

Datasheet for ABIN3130769
FGGY Protein (AA 1-552) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	FGGY
Protein Characteristics:	AA 1-552
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGGY protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MMSGRDQEPS RYYVGIDVGT GSVRAALVDQ RGLLLAFAEQ PIKKWEPQFN HHEQSSEDIW
AACCLVTKEV VQGIDHRIR GLGFDATCSL VVLDKEFHPL PVNHEGDSSR NVIMWLDHRA
VSQVHRINET KHRVLQYVGG VMSVEMQAPK LLWLKENLRE ICWDKAGHFF DLPDFLSWKA
TGVTARSLCS LVCKWTYSAE KGWDDSFWKM IGLEDLIDDN YSKIGNLVLL PGAALGIGLT
PEAARELGLP SGIAVAASLI DAHAGGLGVI GADVVRGHGLT CEGQPVTSSL AVICGTSSCH
MGISKDPVFV PGVWGPYISA MVPGFVLNEG GQSVTGKLID HMVQGHFAFP ELQAKATARC
QSIYAYLNSH LDLIKKAQPV GFLTVDLHVV PDFHGNRSPL ADLTLKGMVT GLTLSQDLDD
LAILYLATVQ AIAFGTRFII ETMEAAGHSL STLFLCGGLS KNPLFVQMHA DITGMPVVLS
QEVESVLVGA AILGACASGD FTSVQEAMAR MSKVGKVVFP EHADKKYYDK KYQVFLRMVE
HQKEYSAIMN GS

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.
- 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:

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

Target Details

Target:	FGGY
Alternative Name:	Fggy (FGGY Products)
Background:	<p>FGGY carbohydrate kinase domain-containing protein (D-ribulokinase FGGY) (EC 2.7.1.47),FUNCTION: Catalyzes ATP-dependent phosphorylation of D-ribulose at C-5 to form D-ribulose 5-phosphate. Postulated to function in a metabolite repair mechanism by preventing toxic accumulation of free D-ribulose formed by non-specific phosphatase activities. Alternatively, may play a role in regulating D-ribulose 5-phosphate recycling in the pentose phosphate pathway. Can phosphorylate ribitol with low efficiency. {ECO:0000250 UniProtKB:Q96C11}.</p>
Molecular Weight:	60.3 kDa
UniProt:	A2AJL3

Application Details

Application Notes:	<p>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.</p>
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>
Restrictions:	For Research Use only

Handling

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 Might differ depending on protein.</p>

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months