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Product datasheet for SC109827

TBX3 (NM_016569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX3 (NM_016569) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX3
Synonyms:	TBX3-ISO; UMS; XHL
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC109827 sequence for NM_016569 edited (data generated by NextGen Sequencing)

ATGAGCCTCTCCATGAGAGATCCGGTCATTCCTGGGACAAGCATGGCCTACCATCCGTTC
CTACCTCACCGGGCGCCGGACTTCGCCATGAGCGCGGTGCTGGGTCACCAGCCGCCGTTC
TTCCCCGCGCTGACGCTGCCTCCCAACGGCGCGGCGGCGCTCTCGCTGCCGGGCGCCCTG
GCCAAGCCGATCATGGATCAATTGGTGGGGGCGGCCGAGACCGGCATCCCGTTCTCCTCC
CTGGGGCCCCAGGCGCATCTGAGGCCTTTGAAGACCATGGAGCCCGAAGAAGAGGTGGAG
GACGACCCCAAGGTGCACCTGGAGGCTAAAGAACTTTGGGATCAGTTTCACAAGCGGGGC
ACCGAGATGGTCATTACCAAGTCGGGAAGGCGAATGTTTCCTCCATTTAAAGTGAGATGT
TCTGGGCTGGATAAAAAAGCCAAATACATTTTATTGATGGACATTATAGCTGCTGATGAC
TGTCGTTATAAATTTCACAATTCTCGGTGGATGGTGGCTGGTAAGGCCGACCCCGAAATG
CCAAAGAGGATGTACATTCACCCGGACAGCCCCGCTACTGGGGAACAGTGGATGTCCAAA
GTCGTCACTTTCCACAAACTGAAACTCACCAACAACATTTCAGACAAACATGGATTTACT
TTGGNNNTCCCAAGTGATCACGCTACGTGGCAGGGGAATTATAGTTTTGGTACTCAGACT
ATATTGAACTCCATGCACAAATACCAGCCCCGGTTCCACATTGTAAGAGCCAATGACATC
TTGAAACTCCCTTATAGTACATTTCGGACATACTTGTTCCCCGAAACTGAATTCATCGCT
GTGACTGCATACCAGAATGATAAGATAACCCAGTTAAAAATAGACAACAACCCTTTTGCA
AAAGGTTTCCGGGACACTGGAAATGGCCGAAGAGAAAAAAGAAAACAGCTCACCCTGCAG
TCCATGAGGGTGTTTGATGAAAGACACAAAAAGGAGAATGGGACCTCTGATGAGTCCTCC
AGTGAACAAGCAGCTTTCAACTGCTTCGCCCAGGCTTCTTCTCCAGCCGCCTCCACTGTA
GGGACATCGAACCTCAAAGATTTATGTCCCAGCGAGGGTGAGAGCGACGCCGAGGCCGAG
AGCAAAGAGGAGCATGGCCCCGAGGCCTGCGACGCGGCCAAGATCTCCACCACCACGTCG
GAGGAGCCCTGCCGTGACAAGGGCAGCCCCGCGGTCAAGGCTCACCTTTTCGCTGCTGAG
CGGCCCCGGGACAGCGGGCGGCTGGACAAAGCGTCGCCCGACTCACGCCATAGCCCCGCC
ACCATCTCGTCCAGCACTCGCGGCCTGGGCGCGGAGGAGCGCAGGAGCCCGGTTCGCGAG
GGCACAGCGCCGGCCAAGGTGGAAGAGGCGCGCGCGCTCCCGGGCAAGGAGGCCTTCGCG
CCGCTCACGGTGCAGACGGACGCGGCCGCCGCGCACCTGGCCCAGGGCCCCCTGCCTGGC
CTCGGCTTCGCCCCGGGCCTGGCGGGCCAACAGTTCTTCAACGGGCACCCGCTCTTCCTG
CACCCCAGCCAGTTTGCCATGGGGGGCGCCTTCTCCAGCATGGCGGCCGCTGGCATGGGT
CCCCTCCTGGCCACGGTTTCTGGGGCCTCCACCGGTGTCTCGGGCCTGGATTCCACGGCC
ATGGCCTCTGCCGCTGCGGCGCAGGGACTGTCCGGGGCGTCCGCGGCCACCCTGCCCTTC
CACCTCCAGCAGCACGTCCTGGCCTCTCAGGGCCTGGCCATGTCCCCTTTCGGAAGCCTG
TTCCCTTACCCCTACACGTACATGGCCGCAGCGGCGGCCGCCTCCTCTGCGGCAGCCTCC
AGCTCGGTGCACCGCCACCCCTTCCTCAATCTGAACACCATGCGCCCGCGGCTGCGCTAC
AGCCCCTACTCCATCCCGGTGCCGGTCCCGGACGGCAGCAGTCTGCTCACCACCGCCCTG
CCCTCCATGGCGGCGGCCGCGGGGCCCCTGGACGGCAAAGTCGCCGCCCTGGCCGCCAGC
CCGGCCTCGGTGGCAGTGGACTCGGGCTCTGAACTCAACAGCCGCTCCTCCACGCTCTCC
TCCAGCTCCATGTCCTTGTCGCCCAAACTCTGCGCGGAGAAAGAGGCGGCCACCAGCGAA
CTGCAGAGCATCCAGCGGTTGGTTAGCGGCTTGGAAGCCAAGCCGGACAGGTCCCGCAGC
GCGTCCCCGTAG

Clone variation with respect to NM_016569.3
665 c=>n;666 c=>n;667 t=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016569 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCACCAGCGAGAAAGA
GGAGAGGAAGACAGATAGGGGGCGGGGGAAGAAGAAAAAGAAAGGTAAAAAGTCTTCTAG
GAGAACCTTTCACATTTGCAACAAAAGACCTAGGGGCTGGAGAGAGATTCCTGGGACGCA
GGGCTGGAGTGTCTATTTCGAGCTCAGCGGCAGGGCTCGGGCGCGAGTCGAGACCCTGCT
CGCTCCTCTCGCTTCTGAAACCGACGTTCAGGAGCGGCTTTTTAAAAACGCAAGGCACAA
GGACGGTCACCCGCGCGACTATGTTTGCTGATTTTTCGCCTTGCCCTCTTTAAAAGCGGC
CTCCCATTCCCCAAAAGACACTTCCCCTCCTCCCTTTGAAGTGCATTAGTTGTGATTTCT
GCCTCCTTTTCTTTTTTCTTTCTTTTTTGTTTTGCTTTTTCCCCCCTTTTGAATTATGTG
CTGCTGTTAAACAACAACAAAAAAACAACAAAACACAGCAGCTGCGGACTTGTCCCCGGC
TGGAGCCCAGCGCCCCGCCTGGAGTGGATGAGCCTCTCCATGAGAGATCCGGTCATTCCT
GGGACAAGCATGGCCTACCATCCGTTCCTACCTCACCGGGCGCCGGACTTCGCCATGAGC
GCGGTGCTGGGTCACCAGCCGNCGTTCTTCCCCGCGCTGACGCTGCCTCCCAACGGCGCG
GCGGCGCTCTCGCTGNCGGGCGCCCTGGCCAGCCGATCATGGATCAATTGGGGGGGGGCG
GCCGAGACCGGCATCCCCGTCTCTCCCTGGGGCCCAGGCGCATCTGAGCCCTTTGAGACA
TGGAGCCCGANAAAAGGTGGAAGACGACCCCAGTGGCACTGGAGCTAAGAACTTGGGGAC
AGTTTACAAGCGGGGCCGGGATGGCATAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016569 unedited
CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGGTTTTGGTTCCACTTGA
CACAGTGAAGGAAAAATATATATATAAATCCGCACTGAGGGAGATGTCTTTGAACACCTC
CCCGCCTGGTGGGCAGAGACCCAGACCAGCCTTGCTGGAAGTTGCTCTGGACATAAATGT
TGGAACTCCTACCCCCAGTAGCTCAATGCAACCGACGTTTCTGAGCCCCCAGAATCTGAT
CCAGATCCCGGACATATAAACCACGCCAAGAAGACAGGGGCTGTCTCTAGCACATTCTCT
CGAGGGAGTCCGGGGCCCCTTCCCAGACGCAACTGCAAAAGGAAGGGCTAACGCCATGGC
GGGCCCGAGGTTTATTTTATATCCGACAAAGTGCACGGCAGCCTGAACTGGACTGGAATG
AAAAGACGTGTCTGGGACCGGTCTACGGGGACCCTCCGCGGGACCTGCCCCGCTTGGCTT
TCAATCCGCTAACCCCCCCCCGGACGCTCTGTCACTTCTCTGTCGCCCGCTCTTTTTCCC
CCCCCAGAATTCTGCTCCACTCAGCCCTTTTCTCTGTTACACCATCGCCCACGTTCTCCC
TTTTACTTCTCACCCCCGTTCCCACTCCCCTATATCTCTGTTCCTCCCCCCTCCACTTTC
TTTTCCCCTCCCTCTCTCCCCCCTCTACTTTTTCATTCACTGATCCCCCTTTCCTCCCCC
ACCCGCGTATTCCACAACCCATTCTTCTCTCCTCCCCTATTCCCCCTCCCCCCCTCCCCA
CCTCCAANAGTCAATCTCGCATGCCTTCACTCTTTCTCACTTCACTTCCTCATACCCTCG
TTTTCTCTTCCCGTCTTTTTACACTACCCTCCTCTCACTCCTTCTCTTCGCCTCCTCCGC
TCTCCTTATCCTCTGCATATGCTCTCTCTAATCCCCATACCACATTACTC

Restriction Sites: NotI-NotI

ACCN: NM_016569

Insert Size: 2600 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_016569.3, NP_057653.3
RefSeq Size:	4814 bp
RefSeq ORF:	2232 bp
Locus ID:	6926
UniProt ID:	O15119
Cytogenetics:	12q24.21
Domains:	T-box
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This protein is a transcriptional repressor and is thought to play a role in the anterior/posterior axis of the tetrapod forelimb. Mutations in this gene cause ulnar-mammary syndrome, affecting limb, apocrine gland, tooth, hair, and genital development. Alternative splicing of this gene results in three transcript variants encoding different isoforms; however, the full length nature of one variant has not been determined. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) contains an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini and is longer compared to isoform 1.