

Product datasheet for **RG225891**

TBX22 (NM_001109878) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX22 (NM_001109878) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBX22
Synonyms:	ABERS; CLPA; CPX; dJ795G23.1; TBXX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225891 representing NM_001109878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCTCTGAGCTCTCGGGCGCTGCCTTCTCCGTGGAAGCCTTGGTGGGAGACCCAGCAAAAGAAAAC
 TCCAAGACCCAATACAGGCGGAGCAGCCTGAGCTGCGGGAGAAAAAGGGCGGAGAGGAAGAGGAGGAGAG
 AAGGAGCAGCGCTGCAGGGAAGAGCGAGCCGCTTGAAAAACAACCTAAGACAGAGCCCTCAACATCTGCT
 TCCTCTGGCTGCGGCAGCGACAGCGGCTACGGCAACAGCTCTGAAAGTCTGGAAGAGAAAGATATTCAAA
 TGGAGCTTCAAGGATCTGAAGTGTGAAAAAGTTCATGACATCGGACTGAGATGATCATTACTAAAGC
 GGGCAGGCGGATGTTCCCTCTGTTGCGGTCAAGGTGAAAGGTTGGATCCAGGGAAGCAGTACCATGTG
 GCCATCGATGTGGTCCGGTGGATTCAAACGCTATAGGTACGTCTATCACAGCTCACAGTGGATGGTAG
 CTGGGAATACAGACCATTGTGCATCATTCTAGATTCTATGTTACCCGGACTCACCTGCTCGGGAGA
 GACCTGGATGCGGCAGATCATCAGCTTTGATCGCATGAAACTCACCAACAATGAGATGGATGACAAAGGC
 CACATCATTCTGCAATCCATGCATAAGTACAAACCCGAGTGCACGTGATAGAGCAAGGCAGCAGTGTTG
 ACCTGTCCAGATTCAAGTCTTGCCCACTGAAGGTGTTAAACATTCTCCTTTAAAGAACTGAGTTCAC
 CACAGTAACGGCTTACAAAACCAACAGATTACGAACTAAAAATAGAAAGAAATCCTTTTGCTAAAGGA
 TTTAGAGATACTGGAAGAAACAGGGGTGATTGGATGGGCTTTTAGAGACCTACCATGGAGGCCTTCTT
 TCACTCTCGATTTTAAACCTTTGGCGCAGACACAAAGTGAAGCAGTGGCTCATCTCCAGTGACCTC
 TAGTGGAGGGGCCCCCTCTCCTTGAAGTCTTACTTTCTCCACTTTGCTTTTACCATATGTTTCATTTA
 CCTACAAGCTCCCTTGAATGCCCTGTCCAGAGGCATACCTGCCCAATGTCAACCTGCCTCTATGCTACA
 AGATTGTCCAATAATTTTGGCAACAGCAACCTCTTGTTTTACCGGCTCCTGAAAGACTAGCAAGCAG
 CAACAGTTCTCAGTCTTTAGCCCCACTCATGATGGAAGTGCCTATGTTATCTTCCCTGGGGGTACCAAT
 TCAAAAAGCGGTTTCATCTGAAGACTCCAGTGATCAGTATCTACAAGCACCTAATTCTACCAATCAATGT
 TATATGGATTACAGTCACCTGGAATATTTTCTGCCAACTCCATACCCCGAGAAGCACTTAGTTGCTC
 CTTTCATCCTTCTATGACTTTTATAGATACAATTTCTCTATGCCATCTAGACTGATAAGTGGTTCCAAC
 CATCTTAAAGTGAATGACGACAGTCAAGTTTCTTTGGAGAAGGCAAATGTAATCATGTTTCATTGGTATC
 CAGCAATTAACCATTACCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

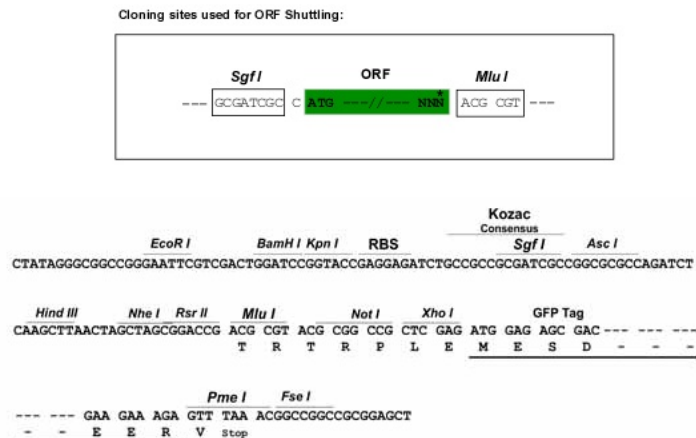
>RG225891 representing NM_001109878
 Red=Cloning site Green=Tags(s)

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGEEEEERRSSAAGKSEPLEKQPKTEPSTSA
 SSGCGSDSGYGNSSELEEKDIQMEHQSELWKRFDIGTEMIITKAGRRMFPSVRVKVKGLDPGKQYHV
 AIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCTIPRFYVHPDSPCSGETWMRQIIISFDRMKLTNNEMDDKG
 HIILQSMHKYKPRVHVIEQGSSVDLSQIQSLPTEGVKTFSEKETEFTTVTAYQNQQITKLKIERNPFAKG
 FRDTGRNRGVLDGLLETYPWRPSFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPLNLLSPLCFSPMHL
 PTSSLGMPCEAYLPNVNLPICYKICPTNFWQQQLVLPAPERLASSNSSQSLAPLMMEVPMSSLGVTN
 SKSGSSEDSSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMPSRLISGSN
 HLKVNDDSQVSFGGKCNHWHWYPAINHYL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001109878

ORF Size: 1560 bp

OTI Disclaimer: 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](#)

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:

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_001109878.2](#)

RefSeq Size: 2355 bp

RefSeq ORF: 1563 bp

Locus ID: 50945

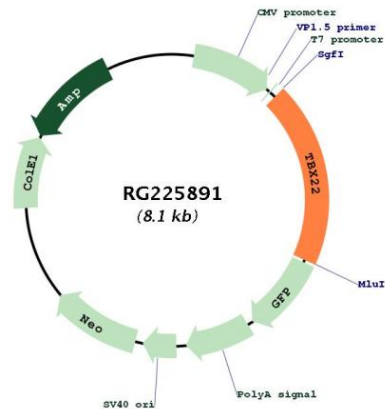
UniProt ID: [Q9Y458](#)

Cytogenetics: Xq21.1

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. Mutations in this gene have been associated with the inherited X-linked disorder, Cleft palate with ankyloglossia, and it is believed to play a major role in human palatogenesis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG225891