

Product datasheet for **RG200344**

TXNL1 (NM_004786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNL1 (NM_004786) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TXNL1
Synonyms:	HEL-S-114; TRP32; TxI; TXL-1; TXNL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200344 representing NM_004786 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGGTGAAGCCCGTCGGGAGCGACCCGGATTTCCAGCCAGAGCTGAGCGGCGGGGCTCCAGAC
TCGCCGTGGTCAAGTTCACCATGAGAGGGTGTGGGCCATGTTTGAGGATTGCCCCAGCATTCAAGTCTAT
GAGTAATAAATATCCACAGGCTGTTTTCTTGAAGTCGATGTACATCAGTGTGAGGAACAGCTGCCACC
AACAAATATCAGCAACACCTACATTTTTGTTTTTCGAAACAAAGTGAGAATTGATCAATATCAAGGAG
CAGATGCTGTGGATTAGAAGAAAAATCAAGCAGCACTTAGAAAATGACCCTGGAAGCAATGAGGACAC
AGATATTCAAAAGGCTATATGGATTTAATGCCTTTTATTAACAAAGCTGGTTGTGAATGTCTTAATGAA
AGTGATGAGCATGGATTTGACAACCTGTTTACGAAAAGACACAACCTTCTTGAATCTGACTGTGATGAAC
AGCTGCTTACTGTGGCATTCAATCAACCTGTTAAGCTTTATCCATGAAATTTCAAGGGCCAGATAA
TGGTCAGGGCCCTAAATATGTAATAATTTTATCAACCTGCCCGATCTATGGATTTTGAAGAGGCAGAA
AGAAGTGAACCAACTCAAGCTCTGGAAGTACAGAGGATGATATTAAGAAGATGGCATTGTTCCACTTC
GTTATGTTAAGTTTCAGAATGTTAACAGTGAACATATTTGTTTCAGTCAATCAAGGTGAAGAGGAAAC
ACAAGAATTTTCATATTTTACTTTTATTTGGTACTCCAGTCCAGGCAACAAATATGAATGACTTCAAACGA
GTAGTTGGCAAAAAGGAGAAAGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200344 representing NM_004786
Red=Cloning site Green=Tags(s)

MVGKVPVGSDDPDFQPELSGAGSRLAVVKFTMRGCGPCLRIAPAFSSMSNKYPQAVFLEVDVHQCQGTAAAT
 NNI SATPTFLFRNKVRIIDQYQGADAVGLEEKIKQHLENDPGSNEDTDIPKGYMDLMPFINKAGCECLNE
 SDEHGFNDCLRKDITTFLESDCDEQLLITVAFNQPVKLYSMKFQGPDPNGQGPKYVKIFINLPRSMDFEEAE
 RSEPTQALELTEDDIKEDGIVPLRYVKFQNVNSVTIFVQSNQGEETTRISYFTFIGTPVQATNMNDFKR
 VVGKKGESH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004786

ORF Size: 867 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_004786.1](#), [NP_004777.1](#)

RefSeq Size: 1285 bp

RefSeq ORF: 870 bp

Locus ID: 9352

UniProt ID: [O43396](#)

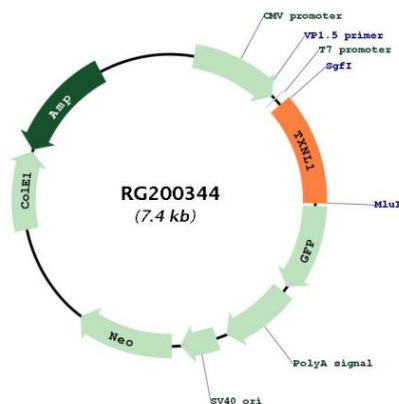
Cytogenetics: 18q21.31

Domains: thiored

Protein Families: Druggable Genome

Gene Summary: Active thioredoxin with a redox potential of about -250 mV.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200344