

Product datasheet for **RC212869**

Probable hydrolase PNKD (PNKD) (NM_001077399) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Probable hydrolase PNKD (PNKD) (NM_001077399) 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: >RC212869 representing NM_001077399
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGGTGGTAGCTGCTACGGCGCTGAAGGGCCGGGGGCGAGAAATGCCCGCTCCTCCGGGGGA
 TTCTCGCAGGAGCCACAGCTAACAAGGCTTCTATAACAGGACCCGGGCCCTGCAAAGCCACAGCTCCCC
 AGAGGGCAAGGAGGAACCTGAACCCCTATCCCCGAGCTGGAATACATCCAGAAAGAGGGCAAGAAC
 CCCATGAAAGCTGTGGACTGGCCTGGCCATCGGCTTCCCTTGTGGTATCCTCCTTTCATCCTCACCA
 AGCGGGAAGTGGACAAGGACCGTGTGAAGCAGATGAAGGCTCGGCAGAACATGCGTTGTCCAACACGGG
 CGAGTATGAGAGCCAGAGTTTCAAGGCTTCTCCAGAGTGCCCCGTCCCCTGATGTTGGGTCTGGGGT
 CAGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212869 representing NM_001077399
 Red=Cloning site Green=Tags(s)

MAAVVAATALKGRGARNARVLRGILAGATANKASHNRTRALQSHSSPEGKEEPEPLSPELEYIPRKRGN
 PMKAVGLAWAIGFPCGILLFILTKREVDKDRVKQMKARQNMRLSNTGEYESQRFRASSQSAPSPDVSGV
 QT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001077399

ORF Size: 426 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_001077399.3](#)

RefSeq Size: 774 bp

RefSeq ORF: 429 bp

Locus ID: 25953

UniProt ID: [Q8N490](#)

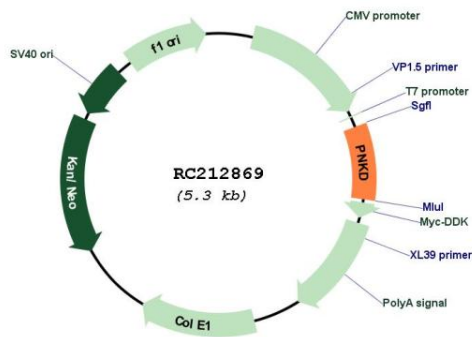
Cytogenetics: 2q35

Protein Families: Transmembrane

MW: 15.4 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 RC212869