

Product datasheet for RR214617L4

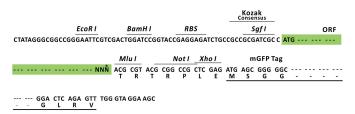
Pttg1 (NM_022391) Rat Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Pttg1 (NM_022391) Rat Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Pttg1
Synonyms:	Pttg
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR214617).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling: Sgf I ORF Mlu I GCG ATC GC ATG // NNŇ ACG CGT

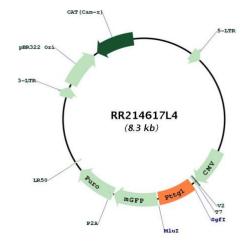


* The last codon before the Stop codon of the ORF.



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Plasmid Map:



he gene accession number as a point of uences of the same gene can differ through s), each with its own valid existence. This ence, but a complete review of all prevailing
e ORF with an expression tag. Expression
nd shipped in a 2D barcoded Matrix tube nid DNA (reconstitute with 100 ul of water).
e water to dissolve the DNA. oom temperature. (less than 5000xg) to concentrate the liquid (is stable for at least one year from date of

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	Pttg1 (NM_022391) Rat Tagged Lenti ORF Clone – RR214617L4
Locus ID:	64193
UniProt ID:	<u>P97613</u>
Cytogenetics:	10q21
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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