

# Product datasheet for RC209328

# PPM1D (NM\_003620) Human Tagged ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPM1D (NM_003620) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPM1D
Synonyms:	IDDGIP; JDVS; PP2C-DELTA; WIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

#### OriGene Technologies, Inc.

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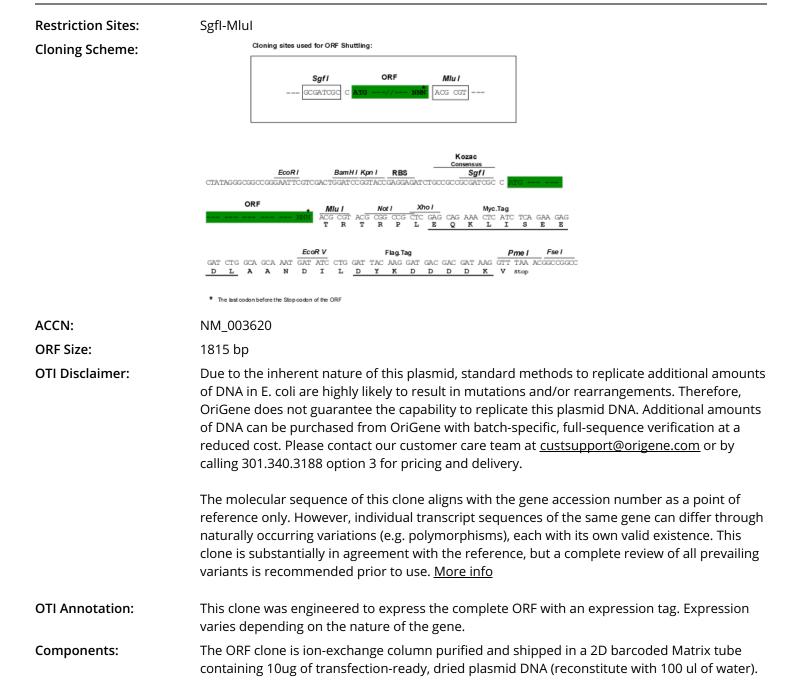


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	PPM1D (NM_003620) Human Tagged ORF Clone – RC209328
ORF Nucleotide Sequence:	<pre>&gt;RC209328 representing NM_003620 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGGGGCTGTACTCGCTGGGAGTGAGCGTCTTCTCCCGACCAGGGCGGGAGGAAGTACATGGAGGACG TTACTCAAATCGTTGTGGAGCCCGAACCGAA
Protein Sequence:	ACAAGGATGACGACGATAAGGTTTAA e: >RC209328 representing NM_003620
Frotein Sequence.	Red=Cloning site Green=Tags(s)
	MAGLYSLGVSVFSDQGGRKYMEDVTQIVVEPEPTAEEKPSPRRSLSQPLPPRPSPAALPGGEVSGKGPAV AAREARDPLPDAGASPAPSRCCRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFTSSEPAKVCA AIRKGFLACHLAMWKKLAEWPKTMTGLPSTSGTTASVVIIRGMKMYVAHVGDSGVVLGIQDDPKDDFVRA VEVTQDHKPELPKERERIEGLGGSVMNKSGVNRVVWKRPRLTHNGPVRRSTVIDQIPFLAVARALGDLWS YDFFSGEFVVSPEPDTSVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCQDQEEKKYLMGEHGQSCAKML VNRALGRWRQRMLRADNTSAIVICISPEVDNQGNFTNEDELYLNLTDSPSYNSQETCVMTPSPCSTPPVK SLEEDPWPRVNSKDHIPALVRSNAFSENFLEVSAEIARENVQGVVIPSKDPEPLEENCAKALTLRIHDSL NNSLPIGLVPTNSTNTVMDQKNLKMSTPGQMKAQEIERTPPTNFKRTLEESNSGPLMKKHRRNGLSRSSG AQPASLPTTSQRKNSVKLTMRRRLRGQKKIGNPLLHQHRKTVCVC
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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### Section 2012 CRIGENE PPM1D (NM\_003620) Human Tagged ORF Clone – RC209328



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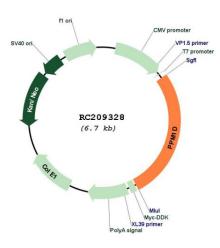
# **PPM1D (NM\_003620) Human Tagged ORF Clone - RC209328**

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 003620.4</u>
RefSeq Size:	3163 bp
RefSeq ORF:	1818 bp
Locus ID:	8493
UniProt ID:	<u>015297</u>
Cytogenetics:	17q23.2
Domains:	PP2C
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	p53 signaling pathway
MW:	66.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53- mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development. [provided by RefSeq, Jul 2008]

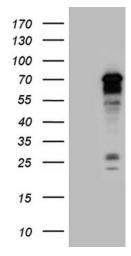
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## **Product images:**

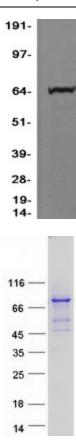


Circular map for RC209328



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPM1D (Cat# RC209328, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPM1D (Cat# [TA811187])(1:2000). Positive lysates [LY418539] (100ug) and [LC418539] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY418539]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209328 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PPM1D protein (Cat# [TP309328]). The protein was produced from HEK293T cells transfected with PPM1D cDNA clone (Cat# RC209328) using MegaTran 2.0 (Cat# [TT210002]).

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