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Product datasheet for RC222429

PHOS (PDC) (NM_002597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHOS (PDC) (NM_002597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDC
Synonyms:	MEKA; PHD; PhLOP; PhLP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC222429 representing NM_002597 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAAGAAGCCAAAAGCCAAAGTTTGGAGGAAGACTTTGAAGGACAGGCCACACATACAGGACCCAAAG GAGTAATAAATGATTGGAGAAAGTTTAAATTAGAGAGTCAAGACAGTGATTCAATTCCACCTAGCAAGAA GGAGATTCTCAGGCAAATGTCTTCTCCTCAGAGTAGGAATGGCAAAGATTCAAAGGAACGAGTCAGCAGA AAGATGAGCATTCAAGAATATGAACTAATCCATAAAGAGAAAGAGGATGAAAACTGCCTTCGTAAATACC GTAGACAGTGTATGCAGGATATGCACCAGAAGCTGAGTTTTGGGCCTAGATATGGGTTTGTGTATGAGCT GGAAACTGGAAAGCAATTCCTAGAAACAATTGAAAAGGAACTGAAGATCACCACAATTGTTGTTCACATT TATGAAGATGGTATTAAGGGTTGTGATGCTCTAAACAGTAGTTTAACATGCCTTGCAGCAGAATACCCTA TAGTTAAGTTTTGTAAAATAAAAGCTTCGAATACAGGTGCTGGGGACCGCTTTTCCTTAGATGTACTTCC TACACTGCTCATCTATAAAGGTGGGGAACTCATAAGCAATTTTATTAGTGTTGCTGAACAGTTTGCTGAA GAATTTTTTGCTGGGGATGTGGAGTCTTTCCTAAATGAATATGGGTTACTACCTGAAAGAGAGGTACATG TCCTAGAGCATACCAAAATAGAAGAAGAAGATGTTGAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

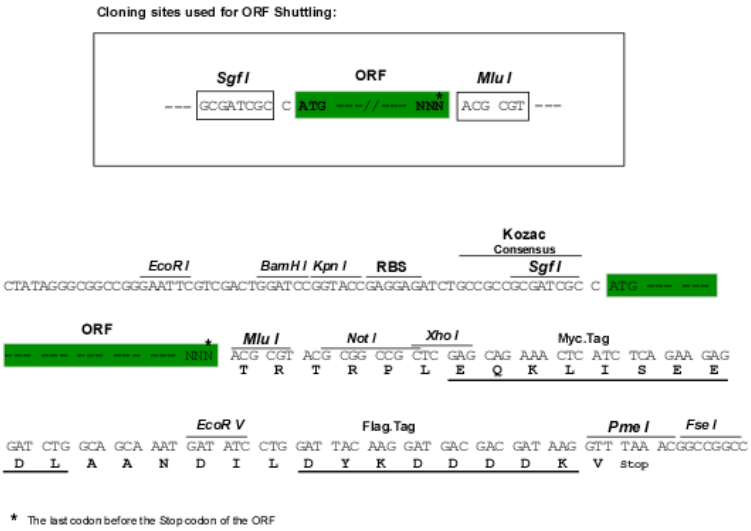
>RC222429 representing NM_002597
Red=Cloning site Green=Tags(s)

MEEAKSQSLEEDFEGQATHTGPKGVINDWRKFKLESQDSDSIPPSKKEILRQMSSPQSRNGKDSKERVSR
KMSIQEYELIHKEKEDENCLRKYRRQCMQDMHQKLSFGPRYGFVYELETGKQFLETIEKELKITTIVVHI
YEDGIKGCDALNSSLTCLAAEYPIVKFCKIKASNTGAGDRFSLDVLPTLLIYKGGELISNFISVAEQFAE
EFFAGDVESFLNEYGLLPEREVHVLEHTKIEEEDVE

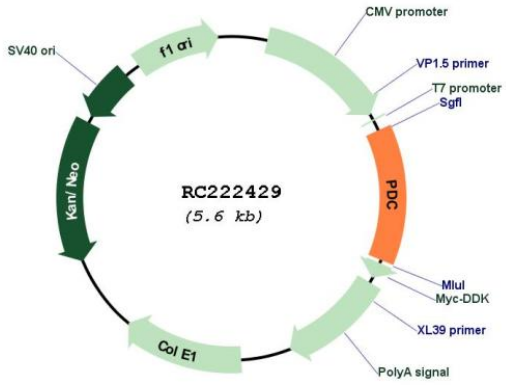
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002597

ORF Size: 738 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_002597.5
RefSeq Size:	1246 bp
RefSeq ORF:	741 bp
Locus ID:	5132
UniProt ID:	P20941
Cytogenetics:	1q31.1
Domains:	Phosducin
Protein Families:	Druggable Genome
Protein Pathways:	Olfactory transduction
MW:	28.2 kDa

Gene Summary: This gene encodes a phosphoprotein, which is located in the outer and inner segments of the rod cells in the retina. This protein may participate in the regulation of visual phototransduction or in the integration of photoreceptor metabolism. It modulates the phototransduction cascade by interacting with the beta and gamma subunits of the retinal G-protein transducin. This gene is a potential candidate gene for retinitis pigmentosa and Usher syndrome type II. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]