

Product datasheet for **RR212710**

Tbx21 (NM_001107043) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbx21 (NM_001107043) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbx21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR212710 representing NM_001107043
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATACCGAGTGACGAGGGCC
 GGGGACCGGAGCGGACCAGCAGCATCGCTTCTTTTATCCGGAGTCGGGGCACAGGACCCGACCGATCG
 CCGGGCAGTTAGCAGCCTGGGGTCGTCCTATTCTGGGAGCGCCTTGGTGCCTGCCCGCCCGGTTCGCTTC
 CTCGGAGCCTACGCCTACCCGCCCGGGCCAGGCGACTGGCTTCCCGGGCTGGCGAGTCTTCCCGC
 CGCCCGGGTGCAGGAGGCTACCCGCCGGTGGATGGCTACGCTGCCCGGACCCGCGCGCCGGCTCTA
 TCCAGGGCCCGGAGGACTACGCATTGCCCGGGGTTGGAGGTGTGGGGAAGCTGAGAGTCGCGCTC
 AGCAACCACCTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGATCATCTAAGCAAGGACGGA
 GAATGTTCCCATTCCTGTCTTCACTGTGGCCGGGCTGGAGCCCAGGACATTACAGGATGTTTGTGGA
 TGTAGTCTTGGTGGACAGCACCCTGGCGGTACCAGAGTGGCAAGTGGTGCAGTGTGGGAAGGCCGAA
 GGCAGTATGCCAGGAAACCGCTTATACGTCACCCAGACTCCCAACACTGGAGCCACTGGATGCGAC
 AGGAAGTTTCATTTGGGAACTAAAGCTTACCAACAACAAGGGGCTTCCAACAATGTGACCCAGATGAT
 CGTCTGCAGTCCCTCCATAAGTACCAGCCGCGCTCCACATCGTGGAGGTGAATGACGGTGAGCCAGAG
 GCGGCCTGCAGTGCTAACACTCACATCTTACCTTCCAAGAGACCCAGTTCATTGCCGTGACTGCCTACC
 AGAATGCAGAGATCACTCAGCTGAAAATCGACAACAACCCTTTGCCAAGGATTCGGGAGAACTTTGA
 GTCCATGTATACATCGGTTGATACGAGTGTCCCTCGCCACCTGGACCAACTGTCAACTGCTTGGGGGA
 GACCCCTACTCACCTCTTCTGTGAACCACTTACTGGTGGGAACACCTCGGGAACCCAGTTATGAAACAGAGT
 AGCCAAAGATATGGTCTCACAGTCTTACTGGTGGGAACACCTCGGGAACCCAGTTATGAAACAGAGT
 CCGAGCAGTGAGCGTGAAGCCACATTCCTACCCTCTGCTCCTGGGACCACTGTGCCCTACTACCGGGC
 CCAGATGTCTGGCTCCTGGAGTGGTTGGCCATGGCGCCTCAGTATCCTCCTAAGATGAGCCAGCTG
 GCTGGTCCGAACCATGCGAACTCTGCCATGGACCCGGGCTGGGATCCTCAGAGGAACAGGGTCCCC
 TTCGCTGTGGACTGAGGTACCTCCCTCCAGCCGAGCCAGCGACTCAGGACTAGGCGAGGGAGACT
 AAGAGGAGGAGAATATCCCCTATCCTTCCAGTGGCGACAGCTCCTCCTCCGCTGGGGCCCCCTCTCCT
 TTGATAAGGAAACCGAAGGCCAGTTTTATAACTATTTTCCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212710 representing NM_001107043
 Red=Cloning site Green=Tags(s)

MGIVEPGCDMLTGTEPIPSDEGRGTGADQQHRFFYPESGAQDPTDRRAVSSLGSSYSGSALVPAPPGRF
 LGAYAYPPRAQATGFPGPGEFPPPAEYPPVDGYAAPDPRAGLYPGPREDYALPAGLEVSGKLRVAL
 SNHLLWSKFNQHQTEMIITKQGRMFPPFLSFTVAGLEPTSHYRMFVDVLLVDQHHWRYQSGKWWQCGKAE
 GSMPGNRLYVHPDSPNTGAHWMRQEVSFGLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPE
 AACSANTHIFFQETQFIAVTAYQNAEITQLKIDNNPF AKGFRENFE SMYTSVDT SVPSPPGPNCLLGG
 DPYSPLL SNQYPVSSRF YPDLP GPQKDMVSQSYWL GTPREPSYETE FRAVSVKPTFLPSAPGTTVPYYRG
 PDVLPAGAGWPMAPQYPPKMSPAGWFRMTMLPMDPGLGSSEEQGSPLWTEVTSLQPEPSSDGLGEGDT
 KRRRISPYPSSGDSSSPAGAPSPFDKETEGFYNYFPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

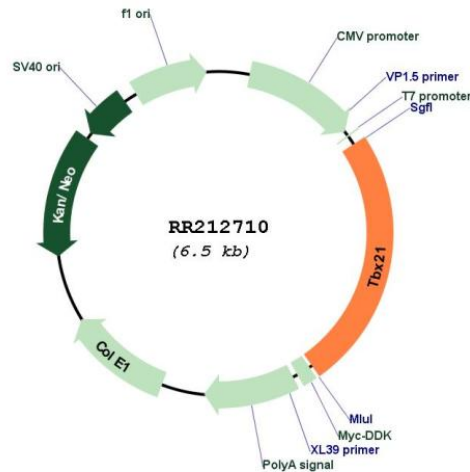
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001107043

ORF Size: 1584 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_001107043.1](#), [NP_001100513.1](#)

RefSeq Size: 2428 bp

RefSeq ORF: 1587 bp

Locus ID: 303496

Cytogenetics: 10q31

MW: 57.7 kDa