

## Product datasheet for PH310841

### TMX3 (NM\_019022) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | TMX3 MS Standard C13 and N15-labeled recombinant protein (NP_061895)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC210841   |
| Predicted MW:                         | 51.9 kDa   |
| Protein Sequence:                     | >RC210841 protein sequence<br><span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s) |

MAAWKSWTALRLCATVVVLDMMVCKGFVEDLDESFKENRNDIWLVDYAPWCGHCKKLEPIWNEVGLEM  
 KSIGSPVKVGKMDATSYSSIASEFGVRYPTIKLLKGDLAYNYRGPRTKDDIEFAHRVSGALIRPLPSQ  
 QMFEHMQKRHRVFFVYVGGESPLKEYIDAASELIVYTYFFSASEEVPEYVTLKEMPAVLVFKDETYFV  
 YDEYEDGDLSSWINRERFQNYLAMDGFLLYELGDTGKLVALAVIDEKNTSVEHTRLKSIIQEVARDYRDL  
 FHRDFQFGHMDGNDYINTLLMDELTVPTVVVLNTSNQQYFLLDRQIKNVEDMVQFINNILDGTVEAQGGD  
 SILQRLKRIVFDKSTIVSIFKSSPLMGCFLFGLPLGVISIMCYGIYTADTGGYIEERYEVSKSENENQ  
 EQIEESKEQQEPSSGGSVVPTVQEPKDVLEKKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:          | <u><a href="#">NP_061895</a></u>   |
| RefSeq Size:     | 4767   |
| RefSeq ORF:      | 1362   |
| Synonyms:        | PDIA13; TXNDC10  |


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**Locus ID:** 54495

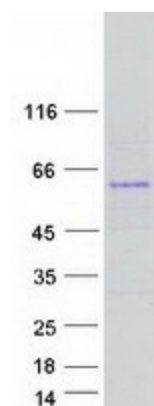
**UniProt ID:** [Q96JJ7](#)

**Cytogenetics:** 18q22.1

**Summary:** 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. [provided by RefSeq, Apr 2017]

**Protein Families:** Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified TMX3 protein (Cat# [TP310841]). The protein was produced from HEK293T cells transfected with TMX3 cDNA clone (Cat# [RC210841]) using MegaTran 2.0 (Cat# [TT210002]).