

Product datasheet for **MG209290**

Ppm1d (BC051966) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1d (BC051966) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppm1d
Synonyms:	AV338790; Wip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209290 representing BC051966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGCTGTACTCGCTGGGAGTGAGCGTCTTCTCGGACCAGGGCGGGAGGAAGTACATGGAGGACG
 TAACTCAGATCGTGGTGGAGCCCGAGCCGGCTGCGGAGGACAAGCCGGCCGGTACCGCGCGGGCGCT
 CGGGTTGCCGGCGACCCCACTCTCGCCGGCGTGGGCCATCGGAAAAAGGCCCGATGGCGGCCCGCGAC
 CCTGCCCGGACGCCGGCCTCGCTACCCGCTGGCCGCTGCTGTGCGCCCGCTCTTCGGTGGCCTTCT
 TTGCAGTGTGCGACGGGACGGCGGTGGGAGGCGGCACAGTTTGCCGGGAGCACTTGTGGGTTTCAT
 CAAGAAGCAGAAAGGCTTCACTCGTCCGAGCCCGCAAGGTGTGCGCTGCCATCCGCAAAGGTTTCCTC
 GCCTGTCACTCGCCATGTGAAGAAATGGCAGAATGGCCAAAGACTATGACAGGTCTTCCAGCACGT
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 AAGCCAGAATTCCCAAGGAAAGAGAAAGAATCGAAGGACTTGGCGGCAGTGTGATGAACAAGTCTGGAG
 TGAACCGAGTAGTTTGGAAAAGGCCCGGCTCACTCACAGTGGACCTGTGAGAAGGAGCACAGTCATTGA
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 AGGTCCCAGCTGAGATAGCTAGAGGGAATATCCAGACTGTAGTGTGACCTCAAAAGACTCAGAGACACT
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 CTCATTCCAACCAATTCAACAAATACTATCATGGACCAAAAAAATTAAGATGTCAACTCCAGGTCAA
 TGAAGCTCAAGAAGTTGAAAGAACCCTCCAGCCAATTTAAAAGGACATTAGAAGAATCCAACCTGG
 CCCCTTATGAAGAAGCACCGACGAAATGGCTTAAGTGAAGTAGCGGGCCAGGCTTCCAGTCTCCCT
 ACAGCATCCAGCGCAGGCACTGTCAAACCTGACCTGAGGCGCAGACTCAGGGCCAGAGGAAGATGG
 GAAATCCTCTTCCACCAGCACCGAAAACAGTGTGTGTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209290 representing BC051966
 Red=Cloning site Green=Tags(s)

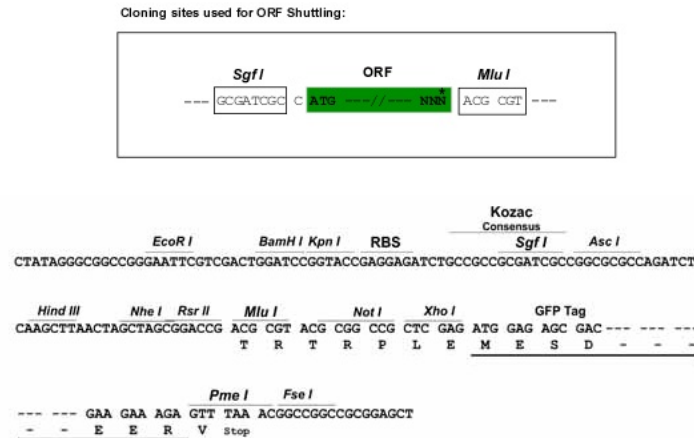
MAGLYSLGVSVFSDQGGGRKYMEDVTQIVVEPEPAEDKPAPVPRRALGLPATPTLAGVGPSEKGPMAARD
 PAPDAAAALPAGRCCRRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFSSSEPAKVCAAIRKGF
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 FVVSPEPDTSVHTLDPRKHKYIILGSDGLWNMVPQDAISMCQDQEEKYLMEGQQSCAKMLVNRALGR
 WRQRLRADNTSAIVICISPEVDNQGNFTNEDELFLNLTDSPTYNSQETCVMTSSPSTPPIKSPEEDAW
 PRLSSKDHIPALVRSNAFSEKFLEVPAEIARGNIQTVVMTSKDSETLEENCPKALTLRIHDSLNTLSVG
 LIPTNSTNTIMDQKNLKMSTPGQKMQAEVERTPPANFKRTLEESNSGPLMKHRRNGLSRSSGAQASSLP
 TASQRRHSVKLTLRRRLRQRKMGNPLLHQHRKTVCV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC051966

ORF Size: 1794 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: [BC051966](#), [AAH51966](#)

RefSeq Size: 2908 bp

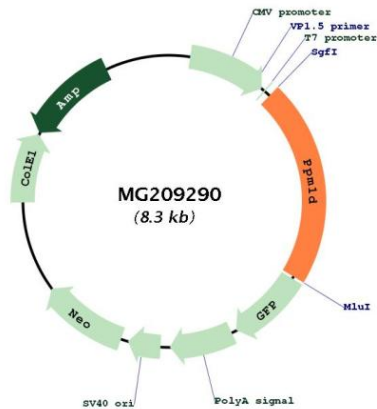
RefSeq ORF: 1796 bp

Locus ID: 53892

Cytogenetics: 11 51.34 cM

Gene Summary:

Involved in the negative regulation of p53 expression. Required for the relief of p53-dependent checkpoint mediated cell cycle arrest. Binds to and dephosphorylates 'Ser-15' of TP53 and 'Ser-345' of CHEK1 which contributes to the functional inactivation of these proteins. Mediates MAPK14 dephosphorylation and inactivation (By similarity). Is also an important regulator of global heterochromatin silencing and critical in maintaining genome integrity (PubMed:24135283).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG209290