

Datasheet for ABIN3093105

## EIF4G2 Protein (AA 1-907) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	EIF4G2
Protein Characteristics:	AA 1-907
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF4G2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MESAIAEGGA SRFSASSGGG GSRGAPQHYP KTAGNSEFLG KTPGQNAQKW IPARSTRRDD</p> <p>NSAANNSANE KERHDAIFRK VRGILNKLTP EKFDKLCLEL LNVGVESKLI LKGVILLIVD</p> <p>KALEEPKYSS LYAQLCLRLA EDAPNFDGPA AEGQPGQKQS TTFRRLLISK LQDEFENRTR</p> <p>NVDVYDKREN PLLPEEEEQR AIAIKMLGN IKFIGELGKL DLIHESILHK CIKTLLEKKK</p> <p>RVQLKDMGED LECLCQIMRT VGPRLDHERA KSLMDQYFAR MCSLMLSKEK PARIRFLLQD</p> <p>TVELREHHWV PRKAFLDNGP KTIHQIRQDA VKDLGVFIPA PMAQGMRSDF FLEGPFMPPR</p> <p>MKMDRDPLGG LADMFGQMPG SGIGTGPQVI QDRFSPTMGR HRSNQLFNHG GGHIMPPTQS</p> <p>QFGEMGGKFM KSQGLSPLYH NQSQGLLSQL QGQSKDMPPR FSKKGQLNAD EISLRPAQSF</p> <p>LMNKNQVPKL QPQITMIPPS AQPRTQTTP LGQTPQLGLK TNPPLIQEK AKTSKKPPPS</p> <p>KEELLKLTET VVTEYLNSGN ANEAVNGVRE MRAPKHFLPE MLSKVIILSL DRSDDEKEA</p> <p>SSLISLLKQE GIATSDNFMQ AFLNVLDQCP KLEVDIPLVK SYLAQFAARA ISELVSISE</p>

LAQPLESNGTH FPLFLCLQ LAKLQDREWL TELFQQSKVN MQKMLPEIDQ NKDRMLEILE  
GKGLSFLFPL LKLEKELLKQ IKLDPSPQTI YKWIKDNISP KLHVDKGFVN ILMTSFLQYI  
SSEVNPPSDE TDSSAPSKE QLEQEKQLLL SFKPVMQKFL HDHVDLQVSA LYALQVHCYN  
SNFPKGMLLR FFVHFYDMEI IEEEAFLAWK EDITQEFPKG GKALFQVNQW LTWLETAEED  
ESEED

**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.

## Product Details

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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:	EIF4G2
Alternative Name:	EIF4G2 ( <a href="#">EIF4G2 Products</a> )
Background:	Eukaryotic translation initiation factor 4 gamma 2 (eIF-4-gamma 2) (eIF-4G 2) (eIF4G 2) (Death-associated protein 5) (DAP-5) (p97),FUNCTION: Appears to play a role in the switch from cap-dependent to IRES-mediated translation during mitosis, apoptosis and viral infection. Cleaved by some caspases and viral proteases. {ECO:0000269 PubMed:11511540, ECO:0000269 PubMed:11943866, ECO:0000269 PubMed:9032289, ECO:0000269 PubMed:9049310}.
Molecular Weight:	102.4 kDa
UniProt:	<a href="#">P78344</a>

## 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:	<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 <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