

## Product datasheet for MR229367

### Pnck (NM\_001199351) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pnck (NM_001199351) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnck
Synonyms:	Bstk3; Camk1b; CaMKIb2; caMKIb1; CaMKIb2; Punc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229367 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTGCTCAAGAAACAGACGGAGGACATCAGCAGTGTCTATGAGATCCGGGAGAAGCTGGGCTCGG  
GTGCCCTTCTGAGGTGATGCTGGCCAGGAAAGGGCTCTGCTCATCTTGTTGCCCTCAAGTGCATTCC  
CAAGAAAGCACTTCGGGGCAAGGAGGCCCTGGTGGAGAATGAGATCGCGTACTTCGCAGAATCAGCCAT  
CCCAACATTGTGGCTCTGGAGGACGTCCATGAGAGTCTTCTCATCTCTACTTGGCCATGGAGCTGGTAA  
CAGGTGGTGAAGTGGTGGACCGCATCATGGAGCGGGCTCTACACAGAGAAGGACGCCAGCCACCTTGT  
AGGGCAGGTCTTGGCGCTGTCTCTACCTTCATAGCCTGGGCATCGTGCACCGGACCTCAAGCCTGAA  
AACCTCCTCTATGCCACACCTTTGAGGACTCCAAGATCATGGTCTCTGACTTTGGCCTGTCCAAAATAC  
AAGCTGGCAACATGCTAGGCACAGCCTGTGGGACCCAGGATATGTGGCCCAAGACTCCTGGAGCAGAA  
ACCCTACGGGAAGGCCGTAGATGTGTGGCCCTGGGTGTCATCTCCTACATCCTGCTGTGTGGGTACCC  
CCCTTCTATGATGAGAGCGATCCTGAATCTTCAGCCAGATTCTGAGGGCCAGCTATGAGTTTGACTCCC  
CCTTTTGGGATGACATCTCAGAATCAGCCAAAGACTTCATTCCGCCACCTTCTGGAACGTGATCCCCAGAA  
GAGGTTACCTGCCAGCAGGCCCTACAGCATCTTTGGATCTCTGGGGATGCAGCCTTCGATAGGGACATC  
CTGGGTTCTGTCAGTGAGCAGATCCAGAAGAATTTGCCAGGACCACTGGAACCGTGCATTCATGCCA  
CATCATTCTACGTCACATCCGTAAGCTGGGACAAAGCCAGAGGGTGGAGGCCCTCCAGGCAGTGTAT  
GACCCGTCATAGCCACCCAGGCCTTGGGACTAGCCAGTCCCCAAGTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229367 protein sequence  
Red=Cloning site Green=Tags(s)

MLLLKKQTEDISSVYEIREKLGSGAFSEVMLAQERGAHLVALKCIKKALRGKEALVENEIAVLRRIISH  
 PNIVALEDVHESPSHLYLAMELVGGELFDRIMERGSYTEKDASHLVGQVLGAVSYLHSLGIVHRDLKPE  
 NLLYATPFEDSKIMVSDFLSKIQAQNLGTACGTPGYVAPELLEQKPYGKAVDVWALGVI SYILLCGYP  
 PFYDESDPELFSQILRASYEFDSPFWDDISESAKDFIRHLLERDPQKRF TCQQALQHLWISGDAAFDRDI  
 LGSVSEQIQKNFARTHWKRAFNA TSFLRHIRKLGQSPGEEASRQCMTRHSHPLGT SQSPKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001199351

**ORF Size:** 1032 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\\_001199351.1](#), [NP\\_001186280.1](#)

**RefSeq Size:** 1642 bp

**RefSeq ORF:** 1032 bp

**Locus ID:** 93843

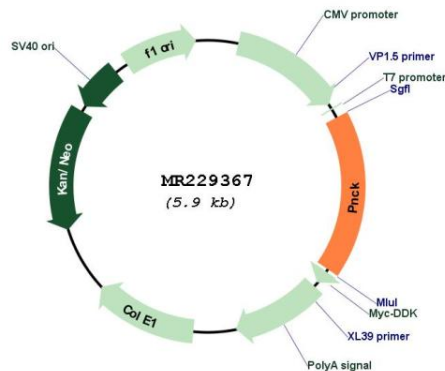
**UniProt ID:** [Q9QYK9](#)

**Cytogenetics:** X 37.38 cM

**MW:** 38.5 kDa

**Gene Summary:** Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates CREB1 and SYN1/synapsin I. Phosphorylates and activates CAMK1 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR229367