

Product datasheet for RC212016

PHOS (PDC) (NM 022576) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PHOS (PDC) (NM_022576) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: PHOS

Synonyms: MEKA; PHD; PhLOP; PhLP

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC212016 representing NM_022576

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTTCTCCTCAGAGTAGGAATGGCAAAGATTCAAAGGAACGAGTCAGCAGAAAGATGAGCATTCAAG
AATATGAACTAATCCATAAAGAGAAAGAGGATGAAAACTGCCTTCGTAAATACCGTAGACAGTGTATGCA
GGATATGCACCAGAAGCTGAGTTTTGGGCCTAGATATGGGTTTGTGTATGAGCTGGAAACTGGAAAGCAA
TTCCTAGAAACAATTGAAAAGGAACTGAAGATCACCACAATTGTTGTTCACATTTATGAAGATGGTATTA
AGGGTTGTGATGCTCTAAACAGTAGTTTAACATGCCTTGCAGCAGAATACCCTATAGTTAAGTTTTGTAA
AATAAAAGCTTCGAATACAGGTGCTGGGGACCGCTTTTCCTTAGATGTACTTCCTACACTGCTCATCTAT
AAAGGTGGGGAACTCATAAGCAATTTTATTAGTGTTGCTGAACAGTTTGCTGAAGAATTTTTTTGCTGGGG
ATGTGGAGTCTTTCCTAAAGATATATGGGTTACTACCTGAAAGAGAGGTACATGTCCTAGAGCATACCAA

AATAGAAGAAGAAGATGTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212016 representing NM_022576

Red=Cloning site Green=Tags(s)

MSSPQSRNGKDSKERVSRKMSIQEYELIHKEKEDENCLRKYRRQCMQDMHQKLSFGPRYGFVYELETGKQ FLETIEKELKITTIVVHIYEDGIKGCDALNSSLTCLAAEYPIVKFCKIKASNTGAGDRFSLDVLPTLLIY

KGGELISNFISVAEQFAEEFFAGDVESFLNEYGLLPEREVHVLEHTKIEEEDVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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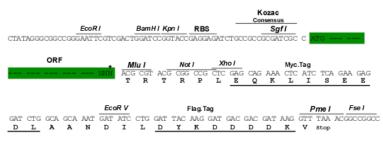
Chromatograms: https://cdn.origene.com/chromatograms/mk8026 d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_022576

ORF Size: 582 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: <u>NM 022576.3, NP 072098.1</u>

RefSeq Size: 1221 bp RefSeq ORF: 585 bp Locus ID: 5132



 UniProt ID:
 P20941

 Cytogenetics:
 1q31.1

Protein Families: Druggable Genome

Protein Pathways: Olfactory transduction

MW: 22.1 kDa

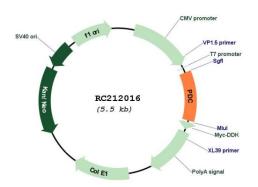
Gene Summary: This gene encodes a phosphoprotein, which is located in the outer and inner segments of the

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

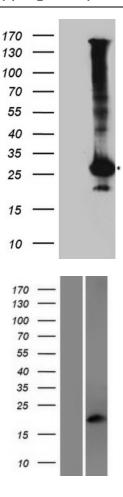
been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212016





HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PDC (Cat# RC212016, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDC rabbit polyclonal antibody (Cat# [TA890163]).

Western blot validation of overexpression lysate (Cat# [LY411611]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212016 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).