

Product datasheet for **RG223397**

Cyclophilin F (PPIF) (NM_005729) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyclophilin F (PPIF) (NM_005729) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PPIF
Synonyms: Cyp-D; CyP-M; CYP3; CypD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223397 representing NM_005729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCTGCTCTCCGTCGCCGCTCCGTGCCGCTGCGCC
 TCCCCGCGGCCCGCGCTGCAGCAAGGGCTCCGGCAGCCCGTCTCTCTCTCTCCGGGAACCCGCT
 CGTGTACCTGGACGTGGACGCCAACGGGAAGCCGCTCGGCCGCTGGTGTGGAGCTGAAGGCAGATGTC
 GTCCCAAAGACAGCTGAGAACTCAGAGCCCTGTGCACTGGTGAAGGGCTTCGGCTACAAAGGCTCCA
 CCTTCCACAGGGTATCCCTTCTCATGTGCCAGGCGGGGACTTCACCAACCACAATGGCACAGGCGG
 GAAGTCCATCTACGGAAGCCGCTTCTGACGAGAACTTACACTGAAGCACGTGGGGCCAGGTGTCTGT
 TCCATGGCTAATGCTGGTCTAACCAACGGCTCCAGTTCTTCATCTGCACCATAAAGACAGACTGGT
 TGGATGGCAAGCATGTTGTGTTCCGGTACGTCAAAGAGGGCATGGACGTCGTGAAGAAAATAGAATCTTT
 CGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223397 representing NM_005729
 Red=Cloning site Green=Tags(s)

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADV
 VPKTAENFRALCTGEKGFYKGSFHRVIPFMQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLS
 SMANAGPNTNGSQFFICTIKTDWLDGKHVVFVGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

TRTRPLE - GFP Tag - V

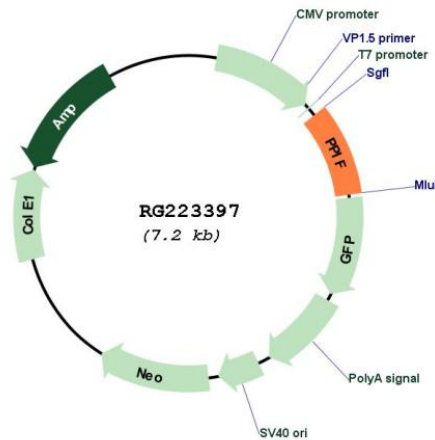
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_005729

ORF Size: 621 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.

RefSeq: [NM_005729.4](#)

RefSeq Size: 2213 bp

RefSeq ORF: 624 bp

Locus ID: 10105

UniProt ID: [P30405](#)

Cytogenetics: 10q22.3

Domains: pro_isomerase

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. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death. [provided by RefSeq, Jul 2008]