

Product datasheet for **SC125962**

T box 2 (TBX2) (NM_005994) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	T box 2 (TBX2) (NM_005994) Human Untagged Clone
Tag:	Tag Free
Symbol:	T box 2
Synonyms:	VETD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125962 sequence for NM_005994 edited (data generated by NextGen Sequencing)

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ATGAGAGAGCCGGCGCTGGCGGCCAGCGCCATGGCTTACCACCCGTTCCACGCGCCACGGCCCGCCGACT
TCCCCATGTCGCGCTTTCTGGCGGCGGCGCAGCCCTCCTTCTCCCGGCACTCGCGTGC CGCCCGGCGC
GCTGGCCAAGCCGCTGCCCGACCCGGGCTGGCGGGGGCGGCGCCGCGGCGGCGGCGGCGCAGCAGCG
GCCGAGGCGGGGCTGCAGTCTCGGCACTGGGCCCGCACCCGCCCGCGCATCTGCGCTCCCTCAAGA
GCCTGGAGCCCGAGGACGAGGTGGAGGACGACCCCAAGGTGACGCTGGAGGCCAAGGAGCTGTGGGACCA
GTTCCACAAGCTAGGCACGGAGATGGTCATCACCAAGTCCGGGAGGCGGATGTTCCCCCCTTCAAGGTG
CGAGTCAGCGGCTGGACAAGAAGGCCAAGTATATCCTGCTGATGGACATTGTAGCCGCTGACGATTGCC
GCTATAAGTTCACAACCTCGCGTGGATGGTGGCGGGCAAGGCCGACCCTGAGATGCCAAAACGCATGTA
CATCCACCCAGACAGCCAGCCAGGGGAGCAGTGGATGGCTAAGCCTGTGGCCTTCCACAAGCTGAAG
CTGACCAACAACATCTCTGACAAGCACGGCTTACCATCTAACTCCATGCACAAGTACCAGCCGCGCT
TCCACATAGTGGAGCCAACGACATCTGAAGTGCCTTACAGCACCTTCCGCACCTACGTGTTCCCGGA
GACCGACTTCATCGCCGCTCACTGCCTACCAAGAATGACAAGATCACACAGCTGAAGATCGACAACAACCCG
TTTGCCAAGGGCTTCCGGGACACCCGGAACGGCCGGCGGAGAAAAGGAAGCAGCTGACGCTGCCGTCTC
TACGCTTGTACGAGGAGCACTGCAAACCCGAGCGCGATGGCGCGGAGTCAGACGCCTCGTCGTGCGACCC
TCCCCCGCGCGGGAACCAACCCACTCCCCGGGCGCAGCGCCAGTCCGCTGCGCCTGCACCGGGCCCGA
GCTGAGGAGAAGTCGTGCGCCGCGGACAGCGACCCGGAGCCTGAGCGGTTGAGCGAGGAGCGTGC GGGG
CGCCGCTAGGCCGAGCCCGGCTCCAGACAGCGCCAGCCCACTCGCTTGACCGAACCCGAGCGCGCCCG
GGAGCGGCGTAGTCCCGAGAGGGCAAGGAGCCGGCCGAGAGCGGCGGGGACGGCCGTTTCGGCTGAGG
AGCCTGGAGAAGGAGCGCGCCGAAGCTCGGAGGAAGGACGAGGGGCGCAAGGAGGCGCCGAGGGCAAGG
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CTGCACCTGGACAGTTCACCATGGGCCCTGGCGCCTTCTCCGCCATGGGCATGGGTACCTACTGGCCT
CGGTGGCAGGGCGGCAACGGCGGAGGTGGCGGGCTGGGACCGCCGCGGGGCTGGACGAGGCGGGCT
GGGTCCCGCGGCCAGCGCAGCAAGCACCGCCGCGCCCTTCCGTTCCACCTCTCCAGCACATGCTGGCA
TCTCAGGGAATCCAATGCCACTTTCGGAGGCCTTTCCTTCCCTACCCCTACACCTACATGGCAGCAGCAG
CCGAGCCGCTCGGCTTTCGCCCACTAGTGTGCAGCTGCCGCCGCCGAGCCGCGGCTCCCTCTC
CCGGAGTCCCTTCTGGGCAGTGCCCGGCCCGACTGCGTTTCCAGCCCTATCAGATCCCGGTACCATC
CCGCTAGCACTAGCCTCCTACCACCGGGCTGGCCTCTGAGGGCTCCAAGGCCGCTGGTGGAAACAGCC
GGGAGCCTAGCCCTGCCCCGAGCTGGCTCTCCGCAAAGTAGGGGCCCATCCCGCGGTGCCCTGTGCGC
CAGTGGCTCGGCCAAGGAGGCGGCAATGAACTGCAGAGCATCCAGAGACTGGTGGTGGCTGGAGAGC
CAGCGAGCCCTTCCCCAGGCCGGGAGTCGCCAAGTGA
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Clone variation with respect to NM_005994.3
1827:t=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005994 unedited GGGGTTGCCATTTGTATACGACTTACTTNGGGCGGCCGCAATTCGCACGAGGCAGAGA TCACGACAAGATCTAACCAGTCGCGCGTGGTCCCCGGCGCCGAGCGGGCCAGCTCAGCC CGGCCAGCCCGGCCCGCGCAGAGCCCCGCCGCCCGCCGCGCACAGAGCCGGGTGCCCC TTGCGGTGCGCCGACGGGAAGCCCCGAGGAGCAGCTGCTGCGCCGCCACCCGGGTGCT CCGTCCACCGCGCGCCGCCCGGCCGGGGTCCGAGCCGCGGCCCGGCCCGCCCCG GCCCGGCCCGGCCCGCGCTGGGCCGGATGTCCCGATGAGAGAGCCGGCGCTGGCGGCCA GCGCCATGGCTTACCACCGTTCCACGCGCCACGGCCCGCCGACTTCCCATGTCCGCT TTCTGGCGGCCGCGCAGCCCTCCTTCTCCCGCACTCGCGCTGCCGCCGGCGCGCTGG CCAAGCCGCTGCCCGACCCGGGCTGGCGGGGGCGGCGCCGCGCGCGCGCGCGGCGGAG CAGCGGCCGAGGCGGGGCTGCACGTCTCGCACTGGGCCCGACCCGCCCGCGCGCATC TGCGCTCCCTCAAGAGCCTGGAGCCCGAGGACGAGGTGGAGGACGACCCCAAGGTGACGC TGGAGGCAAGGAGCTGTGGACCAGTTCACAAGCTAGGCACGGAGATGGTCATCACCA AGTCCGGGAGCGGATGTTCCCCCTTCAAGTGCAGTACGCGCCTGGGACAGAGGCC AAGTATATCCTGCTGATGGCATTGTAGCCGCTGACGATTGCCGTTTAGTTTCACAACTC GGCTGGATGTGGCGGGCAATGCCGACCTGAGATGCCCAACGCTTTCATCCACCAGACG CCCACCACGGGGACA</p>
Restriction Sites:	Please inquire
ACCN:	NM_005994
Insert Size:	3000 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_005994.3 , NP_005985.3
RefSeq Size:	3396 bp

RefSeq ORF: 2139 bp

Locus ID: 6909

UniProt ID: [Q13207](#)

Cytogenetics: 17q23.2

Protein Families: 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 product is the human homolog of mouse Tbx2, and shares strong sequence similarity with Drosophila omb protein. Expression studies indicate that this gene may have a potential role in tumorigenesis as an immortalizing agent. Transcript heterogeneity due to alternative polyadenylation has been noted for this gene. [provided by RefSeq, Jul 2008]