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Product datasheet for RC220722

TNXB (NM_032470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNXB (NM_032470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNXB
Synonyms:	EDS3; EDSCLL; EDSCLL1; HXBL; TENX; TN-X; TNX; TNXB1; TNXB2; TNXBS; VUR8; XB; XBS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220722 representing NM_032470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCCTCTCGTGGAGCGTGGCCCAGGGCCCCTTTGATTCCTTCGTGGTCCAGTATGAGGACACGAACG
GGCAGCCCCAGGCCTTGCTCGTGGACGGCGACCAGAGCAAGATCCTCATCTCAGGCCTGGAGCCCAGCAC
CCCCTACAGGTTCCTCCTCTATGGCCTCCATGAAGGGAAGCGCCTGGGGCCCCTCTCAGCTGAGGGCACC
ACAGGGCTGGCTCCTGCTGGTCAGACCTCAGAGGAGTCAAGGCCCCGCCTGTCCCAGCTGTCTGTGACTG
ACGTGACCACCAGTTCACTGAGGCTCAACTGGGAGGCCCCACCGGGGGCCTTCGACTCCTTCCTGCTCCG
CTTTGGGGTTCCATCACCAAGCACACTGGAGCCGCATCCGCGTCCACTGCTGCAGCGCGAGCTGATGGTG
CCGGGGACGCGGCACTCGGCCGTGCTCCGGGACCTGCGTTCCGGGACTCTGTACAGCCTGACACTGTATG
GGCTGCGAGGACCCCACAAGGCCGACAGCATCCAGGGAACCGCCCGCACCCTCAGCCCAGTTCTGGAGAG
CCCCCGTGACCTCCAATTCAGTGAAATCAGGGAGACCTCAGCCAAGGTCAACTGGATGCCCCCACCATCC
CGGGCGGACAGCTTCAAAGTCTCCTACCAGCTGGCGGACGGAGGGGAGCCTCAGAGTGTGCAGGTGGATG
GCCAGGCCCGGACCCAGAAACTCCAGGGGCTGATCCCAGGCGCTCGCTATGAGGTGACCGTGGTCTCGGT
CCGAGGCTTTGAGGAGAGTGAGCCTCTCACAGGCTTCCTCACCACGGTTCCTGACGGTCCCACACAGTTG
CGTGCACTGAACTTGACCGAGGGATTCGCCGTGCTGCACTGGAAGCCCCCCCAGAATCCTGTAGACACCT
ATGACATCCAGGTCACAGCCCCTGGGGCCCCGCCTCTGCAGGCGGAGACCCCAGGCAGCGCGGTGGACTA
CCCCCTGCATGACCTTGTCCTCCACACCAACTACACCGCCACAGTGCGTGGCCTGCGGGGCCCCAACCTC
ACTTCCCCAGCCAGCATCACCTTCACCACAGGGCTAGAGGCCCCTCGGGACTTGGAGGCCAAGGAAGTGA
CCCCCCGCACCGCCCTGCTCACTTGGACTGAGCCCCCAGTCCGGCCCGCAGGCTACCTGCTCAGCTTCCA
CACCCCTGGTGGACAGACCCAGGAGATCCTGCTCCCAGGAGGGATCACATCTCACCAGCTCCTTGGCCTC
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CCTCTTTCACCACGGGTGGGCTGCGGATCCCCTTCCCCAGGGACTGCGGGGAGGAGATGCAGAACGGAGC
CGGTGCCTCCAGGACCAGCACCATCTTCCTCAACGGCAACCGCGAGCGGCCCCTGATCGTGTTTTGCGAC
ATGGAGACTGATGGGGGCGGCTGGCTGGTGTTCCAGCGCCGCATGGATGGACAGACAGACTTCTGGAGGG
ACTGGGAGGACTATGCCCATGGTTTTGGGAACATCTCTGGAGAGTTCTGGCTGGGCAATGAGGCCCTGCA
CAGCCTGACACAGGCAGGTGACTACTCCATGCGCGTGGACCTGCGGGCTGGGGACGAGGCTGTGTTCGCC
CAGTACGACTCCTTCCACGTAGACTCGGCTGCGGAGTACTACCGCCTCCACTTGGAGGGCTACCACGGCA
CCGCAGGGGACTCCATGAGCTACCACAGCGGCAGTGTCTTCTCTGCCCGTGATCGGGACCCCAACAGCTT
GCTCATCTCCTGCGCTGTCTCCTACCGAGGGGCCTGGTGGTACAGGAACTGCCACTACGCCAACCTCAAC
GGGCTCTACGGGAGCACAGTGGACCATCAGGGAGTGAGCTGGTACCACTGGAAGGGCTTCGAGTTCTCGG
TGCCCTTCACGGAAATGAAGCTGAGACCAAGAAACTTTCGCTCCCCAGCGGGGGGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220722 representing NM_032470
Red=Cloning site Green=Tags(s)

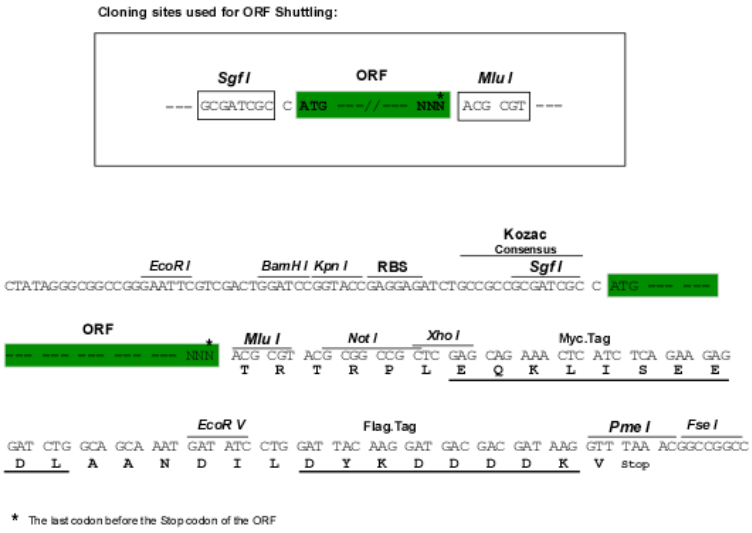
MRLSWSVAQGPFDSFVVQYEDTNGQPQALLVDGDQSKILISGLEPSTPYRFLLYGLHEGKRLGPLSAEGT
TGLAPAGQTSEESRPRLSQLSVTDVTTSSLRLNWEAPPGAFDSFLLRFGVPSPSTLEPHPRPLLQRELMV
PGTRHSAVLRDLRSGTLYSLTLYGLRGPHKADSIQGTARTLSPVLESPRDLQFSEIRETSAKVNWMPPPS
RADSFKVSYQLADGGEPQSVQVDGQARTQKLQGLIPGARYEVTVVSVRGFEESEPLTGFLTTVPDGPTQL
RALNLTEGFAVLHWKPPQNPVDTYDIQVTAPGAPPLQAETPGSAVDYPLHDLVLHTNYTATVRGLRGPNL
TSPASITFTTGLEAPRDLEAKEVTPRTALLTWTEPPVRPAGYLLSFHTPGGQTQEILLPGGITSHQLLGL
FPSTSYNARLQAMWGQSLLPPVSTSFTTGGLRIPFPRDCGEEMQNGAGASRTSTIFLNGNRERPLIVFCD
METDGGGWLVFQRRMDGQTDFWRDWEDYAHGFGNISGEFWLGNEALHSLTQAGDYSMRVDLRAGDEAVFA
QYDSFHVDSAAEYYRLHLEGYHGTAGDSMSYHSGSVFSARDRDPNSLLISCAVSYRGAWWYRNCHYANLN
GLYGSTVDHQGVSWYHWKGFEFSVPFTEMKLRPRNFRSPAGGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6483_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032470

ORF Size: 2019 bp

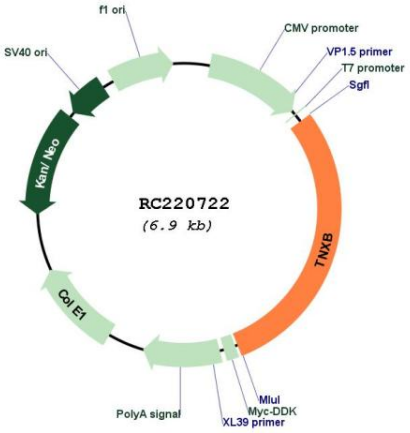
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

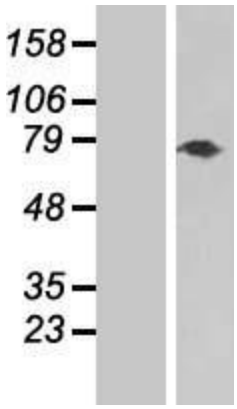
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_032470.3
RefSeq Size:	3129 bp
RefSeq ORF:	2022 bp
Locus ID:	7148
UniProt ID:	P22105
Cytogenetics:	6p21.33-p21.32
Domains:	FBG, FN3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion
MW:	73.8 kDa
Gene Summary:	This gene encodes a member of the tenascin family of extracellular matrix glycoproteins. The tenascins have anti-adhesive effects, as opposed to fibronectin which is adhesive. This protein is thought to function in matrix maturation during wound healing, and its deficiency has been associated with the connective tissue disorder Ehlers-Danlos syndrome. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. It is one of four genes in this cluster which have been duplicated. The duplicated copy of this gene is incomplete and is a pseudogene which is transcribed but does not encode a protein. The structure of this gene is unusual in that it overlaps the CREBL1 and CYP21A2 genes at its 5' and 3' ends, respectively. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220722



Western blot validation of overexpression lysate (Cat# [LY410102]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).