

## Product datasheet for **MG202183**

### Ppif (NM\_134084) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ppif (NM\_134084) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ppif  
**Synonyms:** AW457192; CyP-D; CyP-F; CypD; PPIase  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202183 representing NM\_134084  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTAGCGCTGCGTTGCGGCCCGCTGCTCGGTCTGCTCTCCGGCCCGCTCCGCGCCGCTGCTCC  
 TCTCCGACCCGTACCTGCAGCGACGGCGGAGCCCGCGCGCAACTCTTCTCCGGGAACCCGCTCGT  
 GTACTTGGACGTGGCGCCGATGGACAGCCGCTCGCCCGTGGTCTGGAGTTAAAGGCAGATGTCGTG  
 CCAAAGACTGCAGAGAACTTCAGAGCCCTATGCACTGGTGAAGGGCTTTGGCTACAAAGGCTCCACCT  
 TCCACAGGTGATCCCAGCCTTCATGTGCCAGGCTGGCGACTTACCAACCACAATGGCACAGGAGGGAG  
 GTCATCTACGGAAGCCGCTTCCCGACGAGAATTCACACTGAAGCATGTGGGGCCAGGTGTCCTGTCC  
 ATGGCGAACGCAGGCCCAACACCAATGGCTCTCAGTTCTTTATCTGCACGATAAAGACAGACTGGCTAG  
 ATGGCAAGCATGTCGTGTTCCGCCATGTCAAAGAGGGCATGGATGTTGTGAAGAAAATAGAATCTTTCGG  
 CTCAAAAAGTGGGAAGACGCTAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202183 representing NM\_134084  
 Red=Cloning site Green=Tags(s)

MLALRCGPRLGLLSGPRAPLLL SATRTCSDGGARGANSSSGNPLVYLLDVGADGQPLGRVVLELKADV  
 PKTAENFRALCTGEKGFYKGSTFHRVIPAFMCQAGDFTNHNGTGGRSIYGSRFPDENFTLKHVGPVLS  
 MANAGPNTNGSQFFICTIKTDWLDGKHVVFVGHVKEGMDVVKKIESFGSKSGKTSKKIVITDCGQLS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI





**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\\_134084.1](#), [NP\\_598845.1](#)

**RefSeq Size:** 1560 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 105675

**UniProt ID:** [Q99KR7](#)

**Cytogenetics:** 14 A3

**Gene Summary:** PPlase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding. Involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with the mPTP is masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis; the requirement of the PPlase activity for this function is debated. In cooperation with mitochondrial TP53 is involved in activating oxidative stress-induced necrosis. Involved in modulation of mitochondrial membrane F(1)F(0) ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis.[UniProtKB/Swiss-Prot Function]