

## Product datasheet for **SC111937**

### Cyclophilin A (PPIA) (NM\_021130) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclophilin A (PPIA) (NM_021130) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclophilin A
Synonyms:	CYPA; CYPH; HEL-S-69p
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111937 sequence for NM_021130 edited (data generated by NextGen Sequencing)

```
ATGGTCAACCCCACCGTGTTCCTCGACATTGCCGTCGACGGCAGCCCTTGGGCCGCGTC
TCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATTTTCGTGCTCTGAGC
ACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTT
ATGTGTCAGGGTGGTACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGG
GAGAAATTTGAAGATGAGAACTTCATCCTAAAGCATACGGGTCTGGCATCTTGCCATG
GCAAATGCTGGACCCAACACAAATGGTTCACAGTTTTTCATCTGCACTGCCAAGACTGAG
TGGTTGGATGGCAAGCATGTGGTGTGGCAAAGTAAAGAAGGCATGAATATTGTGGAG
GCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGAC
TGTGGACAACCTCGAATAA
```

Clone variation with respect to NM\_021130.3



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**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_021130 unedited
CGACTCACATAGGCGGCCGCGAAATTCGCACGAGGTGCCACCGCCGAGGAAAAACCGTGT
ACTCTTAGCCATGGTCAACCCACCGTGTCTTCGACATTGCCGTCGACGGCGAAGCCCT
TGGGCCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAAATTTT
CGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATT
ATTCCAGGGTTTATGTGTCAAGGTGGTACTTCACACGCCATAATGGCACTGGTGGCAAG
TCCATCTATGGGAGAAATTTGAAGATGAGAATTCATCCTAANAGCATACGGGTCTGG
CATCTTGCCATGGCAAATGCTGGACCCAAACACAATGGTTCACAGTTTTTCATCTGCAC
TGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGGTGTTTGGCAAAGTAAAAGAAGCAT
GAATATTGTTGGAGGCCATGGAGCGCTTTTGGTCCAGGAATGGCAAGACCAGCAAGAAG
ATCACCATTGNCTGACTGTGGCACTGGAATAAGTTTGACTTTGGTGTATCTTAACC
ACCAGATCATTCTTCTGTAGCTCAGGAGAGCACCCCTCCACCCATTTGCTTCGCAGTA
TCCTAGAATACTTTGTGCTCTCGCCTGCAGTCCCCTCTTGGGTTTCCAATGGTTTTCT
TTGGTCCCTTCCATGCCTAGNCTTGATTGCAAAGNNTAAGTTTATTGATTATGAAAATA
AACTAANNTACANTGCTCCTCGTTTGGATTTAAAAGAGTGGGAATGTAGGCTTTAATTT
AGCAGAAATGGGGTTACTTCTGAAACATNACTTGGTTTGCTTAATTCTAACAGACTTAT
AAAATTTTTTTACCTTTCATCCCCAGAAAGGTAATAGTTTTTGGTGGGGGGAAAAATTT
AAAAAAGTAGGACCAACTGGGCATGGGGGGCTACTGGCTTTGAAATATATACCTGAGCAA
A
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_021130 unedited
CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATGAAAAGAGTTTGATGTTTAT
TTCCACCTTGCACTCAGGTCTGAGCCACAAGTACATTAAGACATTGAATGGTATCACCCA
GGGAATACGTAACCAGACAACACACAAGACTGAGATGCACAAGTGGTGGTGGTAAAT
CACGCAGAAGGAACCAGACAGTAAAACAAAAATTGCCAACACACCAAATGATCAAAATCC
GCCACCTTAGGATAGGCAAACTTGATTGCTGGGTTAAGAACCCTATAGGTCTGTTAAGG
TGGGCAGAGAAGGGGTTTTCTCAGCTTATATTGCTGACATCTAACTGCCAGCAAGCAC
TGTACATATAATTTCTGAGAAACCAAGTCCTTAGTGGGAAGGGTATCCCTTTGACCAGA
TCTTATGGCTTAAATGGTCAAGTTTGCAAAACCTCAAAGCCTCCATAACCAAAGCTAGG
GAGAGGCTCTATATGCTACAAGCAGTACCTCCTCACTGCAGGTAGTCTGCGCCTTAACCC
TCTGCAGGGAGACTGACTGTAGCACCAAGTACCTGGCTTTTTAGACTCTACATAGGAATT
CCACCATAATTAAGATGTATAAACTTGACCTACAGCCTATAGCCAATATGCTTCCCTCA
AGACATCAACAGTGTTCAAGCTTATCTTTGTTACAGAAAATGATGTAGGGTGCGGTGGCT
CACATCTGTAATCTCANCAGTTTGGGAGGCCAAGGCAGGCGCATCAGCTGAGGTCAGAAG
TTGAGACAGNCTGTCAAATGATGAAACCCATCTTACTAACATACAAAAATAGCTGGGCA
TGGTGCACACGCNCGTTATCCAGCTACTCAGAGCTGAGCACCAGATCACTTGATCCAGNA
GCGGAGCTGCNTGANCTAAATACGCCATGCTTCAGGNATAAAATAAAAAGAACGACAGAGT
CTATTTTGAATAGCATCTGAAACACTTAT
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021130

**Insert Size:**

2290 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](mailto: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](#)

**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]  
 Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.