

Product datasheet for **RG204340**

TBX22 (NM_016954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >RG204340 representing NM_016954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTCTGAGCTCTCGGGCGCGTGCCTTCTCCGTGGAAGCCTTGGTGGGAGACCCAGCAAAAGAAAAC
 TCCAAGACCCAATACAGGCGGAGCAGCCTGAGCTGCGGGAGAAAAAGGCGGAGAGGAAGAGGAGGAGAG
 AAGGAGCAGCGCTCAGGGAAGAGCGAGCCGCTTAAAAACAACCTAAGACAGAGCCCTCAACATCTGCT
 TCCTCTGGCTGCGGCAGCGACAGCGCTACGGCAACAGCTCTGAAAGTCTGGAAGAGAAAGATATTCAA
 TGGAGCTTCAAGGATCTGAAGTGTGAAAAAGATTCCATGACATCGGACTGAGATGATCATTACTAAAGC
 GGGCAGGCGGATGTTCCCTCTGTTCCGGTCAAGGTGAAAGGTTGGATCCAGGGAAGCAGTACCATGTG
 GCCATCGATGTGGTCCGGTGGATTCCAAACGCTATAGGTACGTCTATCACAGCTCACAGTGGATGGTAG
 CTGGGAATACAGACCATTTGTGCATCATTCTAGATTCTATGTTCAACCGGACTCACCTGCTCGGAGAG
 GACCTGGATGCGGCAGATCATCAGCTTTGATCGCATGAACTACCAACAATGAGATGGATGACAAAGGC
 CACATCATTCTGCAATCCATGCATAAGTACAAACCCCGAGTGCACGTGATAGAGCAAGGCAGCAGTGTTG
 ACCTGTCCCAGATTCAGTCCTTGCCCACTGAAGGTGTTAAACATTCTCCTTTAAAGAACTGAGTTCAC
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 CAACAGTTCTCAGTCTTTAGCCCCACTCATGATGGAAGTGCCTATGTTATCTTCCCTGGGGTCAACCAAT
 TCAAAAGCGGTTTCATCTGAAGACTCCAGTGATCAGTATCTACAAGCACCTAATTCTACCAATCAATGT
 TATATGGATTACAGTCACCTGGAAATATTTTCTGCCAACTCCATCACCCAGAAGCACTAGTTGCTC
 CTTTCATCCTTCTATGACTTTTATAGATACAATTTCTCTATGCCATCTAGACTGATAAGTGGTTCCAAC
 CATCTTAAAGTGAATGACGACAGTCAAGTTTCTTTGGAGAAGGCAATGTAATCATGTTTCATTGGTATC
 CAGCAATTAACATTACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

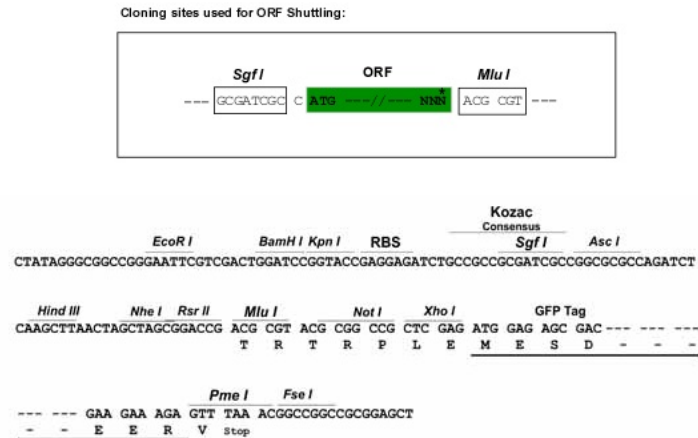
Protein Sequence: >RG204340 representing NM_016954
 Red=Cloning site Green=Tags(s)

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGGEEEEERRSSAAGKSEPLEKQPKTEPSTSA
 SSGCGSDSGYGNSSESLEEKDIQMEIQGSELWKRFDIGTEMIITKAGRRMFPSVRVKVGLDPGKQYHV
 AIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCTIIPRFYVHPDSCSGETWMRQIISFDRMKLTNNEMDDKG
 HIILQSMHKYKPRVHVIEQGSSVDLSQIQSLPTEGVKTF SFKETEF TTVAYQNQQTITKLKIERNPFAKG
 FRDTGRNRGVLDGLLETYPWRPSFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPLNSLLSPLCFSPMFHL
 PTSSLGMPCEAYLPNVNLP CYKICPTNFWQQPLVLPAPERLASSNSSQSLAPLMMEVPMLSSLGVTN
 SKSGSSESDSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMP SRLISGSN
 HLKVNDDSQVSFGEGKCNHVVHWPAINHYL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016954

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.

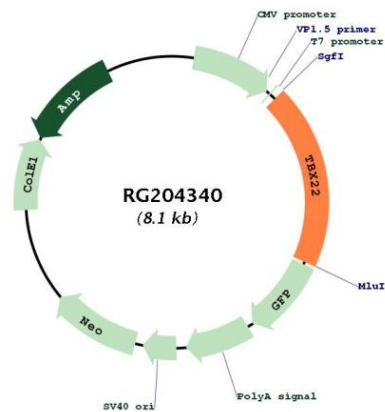
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016954.2](#), [NP_058650.1](#)

RefSeq Size: 2248 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 RG204340