

## Product datasheet for **MG224993**

### **Pnkd (NM\_001039509) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pnkd (NM_001039509) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pnkd
Synonyms:	2210013N15Rik; 2810403H05Rik; AI854243; Brp17; MNCb-5687; MR-1; Tahccp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224993 representing NM_001039509 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGGTGGTAGCTGCTACGGCGCTGAAGGGCCGGGGGCGAGAAATGCCCGCTCCTCCGGGGGA  
TCCTCTCTGGAGCCACAGCTAACAAAGGCTTCCCAGAACAGGACCAGAGCACTGCAGAGCCACAGCTCACC  
AGAATGCAAGGAGGAGCCCGAGCCCTCTCCCCTGAGCTAGAATACATCCAGAAAGAGGGCAAGAAC  
CCCATGAAAGCCGTGGGCTAGCCTGGTATAGCCTGTACACCCGAACCTGGCTTGGGTACCTCTTCTACC  
GACAGCAGCTTCGGAGGGCTCGGAATCGCTATCCCAAAGGCCACTCCAAAACCTCAGCCCCGCTCTCAA  
TGGAGTGAAGGTGCTTCCATCCCTGTCCTCTCGGACAACCTACAGCTACCTCATCATCGACACCCAGGCT  
GGGCTGGCAGTGGCTGTGGACCCCTCAGACCCGAGGGCTGTGCAGGCTTCCATTGAAAAGGAAAGAGTTA  
ACTTGGTTGCCATTCTCTGCACCCACAAGCACTGGGACCACAGTGGAGGGAAACCGTGACCTCAGCCGGCG  
GCACAGGGACTGTCGAGTGTATGGGAGCCCTCAGGATGGTATCCCTACCTCACCACCCCTGTGTGAT  
CAAGATGTGGTCAGCGTGGGACGACTTCAGATTCGAGCCCTAGCCACCCCTGGCCACACTCAAGGCCATC  
TGGTCTACCTGCTGGATGGGAGCCCTACAAAGTCTTCTGCTCTTCTCAGGGGACCTGCTCTTCT  
CTCTGGCTGTGGACGGACCTTCGAAGGCACAGCGGAGACCATGCTGAGCTCACTGGACACTGTGTTAGAC  
CTGGGGATGACACCCCTGCTGTGGCCTGGGCATGAATACGAGAAGAGAACCTGGGCTTTCAGGGCTGG  
TGGAGCCCGAGAACTTGGCTCGTGAGAGGAAGATGCAGTGGGTACAGAGGCAACGGATGGAACGCAAGAG  
CACATGCCATCCACCCTGGGAGAGGAACGCGCCTACAACCCATTCTGAGAACCATTGCTGGAACCTA  
CAGGAGGCTCTGGGGCCAGGGCCAGGCCACCAGTGATGACGGCTGCTCCCGGGCCAGCTCCTGGAGG  
AGCTGCGCCGCTGAAGGACATGCATAAAAGCAAG

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224993 representing NM\_001039509  
Red=Cloning site Green=Tags(s)

MAAVVAATALKGRGARNARVLRGILSGATANKASQNRTRALQSHSSPECKEEPEPLSPELEYIPRKRGN  
 PMKAVGLAWYSLYTRTWLGYLFYRQQLRRARNRYPKGHSKTQPRLFNGVKVLPPIVLSDNYSYLIIDTQA  
 GLAVAVDPSDPRAVQASIEKERVNLVAIILCTHKHWDHSGGNRDLRRHRDCRVYQSPQDGIPLYLTHPLCH  
 QDVVSVGRLQIRALATPGHTQGHLYLLDGEPIYKGPSCFLSGDLLFLSGCGRTFEGTAETMLSSLDTVLD  
 LGDDTLLWPGHEYAEENLGFAGVVEPENLARERKMQWVQRQRMERKSTCPSTLGEERAYNPFLRTHCLEL  
 QEALGPGPGPTSDDGCSRAQLLEELRRLKDMHKS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039509

**ORF Size:** 1155 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\\_001039509.1](#), [NP\\_001034598.1](#)

**RefSeq Size:** 2956 bp

**RefSeq ORF:** 1158 bp

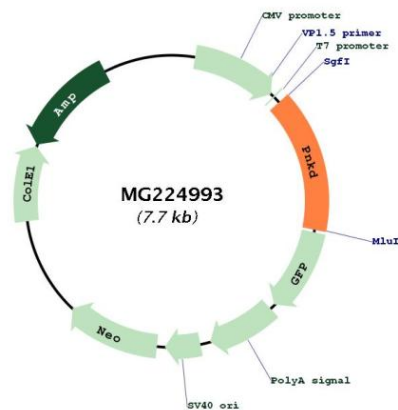
**Locus ID:** 56695

**UniProt ID:** [Q69ZP3](#)

**Cytogenetics:** 1 C3

**Gene Summary:** Probable hydrolase that plays an aggravative role in the development of cardiac hypertrophy via activation of the NF-kappa-B signaling pathway.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG224993