

## Product datasheet for **MR206609**

### Txndc5 (NM\_145367) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Txndc5 (NM_145367) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Txndc5
Synonyms:	AL022641; ERp46; PC-TRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206609 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCGCGCCAGGACGCCTCCTCCAGCCGCTGGCCGGGCTGCCGGCCCTGGCCACGCTCCTGCTGC  
TGCTCGGGGCGCGCAAAGGCGCCCGGGCCAGGAGGTGGAAGCGGACAGCGGGTTCGAGCAGGACCCGCA  
CGCAAGCACCTGTATACGGCCGACATGTTACGCACGGGATCCAGAGCGCCGCGCACTTCGTATGTTT  
TTCGCGCCCTGGTGTGGACTGCCAGCGGCTGCAGCCAACTTGAATGACCTGGGAGACAAGTACAACA  
GCATGGAGGATGCCAAGGTCTACGTGGCCAAAGTGGACTGCACGGCTGATTCGACGTGTGCTCTGCCCA  
GGGAGTGCAGGATACCCACCCTGAAGTTTTTAAAGCCTGGACAAGAAGCAGTGAAGTACCAGGGTCTCT  
AGAGACTTTGAAACACTGGAAAACCTGGATGCTGCAGACTGAACGAGGAGCCAGCCACACCCGGAGCCGG  
AAGCGGAACCACCAGAGCCCTTGAGCTCAAACAGGGGTTGTATGAGCTCTCGGCCAACAACTTTGAGCT  
GCATGTTTCTCAAGGCAACCACTTTATCAAGTTCTTCGCTCCGTGGTGGGTCAGTCAAAGCTCTGGCT  
CCAACCTGGGAGCAGCTGGCTCTGGCCCTTGAACATTCTGAAACCGTCAAGATTGGCAAGTTGACTGCA  
CGCAGCACTACGCTGTCTGCTCAGAGCATCAGGTGAGGCTATCCAACCTGCTCTGGTTTCGAGATGG  
CAAGAAGGTGGATCAGTACAAGGAAAGCGGGACTTGGAGTCACTGAGAGACTATGTGCAGTCCCAGCAG  
CAGGGTTCAGAGGCAGCTCCGGAGACTGTTGAGCCGTGAGAGCCCAAGTGAAGTGGTCTGAGCCACGG  
GTGACAAGGGCACTGTGCTGGCACTCACCGAGAAGAGCTTCGAGGACACTATTGCACAGGGGATAACCTT  
CGTCAAGTTCTATGCTCCGTGGTGTGGCCACTGTAAGAATCTGGCTCCTACCTGGGAGGAGCTCTTAA  
AAGGAATCCCAGGCTTGTGAGATGTCACCATCGAGAAGTGGACTGCACCGCTGAGCGCAATGTCTGCA  
GCAAGTACTCGGTACGAGGTTATCCACGTTGCTGCTTTTCCGAGGAGGTGAAAAAGTGGGAGAACA  
CGGAGGTAGAGACCTCGACTCCTTACACAGCTTTGTTCTGCGCCAGGCAAAGGATGAACTA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206609 protein sequence  
 Red=Cloning site Green=Tags(s)

MPPRPGRLLQPLAGLPALATLLLLL GARKGARAQVEEADSGVEQDPHAKHLYTADMFTHGIQSAAHFVMF  
 FAPWCGHCQRLQPTWNDLGDKYNSMEDAKVYVAKVDCTADSDVCSAQGVRGYPTLKFFKPGQEAVKYQGP  
 RDFETLENWMLQTLNEEPATPEPEAEPPRALELKQGLYEL SANNFELHVSQGNHF IKFFAPWCGHCKALA  
 PTWEQLALGLEHSETVKIGKVDCTQHYAVCSEHQVRYGPTLLWFRDGGKVDQYKGRDLESLRDYVQSQQ  
 QGSEAAPEVPESEAPVMAAEPTGDKGTVLALTEKSFEDTIAQGITFKFYAPWCGHCKNLAPTWEELSK  
 KEFPGLSDVITIAEVDCTAERNVCSKYSVRGYPTLLLFRGGKVGGEHNGGRDLSLHSFVLRQAKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_145367

**ORF Size:** 1254 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.

**RefSeq:** [NM\\_145367.2](#)

**RefSeq Size:** 2671 bp

**RefSeq ORF:** 1254 bp

**Locus ID:** 105245

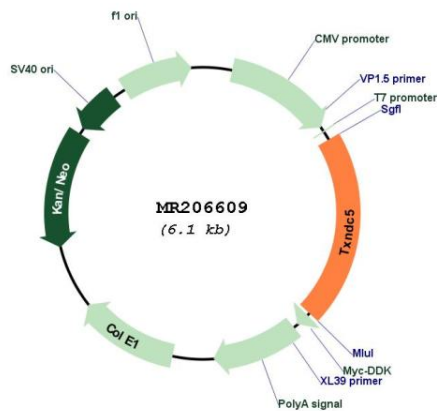
**UniProt ID:** [Q91W90](#)

**Cytogenetics:** 13 A3.3

**MW:** 46.4 kDa

**Gene Summary:** Possesses thioredoxin activity. Has been shown to reduce insulin disulfide bonds. Also complements protein disulfide-isomerase deficiency in yeast.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206609