

Product datasheet for **MG206609**

Txndc5 (NM_145367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txndc5 (NM_145367) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Txndc5
Synonyms:	AL022641; ERp46; PC-TRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206609 representing NM_145367 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCGCCAGGACGCCTCCTCCAGCCGCTGGCCGGGCTGCCGGCCCTGGCCACGCTCCTGCTGC
TGCTCGGGGCGCGCAAAGGCGCCCGGGCCAGGAGGTGGAAGCGGACAGCGGGTTCGAGCAGGACCCGCA
CGCAAGCACCTGTATACGGCCGACATGTTACGCACGGGATCCAGAGCGCCGCGCACTTCGTATGTT
TTCGCGCCCTGGTGTGGACTGCCAGCGGCTGCAGCCAATTGGAATGACCTGGGAGACAAGTACAACA
GCATGGAGGATGCCAAGGTCTACGTGGCCAAAGTGGACTGCACGGCTGATTCGACGTGTGCTCTGCCA
GGAGTGCAGGATACCCACCCTGAAGTTTTTAAAGCCTGGACAAGAAGCAGTGAAGTACCAGGGTCT
AGAGACTTTGAAACACTGGAACACTGGATGCTGCAGACTGAACGAGGAGCCAGCCACACCCGGAGCCGG
AAGCGGAACCACCAGAGCCCTTGAGCTCAAACAGGGTGTATGAGCTCTCGGCAACAACCTTTGAGCT
GCATGTTTCTCAAGGCAACCACTTTATCAAGTTCTTCGCTCCGTGGTGGGTCAGTCAAAGCTCTGGCT
CCAACCTGGGAGCAGCTGGCTCTGGCCCTTGAACATTCTGAAACCGTCAAGATTGGCAAGTTGACTGCA
CGCAGCACTACGCTGTCTGCTCAGAGCATCAGGTGAGGCTATCCAACCTGCTCTGGTTTCGAGATGG
CAAGAAGTGGATCAGTACAAGGAAAGCGGGACTTGGAGTCACTGAGAGACTATGTGCAGTCCCAGCAG
CAGGGTTCAGAGGCAGCTCCGGAGACTGTTGAGCCGTGAGAGCCAGTGAAGTGGTCTGAGCCACGG
GTGACAAGGGCACTGTGCTGGCACTCACCGAGAAGAGCTTCGAGGACACTATTGCACAGGGGATAACCTT
CGTCAAGTTCTATGCTCCGTGGTGTGGCCACTGTAAGAATCTGGCTCCTACCTGGGAGGAGCTCTTAAA
AAGGAATCCCAGGCTTGTGAGATGTCACCATCGAGAAGTGGACTGCACCGCTGAGCGCAATGTCTGCA
GCAAGTACTCGGTACGAGGTTATCCACGTTGCTGCTTTCCGAGGAGGTGAAAAAGTGGGAGAACAACA
CGGAGGTAGAGACCTCGACTCCTTACACAGCTTTGTTCTGCGCCAGGCAAAGGATGAACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206609 representing NM_145367
Red=Cloning site Green=Tags(s)

MPPRPGRLLQPLAGLPALATLLLLL GARKGARAQVEADSGVEQDPHAKHLYTADMFTHGIQSAAHFVMF
 FAPWCGHCQRLQPTWNDLGDKYNSMEDAKVYVAKVDCTADSDVCSAQGVRGYPTLKFFKPGQEAVKYQGP
 RDFETLENWMLQTLNEEPATPEPEAEPPRALELKQGLYEL SANNFELHVSQGNHF IKFFAPWCGHCKALA
 PTWEQLALGLEHSETVKIGKVDCTQHYAVCSEHQVRGYPTLLWFRDGGKVDQYKGRDLESLRDYVQSQQ
 QGSEAAPEVPEPSEAPVMAAEPTGDKGTVLALTEKSFEDTIAQGITFVKFYAPWCGHCKNLAPTWEELSK
 KEFPGLSDVTIAEVDCTAERNVCSKYSVRGYPTLLLFRGGKVGGEHNGGRDLSLHSFVLRQAKDEL

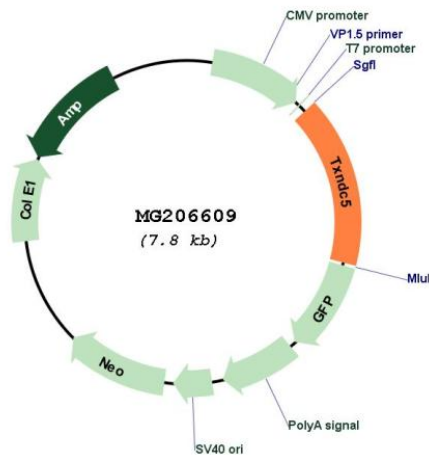
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145367

ORF Size:	1251 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_145367.2
RefSeq Size:	2639 bp
RefSeq ORF:	1254 bp
Locus ID:	105245
UniProt ID:	Q91W90
Cytogenetics:	13 A3.3
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]