

Product datasheet for **RC203307**

Cyclophilin A (PPIA) (NM_021130) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyclophilin A (PPIA) (NM_021130) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cyclophilin A
Synonyms: CYPA; CYPH; HEL-S-69p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203307 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAACCCACCGTGTTCCTCGACATTGCCGTCGACGGCGAGCCCTTGGCCCGCTCTCCTTTGAGC
TGTTTGCAGACAAGTCCCAAAGACAGCAGAAAATTTTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGG
TTATAAGGGTTCCTGCTTTCACAGAATTATCCAGGGTTATGTGTCAGGGTGGTACTTACACGCCAT
AATGGCACTGGTCCAAAGTCCATCTATGGGAGAAAATTTGAAGATGAGAAGTCCACCTAAAGCATAACGG
GTCCTGGCATCTGTCCATGGCAAATGCTGGACCAACACAAATGTTCCAGTTTTTCATCTGCACTGC
CAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTGGCAAAGTAAAGAAAGGCATGAATATTGTGGAG
GCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGTGGACAAC
TCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203307 protein sequence
Red=Cloning site Green=Tags(s)

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKFGFYKGSFCFHRIIPGFMCQGGDFTRH
NGTGGKSIYGEKFEDENFTLKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFVKVKEGMNIVE
AMERFGRNGKTSKKITIIADCGQLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

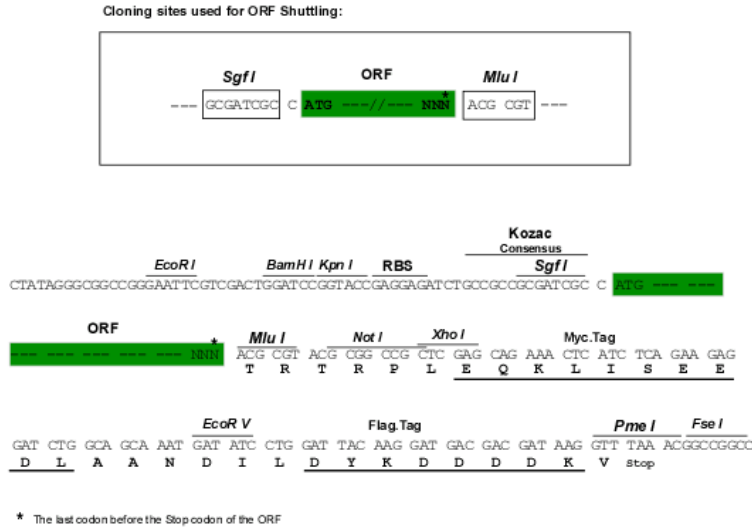
Chromatograms: https://cdn.origene.com/chromatograms/mk6051_e05.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021130

ORF Size: 495 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_021130.5](#)

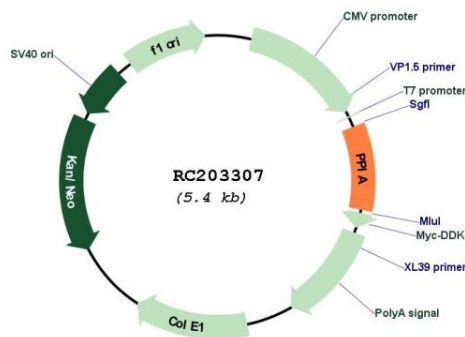
RefSeq Size: 2288 bp

RefSeq ORF: 498 bp

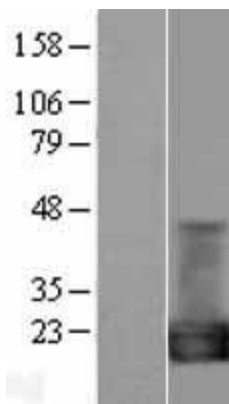
Locus ID: 5478
UniProt ID: [P62937](#)
Cytogenetics: 7p13
Domains: pro_isomerase
MW: 18 kDa

Gene Summary: This gene encodes 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. The encoded protein is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. The protein can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported. [provided by RefSeq, Jul 2008]

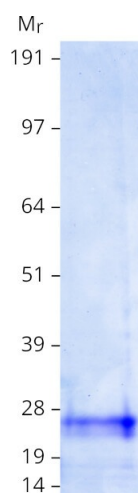
Product images:



Circular map for RC203307



Western blot validation of overexpression lysate (Cat# [LY402839]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPIA protein (Cat# [TP303307]). The protein was produced from HEK293T cells transfected with PPIA cDNA clone (Cat# RC203307) using MegaTran 2.0 (Cat# [TT210002]).