

Datasheet for ABIN3094734

POGZ Protein (AA 1-1410) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	POGZ
Protein Characteristics:	AA 1-1410
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POGZ protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MADTDLFMEC EEEEELEPWQK ISDVIEDSVV EDYNSVDKTT TVSVSQQPVS APVPAAHAS</p> <p>VAGHLSTSTT VSSSGAQNSD STKKTTLVTLI ANNNAGNPLV QGGGQPLILT QNPAPGLGTM</p> <p>VTQPVLRPVQ VMQNaNHVTS SPVASQIFI TTQGFVVRNV RPVQNAMNQV GIVLNVQQGQ</p> <p>TVRPITLVPA PGTQFVKPTV GVPQVFSQMT PVRPGSTMPV RPTTNTFTTV IPATLTIRST</p> <p>VPQSQSQTK STPSTSTTPT ATQPTSLGQL AVQSPGQSNQ TTNPKLAPSF PSPPAVSIAS</p> <p>FVTVKRPGVT GENSNEVAKL VNTLNTIPSL GQSPGPVVVS NNSSAHGSQR TSGPESSMKV</p> <p>TSSIPVFDLQ DGGRKICPRC NAQFRVTEAL RGHMCYCCPE MVEYQKKGKS LDSEPSVPSA</p> <p>AKPPSPEKTA PVASTPSSTP IPALSPPTKV PEPNENVGDA VQTKLIMLVD DFYYGRDGGK</p> <p>VAQLTNFPKV ATSFRCPHCT KRLKNNIRFM NHMKHHVELD QQNGEVDGHT ICQHCYRQFS</p> <p>TPFQLQCHLE NVHSPYESTT KCKICEWAFE SEPLFLQHMK DTHKPGEMPY VCQVCQYRSS</p> <p>LYSEVDVHFR MIHEDTRHLL CPYCLKVFKN GNAFQQHYMR HQKRNVYHCN KCRLQLFLAK</p>

DKIEHKLQHH KTRKPKQLE GLKPGTKVTI RASRGQRTV PVSSNDTPPS ALQEAAPLTS
SMDPLPVFLY PPVQRSIQKR AVRKMSVMGR QTCLECSFEI PDFPNHFPTY VHCSLCRYST
CCSRAYANHM INNHVPRKSP KYLALFKNSV SGIKLACTSC TFVTSVGDAM AKHLVFNPSH
RSSSILPRGL TWIAHSRHGQ TRDRVHDRNV KNMYPPPSFP TNKAATVKSA GATPAEPEEL
LTPLAPALPS PASTATPPPT PTHPQALALP PLATEGAECL NVDDQDEGSP VTQEPELASG
GGGSGGVGKK EQLSVKKLRV VLFALCCNTE QAAEHFRNPQ RRIRRWLRRF QASQGENLEG
KYLSFEAEEK LAEWLTQRE QQLPVNEETL FQKATKIGRS LEGGFKISYE WAVRFMLRHH
LTPHARRAVA HTLPKDVAEN AGLFIDFVQR QIHNQDLPLS MIVAIDEISL FLDTEVLSSD
DRKENALQTV GTGEPWCDVV LAILADGTVL PTLVFYRGQM DQPANMPDSI LLEAKESGYS
DDEIMELWST RVWQKHTACQ RSKGMLVMDC HRTHLSEEV L AMLSASSTLP AVVPAGCSSK
IQPLDVCIKR TVKNFLHKKW KEQAREMADT ACDSVLLQL VLVWLGEVLG VIGDCPELVQ
RSFLVASVLP GPDGNINSPT RNADMQEELI ASLEEQLKLS GEHSESSTPR PRSSPEETIE
PESLHQLFEG ESETESFYGF EEADLDLMEI

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

Product Details

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

Target:	POGZ
Alternative Name:	POGZ (POGZ Products)
Background:	<p>Pogo transposable element with ZNF domain (Suppressor of hairy wing homolog 5) (Zinc finger protein 280E) (Zinc finger protein 635),FUNCTION: Plays a role in mitotic cell cycle progression and is involved in kinetochore assembly and mitotic sister chromatid cohesion. Probably through its association with CBX5 plays a role in mitotic chromosome segregation by regulating aurora kinase B/AURKB activation and AURKB and CBX5 dissociation from chromosome arms (PubMed:20562864). Promotes the repair of DNA double-strand breaks through the homologous recombination pathway (PubMed:26721387).</p> <p>{ECO:0000269 PubMed:20562864, ECO:0000269 PubMed:26721387}.</p>
Molecular Weight:	155.3 kDa
UniProt:	Q7Z3K3

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

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

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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months