

Product datasheet for **MG216986**

Tmx2 (NM_025868) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmx2 (NM_025868) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmx2
Synonyms: 2310042M24Rik; AA589631; Txndc14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216986 representing NM_025868
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGTCTTGCGCCTCTGATTGCTTTGGTGTACTCGGTGCCGCGCTTTCTCGATGGCTGGCCCGAC
 CTTATTGCCTTCTGTCTGCTCTGCTTTCCATTGCTTTCTCCTCGTGAGGAACTGCCACCGATTGCAA
 TGGTCTCCCCACGCAACGCAAGATGGCAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATG
 TTCCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATCACTGTGGAGCAACATGTAGGCAACATCT
 TTATGTTTAGTAAAGTGGCCAACGCCATCCTTTCTCCGACTGGATATTCGAATGGGTCTGCTATACCT
 CACACTCTGCATAGTGTTCCTGATGACCTGCAAGCCCCGCTGTACATGGGTCTGAGTATATCAAGTAC
 TTCAATGATAAAACCATTGATGAGGAGCTGGAGCGAGACAAGAGGGTCACTTGGATTGTGGAGTTCTTTG
 CCAACTGGTCTAATGATTGCCAATCCTTTGCTCCCATCTATGCGGACTTGTCCCTCAAGTACAACCTGTC
 AGGGCTAAATTTGGGAAGGTAGATGTTGGACGCTACACTGACGTTAGCACACGGTACAAAGTGAGCACA
 TCACCCCTCACCAGACAGCTCCCTACCCTGATTCTGTTCCAAGGCGGCAAGGAGGTCACTTCGTCGGCCGC
 AGATTGACAAGAAAGGACGAGCTGTCTCTTGGACCTTTCTGAGGAGAATGTGATTTCGAGAATCAACTT
 GAATGAGCTATACCAACGAGCCAAGAAGCACTCAAAGGGTGGAGACATGTCAGAAGAGAAGCCTGTGGAC
 CTGCTCCCACTACTGTGCCAGATGGGAAAACAAGAAGGACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG216986 representing NM_025868
Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLARPYCLLSALLSIAFLLVRKLPPICNGLPTQREDGNPCDFDWREVEILM
 FLSAIVMMKNRRSITVEQHVGNIFMFSKVANAILFFRLDIRMGLLYLTLICIVFLMTCKPPLYMGPEYIKY
 FNDKTIIDEELERDKRVTWIVEFFANWSNDCQSFAPYADLSLKYNCGLNFGKVDVGRYTDVSTRYKYST
 SPLTRQLPTLILFQGGKEVIRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKHSGKGMSEKPV
 PAPTTVPDGENKKDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025868

ORF Size: 885 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.

RefSeq: [NM_025868.4](#), [NP_080144.1](#)

RefSeq Size: 1968 bp

RefSeq ORF: 888 bp

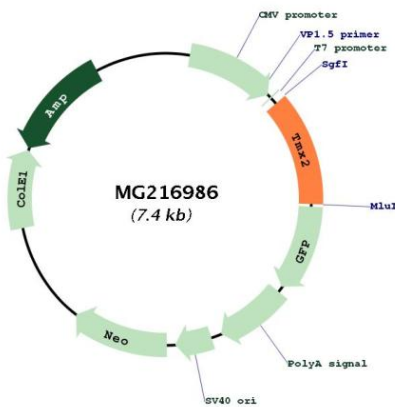
Locus ID: 66958

UniProt ID: [Q9D710](#)

Cytogenetics: 2 D

Gene Summary: Endoplasmic reticulum and mitochondria-associated protein that probably functions as a regulator of cellular redox state and thereby regulates protein post-translational modification, protein folding and mitochondrial activity. Indirectly regulates neuronal proliferation, migration, and organization in the developing brain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216986