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Product datasheet for MC206872

Pttg1 (BC023324) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pttg1 (BC023324) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pttg1
Synonyms:	PTTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206872 representing BC023324. Blue=ORF Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCTACTCTTATCTTTGTTGATAAGGATAATGAAGAACCCGGCAGCCGTTTGGCTTCTAAGGATGGG TTGAAGCTGGGCTCTGGTGTCAAGGCCTTAGATGGGAAATTGCAGGTTTCAACGCCTCGAGTCGGCAAA GTGTTCAATGCTCCAGCCTTGCCTAAAGCCAGCAGAAAGGCTTTGGGGACAGTCAACAGAGTTGCCGAA AAGCCTATGAAGACTGGTAAACCCCTCCAACCAAAACAGCCGACCTTGACTGGGAAAAAGATCACCGAG AAGTCTACTAAGACACAAAGTTCTGTTCCTGCTCCTGATGATGCCTACCCAGAAATAGAAAAGTTCTTC CCTTTCAATCCTCTAGATTTTGAGAGTTTTGACCTGCCTGAGGAGCACCAGATCTCACTTCTCCCCTTG AATGGCGTGCCTCTCATGACCCTGAATGAAGAGAGAGGGCTGGAGAAGCTGCTGCATCTGGGCCCCCCT AGCCCTCTGAAGACACCCTTTCTATCATGGGAATCTGATCCGCTGTACTCTCCTCCCAGTGCCCTCTCC ACTCTGGATGTTGAATTGCCACCTGTTTGTTACGATGCAGATATTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	BC023324
Insert Size:	600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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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:	BC023324
RefSeq Size:	746 bp
RefSeq ORF:	599 bp
Locus ID:	30939
Cytogenetics:	11 B1.1
MW:	21.7 kDa
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]

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