

## Product datasheet for **RG221933**

### **TBX6 (NM\_080758) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBX6 (NM\_080758) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TBX6  
**Synonyms:** DFNB67; OTTHUMP00000162995; T-box 6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221933 representing NM\_080758  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACCATCCACGAGAATTGTACCCGTCCTGGGGCCGGCTACCGCCTGGGGCCGCCAACCTGGGG  
 CCGACTCCAGCTTCCACCCGCCCTAGCGGAGGGCTACCGCTACCCGAACTGGACACCCCTAAACTGGA  
 TTGCTTCTCTCCGGGATGGAGGCTGCTCCCCGACCCTGGCCGCGCACCCACCTCTGCCCTTCTGCC  
 CCTGCCATGGGCACTGAGCCGGCCCATCAGCTCCAGAGGCCCTCATTCCCTCCCGGGGTGAGCTGA  
 GCCTGGAGAACC GGAGCTATGGAAGGAGTTCAGCTCTGTGGAAACAGAAATGATCATCACAAAGCTGG  
 GAGGCGCATGTTCCCTGCCTGCCGAGTGTGAGTACTGGCTGGACCCGAGGCCCGCTACTTGTTCCT  
 CTGGATGTGATTCGGTGGATGGGGCTCGTACCGCTGGCAGGGCCGGCGCTGGGAGCCAGCGGAAGG  
 CAGAGCCCGCCTGCCTGACCGTGTCTACATTCACCCGACTCTCCTGCCACTGGTGCACATTGGATGCG  
 GCAGCCTGTGTCTTCCATCGTGTCAAGCTCACCAACAGCACGCTGGACCCACGGCCACCTGATCCTG  
 CACTCCATGCACAAGTACCAACCCGCATACACCTAGTTCCGGCAGCCAGCTCTGCAGCCAGCACTGGG  
 GGGCATGGCTCCTTCCGCTTCCCGAGACCACATTCATCTCCGTGACAGCCTACCAGAACCCACAGAT  
 CACACAAGTGAAGATTGCAGCCAATCCCTTTGCCAAAGGCTTCCGGGAGAACGGCAGAACTGTAAGAGG  
 TGGGAGTTGTTTCATTTCATTGTTTCATGCATTCAACAAATGTTTAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221933 representing NM\_080758  
Red=Cloning site Green=Tags(s)

MYHPREL YPSL GAGYRLGPAQPGADSSFPPALAEGYRYPELDTPKLDCFLSGMEAAPRTLAHPPLPLLP  
 PAMGTEPAPSAPEALHSLPGVSLLENRELWKEFSSVGTEMIITKAGRRMFACRVSVTGLDPEARYLFL  
 LDVIPVDGARYRWQRRWEPESGKAEPRLPDRVYIHPDSPATGAHWMRQPVSFHRVKLTNSTLDPHGLIIL  
 HSMHKYQPRIHLVRAAQLCSQHWGGMASFRFPETTFISVTAYQNPQITQLKIAANPFKGFRENGRNCKR  
 WELFIHLFMHSTNVY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

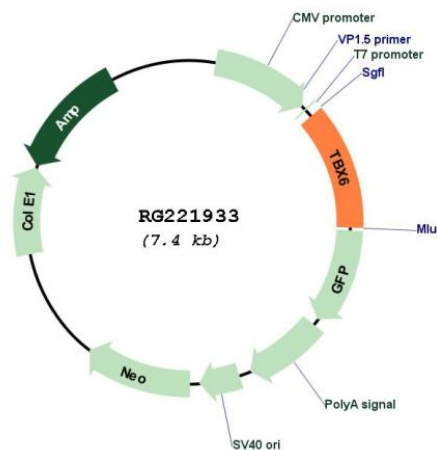
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_080758

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080758.1</a> , <a href="#">NP_542936.1</a>
<b>RefSeq Size:</b>	2162 bp
<b>RefSeq ORF:</b>	887 bp
<b>Locus ID:</b>	6911
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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. Knockout studies in mice indicate that this gene is important for specification of paraxial mesoderm structures. [provided by RefSeq, Aug 2008]