

Datasheet for ABIN3136972

**GIGYF1 Protein (AA 1-1044) (Strep Tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	GIGYF1
Protein Characteristics:	AA 1-1044
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This GIGYF1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MAAETLNFGP EWLRLSSGG SVASPPPSA MPKYKLADYR YGREMLALY VKENKVPEEL QDKEFAAVLQ EEPLQLALE PLTEEEQRNF SLSVNSVAVL RLMGKGAGPP LPATSRGRGS TRSRGRGRGD SCFYQRSIEE GDGAFGRNPR EIQRSQSWDD RGERRFEKPA RRDGVRSGFE EGGAGPRKEH ARSDSENWRS LREEQEDDGS WRLGAGPRRD GDRWRSTSPD GGPRSAGWRE HGERRRKFDF DLRGERGGCG EEDGRVGGGN SHLRRCRGLD GFEDDKDGLP EWCLEDEDEE MGTFDASGAF LPLKKGPKA IP EEQELDFR GLEEEEEEEE EPSEGVDEER PEAGGKEATP LPPENSSSP SSLPALGPLW TTNEEGGEAV EKELPPAEGD ELRGLSLSPR ISSPPGPPGD LEDEEGLKHL QQEAEKLVAS LQDSSLEEEQ FTAAMQTQGL RHSTAATALP LSHGAARKWF YKDPQGEIQG PFTTQEMAEW FQAGYFSMSL LVKRGCEGF QPLGEVIKMW GRVPFAPGPS PPPLLGNMDQ ERLKKQEELA AAALYQLQH QHFLQLVGSR QLPQCTTLRE KAAMGDLTPP QQQLTTFLQ QLQALKTPRG GDQNLLPTMS RLSVPSGSGP LWDLHTSASS QSGGEASLWD IPINSSTQGP ILEQLQLQHK FQERREVELR AKREEEERKR REEKRRQQQQ QQEEQKRRQE
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EEELFRRKQV RQPELLLKLL QQQQATNVPV PPAPSSPPPL WAGLAKQGLS MKTLLELQME  
SERQLHKQAA PREPLRAQAP NHRVQLGGLG SAPLNQWVSE AGPLWGGPDK SGGSSGGNLG  
LWEDTLKSGG SLARSLGLKS SRSSPSLSDS YSHLSGRPVR KKTEEEEKLL KLLQGIPRPQ  
DGFTQWCEQM LHTLSTAGSL DVPMAVAILK EVESPYDVHD YIRSLGDTL EAKEFAKQFL  
ERRAKQKASQ QRQQQQQQQQ QQQEAWLSS TSLQTAFQAN HSTKLGPGEG SKAKRRALML  
HSDPSILGYS LHGPSGEIES VDDY

**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.

## Product Details

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- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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

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

## Target Details

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Target: GIGYF1

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Alternative Name: Gigyf1 ([GIGYF1 Products](#))

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Background: GRB10-interacting GYF protein 1 (PERQ amino acid-rich with GYF domain-containing protein 1),FUNCTION: May act cooperatively with GRB10 to regulate tyrosine kinase receptor signaling. May increase IGF1 receptor phosphorylation under IGF1 stimulation as well as phosphorylation of IRS1 and SHC1. {ECO:0000269|PubMed:12771153}.

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Molecular Weight: 116.2 kDa

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UniProt: [Q99MR1](#)

## 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.

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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)