

Product datasheet for RC201529

PPIH (NM_006347) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPIH (NM_006347) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PPIH
Synonyms: CYP-20; CYPH; SnuCyp-20; USA-CYP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201529 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGCAAATTCAGTCCTGTTAACCCCGTGGTGTCTTTGATGTCAGTATTGGCGGTCAGGAAG
TTGGCCGCATGAAGATCGAGCTCTTTCAGACGTTGTGCCTAAGACGGCCGAGAAGTTAGGCAGTTCTG
CACCGGAGAATTCAGGAAAGATGGGTTCCAATAGGATACAAAGGAAGCACCTTCCACAGGGTCATAAAG
GATTTTCATGATTCAGGGTGGAGATTTTGTAAATGGAGATGGTACTGGAGTCGCCAGTATTACCGGGGGC
CATTTGCAGATGAAAATTTAACTTAGACTCAGCTCCAGGCCTGCTTCCATGGCGAACAGTGGTCC
AAGTACAAATGGCTGTCAGTTCTTATACCTGCTCTAAGTGCATTGGCTGGATGGGAAGCATGTGGTG
TTTGAAAAATCATCGATGGACTTCTAGTGATGAGAAAGATTGAGAATGTTCCCACAGGCCCAACAATA
AGCCCAAGCTACCTGTGGTGATCTCGCAGTGTGGGGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201529 protein sequence
Red=Cloning site Green=Tags(s)

MAVANSSPVNPVFFDVSIGGQEVGRMKIELFADVVPKTAENFRQFCTGEFRKDGVPVIGYKGFHRVIK
DFMIQGGDFVNGDGTGVASIVRGPADENFKLRHSAPGLLSMANSRSTNGCQFFITCSKCDWLDGKHVV
FGKIIDGLLVMRKIENVPTGPNNKPKLPVVISQCGEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

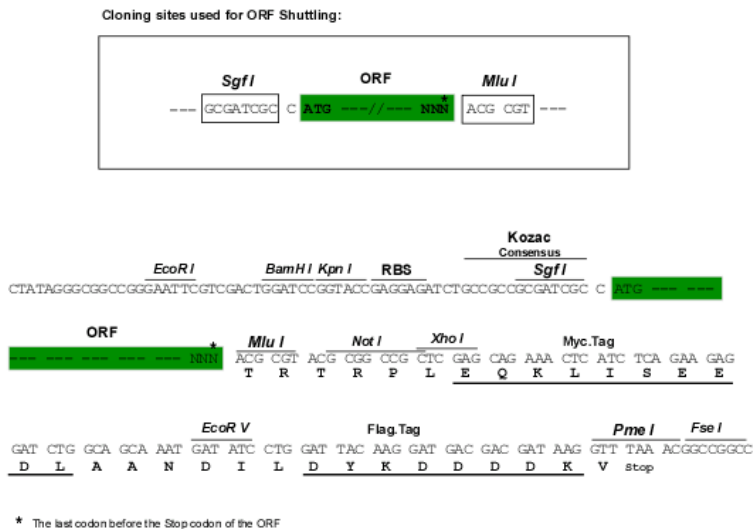
Chromatograms: https://cdn.origene.com/chromatograms/mk6300_f08.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006347

ORF Size: 531 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006347.4](#)

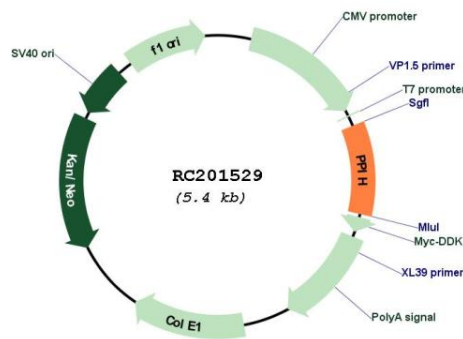
RefSeq Size: 813 bp

RefSeq ORF: 534 bp

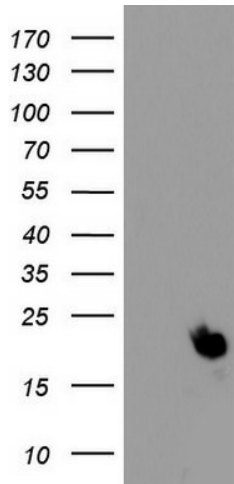
Locus ID: 10465
UniProt ID: [O43447](#)
Cytogenetics: 1p34.2
Domains: pro_isomerase
Protein Pathways: Spliceosome
MW: 19.2 kDa

Gene Summary: The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein is a specific component of the complex that includes pre-mRNA processing factors PRPF3, PRPF4, and PRPF18, as well as U4/U5/U6 tri-snRNP. This protein has been shown to possess PPIase activity and may act as a protein chaperone that mediates the interactions between different proteins inside the spliceosome. [provided by RefSeq, Jul 2008]

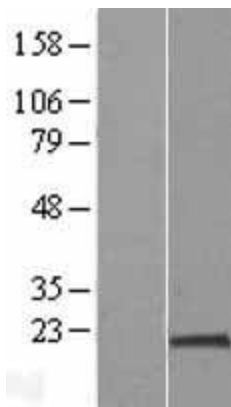
Product images:



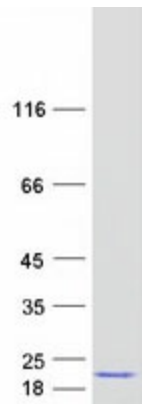
Circular map for RC201529



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPIH (Cat# RC201529, 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-PPIH (Cat# [TA803474]). Positive lysates [LY416702] (100ug) and [LC416702] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416702]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPIH protein (Cat# [TP301529]). The protein was produced from HEK293T cells transfected with PPIH cDNA clone (Cat# RC201529) using MegaTran 2.0 (Cat# [TT210002]).