

Product datasheet for **RR202483**

Tmx2 (NM_001007643) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmx2 (NM_001007643) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmx2
Synonyms:	MGC94529
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202483 representing NM_001007643 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTCTCGCGCTCTGATTGCCTTGGTGTACTCGGTGCCGCGCTTTCTCGATGGCTGGCCAGAC
CTTATTGCCTTCTGTCTGCCCTGCTTTCCATTGCTTTCTCCTCGTGAGGAAGCTGCCGCCGATTGCAA
CGGTCTCCCCACGCAGCGCAAGATGGCAACCCGTGTGACTTTGACTGGAGAGAGGTGGAGATCCTGATG
TTTCTCAGTGCTATTGTGATGATGAAGAACCAGATCCATCACTGTGGAGCAACATGTGGCAACATCT
TCATGTTTAGCAAAGTGGCAACGAATCTTTTCTCCGATTGGATATCGAATGGCCTGCTGTACCT
CACACTCTGCATAGTGTTCTGATGACCTGCAAGCCCCCTGTACATGGGTCTGAATATATCAAGTAC
TTCAATGATAAAACCATTGATGAAGAACTGGAACGAGACAAGAGGGTCACTTGGATTGTGGAGTTCTTTG
CCAATTGGTCTAATGATTGCCAGTCTTTTGGTCCCATCTATGCTGACTTGTCTCAAGTACAACCTGTT
AGGGCTAAATTTGGGAAGGTAGATGTTGGACGTTACTGACGTTAGCACACGGTACAAAGTGAGCACA
TCACCCCTCACCAACAACCTCCCTACCTGATCCTCTTCCAAGGTGGCAAGGAGGTAATGCGTCGGCCAC
AGATTGACAAGAAAGGACGAGCTGTCTCTTGGACCTTTCTGAGGAGAATGTGATTGAGAATCAACTT
GAATGAGCTGTACCAACGAGCCAAGAAGCTCTCAAAGGTGGAGACATGTCAGAGGAGAAGCCTGGGAAC
CCTACGCCCACTGCCGTGCCAGATGGGGAGAACAAGAAAGACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202483 representing NM_001007643
Red=Cloning site Green=Tags(s)

MAVLAPLIALVYSPRLSRWLARPYCLLSALLSIAFLLVRKLPPICNGLPTQREDGNPCDFDWREVEILM
 FLSAIVMMKNRRSITVEQHVGNIFMFSKVANAILFFRLDIRMGLLYLTLCIVFLMTCKPPLYMGPEYIKY
 FNDKTIIDEELERDKRVTWIVEFFANWSNDCQSFAPYADLSLKYNCSGLNFGKVDVGRYTDVSTRYKYST
 SPLTKQLPTLILFQGGKEVMRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKLSKGGDMSEEKPGN
 PTPTAVPDGENKKDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2358_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007643

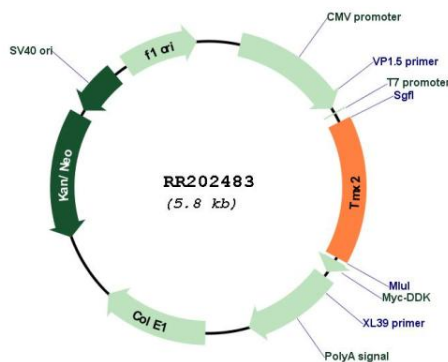
ORF Size: 885 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001007643.1</u> , <u>NP_001007644.1</u>
RefSeq Size:	1640 bp
RefSeq ORF:	888 bp
Locus ID:	295701
UniProt ID:	<u>Q5XIK2</u>
Cytogenetics:	3q24
MW:	34.3 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 RR202483