

Recombinant Full Length Human TMX3 Protein, C-Myc/DDK-tagged

Cat. No. TMX3-133HFL **Lot. No.** (See product label)

SPECIFICATION	
Product Overview	Recombinant Full Length Human TMX3 Protein, fused to Myc-DDK-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
Description	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The canonical protein encoded by this gene has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and a C-terminal ER-retention sequence. This gene is expressed in many tissues but has its highest expression in heart and skeletal muscle. It is expressed in the retinal neuroepithelium and lens epithelium in the developing murine eye and haploinsufficiency of this gene in humans and zebrafish is associated with microphthalmia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.
Molecular Mass	51.7 kDa
AA Sequence	MAAWKSWTALRLCATVVVLDMMVCKGFVEDLDESFKENRNDDIWLVDYAPWCGH CKKLEPIWNEVGLEM KSIGSPVKVGKMDATSYSSIASEFGVRGYPTIKLLKGDLAYN

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YRGPRTKDDIIEFAHRVSGALIRPLPSQ QMFEHMQKRHRVFFVYVGGESPLKEYID
 AASELIVYTYFFSASEEVPEYVTLKEMPAVLVFKDETYFV YDEYEDGDLSSWINRE
 RFQNYLAMDGFLLYELGDTGKLVALAVIDEKNTSVEHTRLKSIIQEVARDYRDL FHR
 DFQFGHMDGNDYINTLLMDELTVPTVVVLNTSNQQYFLLDRQIKNVEDMVQFINNIL
 DGTVEAQGGD SILQRLKRIVFDAKSTIVSIFKSSPLMGCFLFGLPLGVISIMCYGIYTA
 DTDGGYIEERYEVSKSENENQ EQIEESKEQQEPSSGGSVVPTVQEPKDVLEKKKD
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>0.05 µg/µl as determined by microplate Bradford method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Full Length	Full L.

GENE INFORMATION

Gene Name TMX3 thioredoxin related transmembrane protein 3 [Homo sapiens (human)]

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Official Symbol	TMX3
Synonyms	PDIA13; TXNDC10
Gene ID	54495
mRNA Refseq	NM_019022.5
Protein Refseq	NP_061895.3
MIM	616102
UniProt ID	Q96JJ7
SDS-PAGE	Coomassie blue staining of purified TMX3 protein.

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