

## Product datasheet for **MG202008**

### Pttg1 (BC023324) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pttg1 (BC023324) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Pttg1  
**Synonyms:** PTTG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202008 representing BC023324  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTACTCTTATCTTTGTTGATAAGGATAATGAAGAACCCGGCAGCCGTTTGGCTTCTAAGGATGGGT  
 TGAAGCTGGGCTCTGGTGTCAAGGCCTTAGATGGGAAATTGCAGGTTTCAACGCCTCGAGTCGGCAAAGT  
 GTTCAATGCTCCAGCCTTGCCCTAAAGCCAGCAGAAAGGCTTTGGGACAGTCAACAGAGTTGCCGAAAAG  
 CCTATGAAGACTGGTAAACCCCTCAACCAAAACAGCCGACCTTGACTGGGAAAAAGATCACCGAGAAGT  
 CTACTAAGACACAAAGTTCTGTTCTGCTCTGATGATGCCTACCCAGAAATAGAAAAGTTCTTCCCTTT  
 CAATCCTCTAGATTTTGAGAGTTTTGACCTGCCTGAGGAGCACCAGATCTCACTTCTCCCCTTGAATGGC  
 GTGCCCTCATGACCCTGAATGAAGAGAGAGGGCTGGAGAAGCTGCTGCATCTGGGCCCCCTAGCCCTC  
 TGAAGACACCCTTTCTATCATGGGAATCTGATCCGCTGTACTCTCTCCAGTGCCTCTCCACTCTGGA  
 TGTTGAATTGCCACCTGTTTGTACGATGCAGATATT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202008 representing BC023324  
 Red=Cloning site Green=Tags(s)

MATLIFVDKDNEEPGSRSLASKDGLKLGSGVKALDGKLVQSTPRVGKVFNAPALPKASRKALGTVNRVAEK  
 PMKTGKPLQPKQPTLTGKKITEKSTKTQSSVPAPDDAYPEIEKFFPNPLDFESFDLPEEHQISLLPLNG  
 VPLMTLNEERGLEKLLHLGPPSPLKTPFLSWESDPLYSPPSALSTLDVELPPVCYDADI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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:** [BC023324](#), [AAH23324](#)

**RefSeq Size:** 746 bp

**RefSeq ORF:** 599 bp

**Locus ID:** 30939

**Cytogenetics:** 11 B1.1

**Gene Summary:** Regulatory protein, which plays a central role in chromosome stability, in the p53/TP53 pathway, and DNA repair. Probably acts by blocking the action of key proteins. During the mitosis, it blocks Separase/ESPL1 function, preventing the proteolysis of the cohesin complex and the subsequent segregation of the chromosomes. At the onset of anaphase, it is ubiquitinated, conducting to its destruction and to the liberation of ESPL1. Its function is however not limited to a blocking activity, since it is required to activate ESPL1. Negatively regulates the transcriptional activity and related apoptosis activity of p53/TP53. The negative regulation of p53/TP53 may explain the strong transforming capability of the protein when it is overexpressed. May also play a role in DNA repair via its interaction with Ku, possibly by connecting DNA damage-response pathways with sister chromatid separation (By similarity). [UniProtKB/Swiss-Prot Function]