

Product datasheet for **MR228833**

Tmx2 (NM_001290751) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmx2 (NM_001290751) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmx2
Synonyms: 2310042M24Rik; AA589631; Txndc14
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228833 representing NM_001290751
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTCTTGCCTCTGATTGCTTTGGTGTACTCGGTGCCGCGCTTTCTCGATGGCTGGCCCGAC
CTTATTGCCTTCTGTCTGCTCTGCTTTCCATTGCTTTCTCCTCGTGAGGAACTGCCACCGATTGCAA
TGGTCTCCCCACGCAACGCGAAGATGGCAACCCGTGTGACTTTGACTGGAGAGAAGTGGAGATCCTGATG
TTCTCAGTGCCATTGTGATGATGAAGAACCAGATCCATGTTCTGATGACCTGCAAGCCCCGCTGT
ACATGGGTCTGAGTATATCAAGTACTTCAATGATAAAACCATTGATGAGGAGCTGGAGCGAGACAAGAG
GGTCACTTGGATTGTGGATTCTTTGCCAACTGGTCTAATGATTGCCAATCCTTTGCTCCCATCTATGCC
GACTTGTCCCTCAAGTACAACCTGTTCAAGGCTAAATTTGGGAAGGTAGATGTTGGACGCTACACTGACG
TTAGCACACGGTACAAAGTGAGCACATCACCCCTCACCAGACAGCTCCCTACCCTGATTCTGTTCCAAGG
CGGCAAGGAGGTCATTTCGTCGGCCGAGATTGACAAGAAAGGACGAGCTGTCTTGGACCTTTCTGAG
GAGAATGTGATTGAGAATTCAACTTGAATGAGCTATACCAACGAGCCAAGAAGCACTCAAAGGGTGGAG
ACATGTCAGAAGAGAAGCCTGTGGACCTGCTCCCACTACTGTGCCAGATGGGAAAAACAAGAAGGACAA
A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228833 representing NM_001290751
Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLARPYCLLSALLSIAFLLVRKLPPICNGLPTQREDGNPCDFDWREVEILM
 FLSAIVMMKNRRSMFLMTCKPPLYMGPEYIKYFNDKTIDEELERDKRVTWIVEFFANWSNDCQSFAPIYA
 DLSLKYNCSGLNFGKVDVGRYTDVSTRYKYSTSPLTRQLPTLILFQGGKEVIRRPQIDKKGRAVSWTFSE
 ENVIREFNLNELYQRAKKHSGGDMSEEKPVDPAPTTPVDGENKKDK

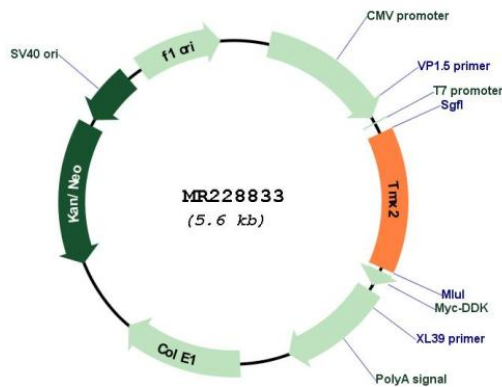
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290751
ORF Size: 771 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_001290751.1 , NP_001277680.1 |
| RefSeq Size: | 1987 bp |
| RefSeq ORF: | 774 bp |
| Locus ID: | 66958 |
| UniProt ID: | Q9D710 |
| Cytogenetics: | 2 D |
| MW: | 30 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] |