

Product datasheet for **MR203744**

Tmx1 (NM_028339) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmx1 (NM_028339) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmx1
Synonyms:	2810425A04Rik; AI465319; Txndc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203744 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCACTGGGGCGTCTTATGGTTCCCCTGGCAGCTCTGGTCCTGCTGCTCTGGGCGGTCCCTGGGG
CCCACGGACGGCGGAATAACGTGCGCGTCTCACCGATGAGAAGTGGACGTCGTTGCTGGAAGGAGAGTG
GATGATAGAATTTATGCTCCCTGGTGCCTGCTGTGTCAGAACTTCAGCCAGAATGGGAAAGTTTTGCC
GAGTGGGGAGAAGATCTGAGGTGAAAGTTGCAAAAGTGGATGTCACAGAGCAGACAGGACTAAGTGGAC
GGTTTATCATAACTGCTTCTCTTCTATTTATCATTGTAAGATGGTGAATTTAGGCGCTATGTGGGCC
AAGGACTAAGAAGGACTTCATAAATTCGTAAGTGATAAAGAATGGAAGAATATTGAACCTATATCATCA
TGGTTTGGTCCAAGTTCTGTTCTGATGACTATGATGTCAGCACTTTTTCAACTCTCTGTGTACATCAGGA
CTAGCCACAGCTATTTTGTTCATGACCTTGAATACCAGCGTGGGGTTCATACTTGGTTTTTGTCTTTGC
CACAGTACTCTCAGGACTGCTGCTGGGACTTTGTATGATTTGTAGCAGATTGCCTTTGCCCTTCAAAA
AGACGCAAACACAGCAACAGTATGCAAAAAAACATCACCAGAATTTTCTCAACCTCTGAAAAAGTGG
AGGAAGAGCAGGAGGCTGATGAAGAAGATGTTTCAGAAGAGGAGGCAGAAGATAGAGAGGGAGCAAGCAA
AGCCACTTCTCAGAGCAGCATAAGACAACGCTGTGTGGCCTCCCATCTGCCACGGACACATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203744 protein sequence
 Red=Cloning site Green=Tags(s)

MAHLGRLMVPLAALVLLLVAVPGAHGRNNVRLTDENWTSLLLEGEMIEFYAPWCPACQNLQPEWESFA
 EWGEDLEVKVAKVDVTEQTGLSGRFIITALPSIYHCKDGEFRRYVGPRTKKDFINFVSDKEWKNIPISS
 WFGPSSVLMMSALFQLSVYIRTSHSYFVHDLGIPAWGSYLVFAFATVLSGLLLGLCMIFVADCLCPSK
 RRPKQQYAKKTSPEFSQPLKKVEEEQEAEDEEDVSEEEAEDREGASKATSQSSIRQRCVGLPSATDTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028339

ORF Size: 837 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_028339.1](#), [NP_082615.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 837 bp

Locus ID: 72736

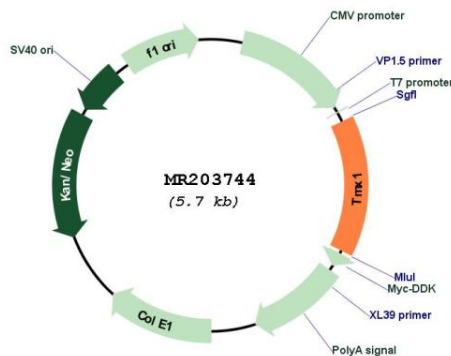
UniProt ID: [Q8VBT0](#)

Cytogenetics: 12 C2

MW: 31.4 kDa

Gene Summary: May participate in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyze dithiol-disulfide exchange reactions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203744