transformation; DNA sequencing

**E.coli strains for transformation (recommended but not limited):**

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5α and TOP10F'.

## Vector Information

ORFs cloned in this vector will be expressed in mammalian cells as a tagged protein with the C-terminal FLAG-6 His tags.

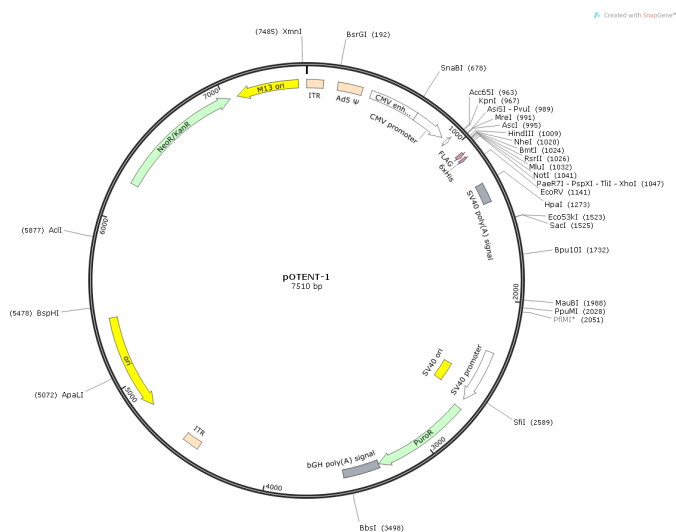
Such clones are the best for detection and purification of the transgene using anti-FLAG or anti-His antibodies.

**Physical Map of pOTENT-1:**

# Human TFAM (NM\_003201) cDNA/ORF clone



Catalog Number: 711498-6



Vector Name	pTENT-1
Vector Size	7510 bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Neomycin
Protein Tag	FLAG, 6 His