

Product datasheet for **RC207480**

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:	Myc-DDK
Symbol:	TXNDC13
Synonyms:	DJ971N18.2; PDIA14; TXNDC13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207480 representing NM_021156 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGTGGCGCTGCGGCCCGCAGCTAACGGCGCTCCTGGCCGCTGGATCGCGGCTGTGGCGGCGA
CGGCAGGCCCCGAGGAGGCCGCTGCCCGGAGCAGAGCCGGTCCAGCCATGACCGCCTCCAACCTG
GACGCTGGTATGGAGGCGAGTGGATGCTGAAATTTACGCCCCATGGTGTCCATCTGCCAGCAGACT
GATTCAGAATGGGAGGCTTTTGCAAAGAATGGTAAATACTTCAGATCAGTGTGGGAAGGTAGATGTCA
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AGGCTCATAGAGCTGAACAGTTGCAGGATGCGGAGGAGGAAAAAGATGATTCAAATGAAGAAGAAAAACA
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AGGACGGTGTGACCCGGGAGGAAGTAGAGCCTGAGGAGGCTGAAGAAGGCATCTCTGAGCAACCCTGCC
AGCTGACACAGAGGTGGTGAAGACTCCTTGAGGCAGCGTAAAAGTCAGCATGCTGACAAGGGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC207480 representing NM_021156
 Red=Cloning site Green=Tags(s)

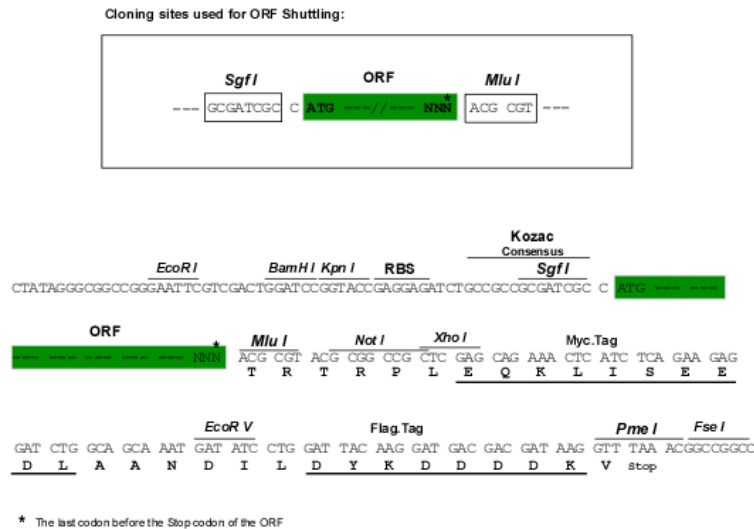
MAGGRCPQLTALLAAWIAVAATAGPEEAALPPEQSRVQPMASNWTLMGEWMLKFYAPWPCSCQQT
 DSEWEAFKNGEILQISVGKVDVIQEPGLSGRFFVTTLPAFFHAKDGIFFRRYRGPFIQEDLQNYILEKKW
 QSVEPLTGWKSPASLTMSGMAGLFSISGKIWHLHNYFTVTLGIPAWCSYVFFVIATLVFGLFMGLVLVVI
 SECFYVPLPRHLSERSEQNRRSEEAHRAEQLQDAEEEEKDSSNEEENKDSLVDDEEEKEDLGDEDEAEED
 EEDNLAAGVDEERSEANDQGGPGEDGVTRREEVEPEEAEEGISEQPCPADTEVVEDSLRQRKSQHADKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1539_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021156

ORF Size: 1047 bp

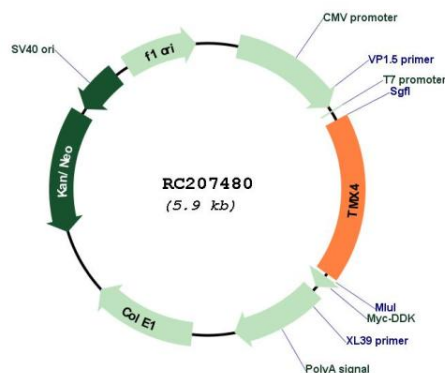
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

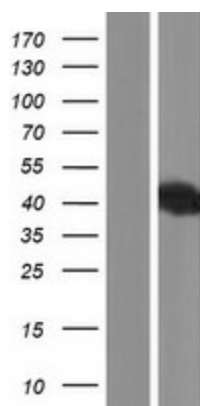
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_021156.2, NP_066979.2</u>
RefSeq Size:	2368 bp
RefSeq ORF:	1050 bp
Locus ID:	56255
UniProt ID:	<u>Q9H1E5</u>
Cytogenetics:	20p12.3
Protein Families:	Druggable Genome, Transmembrane
MW:	38.8 kDa
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]

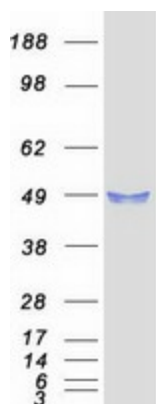
Product images:



Circular map for RC207480



Western blot validation of overexpression lysate (Cat# [LY412055]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207480 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMX4 protein (Cat# [TP307480]). The protein was produced from HEK293T cells transfected with TMX4 cDNA clone (Cat# RC207480) using MegaTran 2.0 (Cat# [TT210002]).