

Product datasheet for **MR229376**

Txndc5 (NM_001289599) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Txndc5 (NM_001289599) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Txndc5
Synonyms: AL022641; ERp46; PC-TRP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229376 representing NM_001289599
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGTGGACTGCCAGCGGCTGCAGCCAACCTGGAATGACCTGGGAGACAAGTACAACAGCATGGAGG
ATGCCAAGGTCTACGTGGCCAAAGTGGACTGCACGGCTGATTCGACGTGTGCTCTGCCAGGGAGTGCC
AGGATACCCACCCTGAAGTTTTTAAGCCTGGACAAGAAGCAGTGAAGTACCAGGTCTAGAGACTTT
GAAACTGGAAAAGTGGATGCTGCAGACTGAACGAGGAGCCAGCCACACCGGAGCCGGAAGCGGAAC
CACCCAGAGCCCCTGAGCTCAAACAGGGTGTATGAGCTCTCGGCCAACAACTTTGAGCTGCATGTTTC
TCAAGGCAACCACTTTATCAAGTTCTTCGCTCCGTGGTGCGGTCACTGCAAAGCTCTGGCTCCAACCTGG
GAGCAGCTGGCTCTGGGCCTTGAACATTCTGAAACCGTCAAGATTGGCAAGGTTGACTGCACGCAGCACT
ACGCTGTCTGCTCAGAGCATCAGGTCAGAGGCTATCCAACCTCTGCTCTGGTTTCGAGATGGCAAGAAGGT
GGATCAGTACAAGGAAAGCGGGACTTGGAGTCACTGAGAGACTATGTGCAGTCCCAGCTGCAGGGTTCA
GAGGCAGCTCCGAGACTGTTGAGCCGTGAGAGCCCCAGTGTGCTGCTGAGCCCACGGGTGACAAGG
GCACTGTGCTGGCACTCACCGAGAAGAGCTTCGAGGACACTATTGCACAGGGGATAACCTTCGTCAGATT
CTATGCTCCGTGGTGTGGCCACTGTAAGAATCTGGCTCCTACCTGGGAGGAGCTCTCTAAAAGGAATTC
CCAGGCTTGTGAGATGTACCATCGCAGAAGTGGACTGCACCGCTGAGCGCAATGTCTGCAGCAAGTACT
CGGTACGAGGTTATCCCACGTTGCTGCTTTCCGAGGAGGTGAAAAAGTGGGAGAACACAACGGAGGTAG
AGACCTCGACTCCTTACACAGCTTTGTTCTGCGCCAGGCAAGGATGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229376 representing NM_001289599
 Red=Cloning site Green=Tags(s)

MCGHCQRLQPTWDLGDKYNSMEDAKVYVAKVDCTADSDVCSAQGVRYPTLKFFKPGQEAVKYQGPRDF
 ETLENWMLQTLNEEPATPEPEAEPPRAPELKQGLYELSANFELHVSQGNHF IKFFAPWCGHCKALAPTW
 EQLALGLEHSETVKIGKVDCTQHYAVCSEHQVRYPTLLWFRDGKKVDQYKGRDLESRLDYVQSLOGS
 EAAPETVEPSEAPVMAAEPTGDKGTVLALTEKSFEDTIAQGITFVKFYAPWCGHCKNLAPTWEELSKKEF
 PGLSDVTIAEVDCTAERNVCSKYSVRYPTLLLFRGGEKVGHEHNGRDLDSLHSFVLRQAKDEL

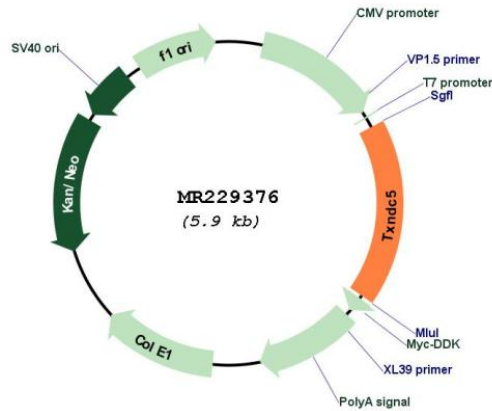
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289599

ORF Size: 1032 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:	<ol style="list-style-type: none">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_001289599.1 , NP_001276528.1
RefSeq Size:	2614 bp
RefSeq ORF:	1035 bp
Locus ID:	105245
UniProt ID:	Q91W90
Cytogenetics:	13 A3.3
MW:	39 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]