



Recombinant Protein Technical Manual  
Recombinant Human TMX2/TXNDC14 Protein (His  
Tag)  
RPES0954

### Product Data:

**Product SKU:** RPES0954

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9Y320

### Protein Information:

**Molecular Mass:** 21.9 kDa

**AP Molecular Mass:** 23 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Thioredoxin-related transmembrane protein 2; Cell proliferation-inducing gene 26 protein; Thioredoxin domain-containing protein 14; TMX2

## Immunogen Information:

**Sequence:** Met 125-Lys296

## Background:

TMX2 is a single-pass type I membrane protein and contains 1 thioredoxin domain. Thioredoxin plays an important role in various cellular processes through redox regulation. The molecular cloning and characterization of one member of the thioredoxin superfamily, designated as TMX2. The TMX2 cDNA consists of 1644 nucleotides and contains an open reading frame encoding a protein of 372 amino acids with a predicted molecular mass of 42.5 kDa and an isoelectric point of 8.94. The TMX2 protein may possess an N-terminal signal peptide, a potential transmembrane domain, an Myb DNA-binding domain repeat signature, a thioredoxin consensus pattern, an endoplasmic reticulum (ER) membrane retention signal (KKXX-like motif), and a dileucine motif in the tail.