

Datasheet for ABIN7555018  
**PPP4R2 Protein (AA 1-417) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PPP4R2
Protein Characteristics:	AA 1-417
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP4R2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant PPP4R2 Protein expressed in mammalian cells.
Sequence:	MDVERLQEAL KDFEKRGGKE VCPVLDQFLC HVAKTGETMI QWSQFKGYFI FKLEKVMDDF RTSAPEPRGP PNPNVEYIPF DEMKERILKI VTGFNGIPFT IQRLCELLTD PRRNYTGTDK FLRGVEKNVM VVSCVYPSSE KNNSNSLNRM NGVMFPGNSP SYTERSNING PGTPLNRP KVLSAPMTT NGLPESTD SK EANLQQNEEK NHSDSSTSES EVSSVSPLKN KHPDEDAVEA EGHEVKRLRF DKEGEVRETA SQTTSSEISS VMVGETEASS SSQDKDKDSR CTRQHCTEED EEEEEEEEEE SFMFSREMIP ERKNQEKESD DALTVNEETS EENNQMEESD VSQAEKDLLH SEGSENEGPV SSSSSDCRET EELVGSNSSK TGEILSESSM ENDDEATEVT DEPMEQD <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

PPP4R2

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### Alternative Name:

PPP4R2 ([PPP4R2 Products](#))

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### Background:

Serine/threonine-protein phosphatase 4 regulatory subunit 2,FUNCTION: Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers. Its interaction with the SMN complex leads to enhance the temporal localization of snRNPs, suggesting a role of PPP4C in maturation of spliceosomal snRNPs. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AX phosphorylated on 'Ser-140' (gamma-H2AX) generated during DNA replication and required for DNA double strand break repair. Mediates RPA2 dephosphorylation by recruiting PPP4C to RPA2 in a DNA damage-dependent manner. RPA2 dephosphorylation is required for the efficient RPA2-mediated recruitment of RAD51 to chromatin following double strand breaks, an essential step for DNA repair. {ECO:0000269|PubMed:10769191, ECO:0000269|PubMed:12668731, ECO:0000269|PubMed:18614045, ECO:0000269|PubMed:20154705}.

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### Molecular Weight:

46.9 kDa

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## Target Details

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UniProt: [Q9NY27](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months