

Product datasheet for **RC204346**

TXNL6 (NXNL1) (NM_138454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNL6 (NXNL1) (NM_138454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TXNL6
Synonyms:	RDCVF; TXNL6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204346 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCCTGTTCTCTGGCCGCATCCTGATCCGCAACAATAGCGACCAGGACGAGCTGGATACGGAGG
CTGAGGTCAGTCGCAGGCTGGAGAACCGGCTGGTGCTGCTGTTCTTTGGTGCTGGGGCTTGTCACAGTG
CCAGGCCTTCGTGCCATCCTCAAGGACTTCTTCGTGCGGCTCACAGATGAGTTCTATGTACTGCGGGCG
GCTCAGCTGGCCCTGGTGTACGTGTCCAGGACTCCACGGAGGAGCAGCAGGACCTGTTCTCAAGGACA
TGCCAAAGAAATGGCTTTTCTGCCCTTTGAGGATGATCTGAGGAGGGACCTCGGGCGCCAGTTCTCAGT
GGAGCGCCTGCCGGCGGTGCTGAGGCTCAAGCCGACGGGGACGTGCTCACTCGCGACGGCGCCGACGAG
ATCCAGCGCCTGGGCACCGCCTGCTTCGCCAACTGGCAGGAGGCGGCGGAGGTGCTGGACCGCAACTTCC
AGCTGCCAGAGGACCTGGAGGACCAGGAGCCACGGAGCCTCACCGAGTGCCTGCGCCGCCACAAGTACCG
CGTGGAAGAGGCGGCGGAGGCGGGCGGACCCGGGGGAGGGGTGGGAGGAGGGCGGGGCGGGGGG
CTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204346 protein sequence
Red=Cloning site Green=Tags(s)

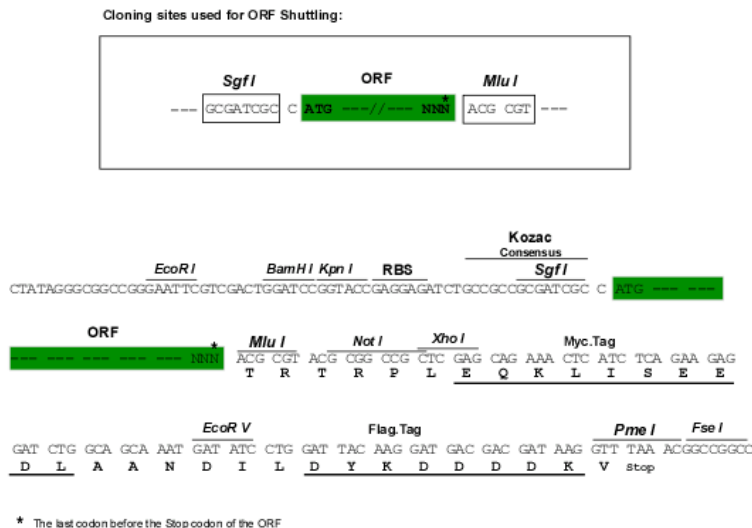
MASLFSGRILIRNSDQDELDTAEVSRRLLENRLVLLFFGAGACPQCQAFVPIKDDFFVRLTDEFYVYLR
 AQLALVYVSQDSTEEQQDLFLKMPKKWFLFPFEDDLRRDLGRQFSVERLPAVVVLKPDGDLTRDGADE
 IQRLGTACFANWQEAEEVLDRNFQLPEDLEDQEPRSLTECLRRHKYRVEKAARGGRDPGGGGGEEGGAGG
 I E

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6171_a02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 138454

ORF Size: 636 bp

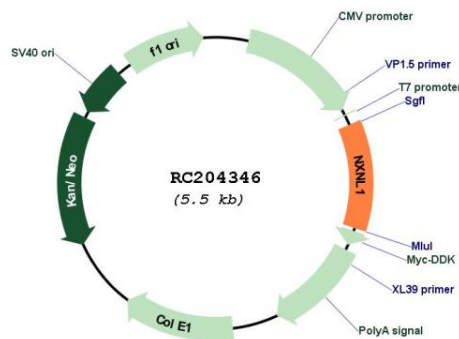
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

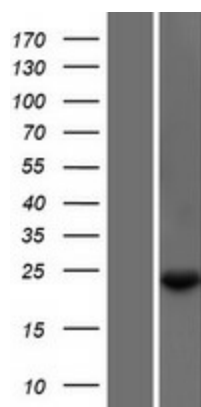
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_138454.2</u>
RefSeq Size:	948 bp
RefSeq ORF:	639 bp
Locus ID:	115861
UniProt ID:	<u>Q96CM4</u>
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome
MW:	23.9 kDa
Gene Summary:	Retinitis pigmentosa (RP) is a disease that leads to blindness by degeneration of cone photoreceptors. Rods produce factors required for cone viability. The protein encoded by this gene is one of those factors and is similar to a truncated form of thioredoxin. This gene has been proposed to have therapeutic value against RP. [provided by RefSeq, Dec 2015]

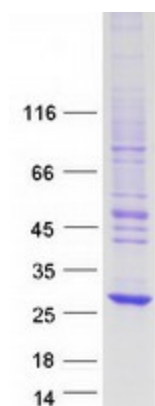
Product images:



Circular map for RC204346



Western blot validation of overexpression lysate (Cat# [LY408604]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204346 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NXNL1 protein (Cat# [TP304346]). The protein was produced from HEK293T cells transfected with NXNL1 cDNA clone (Cat# RC204346) using MegaTran 2.0 (Cat# [TT210002]).