

Product datasheet for MR216986

Tmx2 (NM_025868) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmx2 (NM_025868) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmx2
Synonyms: 2310042M24Rik; AA589631; Txndc14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216986 representing NM_025868
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTCTTGCGCCTCTGATTGCTTTGGTGTACTCGGTGCCGCGCTTTCTCGATGGCTGGCCCGAC
CTTATTGCCTTCTGTCTGCTCTGCTTTCCATTGCTTTCTCCTCGTGAGGAACTGCCACCGATTGCAA
TGGTCTCCCCACGCAACGCAAGATGGCAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATG
TTCCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATCACTGTGGAGCAACATGTAGGCAACATCT
TTATGTTTAGTAAAGTGGCCAACGCCATCTTTTCTCCGACTGGATATTCGAATGGGTCTGCTATACCT
CACACTCTGCATAGTGTTCCTGATGACCTGCAAGCCCCGCTGTACATGGGTCTGAGTATATCAAGTAC
TTCAATGATAAAACCATTGATGAGGAGCTGGAGCGAGACAAGAGGGTCACTTGGATTGTGGAGTTCTTTG
CCAAGTGGTCTAATGATTGCAATCCTTTGCTCCCATCTATGCGGACTTGTCCCTCAAGTACAAGTGTTC
AGGGCTAAATTTGGGAAGGTAGATGTTGGACGCTACACTGACGTTAGCACACGGTACAAAGTGAAGCACA
TCACCCCTCACCAGACAGCTCCCTACCTGATTCTGTTCCAAGGCGGCAAGGAGGTCACTCGTCCGCCGC
AGATTGACAAGAAAGGACGAGCTGTCTCTTGGACCTTTCTGAGGAGAATGTGATTGAGAATCAACTT
GAATGAGCTATACCAACGAGCCAAGAAGCACTCAAAGGGTGGAGACATGTCAGAAGAGAAGCCTGTGGAC
CTGCTCCCACTACTGTGCCAGATGGGGAAAACAAGAAGGACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR216986 representing NM_025868
Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLARPYCLLSALLSIAFLLVRKLPICNGLPTQREDGNPCDFDWREVEILM
 FLSAIVMMKNRRSITVEQHVGNIFMFSKVANAILFFRLDIRMGLLYLTLCIVFLMTCKPPLYMGPEYIKY
 FNDKTIIDEELERDKRVTWIVEFFANWSNDCQSFAPYADLSLKYNC SGLNFGKVDVGRYTDVSTRYKVST
 SPLTRQLPTLILFQGGKEVIRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKHSGKGMSEEKPV
 PAPTTVPDGENKKDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9077_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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: 2287 bp

RefSeq ORF: 888 bp

Locus ID: 66958

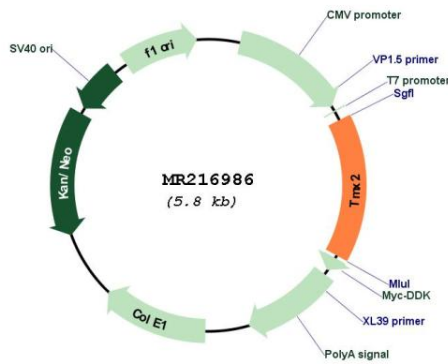
UniProt ID: [Q9D710](#)

Cytogenetics: 2 D

MW: 33.9 kDa

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 MR216986