

Product datasheet for **RG221808**

TBX5 (NM_181486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX5 (NM_181486) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBX5
Synonyms:	HOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221808 representing NM_181486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGACGACGAGGGCTTTGGCCTGGCGCACGCCTCTGGAGCCTGACGCAAAGACCTGCCCT
 GCGATTCGAAACCGAGAGCGCGCTCGGGCCCCAGCAAGTCCCGTCGTCCCCGAGGCCGCTTCAC
 CCAGCAGGGCATGGAGGGAATCAAAGTGTTCATGAAAGAGAACTGTGGCTAAAAATCCACGAAGT
 GGCACGGAATGATCATAACCAAGGCTGGAAGCGGATGTTTCCAGTTACAAAGTGAAGGTGACGGGCC
 TTAATCCAAAACGAAGTACATTCTTCTCATGGACATTGTACCTGCCGACGATCAGAGTACAAAATTCG
 AGATAATAAATGGTCTGTGACGGGCAAAGCTGAGCCCGCCATGCCTGGCCGCTGTACGTGACCCAGAC
 TCCCCCGCCACCGGGCGCATTGGATGAGGCAGCTCGTCTCCTCCAGAACTCAAGCTCACCAACAACC
 ACCTGGACCCATTTGGGCATATTATTCTAAATTCATGCACAAAACCAGCCTAGATTACACATCGTGAA
 AGCGGATGAAAAAATGGATTTGGCTCAAAAAATACAGCGTTCTGCACTCAGTCTTTCTGAGACTGCG
 TTTATAGCAGTGACTTCCACCAGAACCACAAGATCACGCAATTAAGATTGAGAATAATCCCTTTGCCA
 AAGGATTTCCGGGCGAGTATGACATGGAGCTGCACAGAATGTCAAGAATGCAAAGTAAAGAAATACCCGT
 GGTCCCCAGGAGCACCGTGGGCAAAAAGTGGCCTCCAACCACAGTCTTTCCAGCAGCGAGTCTCGAGCT
 CTCTCCACCTCATCCAATTTGGGGTCCCAATACCAGTGTGAGAATGGTGTTCGGGCCCTCCAGGACC
 TCCTGCCTCCACCAACCCATACCCACTGCCCCAGGAGCATAGCCAAATTTACCATTGTACCAAGAGGAA
 AGAGGAAGAATGTTCCACCACAGACCATCCCTATAAGAAGCCCTACATGGAGACATCACCCAGTGAAGAA
 GATTCCTTCTACCGCTCTAGCTATCCACAGCAGCAGGGCCTGGGTGCCTCTACAGGACAGAGTCCGGCAG
 AGCGGCAAGCTTGATGTATGCCAGCTCTGCGCCCCCAGCGAGCCTGTGCCAGCCTAGAGGACATCAG
 CTGCAACACAGTGGCCAAGCATGCCCTTCTACAGCAGCTGCACCGTACCACCGTGCAGCCATGGACAGG
 CTACCCTACCAGCACTTCTCCGCTCACTTCACTCGGGGCCCTGGTCCCTCGGCTGGCTGGCATGGCCA
 ACCATGGCTCCCCACAGCTGGGAGAGGGAATGTTCCAGCACCAGACCTCCGTGGCCACCAGCCTGTGGT
 CAGGCAGTGTGGGCTCAGACTGGCCTGCAGTCCCCTGGCACCCTTACGCCCTGAGTTCCTCTACTCT
 CATGGCGTGCCAAGGACTCTATCCCTCATCAGTACCCTCTGTGCACGGAGTTGGCATGGTGCCAGAGT
 GGAGCGACAATAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221808 representing NM_181486
 Red=Cloning site Green=Tags(s)

MADADEGFGLAHTPLEPDAKDLPCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFLLHERELWLKFHEV
 GTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLLYVHPD
 SPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLLHIVKADENNGFGSKNTAFCTHVFPETA
 FIAVTSYQNHKITQLKIENPFKGFGRGSDMELHRMSRMQSKEYPVVPRSTVRQKVASNHSPFSSESRA
 LSTSSNLGSQYQCENGVSGPSQDLLPPPNPYPLPQEHSQIYHCTKRKEEECSTTDHPYKPKYMETSPSEE
 DSFYRSSYPQQQLGASRYTESAQRQACMYASSAPPSEPVPVPSLEDISCNTWPSMPSYSSCTVTTVQPMDR
 LPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVAHQPVVRQCGPQTGLQSPGTLQPPEFLYS
 HGVPRTLSPHQYHSVHGVGMVPEWSDNS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_181486

ORF Size: 1554 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_181486.4](#)

RefSeq Size: 3749 bp

RefSeq ORF: 1557 bp

Locus ID: 6910

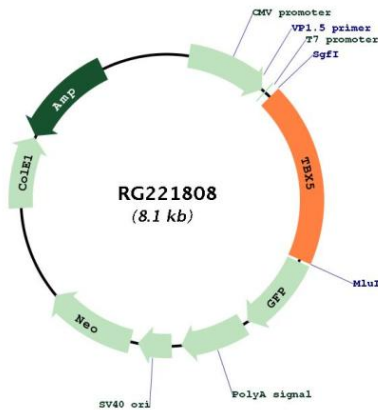
UniProt ID: [Q99593](#)

Cytogenetics: 12q24.21

Protein Families: Druggable Genome, 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. This gene is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221808