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# Product datasheet for RC225624

## TBX22 (NM_001109879) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | TBX22 (NM_001109879) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | TBX22 |
| **Synonyms:** | ABERS; CLPA; CPX; dJ795G23.1; TBXX |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC225624 representing NM_001109879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGAGCTCTCGGGCGCGTGCCTTCTCCGTGGAAGCCTTGGTGGGGAGACCCAGCAAAAGAAAAC
TCCAAGACCCAATACAGGCGGAGCAGCCTGAGCTGCGGGAGAAAAAGGGCGGAGAGGAAGAGGAGGAGAG
AAGGAGCAGCGCTGCAGGGAAGAGCGAGCCGCTTGAAAAACAACCTAAGACAGAGCCCTCAACATCTGCT
TCCTCTGGCTGCGGCAGCGACAGCGGCTACGGCAACAGCTCTGAAAGTCTGGAAGAGAAAGATATTCAAA
TGGAGCTTCAAGGATCTGAACTGTGGAAAAGATTCCATGACATCGGGACTGAGATGATCATTACTAAAGC
GGGCAGGCGGATGTTCCCCTCTGTTCGGGTCAAGGTGAAAGGGTTGGATCCAGGGAAGCAGTACCATGTG
GCCATCGATGTGGTGCCGGTGGATTCCAAACGCTATAGGTACGTCTATCACAGCTCACAGTGGATGGTAG
CTGGGAATACAGACCATTTGTGCATCATTCCTAGATTCTATGTTCACCCGGACTCACCCTGCTCGGGAGA
GACCTGGATGCGGCAGATCATCAGCTTTGATCGCATGAAACTCACCAACAATGAGATGGATGACAAAGGC
CACATCATTCTGCAATCCATGCATAAGTACAAACCCCGAGTGCACGTGATAGAGCAAGGCAGCAGTGTTG
ACCTGTCCCAGATTCAGTCCTTGCCCACTGAAGGTGTTAAAACATTCTCCTTTAAAGAAACTGAGTTCAC
CACAGTAACGGCTTACCAAAACCAACAGATTACGAAACTAAAAATAGAAAGAAATCCTTTTGCTAAAGGA
TTTAGAGATACTGGAAGAAACAGGGGTGTATTGGATGGGCTTTTAGAGACCTACCCATGGAGGCCTTCTT
TCACTCTCGATTTTAAAACCTTTGGCGCAGACACACAAAGTGGAAGCAGTGGCTCATCTCCAGTGACCTC
TAGTGGAGGGGCCCCCTCTCCTTTGAACTCCTTACTTTCTCCACTTTGCTTTTCACCTATGTTTCATTTA
CCTACAAGCTCCCTTGGAATGCCCTGTCCAGAGGCATACCTGCCCAATGTCAACCTGCCTCTATGCTACA
AGATTTGTCCAACTAATTTTTGGCAACAGCAACCTCTTGTTTTACCGGCTCCTGAAAGACTAGCAAGCAG
CAACAGTTCTCAGTCTTTAGCCCCACTCATGATGGAAGTGCCTATGTTATCTTCCCTGGGGGTCACCAAT
TCAAAAAGCGGTTCATCTGAAGACTCCAGTGATCAGTATCTACAAGCACCTAATTCTACCAATCAAATGT
TATATGGATTACAGTCACCTGGAAATATTTTTCTGCCAAACTCCATCACCCCAGAAGCACTTAGTTGCTC
CTTTCATCCTTCCTATGACTTTTATAGATACAATTTCTCTATGCCATCTAGACTGATAAGTGGTTCCAAC
CATCTTAAAGTGAATGACGACAGTCAAGTTTCTTTTGGAGAAGGCAAATGTAATCATGTTCATTGGTATC
CAGCAATTAACCATTACCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC225624 representing NM_001109879
Red=Cloning site Green=Tags(s)

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGGEEEEERRSSAAGKSEPLEKQPKTEPSTSA
SSGCGSDSGYGNSSESLEEKDIQMELQGSELWKRFHDIGTEMIITKAGRRMFPSVRVKVKGLDPGKQYHV
AIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCIIPRFYVHPDSPCSGETWMRQIISFDRMKLTNNEMDDKG
HIILQSMHKYKPRVHVIEQGSSVDLSQIQSLPTEGVKTFSFKETEFTTVTAYQNQQITKLKIERNPFAKG
FRDTGRNRGVLDGLLETYPWRPSFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPLNSLLSPLCFSPMFHL
PTSSLGMPCPEAYLPNVNLPLCYKICPTNFWQQQPLVLPAPERLASSNSSQSLAPLMMEVPMLSSLGVTN
SKSGSSEDSSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMPSRLISGSN
HLKVNDDSQVSFGEGKCNHVHWYPAINHYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

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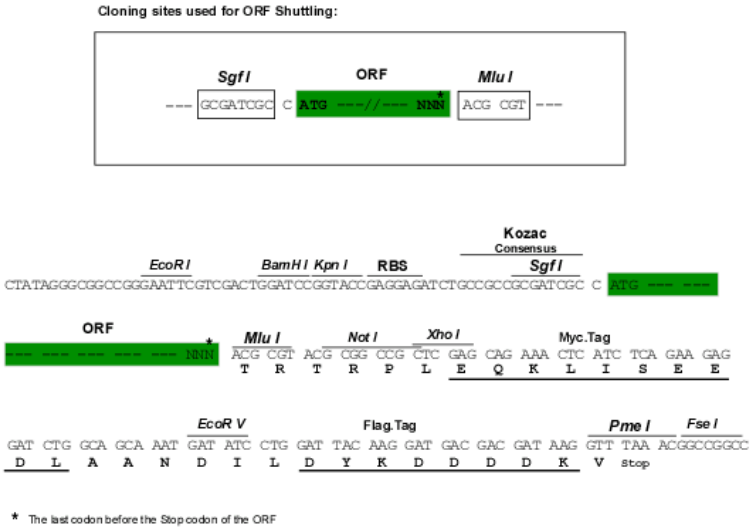
**Cloning Scheme:**




**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

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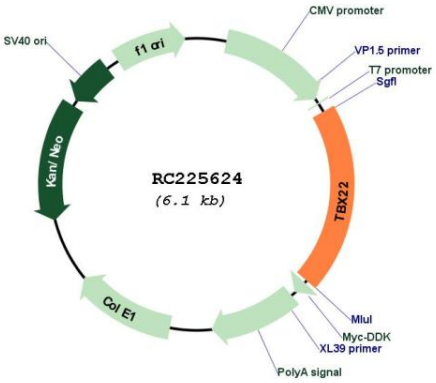
| | |
|---|---|
| **Cytogenetics:** | Xq21.1 |
| **Protein Families:** | Transcription Factors |
| **MW:** | 57.9 kDa |
| **Gene Summary:** | This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors 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 RC225624

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