

Product datasheet for **RG207480**

TXNDC13 (TMX4) (NM_021156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNDC13 (TMX4) (NM_021156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TXNDC13
Synonyms:	DJ971N18.2; PDIA14; TXNDC13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207480 representing NM_021156 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGTGGCGCTGCGGCCCGCAGCTAACGGCGCTCCTGGCCGCTGGATCGCGGCTGTGGCGGCGA
 CGGCAGGCCCCGAGGAGGCCGCTGCCGCCGAGCAGAGCCGGTCCAGCCATGACCGCTCCAACCTG
 GACGCTGGTATGGAGGCGAGTGGATGCTGAAATTTACGCCCCATGGTGTCCATCTGCCAGCAGACT
 GATTCAGAATGGGAGGCTTTTGCAAAGAATGGTAAATACTTCAGATCAGTGTGGGAAGGTAGATGTCA
 TTCAAGAACCAGGTTTGAGTGGCCGCTTCTTTGTCACTCTCCAGCATTTTTTCATGCAAAGGATGG
 GATATTCGCGCTTATCGTGGCCAGGAATCTTCGAAGACCTGCAGAATTATCTTAGAGAAGAAATGG
 CAATCAGTCGAGCCTCTGACTGGCTGGAATCCCCAGCTTCTCTAACGATGTCTGGAATGGCTGGTCTTT
 TTAGCATCTCTGGCAAGATATGGCATCTTCACAACTATTTACAGTGACTCTTGGAACTCTGCTTGGTG
 TTCTTATGTGTTTTTCGTCATAGCCACCTTGGTTTTTGGCCTTTTATGGGTCTGGTCTTGGTGGTAATA
 TCAGAATGTTTCTATGTGCCACTTCAAGGCATTTATCTGAGCGTTCTGAGCAGAATCGGAGATCAGAGG
 AGGCTCATAGAGCTGAACAGTTGCAGGATGCGGAGGAGGAAAAAGATGATTCAAATGAAGAAGAAAAACA
 AGACAGCCTTGTAGATGATGAAGAAGAGAAAGAAGATCTTGGCGATGAGGATGAAGCAGAGGAAGAAGAG
 GAGGAGGACAACCTGGCTGCTGGTGTGGATGAGGAGAGAAGTGAAGCCAATGATCAGGGGCCCCAGGAG
 AGGACGGTGTGACCCGGGAGGAAGTAGAGCCTGAGGAGGCTGAAGAAGGCATCTCTGAGCAACCCCTGCC
 AGCTGACACAGAGGTGGTGAAGACTCCTTGAGGCAGCGTAAAGTCAGCATGCTGACAAGGGACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021156

ORF Size: 1047 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021156.2](#), [NP_066979.2](#)

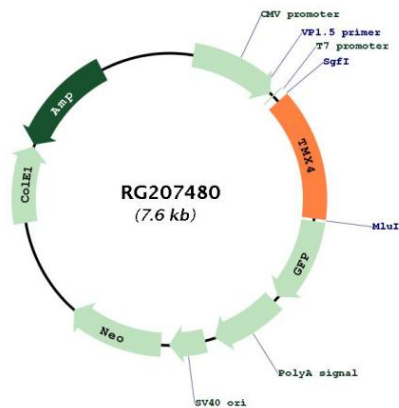
RefSeq Size: 2368 bp

RefSeq ORF: 1050 bp

Locus ID: 56255
UniProt ID: [Q9H1E5](#)
Cytogenetics: 20p12.3
Protein Families: Druggable Genome, Transmembrane

Gene 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 encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and C-terminal ASP/GLU-rich calcium binding domain. Unlike most members of this gene family, it lacks a C-terminal ER-retention sequence. The encoded protein has been shown to have reductase activity in vitro. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG207480