

Datasheet for ABIN3136972

GIGYF1 Protein (AA 1-1044) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GIGYF1
Protein Characteristics:	AA 1-1044
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GIGYF1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MAAETLNFGP EWLRLSSGG SVASPPPSPA MPKYKLADYR YGREMLALY VKENKVPEEL</p> <p>QDKEFAAVLQ EEPLQPLALE PLTEEEQRNF SLSVNSVAVL RLMGKGAGPP LPATSRGRGS</p> <p>TRSRGRGRGD SCFYQRSIEE GDGAFGRNPR EIQRSQSWDD RGERRFEKPA RRDGVRSGFE</p> <p>EGGAGPRKEH ARSDSENWRS LREEQEDDGS WRLGAGPRRD GDRWRSTSPD GGPRSAGWRE</p> <p>HGERRRKFDL DLRGERRGGCG EEDGRVGGGN SHLRRRCGLD GFEDDKDGLP EWCLEDEDEE</p> <p>MGTFDASGAF LPLKKGPKEA IPEEQELDFR GLEEEEEEEEE EPSEGVDEER PEAGGKEATP</p> <p>LPPPENSSSP SSLPALGPLW TTNEEGGEAV EKELPPAEGD ELRGLSLSPR ISSPPGPPGD</p> <p>LEDEEGLKHL QQEAEKLVAS LQDSSLEEEQ FTAAMQTQGL RHSTAATALP LSHGAARKWF</p> <p>YKDPQGEIQG PFTTQEMAWE FQAGYFSMSL LVKRGCEGF QPLGEVIKMW GRVPFAPGPS</p> <p>PPPLLGNDMDQ ERLKKQQELA AAALYQQLQH QHFLQLVGSR QLPQCTTLRE KAAMGDLTPP</p> <p>QQQQLTTFLQ QLQALKTPRG GDQNLPTMS RSLVPSDGP LWDLHTSASS QSGGEASLWD</p>

IPINSSTQGP ILEQLQLQHK FQERREVELR AKREEEERKR REEKRRQQQQ QQEEQKRRQE
EEELFRRKQV RQCELLKLL QQQATNVPV PPAPSSPPPL WAGLAKQLS MKTLLELQME
SERQLHKQAA PREPLRAQAP NHRVQLGGLG SAPLNQWVSE AGPLWGGPDK SGGSSGGNGLG
LWEDTLKSGG SLARSLGLKS SRSSPSLSDS YSHLSGRPVR KKTEEEKLL KLLQGIPRPQ
DGFTQWCEQM LHTLSTAGSL DVPMVAAILK EVESPYDVHD YIRSLGDTL EAKEFAKQFL
ERRAKQKASQ QRQQQQQQQQ QQQQEAWLSS TSLQTAFQAN HSTKLGPGEK 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.

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.

Product Details

- 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

Target:	GIGYF1
Alternative Name:	Gigyf1 (GIGYF1 Products)
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}.
Molecular Weight:	116.2 kDa
UniProt:	Q99MR1

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:	<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>

Application Details

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 Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months