

## Product datasheet for **RG229215**

### PNCK (NM\_001039582) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PNCK (NM_001039582) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNCK
Synonyms:	BSTK3; CaMK1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229215 representing NM_001039582 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCTGCTTTGGGCAAGTGGCCGGGTGAGCCTGTCCTCGGAGAGGCGGTGAAGGCAGAGACTGGA  
AGGCAGAGAGCCTTGCCGACCTGTGGCCGAAGAGCTCTCCGGGAGACAGCCACCGGTGGTCAAAGGCC  
TGGGGCCGGCCAGCCGGGCCGAGCTCCGGGAGGCGGCGAGCAGTGGGCTGGGCGGTGGCGGC  
CGGCACCCGAGCCGGATCCGGCGATTGCCTTACAAGACATGCTGCTGCTGAAGAAACACACGGAGGACA  
TCAGCAGCGTCTACGAGATCCGCGAGAGGCTCGGCTCGGGTGCCTTCTCCGAGGTGGTGTGGCCAGGA  
GCGGGGCTCCGCACACCTCGTGGCCCTCAAGTGCATCCCCAAGAAGGCCCTCCGGGGCAAGGAGGCCCTG  
GTGGAGAACGAGATCGCAGTGTCCGTAGGATCAGTCACCCCAACATCGTCGCTCTGGAGGATGTCCACG  
AGAGCCCTTCCCACCTCTACCTGGCCATGGAAGTGGTGACGGGTGGCGAGCTGTTTGACCGCATCATGGA  
GCGCGGCTCCTACACAGAGAAGGATGCCAGCCATCTGGTGGGTGAGGTCCTTGGCGCCGTCTCTACCTG  
CACAGCTGGGGATCGTGACCCGGACCTCAAGCCGAAAACCTCCTGTATGCCACGCCCTTTGAGGACT  
CGAAGATCATGGTCTCTGACTTTGGACTCTCCAAAATCCAGGCTGGGAACATGCTAGGCACCGCCTGTGG  
GACCCCTGGATATGTGGCCCCAGAGCTCTTGGAGCAGAAACCTACGGGAAGGCCGTAGATGTGTGGGCC  
CTGGGCGTCATCTCCTACATCCTGTGTGGGTACCCCCCTTCTACGACGAGAGCGACCCTGAGCTCT  
TCAGCCAGATCCTGAGGGCCAGCTATGAGTTTACTCTCCTTTCTGGGATGACATCTCAGAATCAGCCAA  
AGACTTCAATCCGGCACCTTCTGGAGCGAGACCCCAAGAGGTTACCTGCCAACAGGCCCTTGGCGCAC  
CTTTGGATCTCTGGGACACAGCCTTCGACAGGGACATCTTAGGCTCTGTGAGTGGAGATCCGGAAGA  
ACTTTGCTCGGACACACTGGAAGCGAGCCTTCAATGCCACCTCGTTCTGCGCCACATCCGGAAGCTGGG  
GCAGATCCAGAGGGCGAGGGGGCTCTGAGCAGGGCATGGCCCGCCACAGCCACTCAGGCTCCGTGCT  
GGCCAGCCCCCAAGTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229215 representing NM\_001039582  
 Red=Cloning site Green=Tags(s)

MEAAFQVAGSACPRRGEGRDWKAESLADLWPKSSPGDSHRWCKGPGAGPAGPQLREAAARASSGLGGG  
 RHPSRIPAIALQDMLLLKKHTEDISSVYEIRERLGGSAFSEVFLAQERGAHLVALKCIPKKALRGKEAL  
 VENEIAVLRRIHPNIVALEDVHESPSHLYLAMELVGTGGELFDRIMERGSYTEKDASHLVGQVLGAVSYL  
 HSLGIVHRDLKPENLLYATPFEDSKIMVSDFLSKIQAGNMLGTACGTPGYVAPELLEQKPYGKAVDVWA  
 LGVISYILLCGYPPFYDESDPELFSQILRASIEFDSPFWDDISESAKDFIRHLLERDPQKRFTCCQALRH  
 LWISGDTAFDRDILGSVSEQIRKNFARTHWKRAFNAFLRHIRKLGQIPEGEGASEQGMARHSHSGLRA  
 GQPPKW

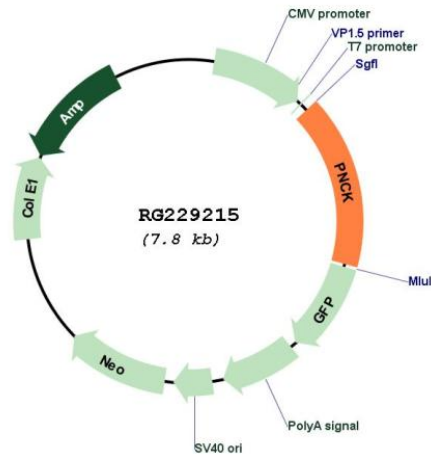
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001039582

<b>ORF Size:</b>	1278 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001039582.3</a> , <a href="#">NP_001034671.3</a>
<b>RefSeq Size:</b>	1888 bp
<b>RefSeq ORF:</b>	1281 bp
<b>Locus ID:</b>	139728
<b>UniProt ID:</b>	<a href="#">Q6P2M8</a>
<b>Cytogenetics:</b>	Xq28
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	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]