



# Recombinant Mouse Transcription factor A, mitochondrial (Tfam)

<b>Product Code</b>	CSB-YP023413MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P40630
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SSMGSYPK KPMSSYLRFSS TEQLPKFKAK HPDAKLSELV RKIAALWREL PEAEKKVYEA DFKAEWKAYK EAVSKYKEQL TPSQLMGMEK EARQRRLKKK ALVKRRELIL LGKPKRPRSA YNIYVSESFQ EAKDDSAQGK LKLVNEAWKN LSPEEKQAYI QLAKDDIRY DNEMKSWEEQ MAEVGRSDLI RRSVKRSGDI SEH
<b>Source</b>	Yeast
<b>Target Names</b>	Tfam
<b>Protein Names</b>	Recommended name: Transcription factor A, mitochondrial Short name= mtTFA Alternative name(s): Testis-specific high mobility group protein Short name= TS-HMG
<b>Expression Region</b>	43-243
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. Studies in mice have demonstrated that this gene product is required to regulate the mitochondrial genome copy number and is essential for embryonic development. A mouse model for Kearns-Sayre syndrome was produced when expression of this gene was eliminated by targeted disruption in heart and muscle cells.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.