

Datasheet for ABIN3085324

## FAM105B Protein (AA 1-352) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	FAM105B
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM105B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MSRGTMPQPE AWPGASCAET PAREAAATAR DGGKAAASGQ PRPEMQCPAE HEEDMYRAAD  EIEKEKELLI HERGASEPRL SVAPENDIMD YCKKEWRGNT QKATCMKMGY EEVSQKFTSI  RRVRGDNYCA LRATLFQAMS QAVGLPPWLQ DPELMLLPEK LISKYNWIKQ WKLGLKFDGK  NEDLVDKIKE SLTLLRKKWA GLAEMRTAEA RQIACDELFT NEAEEYSLYE AVKFLMLNRA  IELYNDKEKG KEVPFFSVLL FARDTSNDPG QLLRNHLNQV GHTGGLEQVE MFLLAYAVRH  TIQVYRLSKY NTEEFITVYP TDPPKDWPVV TLIAEDDRHY NIPVRVCEET SL</p> <p><b>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.</b></p>
Characteristics:	Key Benefits:

## Product Details

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

## Target Details

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Target:	FAM105B
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## Target Details

Alternative Name:	OTULIN ( <a href="#">FAM105B Products</a> )
Background:	<p>Ubiquitin thioesterase otulin (EC 3.4.19.12) (Deubiquitinating enzyme otulin) (OTU domain-containing deubiquitinase with linear linkage specificity) (Ubiquitin thioesterase Gumbly),FUNCTION: Deubiquitinase that specifically removes linear ('Met-1'-linked) polyubiquitin chains to substrates and acts as a regulator of angiogenesis and innate immune response (PubMed:26997266, PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:27523608, PubMed:27559085, PubMed:24726323, PubMed:24726327, PubMed:28919039, PubMed:35170849, PubMed:35587511). Required during angiogenesis, craniofacial and neuronal development by regulating the canonical Wnt signaling together with the LUBAC complex (PubMed:23708998). Acts as a negative regulator of NF-kappa-B by regulating the activity of the LUBAC complex (PubMed:23746843, PubMed:23806334). OTULIN function is mainly restricted to homeostasis of the LUBAC complex: acts by removing 'Met-1'-linked autoubiquitination of the LUBAC complex, thereby preventing inactivation of the LUBAC complex (PubMed:26670046). Acts as a key negative regulator of inflammation by restricting spontaneous inflammation and maintaining immune homeostasis (PubMed:27523608). In myeloid cell, required to prevent unwarranted secretion of cytokines leading to inflammation and autoimmunity by restricting linear polyubiquitin formation (PubMed:27523608). Plays a role in innate immune response by restricting linear polyubiquitin formation on LUBAC complex in response to NOD2 stimulation, probably to limit NOD2-dependent pro-inflammatory signaling (PubMed:23806334).</p> <p>{ECO:0000269 PubMed:23708998, ECO:0000269 PubMed:23746843, ECO:0000269 PubMed:23806334, ECO:0000269 PubMed:23827681, ECO:0000269 PubMed:24726323, ECO:0000269 PubMed:24726327, ECO:0000269 PubMed:26670046, ECO:0000269 PubMed:26997266, ECO:0000269 PubMed:27523608, ECO:0000269 PubMed:27559085, ECO:0000269 PubMed:28919039, ECO:0000269 PubMed:35170849, ECO:0000269 PubMed:35587511}.</p>
Molecular Weight:	40.3 kDa
UniProt:	<a href="#">Q96BN8</a>

## 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.
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## Application Details

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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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## Handling

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