

## Recombinant Human TFAM Protein, His/GST-tagged

Cat. No. TFAM-654H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant Human TFAM(Ser43~Cys246) fused with His/GST tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Ser43~Cys246                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 51.4kDa                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 98%                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

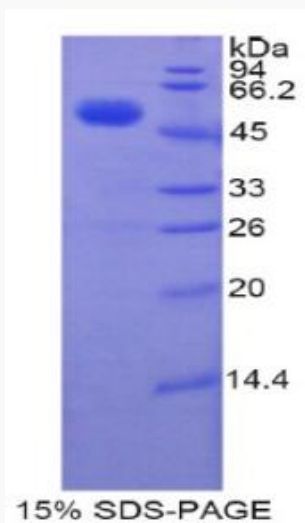
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TFAM transcription factor A, mitochondrial [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | TFAM                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | TFAM; transcription factor A, mitochondrial; TCF6, TCF6L2; TCF-6; transcription factor 6; mitochondrial transcription factor 1; mitochondrial transcription factor A; Transcription factor 6-like 2 (mitochondrial transcription factor); TCF6; MtTF1; mtTFA; TCF6L1; TCF6L2; TCF6L3; |
| <b>Gene ID</b>         | 7019                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_003201                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_003192                                                                                                                                                                                                                                                                             |
| <b>MIM</b>             | 600438                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>      | Q00059                                                                                                                                                                                                                                                                                |

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