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Datasheet for ABIN3095038

## RIMBP3 Protein (AA 1-1639) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	RIMBP3
Protein Characteristics:	AA 1-1639
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This RIMBP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MAKDSPSPPLG ASPKKPGCSS PAAAVLENQR RELEKLRAEL EAERAGWRAE RRRFAARERQ  
LREEAERERR QLADRLRSKW EAQRSRELRLQ LQEEMQRERE AEIRQLLRWK EAEQRQLQQL  
LHRERDGVVR QARELQRQLA EELVNRGHCS RPGASEVSAA QCRCRLQEV L AQLRWQTDGE  
QAARIRYLQA ALEVERQLFL KYILAHFRGH PALSGSPDPQ AVHSLEEPLP QTSSGSCHAP  
KPACQLGSLD SLSAEVGVRS RSLGLVSSAC SSSPDGLLST HASSLDCFAP ACSRSLDSTR  
SLPKASKSEE RPSSPDTSTP GSRRLSPPPS PLPPPPPPSA HRKLSNPRGG EGSESQPCEV  
LTPSPPLGH HELIKLNWLL AKALWVLARR CYTLQAENKQ LRRAGCPYQA DEKVKRLKVK  
RAELTGLARR LADRARKLQE TNLRAVSAPI PGESCAGLEL CQVFARQRAR DLSEQASAPL  
AKDKQIEELR QECHLLQARV ASGPCSDLHT GRGGPCTQWL NVRDLRLQR ESQREVLRLQ  
RQLMLQQGNG GAWPEAGGQS ATCEEVRRQM LALERELDQR RRECQELGAQ AAPARRRGEE  
AETQLQAALL KNAWLAEENG RLQAKTDWVR KVEAENSEVR GHLGRACQER DASGLIAEQL  
LQQAARGQDR QQQLQRDPQK ALCDLHPSWK EIQUALQCRPG HPPEQPWETS QMPESQVKGS

RRPKFHARPE DYAVSQPNRD IQEKREASLE ESPVALGESA SVPQVSETVP ASQPLSKKTS  
SQSNSSEGS MWATVPSSPT LDRDTASEVD DLEPDSVSLA LEMGGSAAPA APKLIKIFMAQ  
YNYNPFEGPN DHPEGELPLT AGDYIYIFGD MDEDGFYEGE LEDGRRGLVP SNFVEQIPDS  
YIPGCLPAKS PDLGPSQLPA GQDEALEEDS LLSGKAQGVV DRGLCQMVRV GSKTEVATEI  
LDTKTEACQL GLLQSMGKQG LSRPLLGTKG VLRMAPMQLH LQNVTATSAN ITWVYSSHRH  
PHVVYLDRE HALTPAGVSC YTFQGLCPGT HYRARVEVRL PRDLLQVYWG TMSSTVTFDT  
LLAGPPYPPL DVLVERHASP GVLVSWLPV TIDSAGSSNG VQVTGYAVYA DGLKVCEVAD  
ATAGSTLLEF SQLQVPLTWQ KVSVRTMSLC GESLDSVPAQ IPEDFFMCHR WPETPPFSYT  
CGDPSTYRVT FPVCPQKLSL APPSAKASPH NPGSCGEPQA KFLEAFFEEP PRRQSPVSNL  
GSEGECPSSG AGSQAQELAE AWEGCRKDLL FQKSPQNHRP PSVSDQPGEK ENCSQHMGTS  
KSPAPGFIHL RTECGPRKEP CQEKAALERV LRQKQDAQGF TPPQLGASQQ YASDFHNVLK  
EEQEALCLDL WGTERRERRE EPEPHSRQGG ALGVKRGKQL HEPSSALCPA PSAKVIKMPR  
GGPQQLGTGA NTPARVVAL SDYNPLVMSA NLKAAEEELV FQKRQLLRVW GSQDTHDFYL  
SECNRQVGNI PGRLVAEMEV GTEQTDRRWR SPAQGNLPSV AHLEDFQGLT IPQGSSLVLQ  
GNSKRLPLWT PKIMIAALDY DPGDGQMGGQ GKGRLALRAG DVVMVYGPMD DQGFYYGELG  
GHRGLVPAHL LDHMSLHGH

**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

## Product Details

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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 (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</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

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Target:	RIMBP3
Alternative Name:	RIMBP3 ( <a href="#">RIMBP3 Products</a> )
Background:	RIMS-binding protein 3A (RIM-BP3.A) (RIMS-binding protein 3.1) (RIM-BP3.1),FUNCTION: Probable component of the manchette, a microtubule-based structure which plays a key role in sperm head morphogenesis during late stages of sperm development. {ECO:0000250 UniProtKB:Q3V0F0}.
Molecular Weight:	180.7 kDa

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## Target Details

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UniProt: [Q9UFD9](#)

## 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.

**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

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**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)



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