

Product datasheet for **RG200266**

TXNL4A (NM_006701) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TXNL4A (NM_006701) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TXNL4A
Synonyms: BMKS; DIB1; DIM1; SNRNP15; TXNL4; U5-15kD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200266 representing NM_006701
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGTACATGCTCCCGCACCTGCACAACGGCTGGCAGGTGGACCAGGCCATCCTCTCGGAGGAGGACC
 GCGTGGTCGTATCCGCTTCGGCCACGACTGGGATCCTACGTGCATGAAGATGGACGAGGTCCTGTACAG
 CATCGCCGAGAAGGTTAAAAATTTGCAGTTATTTATCTTGTGGATATTACAGAAGTGCCTGACTTCAAC
 AAAATGTATGAGTTATACGATCCATGTACTGTCATGTTTTCTTCAGGAACAAGCACATCATGATTGACT
 TGGGGACTGGCAACAACAAGATTAAGTGGCCATGGAGGACAAGCAGGAGATGGTGGACATCATCGA
 GACGGTGTACCGGGGGCCGAAAGGCCGCGCCTGGTGGTGTCCCCAAGGACTACTCCACCAAGTAC
 CGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200266 representing NM_006701
 Red=Cloning site Green=Tags(s)

MSYMLPHLHNGWQVDQAILSEEDRVVIRFGHDWDPTCMKMEVLYSIAEKVKNFAVIYLV DITEVPDFN
 KMYELYDPCTVMFFFRNKHIMIDLGTGNNKINWAMEDKQEMVDIIETVYRGARKGRGLVSPKDYSTKY
 RY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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
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 RG200266