

## Product datasheet for **MR206764**

### **Pnkd (BC058945) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Pnkd (BC058945) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                |
| Symbol:                   | Pnkd                                   |
| Synonyms:                 | Tahccp2, MR-1, MNCb-5687               |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-Entry (PS100001)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>MR206764 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGGTGGTAGCTGCTACGGCGCTGAAGGGCCGGGGGCGAGAAATGCCCGCTCTCCGGGGA  
 TCCTCTCTGGAGCCACAGCTAACAAAGGCTTCCCAGAACAGGACCAGAGCACTGCAGAGCCACAGCTCACC  
 AGAATGCAAGGAGGAGCCCGAGCCCTCTCCCCTGAGCTAGAATACATCCAGAAAGAGGGCAAGAAC  
 CCCATGAAAGCCGTGGGCTAGCCTGGGCCATCGGCTTCCCCTGTGGTATCCTCTTCTCGCTCTCACCA  
 AGCAGGAAGTGGACAAGGACCGATTGAAGCAGATGAAAGCTCGTCAGAACATGCGGGTGTCCAACACGGG  
 CGAGTATAGCCTGTACCCCGAACCTGGCTTGGGTACCTTCTACCGACAGCAGCTTCGGAGGGCTCGG  
 AATCGCTATCCAAAGGCCACTCCAAAACCTCAGCCCCGCCTTCAATGGAGTGAAGGTGCTTCCCATCC  
 CTGTCTCTCGGACAACACAGCTACCTCATCATCGACACCCAGGCTGGGCTGGCAGTGGCTGTGGACCC  
 CTCAGACCCGAGGCTGTGCAGGCTTCCATTGAAAAGGAAAGAGTTAACTTGGTTGCCATTCTCTGCACC  
 CACAAGCACTGGGACCACAGTGGAGGGAACCGTGACCTCAGCCGGCGGCACAGGGACTGTGAGTGTATG  
 GGAGCCCTCAGGATGGTATCCCCTACCTCACCCACCCCTGTGTATCAAGATGTGGTACAGCTGGGACG  
 ACTTCAGATTCGAGCCCTAGCCACCCCTGGCCACACTCAAGGCCATCTGGTCTACCTGCTGGATGGGGAG  
 CCCTACAAAGGTCCTTCTGCCTTCTCAGGGGACCTGCTTCTCTCTGCTGTGGCAGGACCTTCG  
 AAGGCACAGCGGAGACCATGCTGAGTCACTGGACACTGTGTTAGACCTGGGGATGACACCCTGCTGTG  
 GCCTGGGCATGAATACGCAGAAGAGAACCTGGGCTTGCAGGCGTGGTGGAGCCCGAGAAGTGGCTCGT  
 GAGAGGAAGATGCAGTGGGTACAGAGGCAACGGATGGAACGCAAGAGCACATGCCATCCACCCTGGGAG  
 AGGAACGCGCCTACAACCCATTCTGAGAACCCATTGCCTGGAACACAGGAGGCTCTGGGGCCAGGGCC  
 AGGCCCCACAGTGTACGGCTGCTCCCGGCCAGCTCCTGGAGGAGCTGCGCCGCTGAAGGACATG  
 CATAAAAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206764 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAVVAATALKGRGARNARVLRGILSGATANKASQNRTRALQSHSSPECKEEPEPLSPELEYIPRKRGN  
 PMKAVGLAWAIGFPCGILFFVLTKQEVKDRKQMKARQNMVSNTEYSLYTRTWLGYLFYRQQLRRAR  
 NRYPKGHSKTQPRLFNGVKVLPVPLSDNYSYLIIDTQAGLAVAVDPSDPRVQASIEKERVNLVAILCT  
 HKHWDHSGGNRDLRRHRDCRVYGSPOQDIPYLTHPLCHQDVVSVGRLQIRALATPGHTQGHLYLLDGE  
 PYKGPSCLFSGDLLFLSGCGRTFEGTAETMLSSLDTVLDDLDDTLLWPGHEYAEENLGFAGVVEPENLAR  
 ERKMQWVQRMRKSTCPSTLGEERAYNPFRLRTHCLELQEALGPGPGPTSDDGCSRAQLLEELRRLKDM  
 HKSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** BC058945

**ORF Size:** 1272 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:** [BC058945](#), [AAH58945](#)

**RefSeq Size:** 3199 bp

**RefSeq ORF:** 1274 bp

**Locus ID:** 56695

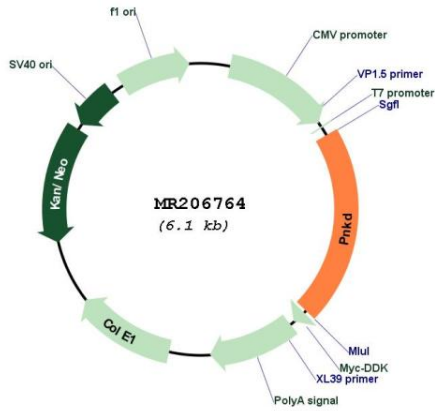
**Cytogenetics:** 1 C3

**MW:** 47.5 kDa

**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 MR206764