

Product datasheet for RC227807

PNCK (NM_001135740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNCK (NM_001135740) 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)
ORF Nucleotide Sequence:	>RC227807 representing NM_001135740 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAGGCGTGTATGCGGTGGCCTCGCTGGGAGGCGTCCGTCTGGGGACATGCTGCTGCTGAAGAAAC
ACACGGAGGACATCAGCAGCGTCTACGAGATCCGCGAGAGGCTCGGCTCGGGTGCCTTCTCCGAGGTGGT
GCTGGCCAGGAGCGGGGCTCCGCACACCTCGTGGCCCTCAAGTGCATCCCAAGAAGGCCCTCCGGGGC
AAGGAGGCCCTGGTGGAGAACGAGATCGCAGTGTCCGTAGGATCAGTCACCCCAACATCGTCGCTCTGG
AGGATGTCCACGAGAGCCCTTCCACCTCTACCTGGCCATGGAAGTGGTACGGGTGGCGAGCTGTTTGA
CCGCATCATGGAGCGCGGCTCTACACAGAGAAGGATGCCAGCCATCTGGTGGGTACGGTCTTGGCGCC
GTCTCCTACCTGCACAGCCTGGGGATCGTGCACCGGGACCTCAAGCCGAAAACCTCCTGTATGCCACGC
CCTTTGAGGACTCGAAGATCATGGTCTCTGACTTTGGACTCTCCAAAATCCAGGCTGGGAACATGCTAGG
CACCGCTGTGGGACCCCTGGATATGTGGCCCCAGAGCTTTGGAGCAGAAACCTACGGGAAGGCCGTA
GATGTGTGGGCCCTGGGCGTATCTCCTACATCCTGCTGTGTGGGTACCCCCCTTACGACGAGAGCG
ACCCTGAGCTCTCAGCCAGATCCTGAGGGCCAGCTATGAGTTTACTCTCCTTTCTGGGATGACATCTC
AGAATCAGCCAAAGACTTCATCCGGCACCTTCTGGAGCGAGACCCCAAGAAGAGGTTACCTGCCAACAG
GCCTTGGCGCACCTTTGGATCTCTGGGGACACAGCCTTCGACAGGGACATCTTAGGCTGTGCAGTGAGC
AGATCCGGAAGAAGTCTTGGTCTGGACACACTGGAAGCGAGCCTTCAATGCCACCTCGTTCCTGCGCCACAT
CCGGAAGCTGGGCGAGATCCCAGAGGGCGAGGGGGCTCTGAGCAGGGCATGGCCCGCCACAGCCACTCA
GGCTCCGTGCTGGCCAGCCCCCAAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227807 representing NM_001135740
Red=Cloning site Green=Tags(s)

MWRRVCGGLAGRRPSGDMLLKKHTEDISSVYEIRERLGSQAFSEVVLAQERGSAHLVALKCIKKALRG
 KEALVENEIAVLRRIHPNIVALEDVHESPSHLYLAMELVGTGELFDRIMERGSYTEKDASHLVGQVLGA
 VSYLHSLGIVHRDLKPENLLYATPFEDSKIMVSDFGLSKIQAGNMLGTACGTPGYVAPELLEQKPYGKAV
 DVWALGVISYILLCGYPFFYDESDPELFSQILRASRYEFDSPFWDIDISESAKDFIRHLLERDPQKRFTCQQ
 ALRHLWISGDTAFDRDILGSVSEQIRKNFARTHVKRAFNFATSLRHIRKLGQIPEGEGASEQGMARSHS
 GLRAGQPPKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4139_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135740

ORF Size: 1080 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_001135740.1](#), [NP_001129212.1](#)

RefSeq ORF: 1083 bp

Locus ID: 139728

UniProt ID: [Q6P2M8](#)

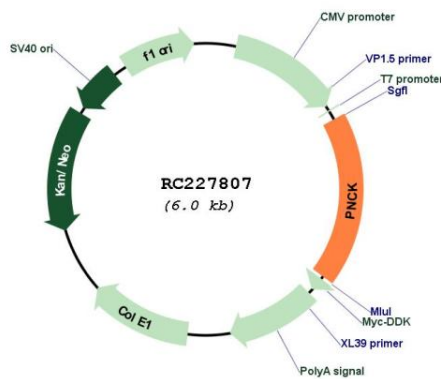
Cytogenetics: Xq28

Protein Families: Druggable Genome, Protein Kinase

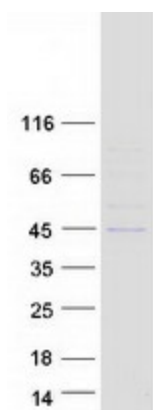
MW: 40.2 kDa

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 RC227807



Coomassie blue staining of purified PNCK protein (Cat# [TP327807]). The protein was produced from HEK293T cells transfected with PNCK cDNA clone (Cat# RC227807) using MegaTran 2.0 (Cat# [TT210002]).