

Product datasheet for RC204012

PERP (NM_022121) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PERP (NM_022121) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PERP
Synonyms: dj496H19.1; KCP1; KRTCAP1; PIGPC1; THW
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204012 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCCGCTGCGGCTGGCCTGCGAGCGCTGCCGCTGGATCCTGCCCTGCTCCTACTCAGCGCCATCG
 CCTTCGACATCATCGCGCTGGCCGGCCGCGCTGGTTGCAGTCTAGCGACCACGGCCAGACGCTCCTCGT
 GTGGTGGAAATGCTCCCAAGAGGGCGCGGCAGCGGGTCTACGAGGAGGGCTGCAGAGCCTCATGGAG
 TACGCGTGGGGTAGAGCAGCGGCTGCCATGCTTCTGTGGCTTCATCATCCTGGTGATCTGTTTCATCC
 TCTCCTTCTCGCCTCTGTGGACCCAGATGCTTGTCTTCTGAGAGTGATTGGAGGTCTCCTTGCTT
 GGCTGCTGTGTTCCAGATCATCTCCCTGGTAATTTACCCCGTGAAGTACACCCAGACCTTACCCTTCAT
 GCCAACCTGCTGTCACTTACATCTATAACTGGGCTACGGCTTTGGGTGGGAGCCACGATTATCCTGA
 TTGGCTGTGCCTTCTTCTGTGCTGCCCACTACGAAGATGACCTTCTGGCAATGCCAAGCCAG
 GTACTTACACATCTGCC

AG**CGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204012 protein sequence
 Red=Cloning site Green=Tags(s)

MIRCGLACERCWILPLLLLSAIAFDIIALAGRWLQSSDHGQTSSLWVKCSQEGGSGSYEEGCQSLME
 YAWGRAAAAMLFCGFIIILVICFILLSFFALCGPQMLVFLRVIGLLLAAVFIISLVIYPVKYTQFTLH
 ANPAVTYIYNWAYGFGWAATIILIGCAFFFCCLPNYEDDLLGNAKPRYFYTSA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

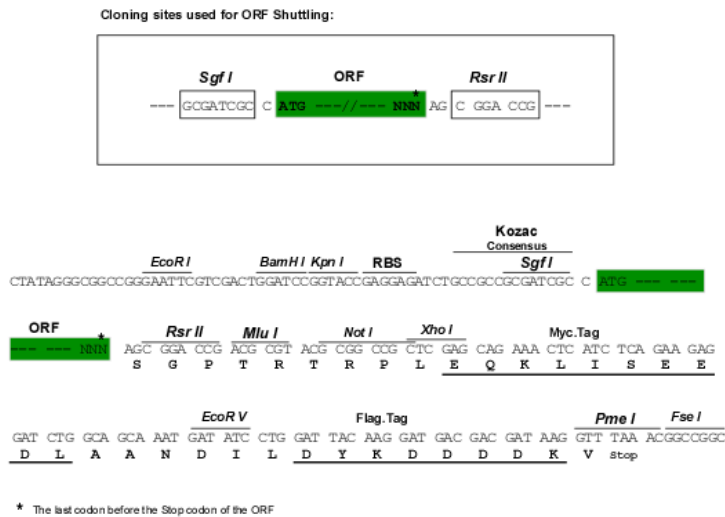


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Chromatograms: https://cdn.origene.com/chromatograms/mk6614_g09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_022121

ORF Size: 579 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_022121.5](#)

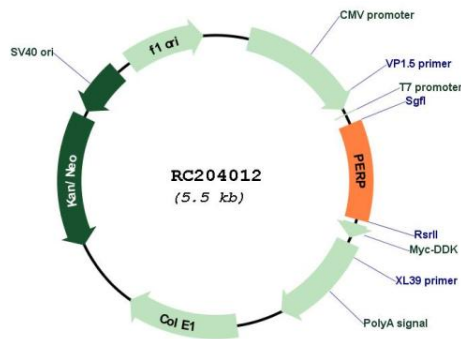
RefSeq Size: 4319 bp

RefSeq ORF: 582 bp

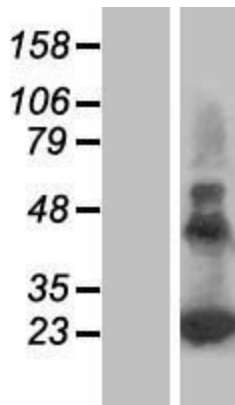
Locus ID: 64065

UniProt ID: [Q96FX8](#)
Cytogenetics: 6q23.3
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: p53 signaling pathway
MW: 21.4 kDa
Gene Summary: Component of intercellular desmosome junctions. Plays a role in stratified epithelial integrity and cell-cell adhesion by promoting desmosome assembly. Plays a role as an effector in the TP53-dependent apoptotic pathway (By similarity).[UniProtKB/Swiss-Prot Function]

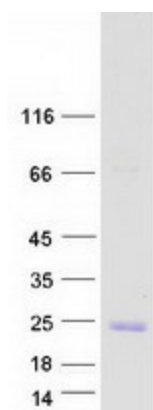
Product images:



Circular map for RC204012



Western blot validation of overexpression lysate (Cat# [LY411759]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204012 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PERP protein (Cat# [TP304012]). The protein was produced from HEK293T cells transfected with PERP cDNA clone (Cat# RC204012) using MegaTran 2.0 (Cat# [TT210002]).