

Product datasheet for MR205152

Pnck (NM_012040) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnck (NM_012040) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnck
Synonyms:	Bstk3; Camk1b; CaMKIbeta2; caMKIb1; CaMKIb2; Punc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205152 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGCTCAAGAAACAGACGGAGGACATCAGCAGTGTCTATGAGATCCGGGAGAAGCTGGGCTCGG
GTGCCCTCTGAGGTGATGCTGGCCAGGAAAGGGCTCTGCTCATCTTGTCGCCCTCAAGTGCATTCC
CAAGAAAGCACTTCGGGGCAAGGAGGCCCTGGTGGAGAATGAGATCGCGTACTTCGCAGAATCAGCCAT
CCCAACATTGTGGCTCTGGAGGACGTCCATGAGAGTCTTCTCATCTCTACTTGGCCATGGAGCTGGTAA
CAGGTGGTGAAGTGTGGACCGCATCATGGAGCGGGCTCTACACAGAGAAGGACGCCAGCCACCTTGT
AGGGCAGGTCTTGCGCTGTCTCTACCTTCATAGCCTGGGCATCGTGCACCGGACCTCAAGCCTGAA
AACCTCCTCTATGCCACACCTTTGAGGACTCCAAGATCATGGTCTCTGACTTTGGCCTGTCCAAAATAC
AAGCTGGCAACATGCTAGGCACAGCCTGTGGGACCCAGGATATGTGGCCCAAGCTCCTGGAGCAGAA
ACCCTACGGGAAGGCCGTAGATGTGTGGCCCTGGGTGTCATCTCCTACATCCTGCTGTGTGGGTACCC
CCCTTCTATGATGAGAGCGATCCTGAATCTTCAGCCAGATTCTGAGGGCCAGCTATGAGTTTGACTCCC
CCTTTTGGGATGACATCTCAGAATCAGCCAAAGACTTCATTCCGCCACCTTCTGGAACGTGATCCCCAGAA
GAGGTTACCTGCCAGCAGGCCCTACAGCATCTTTGGATCTCTGGGATGCAGCCTTCGATAGGGACATC
CTGGGTTCTGTCAGTGAGCAGATCCAGAAGAATTTGCCAGGACCACTGGAAGCGTGCATTCAATGCCA
CATCATTCTACGTCACATCCGTAAGCTGGGACAAAGCCAGAGGGTGGAGGCCCTCCAGGCAGTGTAT
GACCCGTCATAGCCACCCAGGCCTTGGGACTAGCCAGTCCCCAAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205152 protein sequence
Red=Cloning site Green=Tags(s)

MLLLKKQTEDISSVYEIREKLGSGAFSEVMLAQERGAHLVALKCIKKALRGKEALVENEIAVLRRIISH
 PNIVALEDVHESPSHLYLAMELVGGELFDRIMERGSYTEKDASHLVGQVLGAVSYLHSLGIVHRDLKPE
 NLLYATPFEDSKIMVSDFLSKIQAGNMLGTACGTPGYVAPELLEQKPYGKAVDVWALGVI SYILLCGYP
 PFYDESDPELFSQILRASYEFDSPFWDDISESAKDFIRHLLERDPQKRF TCQQALQHLWISGDAAFDRDI
 LGSVSEQIQKNFARTHWKRAFNATSFLRHIRKLGQSPGEEASRQCMTRHSHPLGLT 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_012040

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_012040.3](#)

RefSeq Size: 1582 bp

RefSeq ORF: 1032 bp

Locus ID: 93843

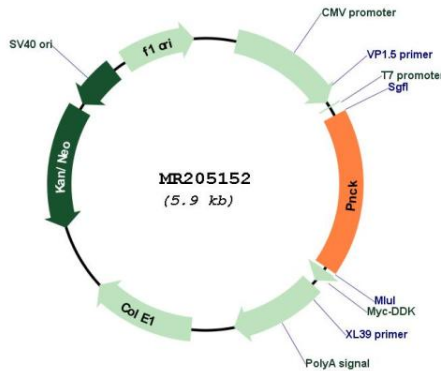
UniProt ID: [Q9QYK9](#)

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 MR205152