

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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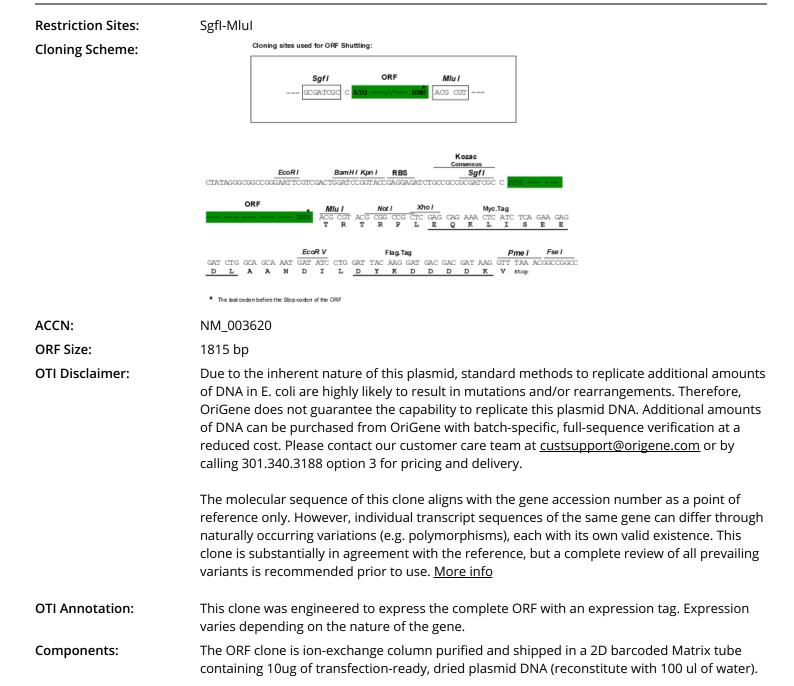


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	PPM1D (NM_003620) Human Tagged ORF Clone – RC209328
ORF Nucleotide Sequence:	<pre>>RC209328 representing NM_003620 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</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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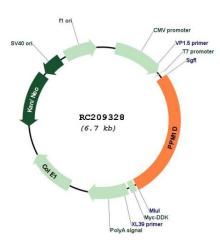
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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
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]

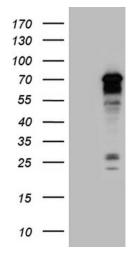
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Product images:

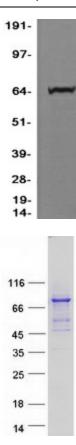


Circular map for RC209328



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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