

Product datasheet for **RG231581**

TXN (NM_001244938) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TXN (NM_001244938) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TXN
Synonyms: TRDX; TRX; TRX1; Trx80
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231581 representing NM_001244938
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGCAGATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAG
TAGTTGACTTCTCAGCCACGTGGTGTGGCCTTGCAAATGATCAAGCCTTCTTTCATGATGTTGCTTC
AGAGTGTGAAGTCAAATGCATGCCAACATTCCAGTTTTTAAGAAGGGACAAAAGGTGGGTGAATTTCT
GGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAAATGAATTAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231581 representing NM_001244938
Red=Cloning site Green=Tags(s)
MVKQIESKTAFQEALDAAGDKLVVDFSATWCGPCKMIKPFHFDVASECEVKCMPTFQFFKKGQKVGEFS
GANKEKLEATINELV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

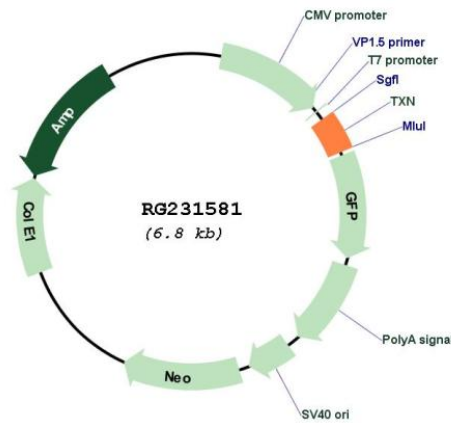


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001244938

ORF Size: 255 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_001244938.2
RefSeq Size:	826 bp
RefSeq ORF:	258 bp
Locus ID:	7295
UniProt ID:	P10599
Cytogenetics:	9q31.3
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]