

Product datasheet for **RC239617**

Plakophilin 3 (PKP3) (NM_001303029) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plakophilin 3 (PKP3) (NM_001303029) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239617 representing NM_001303029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCTGGACACCTCGGCCGTGAGCAGTGGCCTCTGGGATGAGCTGGGAGGCTGGCGGGATCCGGA
 CCACGAGCCGGCCTGAGGCCGGCGTGTGCTCCCTGGCGCTGCCCTCTGACCTGCAGCTGGACCGCGGGG
 CGCCGAGGGGCGGAGGCCGAGCGGCTGCGGGCAGCCCGCTCCAGGAGCAGGTCCGCGCCCGCCTCTTG
 CAGCTGGGACAGCAGCCGCGGCAACAACGGGGCCGCTGAGCCGAGCCTGAGGCCGAGACTGCCAGAGGCA
 CATCCAGGGGCGAGTACCACACCCTGCAGGCTGGCTTCAGCTCTCGTCTCAGGGCCTGAGTGGGGACAA
 GACCTCGGGCTTCGGGCCATCGCCAAGCCGGCTACAGCCAGCCTCCTGGTCTCCCGCTCCGCCGTG
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 GGGGTGCCAGCCACCCTCCCATGCCACCAGGCCGTGCTTCCATGAGCGCGGTGGGGTTGGGAG
 CCGGGCCGACTATGACACTCTCCCTGCGCTCGCTGCGGCTGGGGCCCGGGGCTGGACGACCCTAC
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 GCCTTCAGGCCGTGCCTAGGCTGGTGAAGCTCTCAACCACGCCAACAGGAAGTGCAGGCCATGCCAC
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 TTCGAGCTGCTGCGGACACTGCGGGAGCAGGATGATGAGCTTCGCAAAAATGTCACAGGGATCCTGTGGA
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 GTTGAGCCCCCTGTCGGGGGCTGGGGTCCCCCTCATCCAGCAGAACGCCTCGGAGGCAGAGATCTTC
 TACAACGCCACCGGCTTCTCAGAACCTCAGCTCAGCCTCTCAGGCCACTCGCCAGAAGATGCGGGAGT
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 GAGCGTGGAGAACGCGGTGTGCGTCTGCGGAACCTGTCTACCGCCTCTACGACGAGATGCCGCCGTCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239617 representing NM_001303029
 Red=Cloning site Green=Tags(s)

MESWTPRPSAVASGMSWEAGGIRTTSRPEAGVCSLALPSDLQLDRRGAEGPEAERLRAARVQEQRARLL
 QLGQQPRHNGAAEPEPEAETARGTSRGQYHTLQAGFSSRSQGLSGDKTSGFRPIAKPAYSPASWSSRS
 DLSCSRRLSSAHNGGSFAFGAAGYGAQPTPPMPTRPVSFHERGGVGSRADYDTLSLRSRLRGPGLDDRY
 SLVSEQLLEPAATSTYRAFAYERQASSSSSRAGGLDWPEATEVSPSRTIRAPAVRTLQRFQSSHRSRGVGG
 AVPGAVLEPVARAPSVRSLSLADSGHLPDVHGFNSYGSRHRTLQRLSSGFDDIDLPSAVKYLMASDPNL
 QVLGAAYIQHKCYSDAAAKKQARSLQAVPRLVKLFNHNQEVQRHATGAMRNLIYDNADNKLALVEENGI
 FELLRTLREQDDELKKNVTGILWNLSSDHLKDRLDARTLEQLTDLVLSPLSGAGGPPLIQQNAEAEIF
 YNATGFLRNLSSASQATRQKRECHGLVDALVTSINHALDAGKCEDKSVENAVCVLRNLSYRLYDEMPPS
 ALQRLEGRGRDLGAPPGEVVGCFTPQSRRLRELPLAADALTFAEVSKDPKGLEWLWSPQIVGLYNRLL
 QRCELNRHTTEAAGALQNTAGDRRWAGVLSRLALEQERILNPLLDRVRTADHHQLRSLTGLIRNLSRN
 ARNKDEMSTKVVSHLIEKLPGSVGEKSPPAEVLVNIIVLNNLVVASPIAARDLLYFDGLRKLIFIKKKR
 DSPDSEKSSRAASLLANLWQYNKLRHDFRAKGYRKEDFLGP

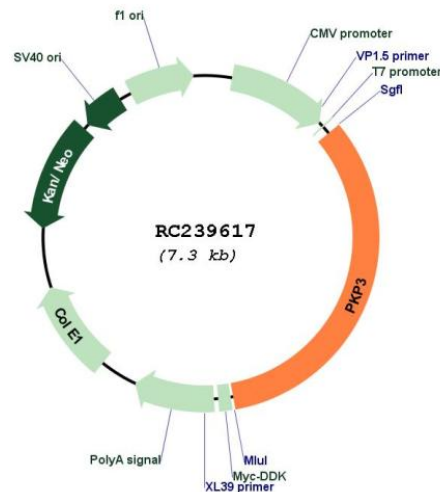
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001303029

ORF Size: 2436 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_001303029.2](#)

RefSeq Size: 2843 bp

RefSeq ORF: 2439 bp

Locus ID: 11187

UniProt ID: [Q9Y446](#)

Cytogenetics: 11p15.5

MW: 89.1 kDa

Gene Summary: This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This protein may act in cellular desmosome-dependent adhesion and signaling pathways. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]