

Product datasheet for **SC127040**

TXNDC13 (TMX4) (BC021964) Human Untagged Clone

Product data:

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|---------------------------|------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | TXNDC13 (TMX4) (BC021964) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TXNDC13 |
| Synonyms: | DJ971N18.2; PDIA14; TXNDC13 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for BC021964, the custom clone sequence may differ by one or more nucleotides

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GAGCGAGGCTGCGGGCCGGCCGCTGCCCTTCCCCACACTCCCCGCCGAGAAGCCTCGCTCGGCGCCCAA
CATGGCGGGTGGCGCTGCGGCCCGCAGCTAACGGCGCTCCTGGCCGCTGGATCGCGGCTGTGGCGGCG
ACGGCAGGCCCCGAGGAGGCCGCTGCCGCCGAGCAGAGCCGGTCCAGCCCATGACCGCTCCAAC
GGACGCTGGTGATGGAGGCGAGTGATGCTGAAATTTTACGCCCATGGTGCCATCCTGCCAGCAGAC
TGATTCAGAATGGGAGGCTTTTGCAAAGATGGTAAAATCTTCAGATCAGTGTGGGAAGGTAGATGTC
ATTCAAGAAGCCAGGTTTGTAGTGGCCGCTTCTTTGTCACTCTCCCAGCATTTTTTTCATGCAAAGGAT
GGGATATCCGCCGTTATCGTGGCCAGGAATCTTCAAGACCTGCAGAATTATATCTTAGAGAAGAAAT
GGCAATCAGTCGAGCCTCTGACTGGCTGGAATCCCCGGCTTCTAACGATGTCTGGAATGGCTGGTCT
TTTTAGCATCTCTGGCAAGATATGGCATCTTCACTATTTTACAGTACTCTTGAATCCTGCTTGG
TGTTCTTATGCTTTTTTCGTCATAGCCACCTTGGTTTTTGGCCTTTTTATGGGTCTGGTCTTGGTGGTAA
TATCAGAATGTTTCTATGTGCCACTTCCAAGGCATTTATCTGAGCGTTCTGAGCAGAATCGGAGATCAGA
GGAGGCTCATAGAGCTGAACAGTTGCAGGATGCGGAGGAGGAAAAAGATGATTCAAATGAAGAAGAAAAC
AAAGACAGCCTTGTAGATGATGAAGAAGAGAAAAGATCTTGGCGATGAGGATGAAGCAGAGGAAGAAG
AGGAGGAGGACAACCTGGCTGCTGGTGTGGATGAGGAGAGAAGTGAAGCCAAATGATCAGGGGCCCCAGG
AGAGGACGGTGTGACCCGGGAGGAAGTAGAGCCTGAGGAGGCTGAAGAAGGCATCTCTGAGCAACCTGC
CCAGCTGACACAGAGGTGGTGAAGACTCCTTGAAGCAGCGTAAAAGTCAAGATGCTGACAAGGGACTGT
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TACCAAATCCTTAATTTTTCTGAATGAGCAAGCTTCTTAAAAGATGCTCTCTAGTCATTTGGTCTCA
TGGCAGTAAGCCTCATGTATACTAAGGAGAGTCTTCCAGGTGTGACAATCAGGATATAGAAAAACAACG
TAGTGTTGGGATCTGTTTGGAGACTGGGATGGGAACAAGTTCATTTACTTAGGGGTGAGAGAGTCTCGAC
CAGAGGAGGCCATTCCCAGTCTAATCAGCACCTTCCAGAGACAAGGCTGCAGGCCCTGTGAAATGAAAG
CCAAGCAGGAGCCTTGGCTCCTGAGCATCCCCAAGTGTAACTGAGAAGCCTTGCATCCTTTTCTGTGT
AAAGTATTTATTTTGTCAAATTCAGGAAACATCAGGCACCACAGTGCATGAAAAATCTTTCACAGCTA
GAAATTGAAAGGGCCTTGGGTATAGAGAGCAGCTCAGAAGTCATCCAGCCCTCTGAATCTCCTGTGCTA
TGTTTTATTTCTACCTTAATTTTTCCAGCATTTCCACCATGGGCATTCAGGCTCTCCACTCTTCCAC
TATTATCTTGGTCAGAGGACTCCAATAACAGCCAGGTTTACATGAACTGTGTTTGTTCATTCTGACCT
AAGGGTTTTAGATAATCAGTAACCATAACCCCTGAAGCTGTGACTGCCAAACATCTCAAATGAAATGTTG
TGCCCATCAGAGACTCAAAGGAAGTAAGGATTTACAAGACAGATTAATAAAAAAATGGTTTTGTCCAAA
ATATAGTTGTTGTTGATTTTTTTAAGTTTTCTAAGCAATTTTTTCAAGCCAGAAGTCTCTAAGTCT
TGCCAGTACAAGGTAGTCTTGTGAAGAAAAGTTGAATACTGTTTTGTTTTCATCTCAAGGGGTTCCCTGG
GTCTTGAACACTTTAATAAATACTAAAAAACCCTTCTGATTTTCTTCCAGTGTGTGCTTTTGGTGAA
AGAATTAATGAACTCCAGTACCTGAAAGTGAAGATTTGATTTTGTTCATCTTCTGTAATCTTCCAAA
GAATTATCTTTGTAATCTCTCAATACTCAATCTACTGTAAGTACCCAGGGAGGCTAATTTCTTAAA
AAAAAAAATCTATCCATCTACTTCTCTTACCTGATTTATGTGTTAGAATAAATTCATGAAATTCGAT
TCCAAGCATAAAAAAAAAAAAAAAAAAAAA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for BC021964 unedited</p> <pre> TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGCTCGGCGCCC AACATGGCGGGTGGGCGCTGCGGCCCGCAGCTAACGGCGCTCCTGGCCGCTGGATCGCG GCTGTGGCGGCGACGGCAGGCCCGAGGAGGCCGCGCTGCCGCCGGAGCAGAGCCGGGT CAGCCCATGACCGCTCCAACCTGGACGCTGGTATGGAGGGCGAGTGGATGCTGAAATTT TACGCCCATGGTGTCCATCTGCCAGCAGACTGATTCAGAATGGGAGGCTTTTGCAAAG AATGGTGAATACTTCAGATCAGTGTGGGGAAGTAGATGTCATTCAAGAACCAGGTTTG AGTGGCCGCTTCTTTGTACCACCTCTCCAGCATTTCATGCAAAGGATGGGATATTC CGCCGTTATCGTGGCCAGGAATCTTCGAAGACCTGCAGAATTATATCTTAGAGAAGAAA TGGCAATCAGTCGAGCCTCTGACTGGCTGGAAATCCCCGGCTTCTCTAACGATGCTGGA ATGGCTGGTCTTTTAGCATCTCTGGCAAGATATGGCATCTTCACAACCTATTTACAGTG ACTCTTGAATTCCTGCTTTGGTGTCTTATGCTTTTTCTGATAGCCACCTTGGTTTTT GGCTTTTATGGGCTGTCTTGGGTGGAATATCAGATGTTCTATGTGCCACTTCAGGCT TATCTTGGAGCGTTCTGACAAATTCGAATCAAGAGAGCTCATAACTGACAGTGCAGATGC GGGAGAGGAAAAGAGATTCATGGAGAAAACAAGACGCTTGNATGAAGAGAAAAANAAT CTGGCGTAGTTTAAACAAGGAGAAA </pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for BC021964 unedited</p> <pre> GGCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGAAATTCATAAACCT GTACTCATTATTCTGTCTGGATCTAAGGAGCATAGAATCAACTTAGGCATCTTCGTAT GCTTGGAAATCGAATTTTCAATGATTTATTCTAACACATAAATCAGGTAAGAGAGAAGTAGA TGGATAGATTTTTTTTTTTAAGGAAATTAGCCTCCCTGGTACTTACAGTAGATTGAGT ATTGAGAGATTTACAAAGATATAATTCTTTGGAAGATTACAGAAGATGGAAACAAAATCA AATCTTTCACTTTCAAGTACTGGAGTTCATTAATTCTTTACCAAAGGCATCACTGAA GGAAAATCAGAAGTGGTTTTTGTATTATTAAAGTAGTTCAAGACCCAGGGAACCCCT TGAGATGAAAACAAAACAGTATTTCAACTTTCTTACAAGACTACCTTGTACTGGCAAGA CTTAGAGGACTTCTGGCTTGAAAAATATGCTTAGAAAATTAATAAAAAAATCAACAACA ACTATATTTTGGACAAAACAATTTTTTTAATCTGTCTTGTAATAATCCTTACTTCTTT TGAGTCTCTGATGGCCACAACATTTTCAATTTGAGATGTTTGGCAGTCACAGCTTCAGGGT TATGGTTACTGATTATCTAAACCCCTTAGGTGAGATGAACAAACACAGTTCATGTAAC CTGGCTGTTATTGGGAGTCTCTGACCAAGAGATATAGTGAAGAGTGTGGAGAGCCCTGA TGCCCATGGTGGAAANTGCTGGAATAAAGGGTAGAAATAAACATAGCCAGGAGATTG AGGGCTGGATGACTCTGAGCTGTCTATCCAGGCCTTNCATTCTAGCTGGAGATTTTAT GCCTGNGTGCCTGATGCTCCTGCANTGACAAATAATACTACCAGAAAGATGCAGCTCTACN TACTTGGGAGCTAGAGCAGGTCTGCTGTCNATTNCA </pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | BC021964 |
| Insert Size: | 2330 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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.

RefSeq: [BC021964.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1194 bp

Locus ID: 56255

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]