

# Product datasheet for TP760519

# PPP4C (NM\_002720) Human Recombinant Protein

## **Product data:**

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**OriGene Technologies, Inc.** 

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human protein phosphatase 4, catalytic subunit (PPP4C), full length, with N-terminal HIS tag, expressed in E.Coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length PPP4C
Tag:	N-His
Predicted MW:	34.9 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, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
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.
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:	<u>NP 002711</u>
Locus ID:	5531
UniProt ID:	<u>P60510, A0A024R625</u>
RefSeq Size:	1429
Cytogenetics:	16p11.2
RefSeq ORF:	921
Synonyms:	PP-X; PP4; PP4C; PPH3; PPP4; PPX



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#### **GRIGENE** PPP4C (NM\_002720) Human Recombinant Protein – TP760519

Summary: Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on Ser-140 (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to chromatin.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome, Phosphatase

### **Product images:**



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