

Product datasheet for **RG210787**

Tpit (TBX19) (NM_005149) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpit (TBX19) (NM_005149) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tpit
Synonyms:	dj747L4.1; TBS19; TPIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210787 representing NM_005149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCATGAGTGAGCTGGCACTCGGAAGCCAGCGATGGCACTGTTTCTCATCTGCTCAATGTGGTGG
 AGAGTGAGCTTCAGGCAGGGAGGAAAAAGGCGACCTACGGAGAAGCAACTTCAGATCATCCTGGAGGA
 TGCACCTCTCTGGCAGAGATTCAAGGAAGTCACTAATGAGATGATTGTGACCAAGAAATGGCAGACGGATG
 TTTCCAGTCTAAAGATTAGTGTACAGGGTTGGACCCAATGCCATGTAATCCCTCTGCTGGACTTTG
 TCCCTACGGACAGTCACCGCTGGAAGTACGTCAACGGGGAATGGGTGCCCGCTGGCAAGCCAGAGGTCTC
 CAGCCACAGCTGCGTCTACATTCACCCGACTCCCCAACTTTGGGGCCCACTGGATGAAAGCTCCCATC
 TCCTTCAGCAAAGTGAAGCTGACCAACAAGCTCAATGGAGGCGGGCAGATAATGTTGAATCTCTGCATA
 AATATGAACCCAGGTTACATAGTGCCTGTTGGAAGTGGCCATCGAATGGTAACAAACTGCTCCTTCCC
 TGAACCCAGTTCATAGCCGTGACTGCCTATCAGAATGAGGAGATAACGGCTCTCAAATCAAGTACAAT
 CCTTTTGCCAAAGCCTTCTTGGATGCCAAGGAAAGAAATCACCTAAGAGACGTACCGGAGGCTATCTCTG
 AGAGCCAGCATGTGACCTATTCTCACTTGGGAGGCTGGATCTTTTCCAATCCAGATGGAGTGTGCACAGC
 AGGAAACTCCAATTACCAGTATGCCGCTCCTCTGCCTCTGCCTGCTCCCCACACCCACCATGGCTGTGAG
 CACTATTCGGGTCTCCGAGGACACCGGCAGGCTCCCTACCTTCTGCGTACATGCACAGAAACCATTCTC
 CCTCAGTGAATTTGATAGAAAGCTCAAGCAATAATCTGCAAGTTTCTCGGGACCTGACAGCTGGACTTC
 CTTATCCTCCACACCCCATGCCAGCATCCTGTCTGTACCCACACCAACGGACCAATCAATCCAGGGCCC
 AGCCCCACCCGTGCCTGTGGACCATCAGCAATGGTCCGGAGGCCCACTGGGCCAGGCCCGGAGGTGC
 ACGCCAGCACCCAGGAGCATTCTCCTCGGAAACCCAGCTGTGACTTCACCCCTTCTGTGCTCTCCAC
 CCAAGCACCCACTTCGGCTGGTGTGGAGGTTCTGGGGGAGCCCTCGCTAACCCAGCATTGCTGTGCCACC
 TGGACAGCAGTGGCTCGCATCCCTTCGCGGGCTGGGGTGGCCAGGAGCGGGTGGCCACCATCTCCT
 CCTCACTGGATGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210787 representing NM_005149
 Red=Cloning site Green=Tags(s)

MAMSELGTRKPSDGTVSHLLNVVESELQAGREKGDPTKQLQIILEDAPLWQRFKEVTNEMIVTKNGRRM
 FPVLKISVTGLDPNAMYSLLDFVPTDSHRWKYVNGEWPAGKPEVSSHSCVYIHPDSPNFGAHWMKAPI
 SFSKVKLTNKLNGGGQIMLNSLHKYEPQVHIVRVGSAHRMVTNCSFPETQFIAVTAYQNEEITALKIKYN
 PFAKAFLDKERNHLRDVPEAISESQHVTYSHLGGWIFSNPDGVCTAGNSNYQYAAPLPLPAPHTHHGCE
 HYSGLRGHRQAPYPSAYMHRNHSPSVNLISSNNLQVFSGPDSWTSLSSTPHASILSVPHTNGPINPGP
 SPYPCLWTISNGAGGSPGPEVHASTPGAFLLGNPAVTSPPSVLSTQAPTSAGVEVLGEPSTLSIAVST
 WTAVASHPFAGWGGPGAGGHSPSSLDG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_005149

ORF Size: 1344 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_005149.3](#)

RefSeq Size: 2882 bp

RefSeq ORF: 1347 bp

Locus ID: 9095

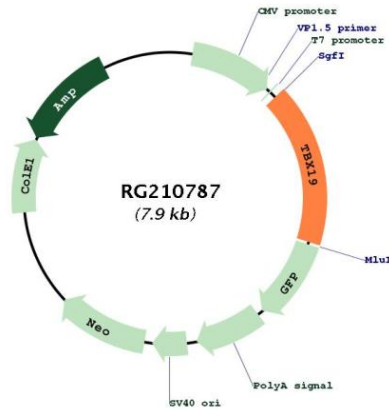
UniProt ID: [O60806](#)

Cytogenetics: 1q24.2

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. Mutations in this gene were found in patients with isolated deficiency of pituitary POMC-derived ACTH, suggesting an essential role for this gene in differentiation of the pituitary POMC lineage. ACTH deficiency is characterized by adrenal insufficiency symptoms such as weight loss, lack of appetite (anorexia), weakness, nausea, vomiting, and low blood pressure. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210787