

Product datasheet for **RG200800**

MTX1 (NM_198883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MTX1
Synonyms:	MTX; MTXN
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200800 representing NM_198883
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTCGGGGACCCCCCGCAGTCCCCGCTCGGGGACGAGCCCCAAGGGGCCCTGGAGCAGTACAG
GCCACGTGCAGTTTGGCAAGAGCCCCAGACCTGGCCAGGCGCACAAGACCCCGCTCTCCAGAGCCTGC
CGCGCTTCAGGGGTTTCGGGGCTCCACTTGGACGAGGCGCGCTGACTCTCCGAGGCGCGCCGGGCCGACA
GCGCTGTCCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCCTCCCCGAGGCCCGCGGCCAG
TCCCCCGCAGTTACGTGCCAGTCCGGCCAGAAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGGCCCCCT
GACCGCAACGATCGGAGGGGCGGTGGCGGGGGCGGGCCAGGCAGGGGAGGGCAGAAGCACACAAGGAA
GTGTTTCCGGGACAGAGGTGGCAAGATGGCGCGCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGG
GGCTGCCGTCACTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTCTCCACTGAA
GGTACACAAGATCAGCAACCCCTGGCAGAGCCCTTCAGGAACCTCTGCCTGCCCTTCGACCAAGTCATGGA
GAGGTCACTCAGTTCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTGGATAGACA
CCAAGAAGTACGTGGAAGTGACCCGGAAGTGGTATGCAGAGGCTATGCCCTTTCCCTCACTTCTTCTCT
GCCTGGCCGCATGCAGCGGCAGTACATGGAACGGCTACAGCTGCTGACTGGGAGCACAGGCCTGAGGAC
GAGGAAGAGCTGGAGAAGGAGCTGTACCGAGAGGCTCGGGAGTGTCTGACCTGCTCTCAGCGCTGG
GCTCTCAAAAGTTCTTCTTTGGAGATGCCCTGCCTCCTTGACGCTTCTGCTTCTCAGCTACTTGGCCCT
GCTGCTGCAGGCAAGCTGCCAGTGGGAAGCTGCAGGTCCACCTGCGTGGGCTGCACAACCTCTGTGCC
TATTGTACCCACATTCTAGTCTCTACTTCCCCTGGGATGGAGCTGAGGTACCACCGCAACGCCAGACAC
CAGCAGGCCCAGAGACTGAGGAGGAGCCATACCGCGCCGGAACCAAGATCCTATCTGTGCTGGCAGGACT
GGCAGCCATGGTGGGCTACGCCTTGTCTCAGCGGCAATTGTCTCCATCCAGCGGGCAACGCCTGCTCGGGCC
CCAGGCACCCGACCCTGGGCATGGCTGAGGAGGATGAAGAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



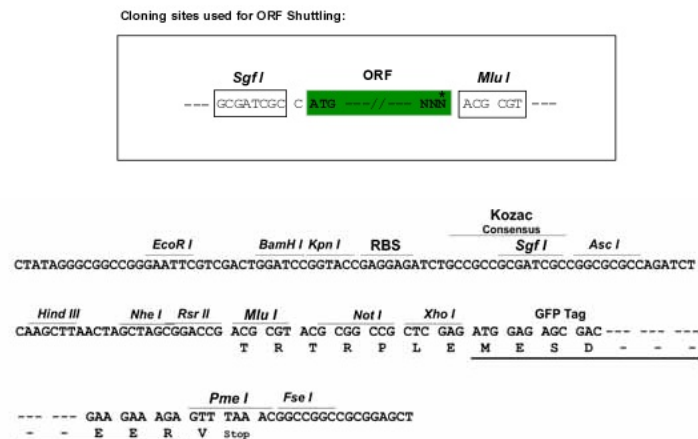
Protein Sequence: >RG200800 representing NM_198883
 Red=Cloning site Green=Tags(s)

MLLGPPRSPRSGTSPKGPWSSTGHVQFGKSPQTWPRRTPRSPPEAAPSGVRGSTWTRRRDSPRRAGPT
 ALSRYVGHLMGRPPSPPEARGPVPRSSAASRRRSLASPGISPGPLTATIGGAVAGGGPRQGRAEAKHE
 VFPQQRVGKMAAPMELFCWSGGWGLPSVDLDSLAVLTYARFTGAPLKVKHISNPWQSPSGTLPALRTSHG
 EVISVPHKIITHLRKEVHTFWIDTKNYVEVTRKWEAEAMPFPLNFFLPGRMQRYMERLQLLTGEHRPED
 EEELEKELYREARECLTLLSQRLGSQKFFFGDAPASLDAFVFSYLALLQAKLP SGKLVHRLRGLHNLCA
 YCTHILSLYFPWDGAIEVPPQRQTPAGPETEEEEPYRRRNQILSVLAGLAAMVGYALLSGIVSIQRATPARA
 PGTRTLGMAEEDEEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198883

ORF Size: 1305 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_198883.3](#)

RefSeq Size: 1552 bp

RefSeq ORF: 1308 bp

Locus ID: 4580

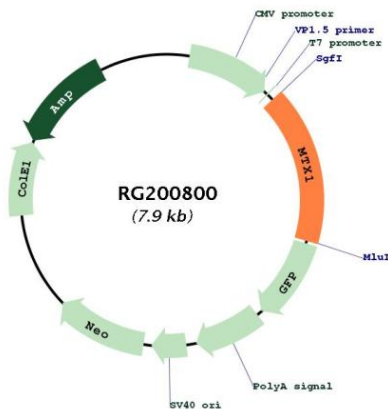
UniProt ID: [Q13505](#)

Cytogenetics: 1q22

Protein Families: Transmembrane

Gene Summary: Involved in transport of proteins into the mitochondrion. Essential for embryonic development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200800