

## Product datasheet for TR502265

## **Tfam Mouse shRNA Plasmid (Locus ID 21780)**

## **Product data:**

**Product Type:** shRNA Plasmids

**Product Name:** Tfam Mouse shRNA Plasmid (Locus ID 21780)

Locus ID:

Al661103; Hmgts; mtTFA; tsHMG Synonyms:

Vector: pRS (TR20003)

E. coli Selection: Ampicillin Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Tfam - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

21780). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

BC001987, BC083084, NM 009360, NM 009360.1, NM 009360.2, NM 009360.3, NM 009360.4 RefSeq:

**UniProt ID:** P40630

Isoform Mitochondrial binds to the mitochondrial light strand promoter and functions in **Summary:** 

mitochondrial transcription regulation. Required for accurate and efficient promoter

recognition by the mitochondrial RNA polymerase. Promotes transcription initiation from the HSP1 and the light strand promoter by binding immediately upstream of transcriptional start sites. Is able to unwind DNA. Bends the mitochondrial light strand promoter DNA into a Uturn shape via its HMG boxes. Required for maintenance of normal levels of mitochondrial DNA. May play a role in organizing and compacting mitochondrial DNA. Isoform Nuclear may also function as a transcriptional activator or may have a structural role in the compaction of

nuclear DNA during spermatogenesis.[UniProtKB/Swiss-Prot Function]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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## Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).