

Product datasheet for **SC309083**

TBX5 (NM_080717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX5 (NM_080717) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX5
Synonyms:	HOS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_080717, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAGGGAATCAAAGTGTTCCTCCATGAAAGAGAACTGTGGCTAAAATTCCACGAAGTG GGCACGGAATGATCATAACCAAGGCTGGAAGGCGGATGTTCCAGTTACAAAGTGAAG GTGACGGGCTTAATCCCAAAACGAAGTACATTCTTCATGGACATTGTACCTGCCGAC GATCACAGATACAAATTCGAGATAATAAATGGTCTGTGACGGGCAAAGCTGAGCCCGCC ATGCCTGGCCGCTGTACGTGCACCCAGACTCCCCGCCACCGGGGCGCATTGGATGAGG CAGCTCGTCTCCTCCAGAACTCAAGCTCACCAACAACCACCTGGACCCATTTGGGCAT ATTATTCTAAATTCCATGCACAAATACAGCCTAGATTACACATCGTGAAGCGGATGAA AATAATGGATTTGGCTCAAAAAATACAGCGTTCTGCACTCACGTCTTCTGAGACTGCG TTTATAGCAGTGACTTCCTACCAGAACCACAAGATCACGCAATTAAGATTGAGAATAAT CCCTTTGCCAAAGGATTTTCGGGGCAGTGATGACATGGAGCTGCACAGAATGTCAAGAATG CAAAGTAAAGAATATCCCGTGGTCCCCAGGAGCACCGTGAGGCAAAAAGTGGCCTCCAAC CACAGTCTTTTCCAGCAGCGAGTCTCGAGCTCTCTCCACCTCATCAATTTGGGGTCCCAA TACCAGTGTGAGAATGGTGTTCGGGCCCTCCAGGACCTCCTGCCTCCACCCAACCCA TACCCACTGCCCCAGGAGCATAGCCAAATTTACCATTGTACCAAGAGGAAAGAGGAAGAA TGTTCCACCACAGACCATCCCTATAAGAAGCCCTACATGGAGACATCACCCAGTGAAGAA GATTCCTTCTACCGCTCTAGCTATCCACAGCAGCAGGGCCTGGGTGCCTCCTACAGGACA GAGTCGGCACAGCGCAAGCTTGATGTATGCCAGCTCTGCGCCCCCAGCGAGCCTGTG CCCAGCTAGAGGACATCAGCTGCAACACGTGGCCAAGCATGCCTTCTACAGCAGCTGC ACCGTCACCACCGTGCAGCCCATGGACAGGCTACCCTACCAGCACTTCTCCGCTCACTTC ACCTCGGGGCCCTGGTCCCTCGGCTGGCTGGCATGGCCAACCATGGCTCCCCACAGCTG GGAGAGGGAATGTTCCAGCACCAGACCTCCGTGGCCCAACAGCCTGTGGTCAGGCAGTGT GGGCCTCAGACTGGCCTGCAGTCCCTGGCACCCCTTCCAGCCCCCTGAGTTCCTCTACTCT CATGGCGTGCCAAGGACTCTATCCCTCATCAGTACCCTCTGTGCACGGAGTTGGCATG GTGCCAGAGTGGAGCGACAATAGCTAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_080717



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_080717.2</u> , <u>NP_542448.1</u>
RefSeq Size:	3736 bp
RefSeq ORF:	1407 bp
Locus ID:	6910
UniProt ID:	<u>Q99593</u>
Cytogenetics:	12q24.21
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks the exon containing the translation start site compared to transcript variant 1. The resulting isoform (3) is shorter at the N-terminus compared to 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.</p>