

## Product datasheet for **SC335405**

### PBK (NM\_001278945) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PBK (NM_001278945) Human Untagged Clone
Tag:	Tag Free
Symbol:	PBK
Synonyms:	CT84; HEL164; Nori-3; SPK; TOPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335405 representing NM_001278945. Blue=Insert sequence Red=Cloning site Green=Tag(s)

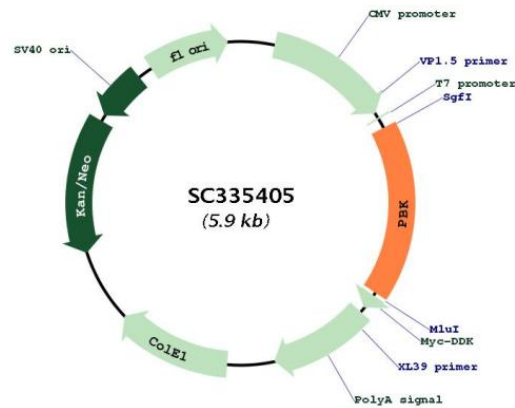
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAAGGGATCAGTAATTTCAAGACACCAAGCAAATTATCAGAAAAAAGAAATCTGTATTATGTTCA
ACTCCAATAAATATCCCGCCTCTCCGTTTATGCAGAAGCTTGGCTTTGGTACTGGGGTAAATGTG
TACCTAATGAAAAGATCTCCAAGAGTTTGTCTCATTCTCCTGGGCTGTAAAAAGATTAATCCTATA
TGTAATGATCATTATCGAAGTGTGTATCAAAGAGACTAATGGATGAAGCTAAGATTTTGAAAAGCCTT
CATCATCAAACATTGTTGGTTATCGTGCTTTTACTGAAGCCAATGATGGCAGTCTGTGTCTTGCTATG
GAATATGGAGGTAAAAGTCTCTAAATGACTTAATAGAAGAACGATATAAAGCCAGCCAAGATCCTTTT
CCAGCAGCCATAATTTTAAAAGTTGCTTTGAATATGGCAAGAGGGTTAAAGTATCTGCACCAAGAAAAG
AAACTGCTTCATGGAGACATAAAGTCTTCAAATGTTGTAATTAAGGCGATTTTGAAACAATTAATATC
TGTGATGTAGGAGTCTCTACCACTGGATGAAAATATGACTGCTCCTGCCTTCATAACCATCTTGCTT
GTTTCAGTGACTGACCCTGAGGCTTGTTACATTGGCACAGAGCCATGAAACCCAAAGAAGCTGTGGAG
GAGAATGGTGTTACTGACAAGGCAGACATATTTGCCTTTGGCCTTACTTTGTGGGAAATGATGACT
TTATCGATTCCACACATTAATCTTTCAAATGATGATGATGATGAAGATAAACTTTTGATGAAAGTGAT
TTTGATGATGAAGCATACTATGCAGCGTTGGGAACTAGGCCACCTATTAATATGGAAGAACTGGATGAA
TCATACCAGAAAGTAATTGAACCTTTCTGTATGCACTAATGAAGACCCTAAAGATCGTCTTCTGCT
GCACACATTGTTGAAGCTCTGGAACAGATGTC TAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001278945

Insert Size: 1002 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001278945.1](#)

RefSeq Size: 2102 bp

RefSeq ORF: 1002 bp

Locus ID: 55872

UniProt ID: [Q96KB5](#)

Cytogenetics: 8p21.1

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 37.2 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]

Transcript Variant: This variant (2) differs in the 5' UTR, and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is longer, compared to isoform 1.