

Product datasheet for **RC212862**

TBX10 (NM_005995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX10 (NM_005995) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBX10
Synonyms:	TBX7; TBX13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212862 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGCCTTCCTATCTGCTGGCCTCGGCATACTTGACCCCTCAGAGACCTACCCCTACCTACAACCA
GCTCTGGCTGGGAGCCCCGGCTGGGGTACCATTCCCATCAGGCCCTTGACCCAGCTCTACTGGGCCCCA
AGCTGTGGCCGAGCCCACTGGGCAGGGCCCCAAGAACCACGTGTGTCCAGAGTGACAGTTCAGCTGGAG
ATGAAGCCTCTGTGGGAGGAATCAACCAGCTGGGCACTGAGATGATCGTCACCAAGGCAGGCAGGAGGA
TGTTCCCCCCTTCCAGGTGAAGATCCTGGGCATGGACTCCCTGGCCGACTACGCCCTGCTCATGGACTT
CATCCCCCTGGACGACAAGAGATACAGGTATGCCCTCCACAGCTCGGCCCTGGCTGGTGGCGGCAAGGCA
GACCCAGCCACACCTGGCCGCGTGCACTTCCACCCGACTCGCCAGCCAAGGGTGCCAGTGATGCGCC
AGATTGTGTCTTTGACAAGCTCAAGCTGACCAACAACCTGCTGGATGACAATGGCCACATCATTCTCAA
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GCCCAGGAGAAGTTCAAGTCCTTCATCTTCACAGAGACCCAGTTCACAGCAGTGACAGCCTATCAGAACC
ACAGGATCACCCAGCTGAAAATCGCCAGCAACCCTTTTGCCAAAGGCTTTAGAGAGAGTGACCTGGACTC
CTGGCCTGTGGCCCCACGGCCCCGTGCTCAGTGTCCAGCCCGGAGTCACAGCAGCCTCAGTCCCTGTGTG
CTGAAGGGTGCCACAGACAGGGAGAAAGACCCCAACAAAGCTTCAGCTTCCACCTCCAAGACCCCTGCTT
GGCTCCATCATCAGCTGCTGCCCCACCTGAGGTCTGCTGGCCCGGCCACCTACAGGCCCTGTACGTA
TCAGAGCCTGTACTCTGGAGCCCCGAGCCACCTAGGGATCCCAAGGACCCGACCAGCACCATAACCCCTC
CCCAACATCCGGGCTGATAGGGATCAAGGAGGCCTGCCTCTCCAGCTGGGCTGGGGCTCCTGTCCCCCA
CTGTGGTGTGCCTGGGGCTGGCCAGGACTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212862 protein sequence
 Red=Cloning site Green=Tags(s)

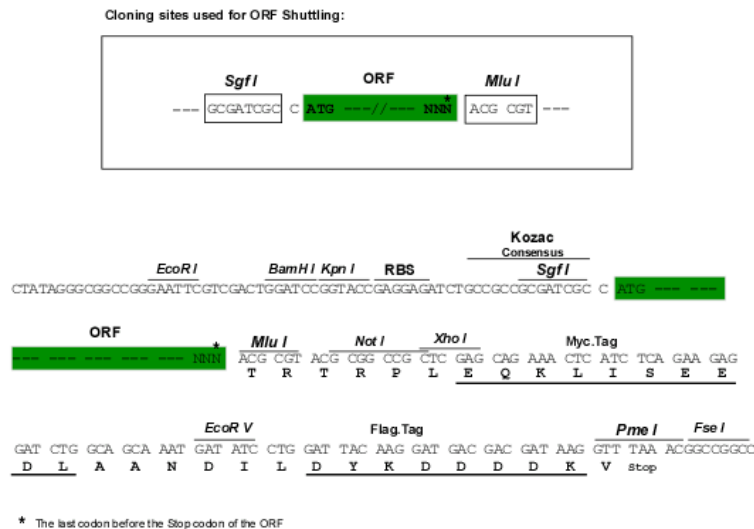
MAAFLSAGLGILAPSETYPLPTTSSGWEPRLGSPFSGPCTSSSTAQAQVAEPTGQGPKNPRVSRVTVQLE
 MKPLWEEFNQLGTEMIVTKAGRRMFPPFQVKILGMDSLADYALLMDFIPLDDKRYRYAFHSSAWLVAGKA
 DPATPGRVHFHPDSPAQAQWVRQIVSFDKLLKLNLLDDNGHILNSMHRYQPRFHVVFVDPKDSERY
 AQENFKSFIFTETQFTAVTAYQNHRTQLKIASNPFAKGFRESLDLSDWPVAPRLLSVPARSHSSLSPCV
 LKGATDREKDPNKASASTSKTPAWLHHQLLPPPEVLLAPATYRPVTYQSLYSGAPSHLGIPTRPAPYPL
 PNIRADRDQGGGLPLPAGLGLLSPTVVCLGPGQDSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6461_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005995

ORF Size: 1155 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_005995.4](#), [NP_005986.2](#)

RefSeq Size: 1557 bp

RefSeq ORF: 1158 bp

Locus ID: 347853

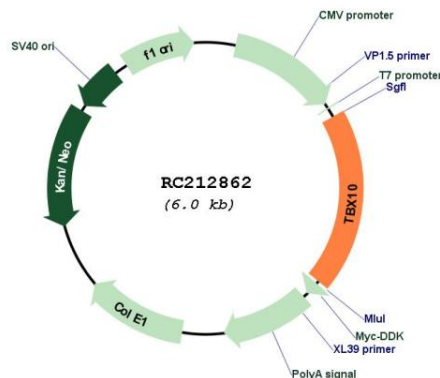
UniProt ID: [O75333](#)

Cytogenetics: 11q13.2

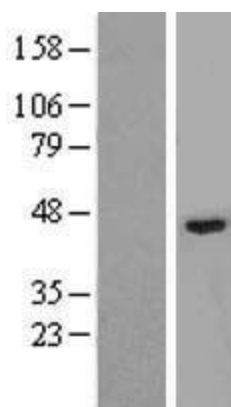
MW: 42.3 kDa

Gene Summary: This gene encodes a member of the T-box family of transcription factors. These transcription factors share a DNA-binding domain called the T-box, and play a role in several developmental processes including early embryonic cell fate and organogenesis. The encoded protein is a member of the T-box 1 subfamily. Mutations in this gene are thought to be a cause of isolated cleft lip with or without cleft palate. [provided by RefSeq, Nov 2010]

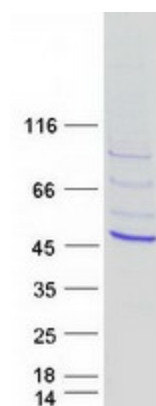
Product images:



Circular map for RC212862



Western blot validation of overexpression lysate (Cat# [LY416940]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212862 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBX10 protein (Cat# [TP312862]). The protein was produced from HEK293T cells transfected with TBX10 cDNA clone (Cat# RC212862) using MegaTran 2.0 (Cat# [TT210002]).