

## Product datasheet for RC202515

### Probable hydrolase PNKD (PNKD) (NM\_022572) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Probable hydrolase PNKD (PNKD) (NM_022572) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Probable hydrolase PNKD
Synonyms:	BRP17; DYT8; FKSG19; FPD1; KIPP1184; MR-1; MR-1S; MR1; PDC; PKND1; PNKD1; R1; TAHCCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202515 representing NM_022572 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGGCAGGGCTGGCCCGGGCTGGCAGTGGGTCGCCGGCTGCTGGCTCCTCCTCGTCTTGTC  
TCGTCCTACTTGTGAGCCCCGGCTGCCGAGCGGGGGCCCTCCGCGTCTGCTCATGGCGCACAG  
CCAGCGGTGCTCTTCCGAATCGGGTACAGCCTGTACCCCGCACCTGGCTCGGGTACCTCTTACCGA  
CAGCAGCTGCCAGGGCTCGGAATCGCTACCCTAAAGGCCACTCGAAAACCCAGCCCCCTCTTAATG  
GAGTGAAGGTGCTTCCATCCCTGCTCCTCGGACAACACTACAGTACCTCATCATCGACACCCAGGCCA  
GCTGGCTGTGGCTGTGGACCTTACAGACCTCGGGCTGTGCAGGCTTCCATTGAAAAGGAAGGGTCA  
TTGGTCGCCATTCTGTACTACAAGCACTGGGACCACAGTGGAGGGAACCGTGACCTCAGCCGGCGG  
ACCGGGACTGTGGGTGTACGGGAGCCCTCAGGACGGCATCCCCTACCTACCCATCCCCTGTGTATCA  
AGATGTGGTCAGCGTGGGACGGCTTACAGTCCGGGCCCTGGTACACCTGGCCACACACAAGGCCATCTG  
GTCTACCTACTGGATGGGAGCCCTACAAGGTCCCTCCTGCCTCTTCTCAGGGGACCTGCTTCTCCT  
CTGGCTGTGGCGGACCTTTGAGGGCAATGCAGAGACCATGCTGAGTCACTGGACACTGTGCTGGGGT  
AGGGATGACACCCTTCTGTGGCTGGTATGAGTATGCAGAGGAGAACCTGGGCTTTCAGGTGTGGTG  
GAGCCCGAGAACCTGGCCGGGAGAGGAAGATGCAGTGGGTGCAGCGGCAGCGGCTGGAGCGAAGGGCA  
CGTGCCCATCTACCCTGGGAGAGGAGCGCTCCTACAACCGTTCCCTGAGAACCCTGCTGGCGCTACA  
GGAGGCTCTGGGCGGGGCCGGCCCACTGGGATGATGACTACTCCCGGCCAGCTCCTGGAAGAG  
CTCCGCCGGCTGAAGGATATGCACAAGGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC202515 representing NM\_022572  
Red=Cloning site Green=Tags(s)

MAWQGWPAAWQWVAGCWLLLVLVLLVSPRGCRARRGLRGLLMAHSQRLLFRIGYSLYTRTWLGYLFYR  
 QQLRRARNRYPKGHSKTQPRLFNGVKVLPVPLSDNYSYLIIIDTQALAVAVDPSDPRAVQASIEKEGVT  
 LVAILCTHKKHWDHSGGNRDLRRHRDCRVYVYVSPQDGIPYLTHPLCHQDVVSVGRLQIRALATPGHTQGH  
 VYLLDGEPEYKGPSCFLSGDLLFLSGCGRTFEGNAETMLSSLDTVLGLGDDTLLWPGHEYAEEENLGFAGV  
 EPENLARERKMQWVQRQLERKGTCPSTLGEERSYNPFLRTHCLALQEALGPGPGPTGDDDYRAQLLEE  
 LRRLKDMHKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1562\\_c07.zip](https://cdn.origene.com/chromatograms/ja1562_c07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022572

**ORF Size:** 1083 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\\_022572.4](#)

**RefSeq Size:** 2986 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 25953

**UniProt ID:** [Q8N490](#)

**Cytogenetics:** 2q35

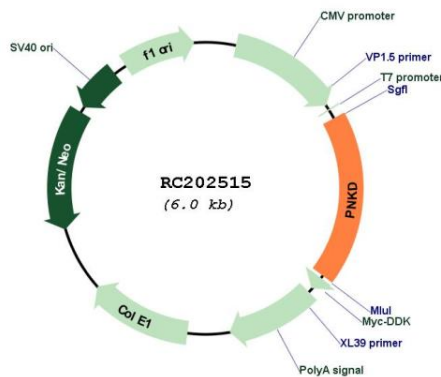
**Domains:** lactamase\_B

**Protein Families:** Transmembrane

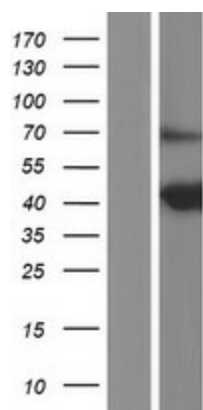
**MW:** 40.6 kDa

**Gene Summary:** This gene is thought to play a role in the regulation of myofibrillogenesis. Mutations in this gene have been associated with the movement disorder paroxysmal non-kinesigenic dyskinesia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

### Product images:



Circular map for RC202515



Western blot validation of overexpression lysate (Cat# [LY411638]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).