

Product datasheet for **RC208558**

T box 2 (TBX2) (NM_005994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	T box 2 (TBX2) (NM_005994) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	T box 2
Synonyms:	VETD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208558 representing NM_005994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAGAGCCGGCGCTGGCGGCCAGCGCCATGGCTTACCACCCGTTCCACGCGCCACGGCCCGCGACT
 TCCCCATGTCGCTTTCTGGCGCGGCCAGCCCTCCTTCTCCCGGCACTCGCGCTGCCGCCGGCGC
 GCTGGCCAAGCCGCTGCCCGACCCGGCCCTGGCGGGGGCGCGGCCGCGCGCGCGCGCCGAGCAGCG
 GCCGAGGCGGGGCTGCACGTCTCGGCACTGGGCCCGCACCCGCCCGCGCATCTGCGCTCCCTCAAGA
 GCCTGGAGCCCGAGGACGAGGTGGAGGACGACCCCAAGGTGACGCTGGAGGCCAAGGAGCTGTGGGACCA
 GTTCCACAAGCTAGGCACGGAGATGGTCATCACCAAGTCCGGGAGGCGGATGTTCCCCCCTTCAAGGTG
 CGAGTCAGCGGCTGGACAAGAAGGCCAAGTATATCCTGCTGATGGACATTGTAGCCGCTGACGATTGCC
 GCTATAAGTTCACAACCTCGCGTGGATGGTGGCGGGCAAGGCCACCCCTGAGATGCCCAAACGCATGTA
 CATCCACCCAGACAGCCAGCCAGGGGGAGCAGTGGATGGCTAAGCCTGTGGCCTTCCACAAGCTGAAG
 CTGACCAACAACATCTCTGACAAGCAGCGCTTACCATCCTAACTCCATGCACAAGTACCGAGCCGCGCT
 TCCACATAGTGGGAGCCAACGACATCCTGAAGTGCCTTACAGCACCTTCCGCACCTACGTGTTCCCGGA
 GACCGACTTATCGCCGCTCACTGCCTACCAGAATGACAAGATCACACAGCTGAAGATCGACAACAACCCG
 TTTGCCAAGGGCTTCCGGGACACCGGGAACGGCCGGCGGGAGAAAAGGAAGCAGCTGACGCTGCCGTCTC
 TACGCTTGTACGAGGAGCACTGCAAACCCGAGCGCGATGGCGCGGAGTCAGACGCTCGTGTGCGACCC
 TCCCCCGCGCGGAACCAACCCCTCCCGGGCGCAGCGCCAGTCCGCTGCGCTGCACCGGGCCCGA
 GCTGAGGAGAAGTCGTGCGCCGGGACAGCGACCCGGAGCCTGAGCGGTTGAGCGAGGAGCGTGGGGGG
 CGCCGCTAGCCCGCAGCCCGCTCCAGACAGCGCCAGCCCACTCGCTTGACCGAACCCGAGCGCGCCG
 GGAGCGCGTAGTCCCGAGAGGGGCAAGGAGCCGCGCGAGAGCGCGGGGACGGCCCGTTCGGCCTGAGG
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 CGGTGGCAGGCGCGCAACGGCGGAGGTGGCGGGCTGGGACCGCCGCGGGGCTGGACGCGAGCGGGCT
 GGGTCCCAGCGCCAGCGCAGCAAGCACCAGCGCCCTTCCCGTCCACCTTCCCAGCACATGCTGGCA
 TCTCAGGAATCCAATGCCACTTTCGGAGGCCTTTCCTTCCCTACCCCTACACCTACATGGCAGCAGCAG
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 CCGGAGCCCTTCTGGGCAAGTGCAGCGCCCGGCGGCTGCGTTTCAGCCCTATCAGATCCCGGTACCATC
 CCGCTAGCACTAGCCTCCTCACCAACGGGCTGGCCTCTGAGGGCTCCAAGGCCGCTGGTGGAAACAGCC
 GGGAGCCTAGCCCCCTGCCGAGCTGGCTCTCCGCAAAGTAGGGGCCCATCCCGCGGTGCCCTGTCCGC
 CAGTGGCTCGGCCAAGGAGGCGGCAATGAACTGCAGAGCATCCAGAGACTGGTGTGAGTGGGCTGGAGAGC
 CAGCGAGCCCTTCCCCAGGCCGGGAGTCGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208558 representing NM_005994
 Red=Cloning site Green=Tags(s)

MREPALAASAMAYHPFHAPRPADFPMSAFIAAAQPSFFPALALPPGALAKPLPDPGLAGAAAAAAAAAAAA
 AEAGLHVSALGPHPPAAHLRSLKSLPEDEVEDDPKVTLEAKLWDQFHLKGTEMVITKSGRRMFPFKV
 RVSGLDKKAKYILLMDIVAADDCRYKFHNSRWMVAGKADPEMPKRMYYIHPDSPATGEQWMAKPVAFHKLK
 LTNNISDKHGFTILNSMHKYQPRFHIVRANDILKLPYSTFRTYVFPETDFIAVTAYQNDKITQLKIDNNP
 FAKGFRDTGNRRREKRKQLTLP SLRLYEEHCKPERDGAESDASSCDPPAREPPTSPGAAPSPLRLHRAR
 AEEKSCAADSDPEPERLSEERAGAPLGRSPAPDSASPTRLTEPERARERRSPERGKEPAESGGDGPFGLR
 SLEKERAEARRKEGRKEAAEGKEQGLAPLVVQTDASPLGAGHLPGLAFSSHLHGQOFFGPLGAGQPLF
 LHPGQFTMGPGAFSAMGMGHLASVAGGGNGGGGGPGTAAGLDAGGLGPAASAATAAPFPFHLSQHMLA
 SQGIPMPTFGGLFPYPYTYMAAAAAAASALPATSAAAAAAAGSLSRSPFLGSARPLRFSPYQIPVTI
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 QRALSPGRES PK

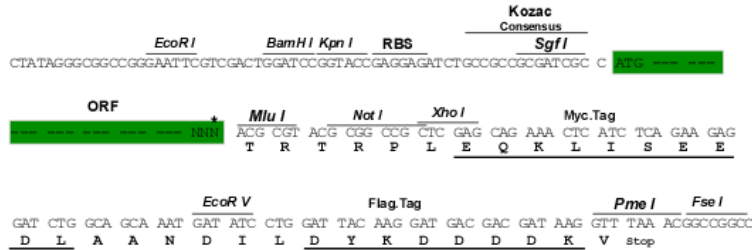
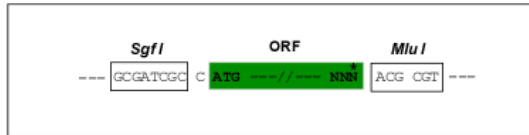
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



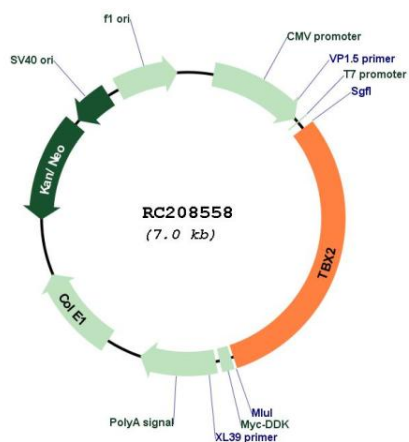
* The last codon before the Stop codon of the ORF

ACCN: NM_005994

ORF Size: 2136 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>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_005994.4
RefSeq Size:	3396 bp
RefSeq ORF:	2139 bp
Locus ID:	6909
UniProt ID:	Q13207
Cytogenetics:	17q23.2
Protein Families:	Transcription Factors
MW:	74.9 kDa
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 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]</p>

Product images:



Circular map for RC208558