

Product datasheet for **MG209279**

Ppm1d (BC023492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1d (BC023492) 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:

>MG209279 representing BC023492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGCTGTACTCGCTGGGAGTGAGCGTCTTCTCGGACCAGGGCGGGAGGAAGTACATGGAGGACG
 TAACTCAGATCGTGGTGGAGCCCGAGCCGGCTGCGGAGGACAAGCCGGCCGGTACCGCGCGGGCGCT
 CGGGTTGCCGGCGACCCCACTCTCGCCGGCGTGGGCCATCGGAAAAAGCCCGCGCGGGCCCGCGAC
 CCTGCCCGGACGCCGGCCTCGCTACCCGCTGGCCGCTGCTGTGCGCCGCGCTCTTCGGTGGCCTTCT
 TTGCAGTGTGCGACGGGACGGCGGTGGGAGGCGGCACAGTTTGCCCGGAGCACTTGTGGGTTTCAT
 CAAGAAGCAGAAAGGCTTCACTCGTCCGAGCCCGCAAGGTGTGCGCTGCCATCCGCAAAGGTTTCCTC
 GCCTGTCACTCGCCATGTGAAGAAACTGGAATGGCCAAAGACTATGACAGGTCTTCCAGCACGTCCG
 GGACAAGTCCAGTGTGGTTATAATACGGGCGATGAAGATGTATGTAGCCATGTAGGTGACTCTGGGT
 GGTCTTGAATTCAGGATGACCAAGGATGATTTTGTGAGAGCTGTGGAGGTGACACAAGATCACAAG
 CCAGAACTTCCAAGGAAAGAGAAAGAATCGAAGGACTTGGCGGAGTGTGATGAACAAGTCTGGAGTGA
 ACCGAGTAGTTTGAAAAAGGCCCGGCTCACTCACAGTGGACCTGTCAGAAGGAGCACAGTCATTGACCA
 GATTCTTTTCTGGCTGTAGCAAGAGCGCTTGGTACTTGTGGAGCTATGATTTCTTCAAGTGGTAAGTTT
 GTGGTGTACCTGAACGAGACCCAGTGTCCACTCTTGACCCCGGAAGCACAAGTATATTATCTCGG
 GAAGTGTGACTTTGGAATATGGTTCACCTCAAGATGCCATCTCCATGTGCCAAGACCAAGAGGAGAA
 AAAACTTGTATGGGTGAGCAAGGACAGTCTGTGCCAAAATGCTTGTGAATCGAGCACTTGGCCGCTGG
 AGGCAGCGTATGCTTTCGGCAGATAACACAAGTCCATCGTAATCTGCATCTTCCAGAAGTAGACAACC
 AAGGGAACCTCACCAATGAAGATGAGCTCTTTTGAACCTGACTGATAGCCCTACTTACAACAGCCAGGA
 GACCTGTGTGACTTCTTCTCAAGTCTACACCACCAATCAAGTACCGGAAGAAGATGCATGGCCA
 AGGCTGAGCTCTAAGGACCATATACCTGCCCTTGTTCGAGTAATGCCTTCTCAGAGAAGTTTTAGAGG
 TCCAGCTGAGATAGCTAGAGGGAATATCCAGACTGTAGTGTGACTCAAAAGACTCAGAGACACTTGA
 AGAAAAATGCCCAAAGCCCTGACTTTAAGGATTCATGATTCTTTGAATAATACTCTGTCAGTTGGCCTC
 ATTCCAACCAATTCAACAAATACTATCATGGACCAAAAAAATTAAGATGTCAACTCCAGGTCAAATGA
 AAGCTCAAGAAGTTGAAAGAACCCTCCAGCAATTTTAAAGGACATTAGAAGAATCCAACCTCTGGCCC
 CCTTATGAAGAAGCACCAGCAAATGGCTTAAGTCAAGTAGCGGGGCCAGGCTTCCAGTCTCCCTACA
 GCATCCCAGCGCAGGCACTCTGTCAAAGTACCCTGAGGCGCAGACTCAGGGGCCAGAGGAAGATGGGAA
 ATCCTCTTCTCCACCAGCACCGAAAACAGTGTGTGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209279 representing BC023492
 Red=Cloning site Green=Tags(s)

MAGLYSLGVSVFSDQGGGRKYMEDVTQIVVEPEPAEDKPAPVPRRALGLPATPTLAGVGPSEKGPAAARD
 PAPDAAASLPAGRCCRRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFSSSEPAKVCAAIRKGF
 ACHLAMWKKLEWPKTMTGLPSTSGTTASVVIIRGMKMYVAHVGDGSGVVLGIQDDPKDDFVRAVEVTQD
 PELPKERERIEGLGGSVMNKSQVNRVVKRPRLTHSGPVRSTVIDQIPFLAVARALGDLWSYDFSGKF
 VVSPPEPDTSVHTLDPRKHKYIILGSDGLWNMPPQDAISMCQDQEEKYLMEQQQSCAKMLVNRALGRW
 RQRMLRADNTSAIVICISPEVDNQNFNEDELFLNLDSPYNSQETCVMTSSPSTPPIKSPEEDAWP
 RLSSKDHIPLVRSNAFSEKFLEVPAAEIAARGNIQTVVMTSKDSETLEENCPKALTLRIHDSLNTLSVGL
 IPTNSTNTIMDQNLKMSTPGQMKAEVERTPPANFKRTLEESNSGPLMKHRRNGLSRSSGAQASSLPT
 ASQRRHSVKLTLRRRLRGQRKMGNPLLHQHRKTVVCV

TRTRPLE – GFP Tag – V

Restriction Sites:

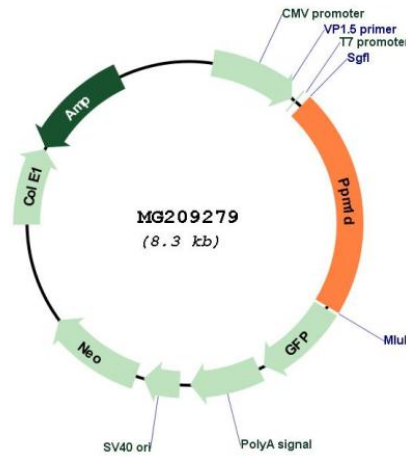
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC023492

ORF Size: 1791 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:	<ol style="list-style-type: none">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:	BC023492.1
RefSeq Size:	2023 bp
RefSeq ORF:	1793 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]