

Product datasheet for **RG208558**

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:	TurboGFP
Symbol:	T box 2
Synonyms:	VETD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208558 representing NM_005994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTACCACCCGTTCCACGCGCCACGGCCCGCGACTTCCCATGTCCGCCTTTCTGGCGGGCGCGC
 AGCCTCCTTCTCCCGCACTCGCGCTGCCGCCCGCGCGCTGGCCAAGCCGCTGCCCGACCCGGGCT
 GGCGGGGCGCGGCCGCGCGCGCGCGCGCAGCAGCGCCGAGGCGGGGCTGCACGTCTCGGCACTG
 GGCCCGCACCCGCCCGCGCATCTGCGCTCCCTCAAGAGCCTGGAGCCCGAGGACGAGGTGGAGGACG
 ACCCCAAGGTGACGCTGGAGGCCAAGGAGCTGTGGGACCAGTTCCACAAGCTAGGCACGGAGATGGTCAT
 CACCAAGTCCGGGAGGCGGATGTTCCCCCTTCAAGGTGCGAGTCAGCGGCTGGACAAGAAGGCCAAG
 TATATCTGCTGATGGACATTGTAGCCGCTGACGATTGCCGCTAAGTCCACAACCTCGCGCTGGATGG
 TGGCGGGCAAGGCCGACCCTGAGATGCCAAACGCATGTACATCCACCCAGACAGCCAGCCACGGGGGA
 GCAGTGGATGGCTAAGCCTGTGGCTTCCACAAGCTGAAGCTGACCAACAACATCTCTGACAAGCAGCGC
 TTCACCATCCTAAACTCCATGCACAAGTACCAGCCGCGCTTCCACATAGTGCAGGCAACGACATCCTGA
 AGCTGCCTTACAGCACCTTCCGCACCTACGTGTTCCCGGAGACCGACTTCATCGCCGCTACTGCCTACCA
 GAATGACAAGATCACACAGCTGAAGATCGACAACAACCGTTTGCCAAGGGCTTCCGGGACACCGGGAAC
 GGCCGGCGGGAGAAAAGGAAGCAGCTGACGCTGCCGTCTCTACGCTTGTACGAGGAGCACTGCAAACCCG
 AGCGCGATGGCGCGGAGTCAGACGCCTCGTCGTGCGACCTCCCCCGCGCGGGAACACCCACCTCCCC
 GGGCGCAGCGCCAGTCCGCTGCGCTGCACCGGGCCGAGCTGAGGAGAAGTCGTGCGCCGCGGACAGC
 GACCCGGAGCCTGAGCGGTTGAGCGAGGAGCGTGCAGGGGCGCCGCTAGGCCGACGCCGGCTCCAGACA
 GCGCCAGCCCACTCGCTTGACCGAACCCGAGCGCGCCGGGAGCGGCGTAGTCCCGAGAGGGGCAAGGA
 GCCGGCCGAGAGCGCGGGGACGCGCCGTTCCGGCTGAGGAGCCTGGAGAAGGAGCGCGCGGAAGCTCGG
 AGGAAGGACGAGGGGCGCAAGGAGGCGGCCGAGGGCAAGGAGCAGGGCCTGGCGCCGCTGGTGGTGCAGA
 CAGACAGTGCCTCCCCCTGGGCGCCGACACCTGCCCGGCTGGCCTTTTCCAGCCACTTGACCGGGCA
 GCAGTTCTTTGGGCCGCTGGGAGCCGGCCAGCCGCTTCTCCTGCACCCTGGACAGTTCACCATGGGCCCT
 GCGCCTTCTCCGCCATGGGATGGGTACCTACTGGCTCGGTGGCAGGCGGGCAACGGCGGAGGTG
 GCGGGCTGGGACCGCCGCGGGCTGGACGAGGCGGGCTGGGTCCCGCGCCAGCGCAGCAAGCACCGC
 CGCGCCCTTCCGTTCCACCTCTCCAGCACATGCTGGCATCTCAGGGAATTC AATGCCACTTTCGGA
 GGCTTCTCCCTACCCCTACACCTACATGGCAGCAGCAGCCGAGCCGCTCGGCTTTGCCCGCCACTA
 GTGCTGCAGCTGCGCCCGCGCAGCCGCGGCTCCCTCTCCCGGAGTCCCTTCTGGGCAGTGCCCGGCC
 CCGACTGCGTTTTCAGCCCTATCAGATCCCGGTACCATCCCGCCTAGCACTAGCCTCCTACCACCGGG
 CTGGCCTCTGAGGGCTCCAAGGCCGCTGGTGAAACAGCCGGGAGCCTAGCCCCCTGCCCGAGCTGGCTC
 TCCGCAAAGTAGGGGCCCATCCCGCGTGCCTGTGCCAGTGGCTCGGCCAAGGAGGCGGCCAATGA
 ACTGCAGAGCATCCAGAGACTGGTGGTGGGCTGGAGAGCCAGCGAGCCCTCTCCCGAGCCGGGAGTCG
 CCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208558 representing NM_005994
 Red=Cloning site Green=Tags(s)

MAYHPPFHAPRPADFPMSAFLLAAQPSFFPALALPPGALAKPLPDPGLAGAAAAAAAAAAAAEAGLHVSAL
 GPHPAAHLRSLKSLPEDEVEDDPKVTLEAKELWDQFHKLGTEMVITKSGRRMFPFVKVRVSGLDKKAK
 YILLMDIVAADDCRYKFHNSRWMVAGKADPEMPKRMVYIHPDSPATGEQWMAKPVAFHKLKLTNNISDKHG
 FTILNSMHKYQPRFHIVRANDILKLPYSTFRTYVFPETDFIAVTAYQNDKITQLKIDNNPFAKGFRTGN
 GRREKRKQLTLP SLRLYEEHCKPERDGAESDASSCDPPPAREPPTSPGAAPSPLRLHRARAEKSCAADS
 DPEPERLSEERAGAPLGRSPAPDSASPTRLTEPERARERRSPERGKEPAESGGDGPFGFLRSLEKERAEAR
 RKDEGRKEAAEGKEQGLAPLVVQTDSASPLGAGHLPGLAFSSHLHGQFFGPLGAGQPLFLHPGQFTMGP
 GAFSAMGMGHELLASVAGGGNGGGGGPGTAAGLDAGGLGPAASAASTAAPFPFHL SQHMLASQGIPMPTFG
 GLFPYPYTYMAAAAAAASALPATSAAAAAAAAGSLSRSPFLGSARPRLRFSPYQIPVTIPPSTSLTTG
 LASEGSKAAGNSREPSPLPELALRKVGAPSRGALSPSGSAKEAANELQSIQRLVSGLESQRALSPGRES
 PK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

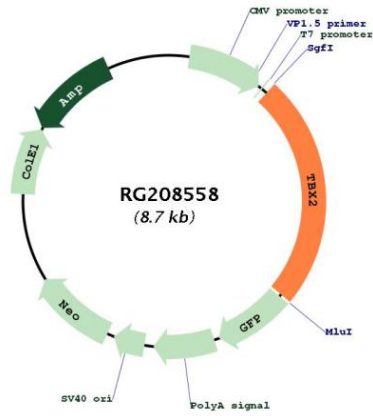


ACCN: NM_005994

ORF Size: 2106 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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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 RG208558