

Datasheet for ABIN3094534

## PIBF1 Protein (AA 1-757) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PIBF1
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIBF1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	MSRKISKESK KVNISSSLES EDISLETTVP TDDISSSEER EGKVRITRQL IERKELLHNI QLLKIELSQK TMMIDNLKVD YLTKEIELEE KLNDALHQKQ LLTLRLDNQL AFQQKDASKY QELMKQEMET ILLRQKQLEE TNLQLREKAG DVRRNLRDLE LTEEQYIKLK AFPEDQLSIP EYVSVRFYEL VNPLRKEICE LQVKKNILAE ELSTNKNQLK QLTETYEEDR KNYSEVQIRC QRLALELADT KQLIQQGDYR QENYDKVKSE RDALEQEVIE LRRKHEILEA SHMIQTKERS ELSKEVVTLE QTVTLLQKDK EYLNRQNMEL SVRCAHEEDR LERLQAQLEE SKKAREEMYE KYVASRDHYK TEYENKLHDE LEQIRLKTNQ EIDQLRNASR EMYERENRNL REARDNAVAE KERAUMAEDK ALEKHDQLLD RYRELQLSTE SKVTEFLHQS KLKSFESERV QLLQEETARN LTQCQLECEK YQKKLEVLTK EFYSLQASSE KRITELQAQN SEHQARLDIY EKLEKELDEI IMQTAEIENE DEAERVLFYSY GYGANVPTTA KRRLKQSVHL ARVLQLEKQ NSLILKDLEH RKDQVTQLSQ ELDRANSLN QTQPPYRYLI ESVRQRDSKI DSLTESIAQL EKDVSNLNKE KSALLQTKNQ

MALDLEQLLN HREELAAMKQ ILVKMHSKHS ENSLLLTKE PKHVTENQKS KTLNVPKEHE  
DNIFTPKPTL FTKKEAPEWS KKQKMKT

**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 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®).

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## Product Details

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

Grade: custom-made

## Target Details

Target: PIBF1

Alternative Name: PIBF1 ([PIBF1 Products](#))

Background: Progesterone-induced-blocking factor 1 (PIBF) (Centrosomal protein of 90 kDa) (CEP90),FUNCTION: Plays a role in ciliogenesis. {ECO:0000269|PubMed:26167768}., FUNCTION: [Isoform 1]: Pericentriolar protein required to maintain mitotic spindle pole integrity (PubMed:21224392). Required for the centrosomal accumulation of PCM1 and the recruitment of centriolar satellite proteins such as BBS4. Via association with PCM1 may be involved in primary cilia formation (PubMed:23110211). Required for CEP63 centrosomal localization and its interaction with WDR62. Together with CEP63 promotes centriole duplication. Promotes the centrosomal localization of CDK2 (PubMed:26297806). {ECO:0000269|PubMed:21224392, ECO:0000269|PubMed:23110211, ECO:0000269|PubMed:26297806}., FUNCTION: [Isoform 4]: The secreted form is a mediator of progesterone that by acting on the phospholipase A2 enzyme interferes with arachidonic acid metabolism, induces a Th2 biased immune response, and by controlling decidual natural killer cells (NK) activity exerts an anti-abortion effect (PubMed:14634107, PubMed:3863495, PubMed:12516630). Increases the production of Th2-type cytokines by signaling via the JAK/STAT pathway. Activates STAT6 and inhibits STAT4 phosphorylation. Signaling via a not identified receptor seems to implicate IL4R and a GPI-anchored protein (PubMed:16393965, PubMed:25218441). {ECO:0000269|PubMed:12516630, ECO:0000269|PubMed:14634107, ECO:0000269|PubMed:16393965, ECO:0000269|PubMed:25218441, ECO:0000269|PubMed:3863495, ECO:0000305|PubMed:11407300}.

Molecular Weight: 89.8 kDa

UniProt: [Q8WXW3](#)

## 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

Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months