

Product datasheet for **MG200306**

Timm10b (NM_019502) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Timm10b

Synonyms: Fxc1; Tim9b; Tim10b

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG200306 representing NM_019502
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCAGCAGCAACTGAGAACTTGCAGACTTCTGTGGTCTACAATCGGATGACAGAAC
TGTGTTCCAGCGCTGTGTGCCAGCCTGCACCACCGAGCTCTGGACGCTGAGGAGGAGGCCTGCCTGCA
CAGCTGTGCTGGGAACTCATCCATTCTAACCACCGCCTCATGGCCGCTTACGTGCACCTCATGCCCGCC
CTGGTCCAGCGCCGCATCGCGGACTACGAGGCTGCCTCGCCCGCCAGGTATTCTGCAGAACAGACCA
GAGACTCGCCATCAGGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200306 representing NM_019502
Red=Cloning site Green=Tags(s)

MEQQQQQLRNLRFLLVYNRMTELCFQRCVPSLHHRALDAEEEEACLHSCAGKLIHNSHRLMAAYVHLMPA
LVQRRIADYEASAAPGIPAEQTRDSPSGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_019502

ORF Size: 300 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

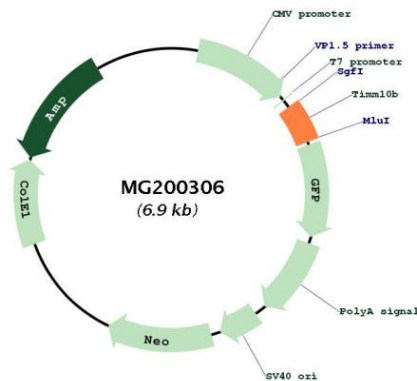
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul 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 (less than 5000xg) to concentrate the liquid at the bottom.
 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_019502.3
RefSeq Size:	1013 bp
RefSeq ORF:	303 bp
Locus ID:	14356
UniProt ID:	Q9WV96
Cytogenetics:	7 E3

Gene Summary: Component of the TIM22 complex, a complex that mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. The TIM22 complex forms a twin-pore translocase that uses the membrane potential as the external driving force. In the TIM22 complex, it may act as a docking point for the soluble 70 kDa complex that guides the target proteins in transit through the aqueous mitochondrial intermembrane space. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200306