

Product datasheet for **RG225624**

TBX22 (NM_001109879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX22 (NM_001109879) 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:

>RG225624 representing NM_001109879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCTCTGAGCTCTCGGGCGCTGCCTTCTCCGTGGAAGCCTTGGTGGGAGACCCAGCAAAAGAAAAC
 TCCAAGACCCAATACAGGCGGAGCAGCCTGAGCTGCGGGAGAAAAAGGGCGGAGAGGAAGAGGAGGAGAG
 AAGGAGCAGCGCTGCAGGGAAGAGCGAGCCGCTTGAAAAACAACCTAAGACAGAGCCCTCAACATCTGCT
 TCCTCTGGCTGCGGCAGCGACAGCGGCTACGGCAACAGCTCTGAAAGTCTGGAAGAGAAAGATATTCAAA
 TGGAGCTTCAAGGATCTGAAGTGTGAAAAGATTCCATGACATCGGACTGAGATGATCATTACTAAAGC
 GGGCAGGCGGATGTTCCCTCTGTTGCGGTCAAGGTGAAAGGTTGGATCCAGGGAAGCAGTACCATGTG
 GCCATCGATGTGGTGCCGGTGGATTCAAACGCTATAGGTACGTCTATCACAGCTCACAGTGGATGGTAG
 CTGGGAATACAGACCATTGTGCATCATTCTAGATTCTATGTTACCCGGACTCACCTGCTCGGGAGA
 GACCTGGATGCGGCAGATCATCAGCTTTGATCGCATGAAACTCACCAACAATGAGATGGATGACAAAGGC
 CACATCATTCTGCAATCCATGCATAAGTACAAACCCGAGTGCACGTGATAGAGCAAGGCAGCAGTGTTG
 ACCTGTCCAGATTCAAGTCTTGCCCACTGAAGGTGTTAAACATTCTCCTTTAAAGAACTGAGTTCAC
 CACAGTAACGGCTTACCAAAACCAACAGATTACGAACTAAAAATAGAAAGAAATCCTTTTGCTAAAGGA
 TTTAGAGATACTGGAAGAAACAGGGGTGATTGGATGGGCTTTTAGAGACCTACCATGGAGGCCTTCTT
 TCACTCTCGATTTTAAACCTTTGGCGCAGACACAAAGTGAAGCAGTGGCTCATCTCCAGTGACCTC
 TAGTGGAGGGGCCCCCTCTCCTTGAAGTCTTACTTTCTCCACTTTGCTTTTACCATATGTTTCATTTA
 CCTACAAGCTCCCTTGAATGCCCTGTCCAGAGGCATACCTGCCCAATGTCAACCTGCCTCTATGCTACA
 AGATTGTCCAATAATTTTGGCAACAGCAACCTCTTGTTTTACCGGCTCCTGAAAGACTAGCAAGCAG
 CAACAGTTCTCAGTCTTTAGCCCCACTCATGATGGAAGTGCCTATGTTATCTTCCCTGGGGGTACCAAT
 TCAAAAAGCGGTTTCATCTGAAGACTCCAGTGATCAGTATCTACAAGCACCTAATTCTACCAATCAATGT
 TATATGGATTACAGTCACCTGGAATATTTTCTGCCAACTCCATACCCCGAAGCACTTAGTTGCTC
 CTTTCATCCTTCTATGACTTTTATAGATACAATTTCTCTATGCCATCTAGACTGATAAGTGGTTCCAAC
 CATCTTAAAGTGAATGACGACAGTCAAGTTTCTTTGGAGAAGGCAATGTAATCATGTTTCATTGGTATC
 CAGCAATTAACCATTACCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

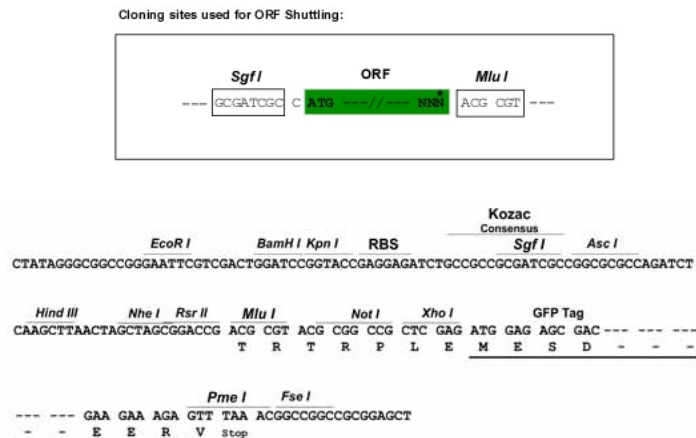
>RG225624 representing NM_001109879
 Red=Cloning site Green=Tags(s)

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGEEEEERRSSAAGKSEPLEKQPKTEPSTSA
 SSGCGSDSGYGNSSSELEEKDIQMEHQSELWKRFDIGTEMIITKAGRRMFPSVRVKVKGLDPGKQYHV
 AIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCTIPRFYVHPDSPCSGETWMRQIIISFDRMKLTNNEMDDKG
 HIILQSMHKKPRVHVIEQGSSVDLSQIQSLPTEGVKTFSEKETEFTTVTAYQNQQITKLKIERNPFAKG
 FRDTGRNRGVLDGLLETYPWRPSFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPLNLLSPLCFSPMHL
 PTSSLGMPCEAYLPNVNLPICYKICPTNFWQQQLVLPAPERLASSNSSQSLAPLMMEVPMPLSSLGVTN
 SKSGSSEDSSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMP SRLISGSN
 HLKVNDDSQVSFGGKCNHWHWYPAINHYL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001109879

ORF Size: 1563 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_001109879.1](#), [NP_001103349.1](#)

RefSeq Size: 2351 bp

RefSeq ORF: 1203 bp

Locus ID: 50945

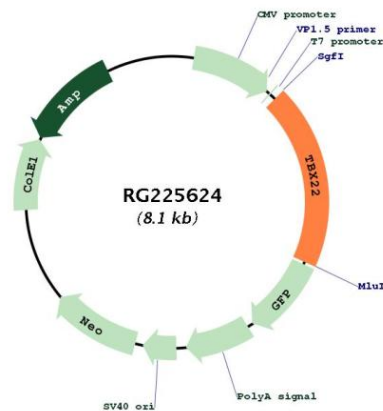
UniProt ID: [Q9Y458](#)

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 RG225624