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Datasheet for ABIN3094942

## Importin 9 Protein (IPO9) (AA 1-729) (Strep Tag)

### Overview

Quantity:	1 mg
Target:	Importin 9 (IPO9)
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 9 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Sequence: MSGQPPPPPP QQQQQQQLS PPPPAALAPV SGVVL PAPPV VSAGSSPAGS PGGGAGGEGL  
GAAAAALLH PPPPPPPATA APPPPPPPPP PPASAAAPAS GPPAPPGLAA GPGPAGGAPT  
PALVAGSSAA APFPHGDSAL NEQEKELQRR LKRLYPVAVDE QETPLRSWS PKDKFSYIGL  
SQNNLRVHYK GHGKTPKDAA SVRATHPIPA ACGIYYFEVK IVSKGRDGYM GIGLSAQGVN  
MNRLPGWDKH SYGYHGDDGH SFCSSGTGQP YGPTFTTGDV IGCCVNLIIN TCFYTKNGHS  
LGIATDLPP NLYPTVGLQT PGEVVDANFG QHPFVFDIED YMREWRKIQ AQIDRFPIGD  
REGEWQTMIQ KMVSSYLVHH GYCATAEAFA RSTDQTVLEE LASIKNRQRI QKLVLGRMG  
EAIETTQQLY PSLLERPNL LFTLKVRQFI EMVNGTDSEV RCLGGRSPKS QDSYPVSPRP  
FSSPSMSPSH GMNIHNLASG KGSTAHFSGF ESCSNGVISN KAHQSYCHSN KHQSSNLNVP  
ELNSINMSRS QQVNNFTSND VDMETDHYSN GVGETSSNGF LNGSSKHDHE MEDCDTEMEV  
DSSQLRRQLC GGSQAAIERM IHFGRELQAM SEQLRRDCGK NTANKKMLKD AFSLLAYSDP  
WNSPVG NQLD PIQREPVCSA LNSAILETHN LPKQPPLALA MGQATQCLGL MARSIGISCA

FATVEDYLH

**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.**

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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 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 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.

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Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

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## Product Details

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(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.
2. 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.

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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)

## Target Details

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Target: Importin 9 (IPO9)

Alternative Name: RANBP9 ([IPO9 Products](#))

Background: Ran-binding protein 9 (RanBP9) (BPM-L) (BPM90) (Ran-binding protein M) (RanBPM) (RanBP7),FUNCTION: May act as scaffolding protein, and as adapter protein to couple membrane receptors to intracellular signaling pathways (Probable). Acts as a mediator of cell spreading and actin cytoskeleton rearrangement (PubMed:18710924). Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed:29911972). May be involved in signaling of ITGB2/LFA-1 and other integrins (PubMed:14722085). Enhances HGF-MET signaling by recruiting Sos and activating the Ras pathway (PubMed:12147692). Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but not affect estrogen-induced transactivation (PubMed:12361945, PubMed:18222118). Stabilizes TP73 isoform Alpha, probably by inhibiting its ubiquitination, and increases its proapoptotic activity (PubMed:15558019). Inhibits the kinase activity of DYRK1A and DYRK1B. Inhibits FMR1 binding to RNA. {ECO:0000269|PubMed:12147692, ECO:0000269|PubMed:12361945, ECO:0000269|PubMed:14500717, ECO:0000269|PubMed:14722085, ECO:0000269|PubMed:15381419, ECO:0000269|PubMed:15558019, ECO:0000269|PubMed:18222118, ECO:0000269|PubMed:18710924, ECO:0000269|PubMed:29911972, ECO:0000305}.

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Molecular Weight: 77.8 kDa

UniProt: [Q96S59](#)

Pathways: [Protein targeting to Nucleus](#)

## Application Details

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**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.

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**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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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