

Product datasheet for **RG234463**

ThPok (ZBTB7B) (NM_001252406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ThPok (ZBTB7B) (NM_001252406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ThPok
Synonyms:	c-KROX; CKROX; hcKROX; THPOK; ZBTB15; ZFP-67; ZFP67; ZNF857B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234463 representing NM_001252406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTTACAGCCTGGTCTCATCCTCCCTCACCCCAAGCTGCTGCTCCTGGAGAAGCCTGGCCAGGCCCT
 CTCAGGCTCCCTGGCAGAGCCTAGAGGAGAAGATGGGGAGCCCCGAGGATGACCTGATTGGGATTCCATT
 CCCGGACCACAGCAGTGAGCTCCTGAGCTGCCTCAATGAGCAGCGCCAGCTGGGCCACCTATGTGACCTC
 ACCATCCGGACGACAGGGCCTTGAATACCGCACCCACAGGGCTGTGCTAGCTGCCTGTAGCCACTACTTCA
 AGAAGCTTTTCACTGAGGGCGGTGGCGGAGCTGTATGGGGGCCGGGGTAGCGGACGGCCACTGGGGG
 AGCAGGGGCCGTGTGTGTGAGCTGGACTTTGTAGGGCCAGAGGCACTAGGCGCCCTCCTGAATTTGCC
 TATACAGCCACTGACCACCAGCAGCGCCAACATGCCAGCTGTGCTCCAGGCTGCCCGCTGCTGGAGA
 TCCCGTGTGTATCGCTGCTTGCATGGAGATTCTGCAGGGCAGTGGGCTAGAAGCTCCACGCCCGGACGA
 GGATGACTGTGAGCGAGCCCGCCAGTATCTGGAGGCCTTGGCACAGCCACGGCCTCTGGAGTTCCCAAT
 GGTGAAGACAGTCTCCACAGGTGCCCTCCACACCTCCGCCACCGCCACCTCGGCCTGTTGCCCGCC
 GCAGCCGAAGCCCCGAAAGCTTTCCTGCAAACCAAGGGGGCCAGAGCAAACCACTAGTCCCTGAGGT
 GCCCACAGTGCCCGCCATCCCTTGACCTATGAGGAGGAGGAGGTGGCGGCAGAGTGGGCAGCAGTGGG
 GGCAGTGGGCCGGGGACAGCTACAGCCCTCCACAGGAAGTGCCTCCCTCCTGAGGTCCCCAGAGCT
 ACGAACCTATGAGGGTGAGGAAGAAGAAGAGGAGCTGGTATATCCCCAGCCTATGGGTGGCGCAGGG
 TGGCGGGCCCCGCTGTCCCCAGAGGAGCTGGGCTCAGATGAGGATGCCATCGATCCTGACCTGATGGCC
 TACCTAAGCTCCCTGCACAGGACAACCTGGCACAGGCCTGGACAGCCAAGACAAGCTGGTGCACAAAC
 GCCGCTCCAGATGCCTCAGGAGTGCCCTGTCTGCCACAAGATCATCCATGGGGCAGGCAAACTGCCTCG
 CCACATGAGGACCCACACAGGCGAGAAGCCCTTTCCTGCGAGGTCTGCGGTGTTTCGATTACACAGGAAC
 GACAAGCTGAAGATCCACATGCGGAAGCACACGGGAGAGCGCCCTACTCATGCCCGCACTGCCAGCCC
 GCTTCTGCACAGCTACGACCTCAAGAACCACATGCACCTGCACACAGGGGACCGGCCCTATGAGTGCCA
 CCTGTGCCACAAGGCTTTCGCCAAGGAGGACCCTGCAGCGCCACCTCAAAGGCCAGAAGTGCCTGGAG
 GTGCGCACCCGACGGCGCCGCAAGGACGATGCACACCCCACTACCCACCACCTCTACCGCTGCTGCAT
 CCCCCGCTGGCCTCGACCTCTCAATGGCCACCTGGACACCTCCGCCTCTCTAGCTCGATTCTGGGA
 GCAGTCAGCCCCCACTGGGCCCCCGTCTCTACCCAGGGCCCCCTGATGACGATGAGGAGGAAGGGGCA
 CCCACCACACCCAGGCTGAAGGTGCCATGGAGTCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234463 representing NM_001252406
 Red=Cloning site Green=Tags(s)

MLQPGPHPPSPQAAAPGEAWPGPSQAPWQSLSEKMGSPEDDLIGIPFPDHSSELLSCLNEQRQLGHLCDL
 TIRTQGLEYRTHRAVLAACSHYFKKLFTEGGGAVMGAGSGTATGGAGAGVCELDVFGPEALGALLEFA
 YTATLTSSANMPAVLQAARLLEIPCVIAACMEILQSGGLEAPSPDEDDCERARQYLEAFATATASGVPN
 GEDSPPQVPLPPPPPPPRPVARRSRKPRKAFLQTKGARANHLVPEVPTVPAHPLTYEEEVAGRVGSSG
 GSGPGDSYSPPTGTASPEGPQSYEPYEGEEEEELVYPPAYGLAQGGPPLSPEELGSDIDAIDPDLMA
 YLSSLHQDNLAAPGLDSQDKLVRKRRSQMPQECVPCHKIIHGAGKLPRHMRHTHTGEKPFACEVCGVRFTRN
 DKLKIHMRRKHTGERPYSCPHCPARFLHSYDLKNHMLHTGDRPYECHLCHKAFKEDHLQRHLKGQNCLE
 VRTRRRRKDDAPPHYPPPSTAAASPAGLDLSNGHLDTFRLSLARFWEQSAPTGPVSTPGPPDDDEEEGA
 PTPPQAEGAMESS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001252406

ORF Size: 1719 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_001252406.3](#)

RefSeq Size: 4030 bp

RefSeq ORF: 1722 bp

Locus ID: 51043

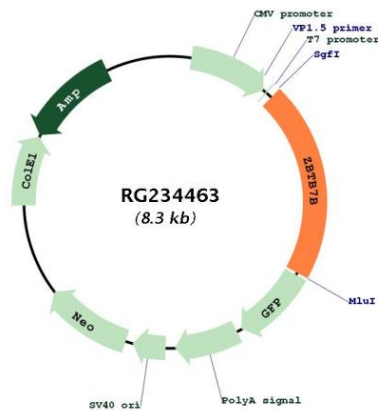
UniProt ID: [O15156](#)

Cytogenetics: 1q21.3

Protein Families: Transcription Factors

Gene Summary: This gene encodes a zinc finger-containing transcription factor that acts as a key regulator of lineage commitment of immature T-cell precursors. It is necessary and sufficient for commitment of CD4 lineage, while its absence causes CD8 commitment. It also functions as a transcriptional repressor of type I collagen genes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG234463