

Product datasheet for RC207963

Plakophilin 4 (PKP4) (NM_001005476) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plakophilin 4 (PKP4) (NM_001005476) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plakophilin 4
Synonyms:	p0071
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207963 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCCAGCTCCTGAGCAGGCCTCATTGGTGGAGGAGGGGCAACCACAGACCCGCCAGGAAGCTGCCTCAA
CTGGCCAGGCATGGAACCCGAGACCACAGCCACCACTATTCTAGCATCCATGAAGGAGCAGGAGCTTCA
GTTTCAGCGACTACCCGAGAAGTGAAGTGGAAAGGCAGATTGTTGCCAGTCAGCTAGAAAGATGTAGG
CTTGGAGCAGAATCACCAGCATCGCCAGCACCAGCTCAACTGAGAAGTCATTTCTGGAGATCAACAG
ACGTGCCAAATACTGGTGAAGCAAACCTAGAGTTTCTGACGCTGTCCAGCCCAACAATCTCATCAG
GACAGAGCCAGAACAAGGAACCCCTATTACACAGAACAGACATCTCCATGAAAGTGAGGGATCATTG
GGTAACTCAAGAAGTTCAACACAATGAATTTATTCCGACAGTGGATACCAGGAAGCAGGGAGTTTCC
ACAACAGCCAGAAGCTGAGCAAGGCAGACAACAGACAGCAGCATTATTCAAGGATCAACTAACAACCA
TGTGGTGAGGAATTCAAGAGCTGAAGGACAAACACTGGTTCAGCCATCAGTAGCCAATCGGGCCATGAGA
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GGTGGTCTCTGAGAACTCTCTGGGTAGTGGATTGGCTCTCCGTGACGTGACCGACCCAGACCTCTGAA
CCCCAGTGCATATTCTCCACCACATTACCTGCTGCACGGGCAGCCTCTCCGTAATCACAGAGACCCGCC
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CTCAATACCAAACACCCGAGAGTGGGTCCCACTGACCCGTGACGGATGCACAGACTCGAGTAGCTTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC207963 protein sequence
 Red=Cloning site Green=Tags(s)

MPAPEQASLVEEGQPQTRQEAASTGPGMEPETTATTILASMKEQELQFQRLTRELEVERQIVASQLERCR
 LGAESPSIASTSSTKESFPWRSTDVPNTGVSKPRVSDAVQPNNYLIRTEPEQGLYSPEQTSLHESEGSL
 GNSRSSTQMNSYSDSGYQEAGSFHNSQNVSKADNRQHSF IGSTNNHVVRNSRAEQTLVQPSVANRAMR
 RVSSVPSRAQSPYYVISTGVSPSRWSLRTSLGSGFGSPVTDPRPLNPSAYSSTTLPAARAASPYSQRP
 SPTAIRRIGSVTSRQTSNPNPQYQTTARVGSPLTLTDAQTRVASPSQGVGSSSPKRSGMTAVPQHL
 GPSLQRTVHMEQFGQQQYDIYERMVPPRPDSL TGLRSSYASQHSQLGQDLRSVAVSPDLHITPIYEGRTY
 YSPVYRSPNHGTVELQGSQTALYRTGSGVIGNLQRTSSQRSTLT YQRNNYALNTTATYAEPYRPIQYRVQ
 ECNYNRLQHAVPADDGTTSPSIDSIQKDPREFAWRDPELPEVIHMLQHQPFSVQANAAAYLQHLFCGDN
 KVKMEVCLRGGIKHLVDLLDHRVLEVQKNACGALRNLVFGKSTDENKIAMKNVGGIPALLRLLRKSIDAE
 VRELVTGVLWNLSSCDVAKMTIIRDALSTLTNTVIVPHSGWNNSSFDDDHKIKFQTSVLRLNTTGCLRNL
 SSAGEEARKQMRSCGLVDSLLYVIHTCVNTSDYDSKTVENCVCTLRNLSYRLELEVQARLLGLDELDD
 LLGKESPSKDEPSCWGKKKKKKRTPEQDQWDGVPPIGLSKSPKGVEMLWHPSVVKPYLTL LAESSNP
 ATLEGSAGSLQNL SAGNWKFAAYIRA AVRKEKGLPILVELLRMDNDRVSVVATALRNMALDVRNKELIG
 KYAMRDLVNR LPGNGPSVL SDETMAAICCALHEVTSKNMENAKALADSGGIEKLVNITKGRDRSSLKV
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 YISSYSPAREQNRRLQHQLYYSQDDSNRKNFDAYRLYLQSPHSYEDPYFDDR VHPASTDYSTQYGLK
 STTNVYDFYSTKRPSYRAEQYPGSPDSWV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6712_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

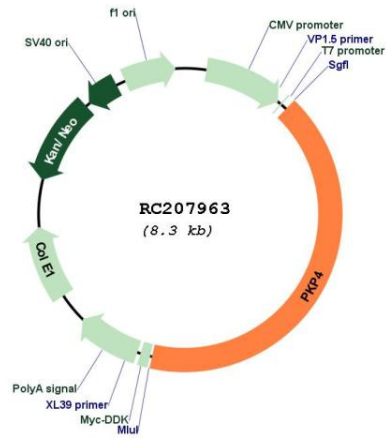


ACCN: NM_001005476

ORF Size: 3447 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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001005476.4
RefSeq Size:	4475 bp
RefSeq ORF:	3450 bp
Locus ID:	8502
UniProt ID:	Q99569
Cytogenetics:	2q24.1
MW:	127.4 kDa
Gene Summary:	<p>Armadillo-like proteins are characterized by a series of armadillo repeats, first defined in the Drosophila 'armadillo' gene product, that are typically 42 to 45 amino acids in length. These proteins can be divided into subfamilies based on their number of repeats, their overall sequence similarity, and the dispersion of the repeats throughout their sequences. Members of the p120(ctn)/plakophilin subfamily of Armadillo-like proteins, including CTNND1, CTNND2, PKP1, PKP2, PKP4, and ARVCF. PKP4 may be a component of desmosomal plaque and other adhesion plaques and is thought to be involved in regulating junctional plaque organization and cadherin function. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2015]</p>

Product images:



Circular map for RC207963