

Product datasheet for **RC200266**

TXNL4A (NM_006701) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TXNL4A (NM_006701) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TXNL4A
Synonyms: BMKS; DIB1; DIM1; SNRNP15; TXNL4; U5-15kD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200266 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGTACATGCTCCCGCACCTGCACAACGGCTGGCAGGTGGACCAGGCCATCCTCTCGGAGGAGGACC
GCGTGGTCGTATCCGCTTCGGCCACGACTGGGATCCTACGTGCATGAAGATGGACGAGGTCCTGTACAG
CATCGCCGAGAAGGTTAAAAATTTGCAGTTATTTATCTTGTGGATTACAGAAAGTGCCTGACTTCAAC
AAAATGTATGAGTTATACGATCCATGTACTGTCATGTTTTCTTCAGGAACAAGCACATCATGATTGACT
TGGGGACTGGCAACAACAAGATTAAGTGGCCATGGAGGACAAGCAGGAGATGGTGGACATCATCGA
GACGGTGTACCGGGGGCCGAAAGGCCGCGCCTGGTGGTGTCCCCAAGGACTACTCCACCAAGTAC
CGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200266 protein sequence
Red=Cloning site Green=Tags(s)
MSYMLPHLHNGWQVDQAILSEEDRVVIRFGHDWDPTCMKMEVLYSIAEKVKNFAVIYLV DITEVPDFN
KMYELYPCTVMFFFRNKHIMIDLGTGNNKINWAMEDKQEMVDIIETVYRGARKGRGLVSPKDYSTKY
RY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6582_h06.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006701

ORF Size: 426 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_006701.5](#)

RefSeq Size: 1415 bp

RefSeq ORF: 429 bp

Locus ID: 10907

UniProt ID: [P83876](#)

Cytogenetics: 18q23

Domains: DIM1

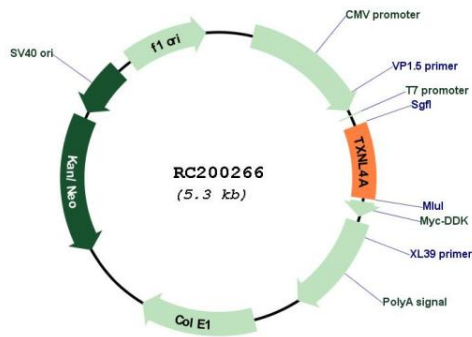
Protein Families: Druggable Genome

Protein Pathways: Spliceosome

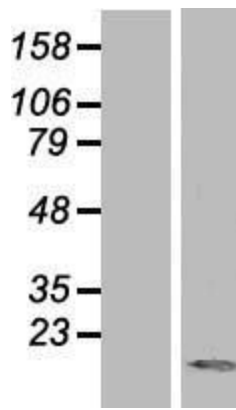
MW: 16.8 kDa

Gene Summary: The protein encoded by this gene is a member of the U5 small ribonucleoprotein particle (snRNP), and is involved in pre-mRNA splicing. This protein contains a thioredoxin-like fold and it is expected to interact with multiple proteins. Protein-protein interactions have been observed with the polyglutamine tract-binding protein 1 (PQBP1). Mutations in both the coding region and promoter region of this gene have been associated with Burn-McKeown syndrome, which is a rare disorder characterized by craniofacial dysmorphisms, cardiac defects, hearing loss, and bilateral choanal atresia. A pseudogene of this gene is found on chromosome 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

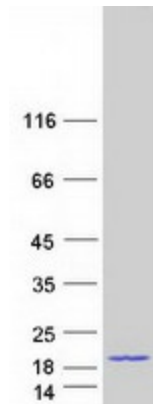
Product images:



Circular map for RC200266



Western blot validation of overexpression lysate (Cat# [LY416472]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200266 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TXNL4A protein (Cat# [TP300266]). The protein was produced from HEK293T cells transfected with TXNL4A cDNA clone (Cat# RC200266) using MegaTran 2.0 (Cat# [TT210002]).