

Product datasheet for **SC115297**

TBX21 (NM_013351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX21 (NM_013351) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX21
Synonyms:	T-bet; T-PET; TBET; TBLYM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC115297 representing NM_013351.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCATCGTGGAGCCGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAG
GGCCGGGGCGCTGGCGCCGACCCGACGACCGCTACTTCTACCCGGAGCCGGGCGCGAGGACCGGGAC
GAGCGTCGCGGGGGCGGACCTGGGGTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCGCCGAGC
CGTTCCTTGGAGCCTACGCCTACCCGCGCGACCCAGGCGGCCGGCTTCCCGGCGGGGCGAGTCC
TCCCGCCCGCCGCGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGCCCGGACCCGCGCGCC
GGGCTCTACCCGGGGCCGCTGAGGACTACGCGCTACCCGCGGGACTGGAGGTGTCGGGAAACTGAGG
GTCGCGCTCAACAACCACCTGTTGTGGTCCAAGTTAATCAGCACCAGACAGAGATGATCATCACAAG
CAGGGACGGCGGATGTTCCATTCTGTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGG
ATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGAGCGGCAAGTGGTGCAGTGT
GAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCAACACAGGAGCG
CACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACAAGGGGGCGTCCAACAAT
GTGACCCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCGGCTGCATATCGTTGAGGTGAAC
GACGGAGAGCCAGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTC
ATTGCCGTGACTGCCTACCAGAAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAA
GGATTCGGGAGAACTTTGAGTCCATGTACACATCTGTTGACACCAGCATCCCCTCCCGCCTGGACCC
AACTGTCAATTCCTTGGGGGAGTCACTACTCTCTCTCTACCCAACAGTATCCTGTTCCAGCCGC
TTCTACCCGACCTTCTGGCCAGGCGAAGGATGTGGTTCCCGAGGCTTACTGGCTGGGGCCCCCGGG
GACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAAGCCTGCATTCTTCCCTCTGCCCTGGG
CCCACTGTCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGCTGGCTGGCCTGTGGCACCCAG
TACCCTCCAAGATGGGCCCGGCCAGCTGGTTCGCCCTATGCGGACTCTGCCATGGAACCCGGCCCT
GGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGATTGCCCCATC
CGGCCGAATCCAGTGATTCAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGGTGTCCCCTATCCT
TCCAGTGGTGACAGCTCCTCCCCTGCTGGGGCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTT
TATAACTATTTTCCCAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_013351

Insert Size: 1608 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_013351.1
RefSeq Size:	2589 bp
RefSeq ORF:	1608 bp
Locus ID:	30009
UniProt ID:	Q9UL17
Cytogenetics:	17q21.32
Domains:	T-box
Protein Families:	Druggable Genome, Transcription Factors
MW:	58.3 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. This gene is the human ortholog of mouse Tbx21/Tbet gene. Studies in mouse show that Tbx21 protein is a Th1 cell-specific transcription factor that controls the expression of the hallmark Th1 cytokine, interferon-gamma (IFNG). Expression of the human ortholog also correlates with IFNG expression in Th1 and natural killer cells, suggesting a role for this gene in initiating Th1 lineage development from naive Th precursor cells. [provided by RefSeq, Jul 2008]