

## Product datasheet for **RG207144**

### PPM1K (NM\_152542) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1K (NM_152542) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1K
Synonyms:	BDP; MSUDMV; PP2Ckappa; PP2Cm; PTMP; UG0882E07
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207144 representing NM_152542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAACAGCTGCCTTAATTACTTTGGTCAGAAAGTGGTGGGAACCAGGTGAGAAGGAGAGTGCTGCTAA  
GCTCCCGCTGCTGCAGGACGACAGGCGGGTGACACCCACGTGCCACAGCTCCACTTCAGAGCCTAGGTG  
TTCTCGGTTTGACCCAGATGGTAGTGGGAGTCCAGCTACCTGGGACAATTTGGGATCTGGGATAACCGC  
ATTGATGAGCCAATTCTGCTGCCACCCAGCATTAAAGTATGGCAAGCCAATCCCAAAATCAGCTTGAAA  
AGGTGGGGTGCCTCACAGATTGGCAAACGAAAGAGAATGAAGATCGGTTTGACTTCGCTCAGCTGAC  
AGATGAGGTCTGTACTTTGCAGTGTATGATGGACACGGTGGACCTGCAGCAGCTGATTTCTGTCATACC  
CACATGGAGAAATGTATTATGGATTTGCTTCTAAGGAGAAGAATTGGAAACTCTGTTGACCTTGCTT  
TTCTAGAAATAGATAAAGCCTTTTCGAGTCATGCCCGCTGTCTGCTGATGCAACTCTTCTGACCTCTGG  
GACTACTGCAACAGTAGCCCTATTGCGAGATGGTATTGAACTGGTTGTAGCCAGTGTGGGGACAGCCGG  
GCTATTTGTGTAGAAAAGGAAAACCATGAAGCTGACCATTGACCATACTCCAGAAAAGAAAAGATGAAA  
AAGAAAGGATCAAGAAATGTGGTGGTTTTGTAGCTTGGAAATGTTGGGGCAGCCTCACGTAATGGCAG  
GCTTGAATGACAAGAAGTATTGGAGATTTGGACCTTAAGACCAGTGGTGTATAGCAGAACCTGAAACT  
AAGAGGATTAAGTTACATCATGCTGATGACAGCTTCTGGTCTCACCACAGATGGAATTAACCTCATGG  
TGAATAGTCAAGAGATTTGTACTTTGTCAATCAGTGCCATGATCCCAACGAAGCAGCCCATGCGGTGAC  
TGAACAGGCAATACAGTACGGTACTGAGGATAACAGTACTGCAAGTAGTAGTGCCTTTTGGTGCCTGGGGA  
AAATATAAGAAGCTGAAATCAACTTCTCATTACGAGAAGCTTTGCCTCCAGTGACGATGGGCC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207144 representing NM\_152542  
 Red=Cloning site Green=Tags(s)

MSTAALITLVRSGGNQVRRRVLLSSRLLQDDRRVTPTCHSSTSEPRCSRFDPDGSGSPATWDFNGIWDNR  
 IDEPILLPPSIKYGKPIPKISLEKVGCAEQIGKRKENERDFDFAQLTDEVLYFAVYDGHGGPAAADFCHT  
 HMEKCIMDLLPKEKNLETLTFLAFLAIDKAFSSHARLSADATLLTSGTTATVALLRDGIELVVASVGDSR  
 AILCRKGGKPKMLTIDHTPERKDEKERIKKCGGFVAWNSLGQPHVNGRLAMTRSIGDLDLKTSGVIAEPET  
 KRIKLHHADDSFLVLTDDGINFMVNSQEICDFVNQCHDPNEAAHAVTEQAIIQYGTEDNSTAVVVVPGAWG  
 KYKNSEINFSFSRSFASSGRWA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152542

**ORF Size:** 1116 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\\_152542.2](#), [NP\\_689755.2](#)

**RefSeq Size:** 2103 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 152926

**UniProt ID:** [Q8N3J5](#)

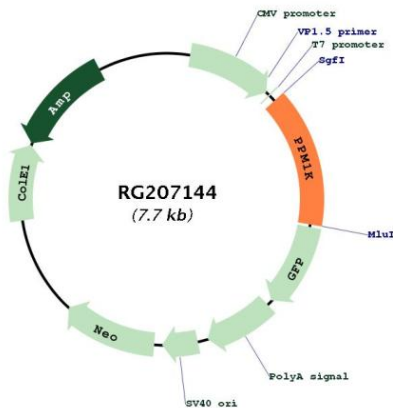
**Cytogenetics:** 4q22.1

**Domains:** PP2C

**Protein Families:** Phosphatase

**Gene Summary:** This gene encodes a member of the PPM family of Mn<sup>2+</sup>/Mg<sup>2+</sup>-dependent protein phosphatases. The encoded protein, essential for cell survival and development, is targeted to the mitochondria where it plays a key role in regulation of the mitochondrial permeability transition pore. [provided by RefSeq, Sep 2012]

## Product images:



Circular map for RG207144