

Datasheet for ABIN3137514

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



[Go to Product page](#)

Overview

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|-------------------------------|--------------------------------------------------|
| Quantity: | 250 µg |
| Target: | RPS6KA2 |
| Protein Characteristics: | AA 1-733 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RPS6KA2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Brand: | AlIcE® |
| Sequence: | <p>MELSMKKFTV RRRFSVYLK KSRKSSSL RLEEEGIVKE IDISNHVKEG FEKADPSQFE</p> <p>LLKVLGQGSY GKVFLVRKVT GSDAGQLYAM KVLKKATLKV RDRVRSKMER DILAEVNHPF</p> <p>IVKLHYAFQT EGKLYLILDF LRGGDLFTRL SKEVMFTEED VKFYLAELAL ALDHLHGLGI</p> <p>IYRDLKPENI LLDEEGHIKI TDFGLSKEAT DHDKRAYSFC GTIEYMAPEV VNRRGHTQSA</p> <p>DWWSFGVLMF EMLTGSLPFQ GKDRKETMAL ILKAKLGMPQ FLSAEQSL RALFKRNPCN</p> <p>RLGAGVDGVE EIKRHPFFVT IDWNKLYRKE IKPPFKPAVG RPEDTFHFDP EFTARTPTDS</p> <p>PGVPPSANAH HLFGRGFSFVA SSLVQEPSQQ DVPKAPIHPI VQQLHGNNIH FTDGYEIKED</p> <p>IGVGSYSVCK RCVHKATDAE YAVKIIDKSK RDPSEEIEIL LRYGQHPNII TLKDVYDDGK</p> <p>YVYLMELMR GGELLDRI LRQCFSEREAS DVLYTIARTM DYLSHQGVVH RDLKPSNIIY</p> <p>MDESGNPESI RICDFGFAKQ LRAENGLLMT PCYTANFVAP EVLKRQGYDA ACDVWSLGIL</p> <p>LYTMLAGFTP FANGPDDTPE EILARIGSGK YALSGGNWDS ISDAAKDVVS KMLHVDPPQR</p> |

LTAVQVLKHP WIVNREYLSQ NQLSRQDVHL VKGAMAATYF ALNRT PQAPR LEPVLSSSLA
QRRGMKRLTS 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

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

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

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) (Protein-tyrosine kinase Mpk-9) (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 (By similarity). {ECO:0000250}.

Molecular Weight: 83.2 kDa

UniProt: [Q9WUT3](#)

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

Application Details

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|---------------|-------------------------------------------------------|
| | needed is the DNA that codes for the desired protein! |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |