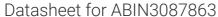
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## PPP2R2D Protein (AA 1-453) (Strep Tag)





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#### Overview

Quantity:	1 mg
Target:	PPP2R2D
Protein Characteristics:	AA 1-453
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP2R2D protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

MAGAGGGCP AGGNDFQWCF SQVKGAIDED VAEADIISTV EFNYSGDLLA TGDKGGRVVI
FQREQENKSR PHSRGEYNVY STFQSHEPEF DYLKSLEIEE KINKIRWLPQ QNAAHFLLST
NDKTIKLWKI SERDKRAEGY NLKDEDGRLR DPFRITALRV PILKPMDLMV EASPRRIFAN
AHTYHINSIS VNSDHETYLS ADDLRINLWH LEITDRSFNI VDIKPANMEE LTEVITAAEF
HPHQCNVFVY SSSKGTIRLC DMRSSALCDR HSKFFEEPED PSSRSFFSEI ISSISDVKFS
HSGRYMMTRD YLSVKVWDLN MESRPVETHQ VHEYLRSKLC SLYENDCIFD KFECCWNGSD
SAIMTGSYNN FFRMFDRDTR RDVTLEASRE SSKPRASLKP RKVCTGGKRR KDEISVDSLD
FNKKILHTAW HPVDNVIAVA ATNNLYIFQD KIN

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics: Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

# **Product Details** >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** PPP2R2D Target: Alternative Name: PPP2R2D (PPP2R2D Products) Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform (PP2A Background: subunit B isoform B55-delta) (PP2A subunit B isoform PR55-delta) (PP2A subunit B isoform R2delta) (PP2A subunit B isoform delta), FUNCTION: B regulatory subunit of protein phosphatase 2A (PP2A) that plays a key role in cell cycle by controlling mitosis entry and exit. The activity of PP2A complexes containing PPP2R2D (PR55-delta) fluctuate during the cell cycle: the activity is high in interphase and low in mitosis. During mitosis, activity of PP2A is inhibited via interaction with phosphorylated ENSA and ARPP19 inhibitors. Within the PP2A complexes, the B regulatory subunits modulate substrate selectivity and catalytic activity, and may also direct the localization of the catalytic enzyme to a particular subcellular compartment (By similarity). {ECO:0000250}. 52.0 kDa Molecular Weight: UniProt: Q66LE6 Application Details **Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

modifications.

even the most difficult-to-express proteins, including those that require post-translational

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional

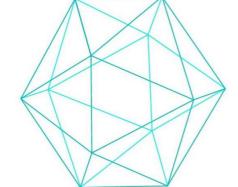
During lysate production, the cell wall and other cellular components that are not required for

components needed for protein production (amino acids, cofactors, etc.) are added to produce

### **Application Details**

**Images** 

	something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



CRYSTALLOGRAPHY GRADE **Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process