

Product datasheet for **MG200281**

Timm8a1 (NM_013898) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Timm8a1 (NM_013898) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Timm8a1
Synonyms: Ddp1; DXHXS1274E; Fci-12; Tim8a; Timm8a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200281 representing NM_013898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCCTCCACGTCCTCTTCGGGCTCGGCTCTGGGCGCGGTGGACCCTCAGTTGCAGCATTTTCATCG
 AGGTGGAGACGCAGAAGCAGCGCTTCCAGCAGCTGGTGCACCAGATGACGGAACCTTGTGGGAGAAGTG
 CATGGATAAGCCTGGCCTAAGTTGGACAGTCGGGCTGAGGCTGTTTTGTGAAGTGCCTTGAACGCTTC
 ATTGATACAAGCCAATTCATCTTAAATCGACTGGAACAGACCCAGAAGTCCAACCCGCTTCTCAGAAA
 GCCTTTCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200281 representing NM_013898
 Red=Cloning site Green=Tags(s)
 MESSTSSSGSALGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERF
 IDTSQFILNRLEQTQKSKPVFSESLSD

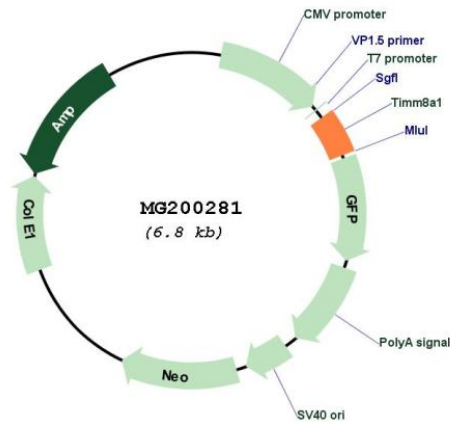
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_013898

ORF Size: 291 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:	<ol style="list-style-type: none">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.
RefSeq:	NM_013898.1 , NP_038926.1
RefSeq Size:	1196 bp
RefSeq ORF:	294 bp
Locus ID:	30058
UniProt ID:	Q9WVA2
Cytogenetics:	X 56.18 cM
Gene Summary:	Mitochondrial intermembrane chaperone that participates in the import and insertion of some multi-pass transmembrane proteins into the mitochondrial inner membrane. Also required for the transfer of beta-barrel precursors from the TOM complex to the sorting and assembly machinery (SAM complex) of the outer membrane. Acts as a chaperone-like protein that protects the hydrophobic precursors from aggregation and guide them through the mitochondrial intermembrane space. The TIMM8-TIMM13 complex mediates the import of proteins such as TIMM23, SLC25A12/ARALAR1 and SLC25A13/ARALAR2, while the predominant TIMM9-TIMM10 70 kDa complex mediates the import of much more proteins (By similarity).[UniProtKB/Swiss-Prot Function]