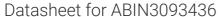
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# RPS6KA2 Protein (AA 1-733) (Strep Tag)





## Go to Product page

# Overview

Quantity:	1 mg
Target:	RPS6KA2
Protein Characteristics:	AA 1-733
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPS6KA2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

# **Product Details**

Sequence:

MDLSMKKFAV RRFFSVYLRR KSRSKSSSLS RLEEEGVVKE IDISHHVKEG FEKADPSQFE
LLKVLGQGSY GKVFLVRKVK GSDAGQLYAM KVLKKATLKV RDRVRSKMER DILAEVNHPF
IVKLHYAFQT EGKLYLILDF LRGGDLFTRL SKEVMFTEED VKFYLAELAL ALDHLHSLGI
IYRDLKPENI LLDEEGHIKI TDFGLSKEAI DHDKRAYSFC GTIEYMAPEV VNRRGHTQSA
DWWSFGVLMF EMLTGSLPFQ GKDRKETMAL ILKAKLGMPQ FLSGEAQSLL RALFKRNPCN
RLGAGIDGVE EIKRHPFFVT IDWNTLYRKE IKPPFKPAVG RPEDTFHFDP EFTARTPTDS
PGVPPSANAH HLFRGFSFVA SSLIQEPSQQ DLHKVPVHPI VQQLHGNNIH FTDGYEIKED
IGVGSYSVCK RCVHKATDTE YAVKIIDKSK RDPSEEIEIL LRYGQHPNII TLKDVYDDGK
FVYLVMELMR GGELLDRILR QRYFSEREAS DVLCTITKTM DYLHSQGVVH RDLKPSNILY
RDESGSPESI RVCDFGFAKQ LRAGNGLLMT PCYTANFVAP EVLKRQGYDA ACDIWSLGIL
LYTMLAGFTP FANGPDDTPE EILARIGSGK YALSGGNWDS ISDAAKDVVS KMLHVDPHQR
LTAMQVLKHP WVVNREYLSP NQLSRQDVHL VKGAMAATYF ALNRTPQAPR LEPVLSSNLA

#### **ORRGMKRLTS TRL**

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

Product Details	
	(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.
	<ol><li>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.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	RPS6KA2
Alternative Name:	RPS6KA2 (RPS6KA2 Products)
Background:	Ribosomal protein S6 kinase alpha-2 (S6K-alpha-2) (EC 2.7.11.1) (90 kDa ribosomal protein S6
	kinase 2) (p90-RSK 2) (p90RSK2) (MAP kinase-activated protein kinase 1c) (MAPK-activated
	protein kinase 1c) (MAPKAP kinase 1c) (MAPKAPK-1c) (Ribosomal S6 kinase 3) (RSK-3)
	(pp90RSK3),FUNCTION: Serine/threonine-protein kinase that acts downstream of ERK
	(MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced
	activation of transcription factors, regulates translation, and mediates cellular proliferation,
	survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells.
	{ECO:0000269 PubMed:16878154, ECO:0000269 PubMed:7623830}.
Molecular Weight:	83.2 kDa
UniProt:	Q15349
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Regulation of Systemic Arterial Blood
	Pressure by Hormones, Activation of Innate immune Response, Toll-Like Receptors Cascades
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

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

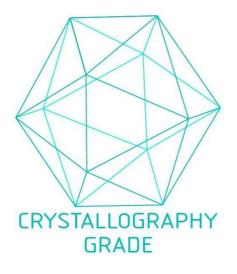
Restrictions:

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)

# **Images**



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