

Recombinant Human TMX3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TMX3-5546H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TMX3 MS Standard C13 and N15-labeled recombinant protein (NP_061895) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	51.9 kDa
AA Sequence	MAAWKSWTALRLCATVVVLDMMVCKGFVEDLDESFKENRNDDIWLVDYFAPWCGH CKKLEPIWNEVGLMKSIGSPVKVGKMDATSYSSIASSEFGVRYPTIKLLKGDLAYNY RGPRTKDDIIIEFAHRVSGALIRPLPSQQMFEHMQRHRVFFVYVGGESPLKEKYIDA

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ASELIVYTYFFSASEEVVPEYVTLKEMPAVLVFKDETYFVYDEYEDGDLSSWINRERF
 QNYLAMDGFLLYELGDTGKLVALAVIDEKNTSVEHTRLKSIQEVARDYRDLFHRDFQ
 FGHMDGNDYINTLLMDELTVPTVVVLNNTSNQQYFLLDRQIKNVEDMVQFINNILDGTV
 EAQGGDSILQRLKRIVFADAKSTIVSIFKSSPLMGCFLFGLPLGVISIMCYGIYTADTDG
 GYIEERYEVSKSEENENQEIEESKEQQEPSSGGSVVPTVQEPKDVLEKKKDTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol [TMX3](#)

Synonyms TMX3; thioredoxin related transmembrane protein 3; PDIA13; TXNDC10; protein disulfide-isomerase TMX3; protein disulfide isomerase family A, member 13; thioredoxin domain containing 10; thioredoxin domain-containing protein 10; EC 5.3.4.1

Gene ID [54495](#)

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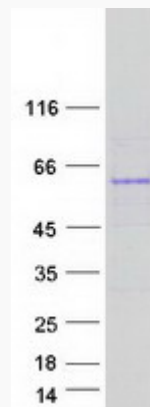
mRNA Refseq [NM_019022](#)

Protein Refseq [NP_061895](#)

MIM [616102](#)

UniProt ID [Q96JJ7](#)

SDS-PAGE



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