

Product datasheet for RC201143

PPIC (NM_000943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPIC (NM_000943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPIC
Synonyms:	CYPC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201143 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCCGGGTCCTCGGCTGCTGCTACCTCTCGTGCTTTGCGTGGGGCTCGGCGCACTTGTGTTTTCTT
CGGGGGCCGAGGGCTTCCGCAAGCGAGGCCCTCGGTGACGGCCAAGGTCTTCTTTGATGTGAGGATTGG
AGACAAAGATGTTGGCAGAATTGTGATTGGCTCTTTGGAAAAGTTGTGCCAAGACAGTGGAAAAATTT
GTTGCTCTAGCAACAGGAGAGAAAAGGATATGGATATAAAGGAAGCAAGTTTCATCGTGTCATCAAGGATT
TCATGATTCAAGGAGGTGACATCACCCTGGAGATGGCACTGGGGGTGTGAGCATCTATGGTGAGACATT
TCCAGATGAGAACTTCAAGCTGAAGCACTATGGCATTGGGTGGGTGAGCATGGCCAAACGCTGGGCCTGAC
ACCAATGGCTCTCAGTTCTTTATCACCTTGACCAAGCCCACCTGGTTGGACGGCAAACATGTGGTGTGG
GAAAAGTCATTGATGGGATGACAGTGGTGCCTCCATAGAGCTCCAAGCAACTGATGGGCATGACCGTCC
ACTCACCAACTGCTCGATCATCAACAGTGGCAAGATAGACGTGAAAACGCCTTTTGTGGTTGAGATCGCT
GATTGG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201143 protein sequence
 Red=Cloning site Green=Tags(s)

MGPGRLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVIRIGDKDVGRIVIGLFGKVVPKTVENF
 VALATGEKGYGYKGSKFHRVIKDFMIQGGDITTDGDTGGVSIYGETFPDENFKLKHYGIGWVSMANAGPD
 TNGSQFFITLTKPTWLDGKHVVFVKVIDGMTVVHSIELQATDGHDRPLTNCIIINSGKIDVKTPFVVEIA
 DW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6390_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_000943

ORF Size: 636 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_000943.5](#)

RefSeq Size: 1241 bp

RefSeq ORF: 639 bp

Locus ID: 5480

UniProt ID: [P45877](#)

Cytogenetics: 5q23.2

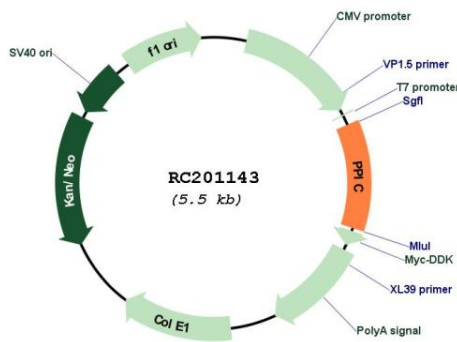
Domains: pro_isomerase

Protein Families: Transmembrane

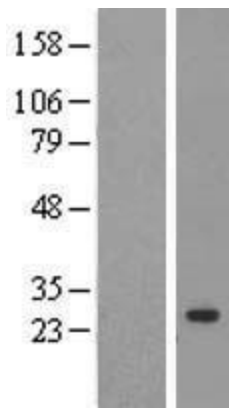
MW: 22.8 kDa

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. Similar to other PPIases, this protein can bind immunosuppressant cyclosporin A. [provided by RefSeq, Jul 2008]

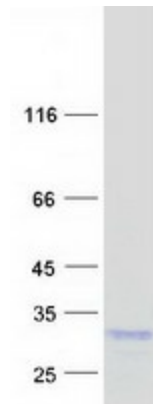
Product images:



Circular map for RC201143



Western blot validation of overexpression lysate (Cat# [LY424438]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201143 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPIC protein (Cat# [TP301143]). The protein was produced from HEK293T cells transfected with PPIC cDNA clone (Cat# RC201143) using MegaTran 2.0 (Cat# [TT210002]).