

Product datasheet for **RC200344**

TXNL1 (NM_004786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNL1 (NM_004786) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TXNL1
Synonyms:	HEL-S-114; TRP32; TxI; TXL-1; TXNL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200344 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGGTGAAGCCCGTCGGGAGCGACCCGGATTTCCAGCCAGAGCTGAGCGGCGGGGCTCCAGAC
TCGCCGTGGTCAAGTTCACCATGAGAGGGTGTGGGCCATGTTTGAGGATTGCCCCAGCATTCAAGTCTAT
GAGTAATAAATATCCACAGGCTGTTTTCTTGAAGTCGATGTACATCAGTGTGAGGAACAGCTGCCACC
AACAAATATCAGCAACACCTACATTTTTGTTTTTCGAAACAAAGTGAATGATCAATATCAAGGAG
CAGATGCTGTGGATTAGAAGAAAAATCAAGCAGCACTTAGAAAATGACCCTGGAAGCAATGAGGACAC
AGATATTCAAAAGGCTATATGGATTTAATGCCTTTTATTAACAAAGCTGGTTGTGAATGTCTTAATGAA
AGTGATGAGCATGGATTTGACAACCTGTTACGAAAAGACACAACCTTCTTGAATCTGACTGTGATGAAC
AGCTGCTTACTGTGGCATTCAATCAACCTGTTAAGCTTTATTCATGAAATTTCAAGGGCCAGATAA
TGGTCAGGGCCCTAAATATGTAATAATTTTATCAACCTGCCCGATCTATGGATTTTGAAGAGGCAGAA
AGAAGTGAACCAACTCAAGCTCTGGAAGTACAGAGGATGATATTAAGAAGATGGCATTGTTCCACTTC
GTTATGTTAAGTTTCAGAATGTTAACAGTGAACATATTTGTTTCAGTCAATCAAGGTGAAGAGGAAAC
ACAAGAATTTTCATTTTTACTTTTTATTGGTACTCCAGTCCAGGCAACAAATATGAATGACTTCAAACGA
GTAGTTGGCAAAAAGGAGAAAGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200344 protein sequence
Red=Cloning site Green=Tags(s)

MVGVKPVGSDPDFQPELSGAGSRLAVVKFTMRGCGPCLRIAPAFSSMSNKYPQAVFLEVDVHQCQGTAAAT
 NNI SATPTFLFRNKVRIIDQYQGADAVGLEEKIKQHLENDPGSNEDTDIPKGYMDLMPFINKAGCECLNE
 SDEHGFNDCLRKDDTTFLESDCDEQLLITVAFNQPVKLYSMKFQGPDPNGQGPKYVKIFINLPRSMDFEEAE
 RSEPTQALELTEDDIKEDGIVPLRYVKFQNVNSVTIFVQSNQGEETTRISYFTFIGTPVQATNMNDFKR
 VVGKKGESH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6394_a01.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004786.3](#)

RefSeq Size: 1329 bp

RefSeq ORF: 870 bp

Locus ID: 9352

UniProt ID: [O43396](#)

Cytogenetics: 18q21.31

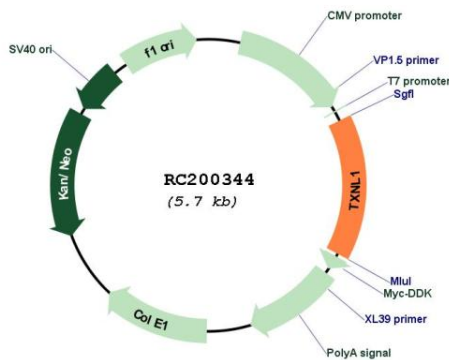
Domains: thiored

Protein Families: Druggable Genome

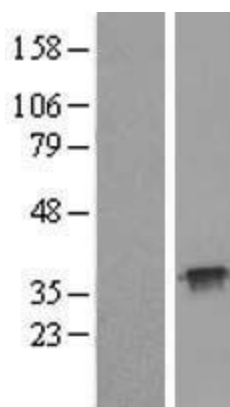
MW: 32.3 kDa

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

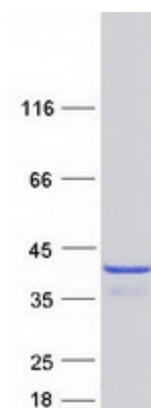
Product images:



Circular map for RC200344



Western blot validation of overexpression lysate (Cat# [LY417753]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200344 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TXNL1 protein (Cat# [TP300344]). The protein was produced from HEK293T cells transfected with TXNL1 cDNA clone (Cat# RC200344) using MegaTran 2.0 (Cat# [TT210002]).