

Product datasheet for **RG227028**

TMX2 (NM_001144012) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TMX2 (NM_001144012) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TMX2 |
| Synonyms: | CGI-31; NEDMCMS; PDIA12; PIG26; TXNDC14 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG227028 representing NM_001144012 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCTTGGCACCTCTAATTGCTCTCGTGTATTCGGTGCCGCGACTTTCACGATGGCTCGCCCAAC
CTTACTACCTTCTGTCGGCCCTGCTCTGCTGCCTTCTACTCGTGAGGAACTGCCGCCGCTCTGCCA
CGGTCTGCCACCCAACGCGAAGACGGTAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATG
TTTCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATGTTCTGATGACGTGCAAACCCCCCTAT
ATATGGGCCCTGAGTATATCAAGTACTTCAATGATAAAACCATTGATGAGGAACTAGAACGGACAAGAG
GGTCACTTGGATTGTGGAGTTCTTTGCCAATTGGTCTAATGACTGCCAATCATTGGCCCTATCTATGCT
GACCTCTCCCTTAAATACAACGTACAGGGCTAAATTTTGGGAAGTGGATGTTGGACGCTATACTGATG
TTAGTACGCGGTACAAAGTGAGCACATCACCCCTACCAAGCAACTCCCTACCCTGATCCTGTTCCAAGG
TGGCAAGGAGGCAATGCGGCGGCCACAGATTGACAAGAAAGGACGGGCTGTCTCATGGACCTTCTCTGAG
GAGAATGTGATCCGAAATTTAACTTAAATGAGCTATACCAGCGGGCCAAGAACTATCAAAGGCTGGAG
ACAATATCCCTGAGGAGCAGCCTGTGGCTTCAACCCCAACCACAGTGTGATGGGAAAACAAGAAGGA
TAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227028 representing NM_001144012
 Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLAQPYYLLSALLSAFLLVRKLPPLCHGLPTQREDGNPCDFDWREVEILM
 FLSAIVMMKNRRSMFLMTCKPPLYMGPEYIKYFNDKTIDEELERDKRVTWIVEFFANWSNDCQSFAPIYA
 DLSLKYNCTGLNFGKVDVGRYTDVSTRYKYSTSPLTKQLPTLILFQGGKEAMRRPQIDKKGRAVSWTFSE
 ENVIREFNLNELYQRAKKLSKAGDNIPEEQPVASTPTTVSDGENKKDK

TRTRPLE - GFP Tag - V

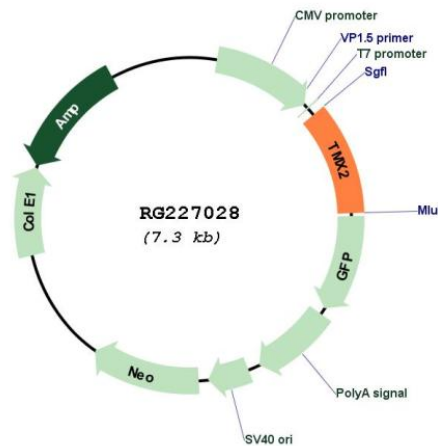
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001144012

ORF Size: 774 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_001144012.2 , NP_001137484.1 |
| RefSeq Size: | 1572 bp |
| RefSeq ORF: | 777 bp |
| Locus ID: | 51075 |
| UniProt ID: | Q9Y320 |
| Cytogenetics: | 11q12.1 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and a C-terminal ER-retention sequence. This protein is enriched on the mitochondria-associated-membrane of the ER via palmitoylation of two of its cytosolically exposed cysteines. [provided by RefSeq, Jan 2017] |