

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTGAGCTCTCGGGCGCTGCCTTCTCCGTGGAAGCCTTGGTGGGAGACCCAGCAAAGAAAAC
 TCCAAGACCCAATACAGGCGGAGCAGCCTGAGCTGCGGGAGAAAAAGGGCGGAGGAAGAGGAGGAGAG
 AAGGAGCAGCGCTGCAGGGAAGAGCGAGCCGCTTGAAAAACAACCTAAGACAGAGCCCTCAACATCTGCT
 TCCTCTGGCTGCGGCAGCGACAGCGGCTACGGCAACAGCTCTGAAAGTCTGGAAGAGAAAGATATTCAAA
 TGGAGCTTCAAGGATCTGAACTGTGAAAAAGTCCATGACATCGGGACTGAGATGATCATTACTAAAGC
 GGGCAGGCGGATGTTCCCTCTGTTGCGGTCAAGGTGAAAGGTTGGATCCAGGGAAGCAGTACCATGTG
 GCCATCGATGTGGTGCCGGTGGATTCAAACGCTATAGGTACGTCTATCACAGCTCACAGTGGATGGTAG
 CTGGGAATACAGACCATTGTGCATCATTCTAGATTCTATGTTACCCGGACTCACCTGCTCGGGAGA
 GACCTGGATGCGGCAGATCATCAGCTTTGATCGCATGAAACTCACCAACAATGAGATGGATGACAAAGGC
 CACATCATTCTGCAATCCATGCATAAGTACAAACCCCGAGTGCACGTGATAGAGCAAGGCAGCAGTGTG
 ACCTGTCCAGATTCAAGTCTTGCCCACTGAAAGTGTAAAACATTCTCCTTTAAAGAACTGAGTTCAC
 CACAGTAACGGCTTACAAAACCAACAGATTACGAAACTAAAAATAGAAAGAAATCCTTTTGCTAAAGGA
 TTTAGAGATACTGGAAGAAAACAGGGGTGATTGGATGGGCTTTTAGAGACCTACCCATGGAGGCCTTCTT
 TCACTCTCGATTTTAAACCTTTGGCGCAGACACAAAGTGAAGCAGTGGCTCATCTCCAGTGACCTC
 TAGTGGAGGGGCCCTCTCCTTTGAACTCCTTACTTTCTCCACTTTGCTTTTACCATATGTTTCATTTA
 CCTACAAGCTCCCTTGAATGCCCTGTCCAGAGGCATACCTGCCCAATGTCAACCTGCCTCTATGCTACA
 AGATTTGTCCAATAATTTTGGCAACAGCAACCTCTTGTTTTACCGGCTCCTGAAAGACTGCAAGCAG
 CAACAGTTCTCAGTCTTTAGCCCACTCATGATGGAAGTGCCATGTTATCTTCCCTGGGGTCAACAAAT
 TCAAAAAGCGGTTTCTGAAAGTCCAGTGTAGTATCTACAAGCACCTAATTCTACCAATCAATGT
 TATATGGATTACAGTACCTGGAATAATTTTCTGCCAACTCCATCACCCAGAAAGCACTTAGTTGCTC
 CTTTATCCTTCTATGACTTTTATAGATAACAATTTCTCTATGCCATCTAGACTGATAAGTGGTTCCAAC
 CATCTTAAAGTGAATGACGACAGTCAAGTTTCTTTGGAGAAGGCAAATGTAATCATGTTTATTGTTATC
 CAGCAATTAACCATTACCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGGEEEEERRSSAAGKSEPLEKQPKTEPSTSA
 SSGCGSDSGYGNSSLEEKDIQMELOQSELWKRFDIGTEMIITKAGRRMFPSVRVKVGLDLPKQYHV
 AIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCIIPRFYVHPDSPCSGETWMRQIISFDRMKTNNEMDDKG
 HIILQSMHKYKPRVHVIEQGSSVDLSQIQSLPTEGVKTF SFKETEFTTAVTAYQNQQITKLIERNPFKAG
 FRDTGRNRGVLGDLLETYPWRPFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPNLSLLSPLCFSPMHL
 PTSSLGMPCEAYLPNVNPLCYKICPTNFWQQPLVLPAPERLASSNSQSLAPLMMEVPMLSSLGVTN
 SKSGSSEDSSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMPSRLISGSN
 HLKVNDDSQVSFGEKCNHWHWYPAINHLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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
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]