

Product datasheet for **RG205693**

MTX2 (NM_001006635) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | MTX2 (NM_001006635) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MTX2 |
| Synonyms: | MDPS; metaxin-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG205693 representing NM_001006635 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATATAGCTGCAGAACCTTGGCCTGAAAATGCTACATTATATCAGCAATTGAAAGGGGAGCAAATTT
TACTTTCTGACAATGCAGCTTCTTTCAGTGCAGGCCTTTTGGCAAATGTGTAACCTGCCTATCAAAGT
AGTTTGTAGGGCAAATGCAGAAATATATGTCTCCATCTGGTAAAGTACCTTTTATTCATGTGGAAATCAA
GTAGTATCAGAACTTGGTCCAATAGTCCAATTTGTTAAAGCCAAGGCCATTCTCTTAGTGATGGGCTGG
AGGAAGTCCAAAAGCAGAAATGAAAGCTTACATGGAATTAGTCAACAATATGCTGTTGACTGCAGAGCT
GTATCTTCAGTGGTGTGATGAAGCTACAGTAGGGGAGATCACTCATGCTAGGTATGGATCTCCTTACCCT
TGGCCTCTGAATCATATTTTGGCCTATCAAAAACAGTGGGAAGTCAAACGTAAGATGAAAGCTATTGGAT
GGGAAAGAAGACTCTGGACCAGGTCTTAGAGGATGTAGACCAGTGTGTCAAGCTCTCTCTCAAAGACT
GGGAACACAACCGTATTTCTTCAATAAGCAGCCTACTGAAGTGGACGACTGGTATTTGGCCATCTATAC
ACCATTCTTACCACAAATTGACAAATGATGAAGTCTGAGAAGGTGAAAACTATAGCAAACCTCCTTG
CTTCTGTAGGAGAATTGAACAGCACTATTTTGAAGATCGTGGTAAAGGCAGGCTGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205693 representing NM_001006635
Red=Cloning site Green=Tags(s)

MYIAAEPWENATLYQQLKGEQILLSDNAASLAVQAFLQMCNLPKVVCRANA EYMSPSGKVPFIHVGNO
 VVSELGPVIVQFVKAKGHSLSDGLEEVQKAEMKAYMELVNNMLLTAEYLQWCDEATVGEITHARYGSPYP
 WPLNHILAYQKQWEVKRKMKAIGWGKKTLDQVLEDVDQCCQALSQRLGTQPYFFNKQPTELDALVFGHLY
 TILTTQLTNDLSEKVKNYSNLLAFCCRRIEQHYFEDRGKGRLS

TRTRPLE - GFP Tag - V

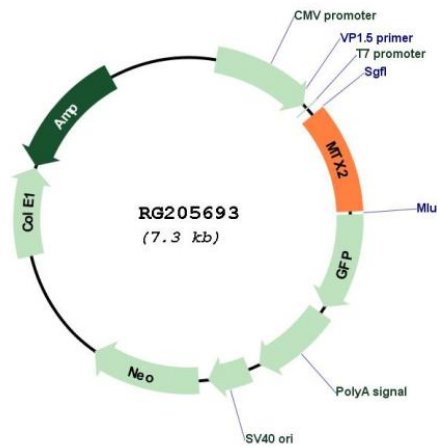
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001006635

ORF Size: 759 bp

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| 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_001006635.3 |
| RefSeq Size: | 1589 bp |
| RefSeq ORF: | 762 bp |
| Locus ID: | 10651 |
| UniProt ID: | O75431 |
| Cytogenetics: | 2q31.1 |
| Gene Summary: | The protein encoded by this gene is highly similar to the metaxin 2 protein from mouse, which has been shown to interact with the mitochondrial membrane protein metaxin 1. Because of this similarity, it is thought that the encoded protein is peripherally associated with the cytosolic face of the outer mitochondrial membrane, and that it is involved in the import of proteins into the mitochondrion. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 7. [provided by RefSeq, Jun 2009] |