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Product datasheet for RG216972

Plakophilin 1 (PKP1) (NM_001005337) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plakophilin 1 (PKP1) (NM_001005337) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plakophilin 1
Synonyms:	B6P; EDSFS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG216972 representing NM_001005337
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCACTCGCCGCTCAAGACCGCCTTGGCGTACGAATGCTTCCAGGACCAGGACAACTCCACGTTGG
CTTTGCCGTCGGACCAAAAGATGAAAACAGGCACGTCTGGCAGGCAGCGCGTGCAGGAGCAGGTGATGAT
GACCGTCAAGCGGCAGAAGTCCAAGTCTTCCCAGTCGTCCACCCTGAGCCACTCCAATCGAGGTTCCATG
TATGATGGCTTGGCTGACAATTACAACTATGGGACCACCAGCAGGAGCAGCTACTACTCCAAGTTCCAGG
CAGGGAATGGCTCATGGGGATATCCGATCTACAATGGAACCCTCAAGCGGGAGCCTGACAACAGGCGCTT
CAGCTCCTACAGCCAGATGGAGAACTGGAGCCGGCACTACCCCCGGGGCAGCTGTAACACCACCGGCGCA
GGCAGCGACATCTGCTTCATGCAGAAAATCAAGGCGAGCCGCAGTGAGCCCGACCTCTACTGTGACCCAC
GGGGCACCCTGCGCAAGGGCACGCTGGGCAGCAAGGGCCAGAAGACCACCCAGAACCGCTACAGCTTTTA
CAGCACCTGCAGTGGTCAGAAGGCCATAAAGAAGTGCCCTGTGCGCCCGCCCTCTTGTGCCTCCAAGCAG
GACCCTGTGTATATCCCGCCCATCTCCTGCAACAAGGACCTGTCCTTTGGCCACTCTAGGGCCAGCTCCA
AGATCTGCAGTGAGGACATCGAGTGCAGTGGGCTGACCATCCCCAAGGCTGTGCAGTACCTGAGCTCCCA
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AGCAGGCCGCGGCAGGGGCCCTGCGCAACCTGGTGTTCAGGAGCACCACCAACAAGCTGGAGACCCGGAG
GCAGAATGGGATCCGCGAGGCAGTCAGCCTCCTGAGGAGAACCGGGAACGCCGAGATCCAGAAGCAGCTG
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TTCTGGCCGACCGCGTCATCATTCCCTTCTCTGGCTGGTGCGATGGCAATAGCAACATGTCCCGGGAAGT
GGTGGACCCTGAGGTCTTCTTCAATGCCACAGGCTGCTTGAGGAACCTGAGCTCGGCCGATGCAGGCCGC
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GCCGCTGTGACGACAAGTCTGTGGAAAACTGCATGTGTGTTCTGCACAACCTCTCCTACCGCCTGGACGC
CGAGGTGCCCACCCGCTACCGCCAGCTGGAGTATAACGCCCGCAACGCCTACACCGAGAAGTCCTCCACT
GGCTGCTTCAGCAACAAGAGCGACAAGATGATGAACAACAACTATGACTGCCCCCTGCCTGAGGAAGAGA
CCAACCCCAAGGGCAGCGGCTGGTTGTACCATTCAGATGCCATCCGCACCTACCTGAACCTCATGGGCAA
GAGCAAGAAAGATGCTACCCTGGAGGCCTGTGCTGGTGCCCTGCAGAACCTGACAGCCAGCAAGGGGCTG
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GCACAGAGTGATGGGGAACCAGGTGTTCCCGGAGGTGACCAGGCTCCTCACCAGCCACACTGGCAATACC
AGCAACTCCGAAGACATCTTGTCCTCGGCCTGCTACACTGTGAGGAACCTGATGGCCTCGCAGCCACAAC
TGGCCAAGCAGTACTTCTCCAGCAGCATGCTCAACAACATCATCAACCTGTGCCGAAGCAGTGCCTCACC
CAAGGCCGCAGAAGCTGCCCGGCTTCTCCTGTCTGACATGTGGTCCAGCAAGGAACTGCAGGGTGTCCTC
AGACAGCAAGGTTTCGATAGGAACATGCTGGGAACCTTAGCTGGGGCCAACAGCCTCAGGAACTTCACCT
CCCGATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

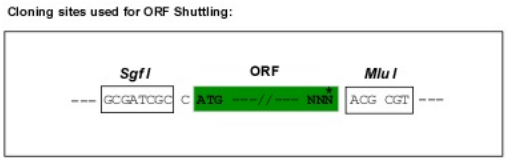
>RG216972 representing NM_001005337
Red=Cloning site Green=Tags(s)

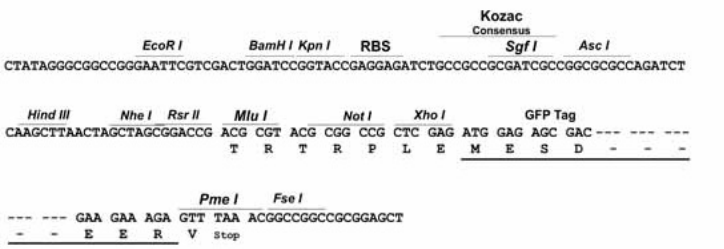
MNHSPLKTALAYECFQDQDNSTLALPSDQKMKTGTSGRQRVQEQVMMTVKRQKSKSSQSSTLSHSNRGSM
YDGLADNYNYGTTSRSSYYSKFQAGNGSWGYPIYNGTLKREPDNRRFSSYSQMENWSRHYPRGSCNTTGA
GSDICFMQKIKASRSEPDLYCDPRGTLRKGTLGSKGQKTTQNRYSFYSTCSGQKAIKKCPVRPPSCASKQ
DPVYIPPISCNKDLSFGHSRASSKICSEDIECSGLTIPKAVQYLSSQDEKYQAIGAYYIQHTCFQDESAK
QQVYQLGGICKLVDLLRSPNQNVQQAAAGALRNLVFRSTTNKLETRRQNGIREAVSLLRRTGNAEIQKQL
TGLLWNLSSTDELKEELIADALPVLADRVIIPFSGWCDGNSNMSREVVDPEVFFNATGCLRNLSSADAGR
QTMRNYSGLIDSLMAYVQNCVAASRCDDKSVENCMCVLHNLSYRLDAEVPTRYRQLEYNARNAYTEKSST
GCFSNKSDKMMNNNYDCPLPEEETNPKGSGWLYHSDAIRTYLNLMGKSKKDATLEACAGALQNLTASKGL
MSSGMSQLIGLKEKGLPQIARLLQSGNSDVVRSGASLLSNMSRHPLLHRVMGNQVFPEVTRLLTSHTGNT
SNSEDILSSACYTVRNLMASQPQLAKQYFSSSMLNNIINLCRSSASPKAAEAARLLLSDMWSSKELQGVL
RQQGFDRNMLGTLAGANSLRNFTSRF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_001005337

ORF Size: 2178 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).

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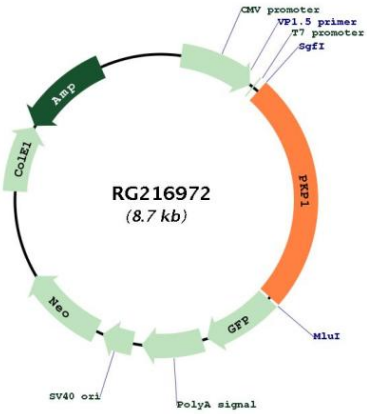
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001005337.3
RefSeq Size:	5388 bp
RefSeq ORF:	2181 bp
Locus ID:	5317
UniProt ID:	Q13835
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome
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 be involved in molecular recruitment and stabilization during desmosome formation. Mutations in this gene have been associated with the ectodermal dysplasia/skin fragility syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG216972

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