

## Product datasheet for **SC109841**

### **TNXB (NM\_032470) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | TNXB (NM_032470) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | TNXB   |
| Synonyms:                 | EDS3; EDSCLL; EDSCLL1; HXBL; TENX; TN-X; TNX; TNXB1; TNXB2; TNXBS; VUR8; XB; XBS |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>   |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |



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**Fully Sequenced ORF:** >OriGene ORF within SC109841 sequence for NM\_032470 edited (data generated by NextGen Sequencing)

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ATGCGCCTCTCGTGGAGCGTGGCCAGGGCCCCTTTGATTCTTCGTGGTCCAGTATGAG
GACACGAACGGGCAGCCCCAGGCCTTGCTCGTGGACGGCGACCAGAGCAAGATCCTCATC
TCAGGCCTGGAGCCCAGCACCCCTACAGGTTCTCTCTATGGCCTCCATGAAGGAAG
CGCCTGGGGCCCCCTCAGCTGAGGGCACACAGGGCTGGCTCCTGCTGGTCAGACCTCA
GAGGAGTCAAGGCCCGCCTGTCCAGCTGTCTGTGACTGACGTGACCACCAGTTCACGTG
AGGCTCAACTGGGAGGCCCCACCGGGGGCCTTCGACTCCTTCTGCTCCGCTTTGGGGTT
CCATCACCAAGCACACTGGAGCCGCATCCGCGTCCACTGCTGCAGCGCGAGCTGATGGTG
CCGGGGACCGCGCACTCGGCCGTGCTCCGGGACCTGCGTTCGGGACTCTGTACAGCCTG
ACACTGTATGGGCTGCGAGGACCCACAAAGGCCGACAGCATCCAGGGAACCGCCCGCACC
CTCAGCCCAGTTCTGGAGAGCCCCGTGACCTCCAATTCAAGTAAATCAGGGAGACCTCA
GCCAAGGTCAACTGGATGCCCCACCATCCCGGGCGGACAGCTTCAAAGTCTCTACCAG
CTGGCGGACGGAGGGGAGCCTCAGAGTGTGACAGTGGATGGCCAGGCCCGGACCCAGAAA
CTCCAGGGGCTGATCCCAGGCGCTCGCTATGAGGTGACCGTGGTCTCGGTCCGAGGCTTT
GAGGAGAGTGAGCCTCTCACAGGCTTCTCACACGGTTCCTGACGGTCCACACAGTTG
CGTGCACTGAACTTGACCGAGGGATTCCGCCGTGCTGCACTGGAAGCCCCCCCAGAATCCT
GTAGACACCTATGACATCCAGGTCACAGCCCCTGGGGCCCCGCTCTGCAGGCGGAGACC
CCAGGCAGCGCGGTGGACTACCCCTGCATGACCTTGTCTCCACACCAACTACACCGCC
ACAGTGCCTGGCTGCGGGGCCCCAACCTCACTTCCCCAGCCAGCATCACCTTACCACA
GGGCTAGAGGCCCTCGGACTTGGAGGCCAAGGAAGTGAACCCCGCACCGCCCTGCTC
ACTTGGACTGAGCCCCAGTCCGGCCCCGAGGCTACCTGCTCAGCTTCCACACCCCTGGT
GGACAGCCAGGAGATCCTGCTCCAGGAGGGATCACATCTACCAGCTCCTTGGCCTC
TTTCCCTCCACCTCCTACAATGCACGGCTCCAGGCCATGTGGGGCCAGAGCCTCCTGCCG
CCCGTGTCCACCTCTTTACCACGGGTGGGCTGCGGATCCCTTCCCCAGGGACTGCGGG
GAGGAGATGCAGAACGGAGCCGGTGCCTCCAGGACCAGCACCATCTTCTCAACGGCAAC
CGCGAGCGGCCCTGATCGTGTGTTTGGACATGGAGACTGATGGGGGGCGGCTGGCTGGTG
TTCCAGCGCCGCATGGATGGACAGACAGACTTCTGGAGGGACTGGGAGGACTATGCCCAT
GGTTTTGGGAACATCTCTGGAGAGTTCTGGCTGGGCAATGAGGCCCTGCACAGCCTGACA
CAGGCAGGTGACTACTCCATGCGCGTGGACCTGCGGGCTGGGACGAGGCTGTGTTGCC
CAGTACGACTCCTTCCAGTAGACTCGGCTGCGGAGTACTACCGCCTCCACTTGGAGGGC
TACCACGGCACCGCAGGGGACTCCATGAGCTACCACAGCGGCAGTGTCTTCTCTGCCCGT
GATCGGGACCCCAACAGCTTGTCTCATCTCTGCGCTGTCTCTACCGAGGGGCTGGTGG
TACAGGAAGTCCACTACGCCAACCTCAACGGGCTCTACGGGAGCACAGTGGACCATCAG
GGAGTGAGCTGGTACCACTGGAAGGGCTTCGAGTTCTCGGTGCCCTTACGGAAATGAAG
CTGAGACCAAGAACTTTGCTCCCCAGCGGGGGAGGCTGA

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Clone variation with respect to NM\_032470.3  
 375 t=>a;903 g=>a;916 g=>a;1208 a=>c;1457 a=>t

|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_032470 unedited<br/>           NNCCCNNCCCNNNNNCCNNNNNNCCTGTCAGATTTGTATACGATCATATAGGCGGCCG<br/>           CGNAATTCGCACCAGCTGGGNATGACAGCCCCANAAAAGGACACACCAGCCCCAGAGTTA<br/>           GCCCCAGAGGCCCTGAGCCTCTGAAGAGCCCCGCTAGGAGTCTGACCGTGACCGAC<br/>           ACAACCCAGACTCCATGCGCCTCTCGTGGAGCGTGGCCAGGGCCCTTTGATTCTTC<br/>           GTGGTCCAGTATGAGGACACGAACGGGCAGCCCCAGGCTTGTCTGTGGACGGGACCCAG<br/>           AGCAAGATCCTCATCTCAGGCCCTGGAGCCAGCACCCCCACAGGTTCCCTCTATGGC<br/>           CTCCATGAAGGGAAGCGCTGGGGCCCCCTCAGCTGAGGGCACACAGGGCTGGCTCCT<br/>           GCTGGTCAGACCTCAGAGGAGTCAAGGCCCGCCTGTCCAGCTGTCTGTGACTGACGTG<br/>           ACCACCAGTTCAGTGGGCTCAACTGGGAGGCCACCAGGGGCTTCGACTCCTTCCTG<br/>           CTCCGCTTTGGGTTCCATCACCAAGCACACTGGAGCCGATCCGCGTCCACTGCTGCAG<br/>           CGCGAGCTGATGGTGCCGGGACGCGGCACTCGGCCGTGCTCCGGGACCTGCGTTCGGG<br/>           ACTCTGTACAGCCTGACTGTATGGGCTGCGAGGACCCACANGGCCGACAGCATCCAG<br/>           GGAACCGNCCGCACCCTCAGCCAGTTCTGGGAGAGCCNCGTGACCTCCATTNCAGTGA<br/>           AATCAGGGAGACCTCAGCCAAGTCAACTGGATGCCCCACATCCCGGGGACAGCTTNC<br/>           AAGTCTCCTACCCTGGCGNACGNAGGGGAGCCTCANATGTGCCAGTGGATGGCCANNGC<br/>           CCGNACCAGAACTCCAGGCCTGA</p>  |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_032470 unedited<br/>           GGGGGGGNNNNNNNNNNNTTTNNNNNAANAAAATCTGNACCGCGCCGATACTANG<br/>           ATCGGTTTTTTTTTTTTTTTTTTTACCTCAGTTTCTCCTTTATTGCTCCCGTACGAACCG<br/>           CTCCCCTCCCCCTGTAAACACAGTGTGCGAGATCGCTGGCAGAGAAGGCTTCTCCAG<br/>           CGGCTGGGTGGTGAAGGACCCTGGCTCTTCTCTCGGGGCGACCCCTCAGTGTCCGCAGT<br/>           CATACTGGGTGCGAGAGAGGTGGGCAGCAGCTCAGCCTCCCCCGCTGGGGAGCGAAAG<br/>           TTTCTTGGTCTCAGTTCATTTCCGTGAAGGGACCGAGAAGTCAAGCCCTTCCAGTGG<br/>           TACCAGTCACTCCCTGATGGTCCACTGTGCTCCCGTAGAGCCGTTGAGGTTGGCGTAG<br/>           TGGCAGTTCCTGTACCACCAGGCCCTCGGTAGGAGACAGCGCAGGAGATGAGCAAGCTG<br/>           TTGGGGTCCCGATCACGGGCAGAGAAGACACTGCCGCTGTGGTAGCTCATGGAGTCCCCT<br/>           GCGGTGCCGTGGTAGCCCTCCAAGTGGAGGCGGTAGTACTCCGCAGCCGAGTCTACGTGG<br/>           AAGGAGTCGTACTGGGCGAACACAGCCTCGTCCCAGCCGAGTCCACGCGCATGGAG<br/>           TAGTCACCTGCCTGTGTGAGGCTGTGACAGNCCTATTGCCAGCCAGACTCTCCAGAGA<br/>           TGTTCCAAAAACATGGNCATAGTCTCCAGTCCCTCCAGAAGTCTGTCTGTCCATCCA<br/>           TTGCGCGCTGGGACACCAGCCAGCCCGCCCATCAGTCTCCATGTGCGAAACACGATCAN<br/>           GGGCCCGCTCGCGTTTGCCTTGGAGAAAATGTGCCTGTCTGNAGCCACCGGTCCGCTG<br/>           CATCTCTNCCGAGTCTGGGGAAGGGGATCGCACCCACCCGTGTGAAAGAGGTGGACCCG<br/>           GCGNNNAGAGCTCTGGCCCCATGCCTGGAAGTGCATTGGAGAGGGG</p> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_032470   |
| <b>Insert Size:</b>                 | 2390 bp   |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>                  | 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\\_032470.2](#), [NP\\_115859.2](#)

**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

**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]

Transcript Variant: This variant (XB-S) is transcribed from a cryptic internal promoter sequence and is substantially shorter than variant 3 at the 5' end. It encodes isoform 2, which is identical to the C-terminus of the full-length protein, isoform 3.