

## Product datasheet for **RG235643**

### Cyclophilin A (PPIA) (NM\_001300981) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyclophilin A (PPIA) (NM\_001300981) 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:** >RG235643 representing NM\_001300981.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGTCAGGGTGGTACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTT
GAAGATGAGAAGTTCATCCTAAAGCATAACGGTCTGTCATCTTGTCCATGGCAAATGCTGGACCAAC
ACAAATGGTTCCAGTTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGT
GGCAAAGTAAAGAAGGCATGAATATTGTGGAGGCCATGGAGCGCTTTGGTCCAGGAATGGCAAGACC
AGCAAGAAGATCACCATTGCTGACTGTGGACAACCTCGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235643  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MCQGGDFTRHNGTGGKSIYGEKFEDEFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVF
GKVKEGMNIVEAMERFGSRNGKTSKKITIIDCGQLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001300981

**ORF Size:** 315 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).

**RefSeq:** [NM\\_001300981.2](#)

**RefSeq Size:** 2445 bp

**RefSeq ORF:** 318 bp

**Locus ID:** 5478

**UniProt ID:** [P62937](#)

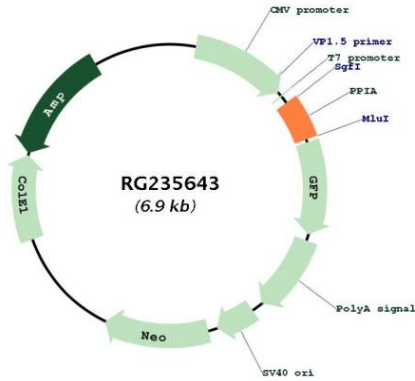
**Cytogenetics:** 7p13

**MW:** 11.9 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 RG235643