

Product datasheet for **RC229215**

PNCK (NM_001039582) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNCK (NM_001039582) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNCK
Synonyms:	BSTK3; CaMK1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC229215 representing NM_001039582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCTGCTTTCGGCAAGTGGCCGGTCAAGCTGTCTCGGAGAGCGGTGAAGGCAGAGACTGGA
 AGGCAGAGAGCCTTGCCGACCTGTGGCCGAAGAGCTCTCCGGGAGACAGCCACCGGTGGTCAAAGGCC
 TGGGGCCGGCCAGCCGGCCGAGCTCCGGGAGCGGCCGAGCGAGCAGTGGGCTGGCGGTGGCGGC
 CGGCACCCGAGCCGATCCCGCGATTGCCTTACAAGACATGCTGCTGCTGAAGAAAACACCGGAGGACA
 TCAGCAGCGTCTACGAGATCCGCGAGAGGCTCGGCTCGGGTGCCTTCTCCGAGGTGGTGGCCAGGA
 GCGGGGCTCCGCACACCTCGTGGCCCTCAAGTGCATCCCCAAGAAGGCCCTCCGGGGCAAGGAGGCCCTG
 GTGGAGAACGAGATCGCAGTCTCGTAGGATCAGTACCCCAACATCGTCGCTCTGGAGGATGTCCACG
 AGAGCCCTTCCCACCTCTACCTGGCCATGGAAGTGGTACGGGTGGCGAGCTGTTTGACCGCATCATGGA
 GCGCGGCTCTACACAGAGAAGGATGCCAGCCATCTGGTGGTCAAGTCCCTTGGCGCCGCTCTCTACCTG
 CACAGCCTGGGGATCGTGACCCGGACCTCAAGCCGAAAACCTCCTGTATGCCACGCCCTTTGAGGACT
 CGAAGATCATGGTCTCTGACTTTGGACTCTCAAATCCAGGCTGGGAACATGCTAGGCACCGCCTGTGG
 GACCCCTGGATATGTGGCCCGAGAGCTCTTGGAGCAGAAACCCTACGGGAAGGCCGTAGATGTGTGGCC
 CTGGGCGTCATCTCTACATCTGCTGTGTGGTACCCCCCTTCTACGACGAGAGCGACCTGAGCTCT
 TCAGCCAGATCCTGAGGGCCAGCTATGAGTTTACTCTCCTTTCTGGGATGACATCTCAGAATCAGCCAA
 AGACTTATCCGGCACCTTCTGGAGCGAGACCCCAAGAAGAGTTACCTGCCAACAGGCCTTGGCGCAC
 CTTTGGATCTCTGGGGACACAGCCTTTCGACAGGGACATCTTAGGCTCTGTCAAGTACAGATCCGGAAGA
 ACTTTGCTCGGACACACTGGAAGCGAGCCTTCAATGCCACCTCGTTCCTGCGCCACATCCGGAAGCTGGG
 GCAGATCCAGAGGGCGAGGGGGCTCTGAGCAGGGCATGGCCCCCACAGCCACTCAGGCTCCGTGCT
 GGCCAGCCCCCAAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229215 representing NM_001039582
 Red=Cloning site Green=Tags(s)

MEAAFQVAGSACPRRGEGRDWKAESLADLWPKSSPGDSHRWCKGPGAGPAGPQLREARASSGLGGGG
 RHPSRIPAIALQDMLLLKKHTEDISSVYEIRERLGGAFSEVVLAQERGAHLVALKCIKKALRGKEAL
 VENEIAVLRRIHPNIVALEDVHESPSHLYLAMELVGGELFDRIMERGSYTEKDASHLVGQVLGAVSYL
 HSLGIVHRDLKPENLLYATPFEDSKIMVSDFLSKIQAGNMLGTACGTPGYVAPELLEQKPYGKAVDVWA
 LGVISYILLCGYPPFYDESDPELFSQILRASIEFDSPFWDDISESAKDFIRHLLERDPQKRFTCQQALRH
 LWISGDTAFDRDILGSVSEQIRKNFARTHWKRAFNFATSLRHIRKLGQIPEGEGASEQGMARHSHSGLRA
 GQPPKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8005_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001039582

ORF Size: 1278 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001039582.3](#), [NP_001034671.3](#)

RefSeq ORF: 1281 bp

Locus ID: 139728

UniProt ID: [Q6P2M8](#)

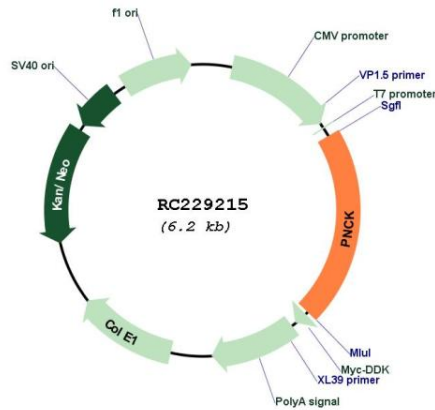
Cytogenetics: Xq28

Protein Families: Druggable Genome, Protein Kinase

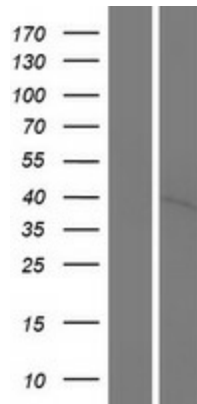
MW: 46.8 kDa

Gene Summary: PNCK is a member of the calcium/calmodulin-dependent protein kinase family of protein serine/threonine kinases (see CAMK1; MIM 604998) (Gardner et al., 2000 [PubMed 10673339]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC229215



Western blot validation of overexpression lysate (Cat# [LY432237]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).