

Product datasheet for **MG205152**

Pnck (NM_012040) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnck (NM_012040) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pnck
Synonyms:	Bstk3; Camk1b; CaMKIbeta2; caMKIb1; CaMKIb2; Punc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205152 representing NM_012040 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGCTCAAGAAACAGACGGAGGACATCAGCAGTGTCTATGAGATCCGGGAGAAGCTGGGCTCGG
GTGCCTTCTCTGAGGTGATGCTGGCCCAGGAAAGGGGCTCTGCTCATCTTGTGGCCCTCAAGTGCATTCC
CAAGAAAGCACTTCGGGGCAAGGAGGCCCTGGTGGAGAATGAGATCGCGTACTTCGCAGAATCAGCCAT
CCCAACATTGTGGCTCTGGAGGACGTCCATGAGAGTCTTCTCATCTCTACTTGGCCATGGAGCTGGTAA
CAGGTGGTGAAGTGTGGACCGCATCATGGAGCGGGCTCTACACAGAGAAGGACGCCAGCCACCTTGT
AGGGCAGGTCTTGGCGCTGTCTCTACCTTCATAGCCTGGGCATCGTGCACCGGACCTCAAGCCTGAA
AACCTCCTCTATGCCACACCTTTTGGAGACTCCAAGATCATGGTCTCTGACTTTGGCCTGTCCAAAATAC
AAGCTGGCAACATGCTAGGCACAGCCTGTGGGACCCAGGATATGTGGCCCCAGAGCTCCTGGAGCAGAA
ACCCTACGGGAAGGCCGTAGATGTGTGGGCCCTGGGTGTCATCTCCTACATCCTGCTGTGTGGGTACCCC
CCCTTCTATGATGAGAGCGATCCTGAACTTTCAGCCAGATTCTGAGGGCCAGCTATGAGTTTGACTCCC
CCTTTTGGGATGACATCTCAGAATCAGCCAAAGACTTCATTCCGCCACCTTCTGGAACGTGATCCCCAGAA
GAGGTTACCTGCCAGCAGGCCCTACAGCATCTTTGGATCTCTGGGGATGCAGCCTTCGATAGGGACATC
CTGGGTTCTGTCAGTGAGCAGATCCAGAAGAATTTTGGCAGGACCCACTGGAAGCGTGCATTCAATGCCA
CATCATTCTACGTCACATCCGTAAGCTGGGACAAAGCCAGAGGGTGGAGGCCCTCCAGGCAGTGTAT
GACCCGTCATAGCCACCCAGGCCTTGGGACTAGCCAGTCCCCAAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205152 representing NM_012040
Red=Cloning site Green=Tags(s)

MLLLKKQTEDISSVYEIREKLGSGAFSEVMLAQERGAHLVALKICPKKALRGKEALVENEIAVLRRIISH
 PNIVALEDVHESPSHLYLAMELVGGELFDRIMERGSYTEKDASHLVGQVLGAVSYLHSLGIVHRDLKPE
 NLLYATPFEDSKIMVSDFLSKIQAQNLGTACGTPGYVAPELLEQKPYGKAVDVWALGVI SYILLCGYP
 PFYDESDPELFSQILRASIEFDSPFWDIDISESAKDFIRHLLERDPQKRFTCQQALQHLWISGDAAFDRDI
 LGSVSEIQKNFARTHWKRAFNFATSFRLRHIRKLGQSPGEEASRQCMTRHSHPLGLTQSQPKW

TRTRPLE - GFP Tag - V

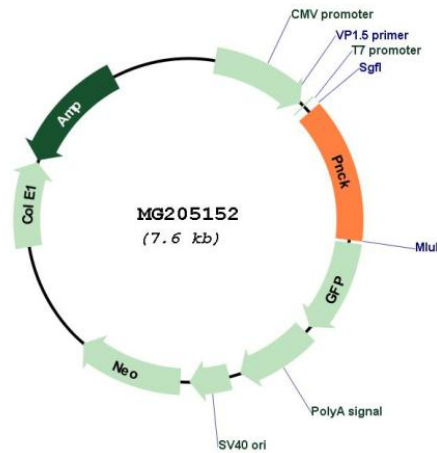
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_012040

ORF Size: 1029 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:	<ol style="list-style-type: none">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:	1554 bp
RefSeq ORF:	1032 bp
Locus ID:	93843
UniProt ID:	Q9QYK9
Cytogenetics:	X 37.38 cM
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]