

Product datasheet for **SC109821**

TBX5 (NM_080718) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX5 (NM_080718) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX5
Synonyms:	HOS
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080718, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGACGCAGACGAGGGCTTTGGCCTGGCGCACAGCCTCTGGAGCCTGACGAAAAGACCTGCCCT
GCGATTCGAAACCCGAGAGCGCGCTCGGGGCCCCAGCAAGTCCCGTCGTCCCGCAGGCCGCTTAC
CCAGCAGGGCATGGAGGGAATCAAAGTGTTCATGAAAGAGAACTGTGGCTAAAATCCACGAAGT
GGCAGGAAATGATCATAACCAAGGCTGGAAGGCGGATGTTCCAGTTACAAAGTGAAGGTGACGGCC
TTAATCCCAAACGAAGTACATTCTTCATGGACATTGTACCTGCCGACGATCACAGATACAAATTCG
AGATAATAAATGGTCTGTGACGGGCAAAGCTGAGCCCGCCATGCCTGGCCGCTGTACGTGCACCCAG
TCCCCCGCCACCGGGGCGCATTGGATGAGGCAGCTCGTCTCCTCCAGAACTCAAGCTCACCAACAAC
ACCTGGACCCATTTGGGCATATTATTCTAAATTCATGCACAAATACCAGCCTAGATTACACATCGTGA
AGCGGATGAAAATAATGGATTTGGCTCAAAAAATACAGCGTTCTGCACTCACGTCTTCTGAGACTGCG
TTTATAGCAGTGACTTCTACCAGAACCACAAGATCACGCAATTAAGATTGAGAATAATCCCTTTGCCA
AAGGATTCGGGGCAGTGATGACATGGAGCTGCACAGAATGTCAAGAATGCAAAGTAAAGAATATCCCGT
GGTCCCAGGAGCACCGTGAGGCAAAAAGTGGCCTCCAACCACAGTCCTTTCAGCAGCGAGTCTCGAGT
CTCTCCACCTCATCCAATTTGGGTCCCAATACCAGTGTGAGAATGGTGTTCGGGCCCTCCAGGACC
TCCTGCCTCCACCAACCATACCCACTGCCCCAGGAGCATAGCCAAATTTACCATTGTACCAAGAGGAA
AGGTGAGTGTGATCACCCCTGGTCAATTTGCTTCTTTTACCTTTTCTTCTTGGTTGGGGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080718 unedited GTCAGCTTTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACAAACTGGNGCTTC CAACTTTCCCTCCCTGGGGGTGTAAGGAGGAGCGGGGCACTGAGATTATATGGTTGCCG GTGCTCTTGAGGCTATTTTGTGTTCTTTGGCGCTTGCCAACTGGGAAGTATTTAGGGAG AGCAAGCGCACAGCAGAGGAGGTGTGTGTTGGAGTGGGCAGTCGCCGCGGAGGCTCCAG CGGTAGGTGCCCTAGTAGGCAGCAGTAGCCGCTATTCTGGGTAAAGCAGTAAACCCCGC ATAAACCCCGGAGCCACCATGCCTGCTCCCCCGCCTCACCGCCGGCTTCCCTGCTAGGAG CAGCAGAGGATGTGGTGAATGCACCGGCTTACCAGAACGAGAGCAGAACCCTTGCGCGGGC ACAGGGCCCTGGGCGCACCATGGCCGACGACAGCAGAGGGCTTTGGCCTGGCGCACACGCC TCTGGAGCCTGACGCAAAAGACCTGCCCTGCGATTGAAACCCGAGAGCGCGCTCGGGGC CCCCAGCAAGTCCCGTCGTCCCCGAGGCCGCTTACCAGCAGGGCATGGAGGGAAT CAAAGTGTCTCCATGAAAGAGAACTGTGGCTAAAATTCACGAAGTGGGCACGAAAT GATCATAACCAAGGCTGGAAGGCGGATGTTTCCAGTTACAAAGTGAAGGTGACGGGCT TAATCCAAAACGAAGTACATTCTTCTCATGGACATTGTACCTGCCGACGATCACAGATAC AAATTCGAGAAAATAAATGGTCTGTGACGGCAAGCTGAGCCCGTGCCTGGCCGCTGTA CGTGCACCAGACTCCCCGACGNGCGCATTGATGAGCAGCTCGTCTNCTCCAGAACTCA GCTCACACACACCTGNACCCATTGGGCATATATCTAANTTCATGCCAA
Restriction Sites:	NotI-NotI
ACCN:	NM_080718
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:	<u>NM_080718.1</u> , <u>NP_542449.1</u>
RefSeq Size:	1050 bp
RefSeq ORF:	1050 bp
Locus ID:	6910
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 (2) is alternatively spliced at the 3' end compared to transcript variant 1. This results in early translation termination, and a truncated isoform (2) with a different C-terminus, compared to isoform 1.