

Product datasheet for RC237511

PBK (NM_001278945) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: PBK (NM_001278945) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: PBK
 Synonyms: CT84; HEL164; Nori-3; SPK; TOPK
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC237511 representing NM_001278945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGGGATCAGTAATTTCAAGACACCAAGCAAATTATCAGAAAAAAGAAATCTGTATTATGTTCAA
 CTCCAATAAATATCCCGCCTCTCCGTTTATGCAGAAGCTTGGCTTTGGTACTGGGGTAAATGTGTA
 CCTAATGAAAAGATCTCCAAGAGTTTGTCTCATTCTCCTTGGGCTGAAAAAGATTAATCCTATATGT
 AATGATCATTATCGAAGTGTGTATCAAAAGAGACTAATGGATGAAGCTAAGATTTTGAAAAGCCTTCATC
 ATCCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGATGGCAGTCTGTGCTTGTCTATGGAATA
 TGGAGGTGAAAAGTCTCTAAATGACTTAATAGAAGAACGATATAAAGCCAGCCAAGATCCTTTCCAGCA
 GCCATAATTTTAAAAGTTGCTTTGAATATGGCAAGAGGGTTAAAGTATCTGCACCAAGAAAAAGAACTGC
 TTCATGGAGACATAAAGTCTTCAAATGTTGAATTAAGGCGATTTTGAAACAATAAAACTGTGATGT
 AGGAGTCTCTCTACCACTGGATGAAAATATGACTGCTCCTGCCTCATAACCATCTTGTGTTTCAGTG
 ACTGACCCTGAGGCTTGTACATTGGCACAGAGCCATGAAACCCAAAGAAGCTGTGGAGGAGAAATGGTG
 TTATTACTGACAAGGCAGACATATTTGCCTTTGGCCTTACTTTGTGGAAATGATGACTTTATCGATTCC
 ACACATTAATCTTTCAAATGATGATGATGATGAAGATAAACTTTTGATGAAAGTATTTGATGATGAA
 GCATACTATGCAGCGTTGGAACTAGGCCACCTATTAATATGGAAGAAGCTGGATGAATCATAACGAAAAG
 TAATTGAACTCTTCTGTATGCACTAATGAAGACCCTAAAGATCGTCCTTCTGTGTCACACATTGTTGA
 AGCTCTGGAAACAGATGTC

ACGGTACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237511 representing NM_001278945
Red=Cloning site Green=Tags(s)

MEGISNFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPRGLSHSPWAVKKNIPIC
 NDHYRSVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGGKSLNDLIEERYKASQDPFPA
 AIILKVALNMARGLKYLHQEKLLHGDIKSSNVVIKGFETIKICDVGVSPLDENMTAPAFITILLVSV
 TDPEACYIGTEPWKPKEAVEENGVITDKADIFAFGLTLWEMMTLSIPHINLSNDDDDDEKTFDESDFDDE
 AYYAALGTRPPINMEELDESYQKVIELFSVCTNEDPKDRPSAAHIVEALETDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

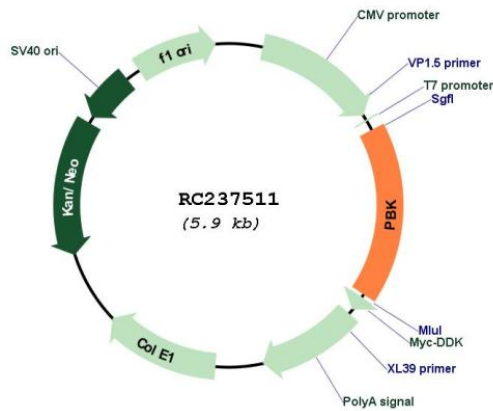
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]