

Product datasheet for **SC120046**

TBX5 (NM_000192) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX5 (NM_000192) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX5
Synonyms:	HOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC120046 sequence for NM_000192 edited (data generated by NextGen Sequencing)

```

ATGGCCGACGCAGACGAGGGCTTTGGCCTGGCGCACACGCCTCTGGAGCCTGACGCAAAA
GACCTGCCCTGCGATTTCGAAACCCGAGAGCGCGCTCGGGGCCCCAGCAAGTCCCCGTGC
TCCCCGCAGGCCGCTTACCCAGCAGGGCATGGAGGGAATCAAAGTGTTTCTCCATGAA
AGAGAAGTGTGGCTAAAATTCCACGAAGTGGGCACGGAATGATCATAACCAAGGCTGGA
AGGCGGATGTTTCCCAGTTACAAAGTGAAGGTGACGGGCCTTAATCCCAAAACGAAGTAC
ATTCTTTCATGGACATTGTACCTGCCGACGATCACAGATACAAATTCGACAGATAATAAA
TGGTCTGTGACGGGCAAAGCTGAGCCCGCCATGCCTGGCCGCTGTACGTGCACCCAGAC
TCCCCGCCACCGGGGCGCATTGGATGAGGCAGCTCGTCTCCTTCCAGAACTCAAGCTC
ACCAACAACACCTGGACCCATTTGGGCATATTATTCTAAATTCATGCACAAATACCAG
CCTAGATTACACATCGTGAAGCGGATGAAAATAATGGATTTGGCTCAAAAAATACAGCG
TTCTGCACTCACGTCTTCTGAGACTGCGTTTATAGCAGTGACTTCTTACCAGAACCAC
AAGATCACGCAATTAAGATTGAGAATAATCCCTTTGCCAAAGGATTTCCGGGCAGTGAT
GACATGGAGCTGCACAGAATGTCAAGAATGCAAAGTAAAGAATATCCCGTGGTCCCAGG
AGCACCGTGAGGCAAAAAGTGGCCTCCAACCACAGTCCTTTCAGCAGCGAGTCTCGAGCT
CTCTCCACCTCATCCAATTTGGGGTCCCAATACCAGTGTGAGAATGGTGTTCGGGCCCC
TCCCAGGACCTCTGCCTCCACCAACCATACCCTGCCCCAGGAGCATAGCCAAATT
TACCATTGTACCAAGAGGAAAGAGGAAGAATGTTCCACCACAGACCATCCCTATAAGAAG
CCCTACATGGAGACATCACCCAGTGAAGAAGATTCCTTCTACCGTCTAGCTATCCACAG
CAGCAGGGCCTGGGTGCCTCCTACAGGACAGAGTGGCACAGCGGCAAGCTTGCATGTAT
GCCAGCTCTGCGCCCCCAGCGAGCCTGTGCCAGCCTAGAGGACATCAGCTGCAACACG
TGGCCAAGCATGCCTTCTACAGCAGCTGCACCGTACCACCGTGCAGCCCATGGACAGG
CTACCTTACCAGCACTTCTCCGCTCACTTCACTCGGGGCCCTGGTCCCTCGGCTGGCT
GGCATGGCCAACCATGGCTCCCCACAGCTGGGAGAGGGAATGTTCCAGCACCAGACCTCC
GTGGCCACCAGCCTGTGGTCCAGCAGTGTGGCCTCAGACTGGCCTGCAGTCCCCTGGC
ACCCTTACAGCCCCTGAGTTCTCTACTCTCATGGCGTCCAAGGACTCTATCCCCTCAT
CAGTACCCTCTGTGCACGGAGTTGGCATGGTCCAGAGTGGAGCGACAATAGCTAA
    
```

Clone variation with respect to NM_000192.3
648 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000192 unedited

```

CCGACACTCGTCATTTTGTNAATACGNACTTTCTNTNAGGGNCCGGCCGCGNAATTTCCG
CACCAGGATAAACAGTAATATTTAATTTGTCGGAGACCACAAACCAACCTTGAGCTGGGA
GGTACGTGCTCTTCTTGACAGACGTTGGAAGAAGACCTGGCCTAAAGAGGTCTCTTTTGG
TGGTCTTTTTCAAAGTCTTACCTGAGCCCTGCTCTCCAGCGAGGCGCACTCCTGGCTTT
TGCCTCCAAAGAAGAGGTGGGATAGTTGGAGAGCAGAACCTTGCAGCGGCACAGGGCCC
TGGGCGCACCATGGCCGACGACGAGGGCTTTGGCCTGGCGCACACGCCTCTGGAGCC
TGACGCAAAAGACCTGCCTGCGATTTCGAAACCCGAGAGCGCGCTCGGGGCCCCAGCAA
GTCCCCGTGTCGCCGAGGCCCTTACCCAGCAGGGCATGGAGGGAATCAAAGTGTT
TCTCCATGAAAGAGAAGTGTGGCTAAAATTCCACGAAGTGGGCACGGAATGATCATAAC
CAAGGCTGGAAGGCGGATGTTTCCCAGTTACAAAGTGAAGGTGACGGGCCTTAATCCCAA
AACGAAGTACATTCTTCTCATGGACATTGTACCTGCCGACGATCACAGATACAAATTCGC
AGATAATAAATGGTCTGTGACGGGCAAAGCTGAGCCCGCCATGCCTGGCCGCTGTACGT
GCACCCAGACTCCCCGCCACCGGGGCGCATTGGATGAAGCAGCTCGTCTCCTTCCCAGA
AACTCAGCTCACCAACCACTGGACCTTTGGGCATATTATTCTAAATTCATGCANCA
ATACCAGCTAGATTACACATCGTGAAGCGGATGAAAATATGGATTNGNCTCAAAAATA
CACCGTCT
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000192 unedited GGAAAAAACAATATATTAACAAAAACACAACTTGGTTTCTGAGTATCAATAAAATT AAAAGCTCTTGGCCAGCTCCTATGCTGGGTTTCATTTTCATGTTATTACTTAATTAGAATT CCTATTTATAAATAAATAGTACCAGTAAAATATTACATCTGAAGAACCCTACCATAACAC TTTACTTACACACTTTTTCCAATACTGTTTTCGGCTTTCAGTAAACACAGTTCTGTGTCG GCATTGGTGTGGGCGTGGTTTCTTTGGCGAGATATCATTGCCGACTGTGCCCTGTCTCTT CTGTAGGAACCGTATTTTTGCTTGACATCCACTTGGCCCGTTTTTTCACGGACGTTTGG AACGCTGGTTTCTGCCCTGTTTCTCCTAACACATGCCTTTTTTAAATAACCCCATTT CGGTTTTTCCGTCTCAACTCTTCCACACCCCTTCTCGCCCTGCCATTACATTCTCGCCG CACCGTCCACCGGTTTCTTCTCCTCGCCCATTTCCGCCTTTCCTCCCTTTTTTTTCTT TTCTCCCCCCCCGACAGGCATTTTTTCAGTCTTCCCGCGCTTTCGGCGTGCGCCCT TTTTTCCCTTCTCCTTTTTCCGTATCGGGCCCCCTCTTTTCCCGCGTTTTTCCC CCCGCATTTTTTGGTTTTTTTTTTCGCGCCCCGCGTGTGCAAACCCGCTCTCTCC CCCCCTTTTTTCTCGTGTTTTTTCTCCCCCTTTTTTCTCCTCTTGTTTTTGTG TCCAGTTTTTCCGAATTGCCCTCGTCACCCGCGGCTCTGCCGCCCCCTTTTTTTTTTTT TCGCCCTTTTTTCCCCCTCCCCCGTCTTTTGT
Restriction Sites:	NotI-NotI
ACCN:	NM_000192
Insert Size:	1557 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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_000192.3 , NP_000183.2
RefSeq Size:	3921 bp
RefSeq ORF:	1557 bp
Locus ID:	6910
UniProt ID:	Q99593
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 gene is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 4 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.