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Product datasheet for RC206179

Probable hydrolase PNKD (PNKD) (NM_015488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Probable hydrolase PNKD (PNKD) (NM_015488) 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:

>RC206179 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGTGGTAGCTGCTACGGCGCTGAAGAGCCGGGGGGCGAGAAATGCCCGCGTCCTCCGGGGGA
TTCTCGCAGGAGCCACAGCTAACAAGGTTTCTCATAACAGGACCCGGGCCCTGCAAAGCCACAGCTCCTC
AGAGGGCAAGGAGGAACCTGAACCCCTATCCCCGGAGCTGGAATACATTCCCAGAAAGAGGGGCAAGAAC
CCCATGAAAGCTGTGGGACTGGCCTGGTACAGCCTGTACACCCGCACCTGGCTCGGGTACCTCTTCTACC
GACAGCAGCTGCGCAGGGCTCGGAATCGCTACCCTAAAGGCCACTCGAAAACCCAGCCCCGCCTCTTCAA
TGGAGTGAAGGTGCTTCCCATCCCTGTCCTCTCGGACAACTACAGCTACCTCATCATCGACACCCAGGCC
CAGCTGGCTGTGGCTGTGGACCCTTCAGACCCTCGGGCTGTGCAGGCTTCCATTGAAAAGGAAGGGGTCA
CCTTGGTCGCCATTCTGTGTACTCACAAGCACTGGGACCACAGTGGAGGGAACCGTGACCTCAGCCGGCG
GCACCGGGACTGTCGGGTGTACGGGAGCCCTCAGGACGGCATCCCCTACCTCACCCATCCCCTGTGTCAT
CAAGATGTGGTCAGCGTGGGACGGCTTCAGATCCGGGCCCTGGCTACACCTGGCCACACACAAGGCCATC
TGGTCTACCTACTGGATGGGGAGCCCTACAAGGGTCCCTCCTGCCTCTTCTCAGGGGACCTGCTCTTCCT
CTCTGGCTGTGGGCGGACCTTTGAGGGCAATGCAGAGACCATGCTGAGCTCACTGGACACTGTGCTGGGG
CTAGGGGATGACACCCTTCTGTGGCCTGGTCATGAGTATGCAGAGGAGAACCTGGGCTTTGCAGGTGTGG
TGGAGCCCGAGAACCTGGCCCGGGAGAGGAAGATGCAGTGGGTGCAGCGGCAGCGGCTGGAGCGCAAGGG
CACGTGCCCATCTACCCTGGGAGAGGAGCGCTCCTACAACCCGTTCCTGAGAACCCACTGCCTGGCGCTA
CAGGAGGCTCTGGGGCCGGGGCCGGGCCCCACTGGGGATGATGACTACTCCCGGGCCCAGCTCCTGGAAG
AGCTCCGCCGGCTGAAGGATATGCACAAGAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206179 protein sequence
Red=Cloning site Green=Tags(s)

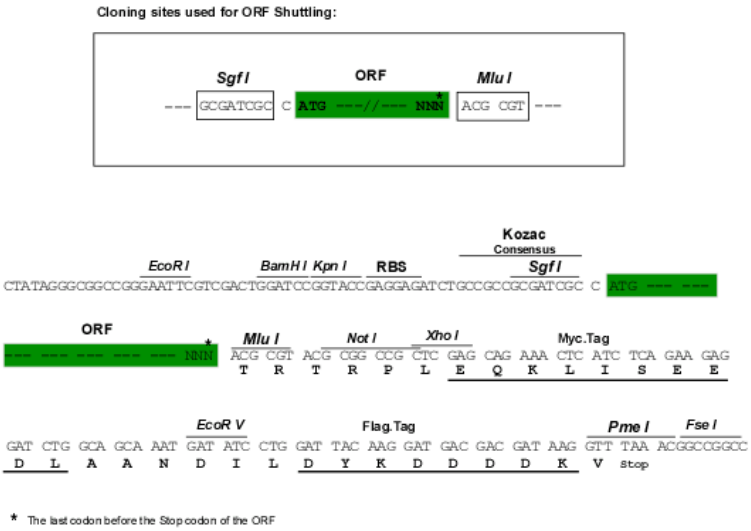
MAAVVAATALKSRGARNARVLRGILAGATANKVSHNRTRALQSHSSSEGKEEPEPLSPELEYIPRKRGKN
PMKAVGLAWYSLYTRTWLGYLFYRQQLRRARNRYPKGHSKTQPRLFNGVKVLPIPVLSDNYSYLIIDTQA
QLAVAVDPSDPRAVQASIEKEGVTLVAILCTHKHWDHSGGNRDLSRRHRDCRVYGSPQDGIPYLTHPLCH
QDVVSVGRLQIRALATPGHTQGHLVYLLDGEPYKGPSCLFSGDLLFLSGCGRTFEGNAETMLSSLDTVLG
LGDDTLLWPGHEYAEENLGFAGVVEPENLARERKMQWVQRQRLERKGTCPSTLGEERSYNPFLRTHCLAL
QEALGPGPGPTGDDDYSRAQLLEELRRLKDMHKSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6196_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015488

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_015488.3

RefSeq Size: 3129 bp

RefSeq ORF: 1158 bp

Locus ID: 25953

UniProt ID: Q8N490

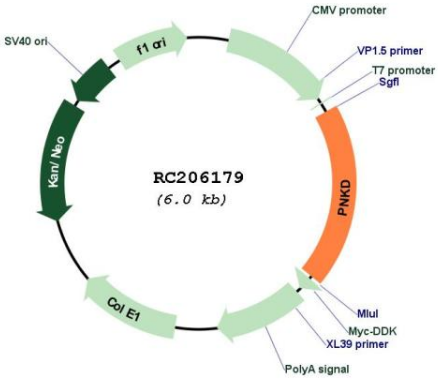
Cytogenetics: 2q35

Protein Families: Transmembrane

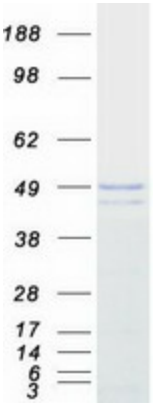
MW: 42.9 kDa

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 RC206179



Coomassie blue staining of purified PNKD protein (Cat# [TP306179]). The protein was produced from HEK293T cells transfected with PNKD cDNA clone (Cat# RC206179) using MegaTran 2.0 (Cat# [TT210002]).