

# Product datasheet for RC207902L1

# TBX21 (NM\_013351) Human Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	TBX21 (NM_013351) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	TBX21
Synonyms:	T-bet; T-PET; TBET; TBLYM
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207902).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I            GCG ATC GC         ATG //         NNN         ACG CGT

 $\begin{tabular}{c} \hline $K_{073}k$ \\ \hline $K_{073}k$ \\$ 

\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_013351 1605 bp



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OII Disclaimer:Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coil are highly likely to result in mutations and/or rearrangements. Therefore, OrGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OrGene with blatch-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 existene. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More infoOII Annotation: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. Carefuly open the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. S. 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:MM 0133511RefSeq ORF:1608 bpLocus ID:090117Ourlare090117Ourlare090117Ordians:090117Ordians:090340Ningeable Genome, Transcription FactorsMw:051,80,80	<b>GRIGENE</b> TBX21 (NM_013351) Human Tagged Lenti ORF Clone – RC207902L1	
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 infoOTI 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 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 0133511RefSeq ORF:1608 bpLocus ID:03009UniProt ID:09U117Cytogenetics:17q21.32Domains:reloxProtein Families:0ruggable Genome, Transcription Factors	OTI Disclaimer:	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 <u>custsupport@origene.com</u> or by
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Protein Families: Druggable Genome, Transcription Factors	Cytogenetics:	17q21.32
	Domains:	T-box
<b>MW:</b> 58.1 kDa	Protein Families:	Druggable Genome, Transcription Factors
	MW:	58.1 kDa

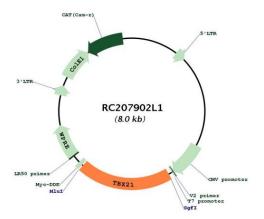
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### Scheme Sc

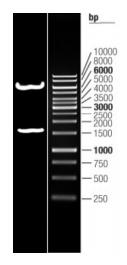
#### Gene Summary:

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, interferongamma (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]

# **Product images:**



Circular map for RC207902L1



Double digestion of RC207902L1 using Sgfl and Mlul

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