

Product datasheet for **RG237511**

PBK (NM_001278945) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PBK (NM_001278945) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PBK
Synonyms:	CT84; HEL164; Nori-3; SPK; TOPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237511 representing NM_001278945. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAAGGGATCAGTAATTTCAAGACCAAGCAAATTATCAGAAAAAAGAAATCTGTATTATGTTCA
ACTCCAATAAATATCCCGCCTCTCCGTTTATGCAGAAGCTTGGCTTGGTACTGGGTAAATGTG
TACCTAATGAAAAGATCTCCAAGAGTTTGTCTCATTCTCCTGGGCTGTAAAAAGATTAATCCTATA
TGTAATGATCATTATCGAAGTGTGTATCAAAGAGACTAATGGATGAAGCTAAGATTTTGAAAAGCCTT
CATCATCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGATGGCAGTCTGTGTCTTGCTATG
GAATATGGAGGTAAAAGTCTCTAAATGACTTAATAGAAGAACGATATAAAGCCAGCCAAGATCCTTTT
CCAGCAGCCATAATTTTAAAAGTTGCTTTGAATATGGCAAGAGGGTTAAAGTATCTGCACCAAGAAAAG
AAACTGCTTCATGGAGACATAAAGTCTTCAAATGTTGTAATTAAGGCGATTTTGAACAATTAATATC
TGTGATGTAGGAGTCTCTACCACTGGATGAAAATATGACTGCTCCTGCCTTCATAACCATCTTGCTT
GTTTCAGTGACTGACCCTGAGGCTTGTTACATTGGCACAGAGCCATGAAACCCAAAGAAGCTGTGGAG
GAGAAATGGTGTTACTGACAAGGCAGACATATTTGCCTTTGGCCTTACTTTGTGGGAAATGATGACT
TTATCGATTCCACACATTAATCTTTCAAATGATGATGATGATGAAGATAAACTTTTGATGAAAGTGAT
TTTGATGATGAAGCATACTATGCAGCGTTGGGAACTAGGCCACCTATTAATATGGAAGAACTGGATGAA
TCATACCAGAAAGTAATTGAACTCTTCTGTATGCACTAATGAAGACCCTAAAGATCGTCTTCTGTG
GCACACATTGTTGAAGCTCTGGAACAGATGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237511
 Blue=ORF Red=Cloning site Green=Tag(s)

MEGISNFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPRGLSHSPWAVKKINPI
 CNDHYRSVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGGKSLNDLIEERYKASQDPF
 PAAIILKVALNMARGLKYLHQEKLLHGDIKSSNVVIGKDFETIKICDVGVSPLDENMTAPAFITILL
 VSVTDPEACYIGTEPWPKPEAVEENGVI TDKADIFAFGLTLWEMMTLSIPHINLSNDDDDDEKTFDESD
 FDDEAYYAALGTRPPINMEELDESYQVIELFSVCTNEDPKDRPSAAHIVEALETDV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278945

ORF Size: 999 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).

RefSeq: [NM_001278945.2](#)

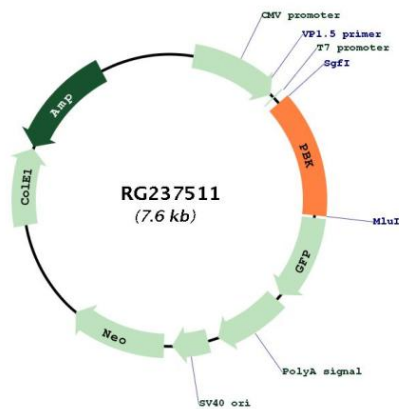
RefSeq Size: 2102 bp

RefSeq ORF: 1002 bp

Locus ID: 55872
UniProt ID: [Q96KB5](#)
Cytogenetics: 8p21.1
Protein Families: Druggable Genome, Protein Kinase
MW: 37.7 kDa

Gene Summary: This gene encodes a serine/threonine protein kinase related to the dual specific mitogen-activated protein kinase kinase (MAPKK) family. Evidence suggests that mitotic phosphorylation is required for its catalytic activity. The encoded protein may be involved in the activation of lymphoid cells and support testicular functions, with a suggested role in the process of spermatogenesis. Overexpression of this gene has been implicated in tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG237511