

Product datasheet for **RG203307**

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: TurboGFP
Symbol: Cyclophilin A
Synonyms: CYPA; CYPH; HEL-S-69p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203307 representing NM_021130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCAACCCACCGTGTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGCCCGCTCTCCTTTGAGC
 TGTTTGCAGACAAGTCCCAAAGACAGCAGAAAATTTTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGG
 TTATAAGGGTTCCTGCTTTCACAGAATTATCCAGGGTTATGTGTCAGGGTGGTACTTACACGCCAT
 AATGGCACTGGTCCAAAGTCCATCTATGGGAGAAAATTTGAAGATGAGAAGTCCACCTAAAGCATAACGG
 GTCTTGGCATCTGTCCATGGCAAATGCTGGACCAACACAAATGGTCCAGTTTTTCATCTGCACTGC
 CAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTGGCAAAGTAAAGAAAGGCATGAATATTGTGGAG
 GCCATGGAGCGCTTTGGGTCCAGGAATGCAAGACCAGCAAGAAGATCACCATTGCTGACTGTGGACAAC
 TCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203307 representing NM_021130
 Red=Cloning site Green=Tags(s)

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKFGYKGSFCFHRIIPGFMCQGGDFTRH
 NGTGGKSIYGEKFEDEFNLKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFVKYKEGMNIVE
 AMERFGSRNGKTSKKITIAIDCGQLE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_021130

ORF Size: 495 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

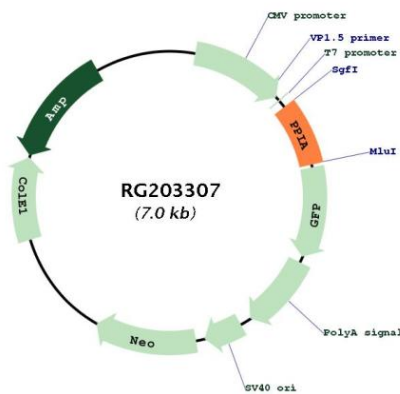
Reconstitution Method:

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_021130.2, NP_066953.1](#)
RefSeq Size: 1652 bp
RefSeq ORF: 498 bp
Locus ID: 5478
UniProt ID: [P62937](#)
Cytogenetics: 7p13
Domains: pro_isomerase

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 RG203307