

Product datasheet for **TP313685L**

PPM1G (NM_177983) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform (PPM1G), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213685 protein sequence Red =Cloning site Green =Tags(s)

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFVSVDGHGGEEVALY
CAKYLPTDIKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDDEKEKVADEDDVDNE
EAALLHEEATMTIEELLTRYGQNCHKGPPHSKSGGGTGEEPGSQGLNGEAGPEDSTRETSPQENGPTAKA
YTGFSNSERGTGTEAGQVGEPIGTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDDEEEDS
EDGYSSEEAENEDEDDTEEAEDDEEEEMMVPGMGKEEPGSDSGTTAVVALIRGKQLIVANAGDSR
CVVSEAGKALDMSYDHPPEDEVELARIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRNKNLPPEEQMISA
LPDIKVLTLTDDHEFMVIACDGIWNVMSSQEVWDFIQSKISQRDENGELRLLSSIVEELLDQCLAPDTSG
DGTGCDNMTCIICFKPRNTAELQPESGKRKLEEVLPSTEGAEENGNSDKKKKAKRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	59.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	In vitro phosphatase assay (PMID: 25658463)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_817092](#)

Locus ID: 5496

UniProt ID: [O15355](#), [Q6IAU5](#)

RefSeq Size: 2302

Cytogenetics: 2p23.3

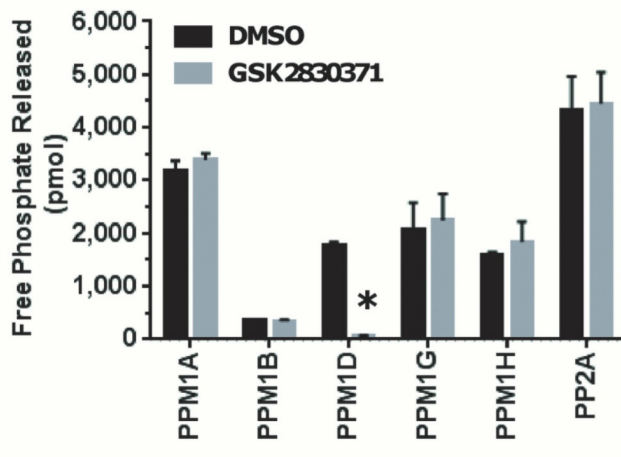
RefSeq ORF: 1638

Synonyms: PP2CG; PP2CGAMMA; PPP2CG

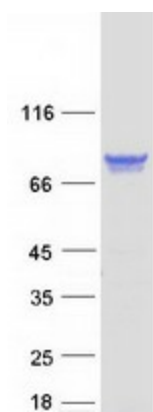
Summary: The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. [provided by RefSeq, Apr 2010]

Protein Families: Druggable Genome, Phosphatase

Product images:



Release of free phosphate was measured after incubation of different protein phosphatases, including PPM1G (OriGene [TP313685]), with the generic phosphopeptide, RRA (pT)VA. * $p < 0.01$. Figure cited from PLoS ONE, PMID: 25658463



Coomassie blue staining of purified PPM1G protein (Cat# [TP313685]). The protein was produced from HEK293T cells transfected with PPM1G cDNA clone (Cat# [RC213685]) using MegaTran 2.0 (Cat# [TT210002]).