

## Product datasheet for **MC227030**

### **Txndc5 (NM\_001289598) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Txndc5 (NM\_001289598) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Txndc5  
**Synonyms:** AL022641; ERp46; PC-TRP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227030 representing NM\_001289598  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGATGCCAAGGTCTACGTGGCCAAAGTGGACTGCACGGCTGATCCGACGTGTGCTCTGCCCAGG  
GAGTGCAGGATACCCACCCTGAAGTTTTTAAGCCTGGACAAGAAGCAGTGAAGTACCAGGGTCTAG  
AGACTTTGAAACTGGAAAAGTGGATGCTGCAGACACTGAACGAGGAGCCAGCCACCCGAGCCGGAA  
GCGGAACCAACCAGAGCCCTGAGCTCAAACAGGGTTGTATGAGCTCTCGGCCAAACTTTGAGCTGC  
ATGTTTCTCAAGCAACCACTTTATCAAGTTCTTCGCTCCGTGGTGCAGTCAAGGCTCTGGCTCC  
AACCTGGGAGCAGCTGGCTCTGGCCCTTGAACATTCTGAAACCGTCAAGATTGGCAAGGTTGACTGCACG  
CAGCACTACGCTGTCTGCTCAGAGCATCAGGTCAGAGGCTATCCAACCTGCTCTGGTTTCGAGATGGCA  
AGAAGGTGGATCAGTACAAGGAAAGCGGGACTTGGAGTCACTGAGAGACTATGTGCAGTCCCAGCTGCA  
GGGTTCAGAGGACGCTCCGGAGACTGTTGAGCCGTCAGAGGCCAGTATGGCTGCTGAGCCCACGGGT  
GACAAGGGCACTGTGCTGGCACTACCGAGAAGAGCTTCGAGGACACTATTGCACAGGGGATAACCTTCG  
TCAAGTTCTATGCTCCGTGGTGTGGCCACTGTAAGAATCTGGCTCCTACCTGGGAGGACTCTCTAAAAA  
GGAATCCCAGGCTTGTGATGTCACCATCGCAGAAGTGGACTGCACCGCTGAGCGCAATGTCTGCAGC  
AAGTACTCGGTACGAGGTTATCCACGTTGCTGCTTTCCGAGGAGGTGAAAAAGTGGGAGAACAACAACG  
GAGGTAGAGACCTCGACTCCTTACACAGCTTTGTTCTGCGCCAGGCAAAGGATGAACTA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001289598  
**Insert Size:** 972 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001289598.1</a></u> , <u><a href="#">NP_001276527.1</a></u>
<b>RefSeq Size:</b>	2647 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	105245
<b>UniProt ID:</b>	<u><a href="#">Q91W90</a></u>
<b>Cytogenetics:</b>	13 A3.3
<b>Gene Summary:</b>	Possesses thioredoxin activity. Has been shown to reduce insulin disulfide bonds. Also complements protein disulfide-isomerase deficiency in yeast.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) contains a distinct 5' UTR and represents translation initiation at an in-frame downstream AUG, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1.