

## Product datasheet for MC202747

### Tfam (NM\_009360) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tfam (NM\_009360) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tfam  
**Synonyms:** A1661103; Hmgt5; mtTFA; tsHMG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC083084 sequence for NM\_009360  
 GCCCCCGAGTCCCACGCTGGTAGTGTGGCAGTCCATAGGCACCGTATTGCGTGAGACGAACCGGACGG  
 CGCCGGGCCATCATTTCGTCGGCCGAGCGATGGCGCTGTCCGGGGAATGTGGAGCGTGCTAAAAGCACT  
 GGGCGCACGGGGTTCGAGATGTGCGCGGGCTGCGGGGGTTCGCATCCCCTCGTCTATCAGTCTTGCTGT  
 ATTCCGAAGTGTTCAGCATGGGTAGCTATCCAAAGAAACCTATGAGTTCATACCTTCGATTTTCCA  
 CAGAACAGCTACCCAAATTTAAAGCTAAACACCCAGATGCAAACTTTTCAAGATTGGTTAGGAAAATTGC  
 AGCCCTGTGGAGGGAGCTACCAGAAGCAGAAAAAAGGTTTATGAAGCTGATTTTAAAGCTGAGTGGAAA  
 GCATACAAAGAAGCTGTGAGCAAGTATAAAGAGCAGCTAACTCCAAGTCAGCTGATGGGTATGGAGAAGG  
 AGGCCCGCAGAGACGGTTAAAAAAGAAAGCACTGGTAAAGAGAAGAGAATTAATTTTGGTTGGAAAACC  
 AAAAAGACCTCGTTCAGCATATAACATTTATGTATCTGAAAGCTTCCAGGAGGCAAGGATGATTCGGCT  
 CAGGGAAAATTGAAGCTTGTAAATGAGGCTTGGAAAAATCTGTCTCCTGAGGAAAAGCAGGCATATATTC  
 AGCTTGCTAAAGATGATAGGATTCGTTACGACAATGAAATGAAGTCTTGGGAAGAGCAGATGGCTGAAGT  
 TGGACGAAGTGTCTCATCCGTCGAAGTGTGAAACGATCCGGAGACATCTCTGAGCATTAAAGATGGAAGA  
 CGGAGTTGTCAATGGGATTAGGCCCAAGAAACCAGTTAGGTCTCAAAGCCTTAAAGTGTCAAACCTAGAAC  
 GGATAAAGGTGGTTAACCTTTGACATTCAGATCATTTTCTGTAGCCATGGACTTTCTGTTAATACTTTG  
 AGCCTTGACAGAAGATGATGCTGAGTTCGCTTTTGTGTTAAGAACTGGAACGGAGACTGTCCATGCATC  
 TGCATGCAGTGGTGAATCATTCTGCATTTGATGGGCTAGATAGACTGTGAAGTGAATTTACACTGGTGA  
 CAGTTGTGTGGTGGTTTTGTGATGTTTTTACACTGATGACCGTTACATATGGGTGTGGCCCTTGGGTCCC  
 AGGCCGGACCTGCTCTCCAGCTGTGGCAGAGCTGTGGATAACTGCATTTTCAAAGAAGCTGCCAGGCTT  
 TCCTAGATGAAATGATTCCTAGACATAAATCATGTGTAAGTTGATGTTTGTATATAATAAGCGATTGCTG  
 ATGTCCTGATAGCATTTTATAGTAGTAACAGAGATTTACACATCTTTCTCAAATTAAGAAATTATGTA  
 CCAAGTCTATGCATAGGTTTTTCTGCATAGAATAAAACTCTAATTTTCAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_009360  
**Insert Size:** 732 bp



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">BC083084</a> , <a href="#">AAH83084</a>  |
| <b>RefSeq Size:</b>           | 1466 bp  |
| <b>RefSeq ORF:</b>            | 732 bp   |
| <b>Locus ID:</b>              | 21780  |
| <b>UniProt ID:</b>            | <a href="#">P40630</a>   |
| <b>Cytogenetics:</b>          | 10 36.83 cM  |
| <b>Gene Summary:</b>          | Isoform Mitochondrial binds to the mitochondrial light strand promoter and functions in 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 U-turn 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] |