Datasheet for ABIN3136409

ZFPM2 Protein (AA 1-1151) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZFPM2
Protein Characteristics:	AA 1-1151
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFPM2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSRRKQSKPR QIKRPLEDAI DDEEEECPVE EAEVISKGDF PLEGSFPAGF EPENLSCEDV EFFCNKGDDE GIQEPAESDG DSHSDKPGQP GVETDDWDGP GELEVFQRDG ERKIQSRQQL PVGTTWGPFA GKMDLNNNSL KTKAQVPMVL TAGPKWLLDV TWQGVEDSKN NCIVYSKGGQ LWCTTTKAIS EGEELVAFVV DFDSRLQAAS HMTLTEGMYP ARLLDSIQLL PQQAAMASIL PTAIVNKDIF PCKSCGIWYR SERNLQAHLM YYCSGRQREA APVSEENEDN SHQVSSLCPF PQCTKSFSNA RALEMHLNSH SGVKMEEFLP PGASLKCTVC SYTADSVINF HQHLFSHLTQ AAFRCNHCHF GFQTQRELLQ HQELHVPSGK LPRESDMEHS PSGTEDSLQP ATDLLARSDL SQSQKAMPTK DASSDTELDK CEKKTQLFLT NQRPEIQPAA NKQNFSYTKI KSEPSSPRLA SSPVQPNIGP SFPVGPFLSQ FAFPQDITMV PQASEILAKM SELVHRRLRH GSSSYPPVIY SPLMPKGATC FECNITFNNL DNYLVHKKHY CSSRWQQMAK SPEFPSVSEK MPEAVSPNTG QTSINLLNPA AHSSDPENPL LQTSCINSST VLDLIGPNGK GHEKDFSTQV KKLPTSNSSD

DKINGKPVDV KNPSGPLVDG ESDPNKTTCE ACNITFSRHE TYMVHKQYYC ATRHDPPLKR SASNKVPAMQ RTMRTRKRRK MYEMCLPEQE QRPPLVQQRF LDVANLSNPC SSTQEPTEGL GECYHPRCDI FPGIVSKHLE TSLAMNKCVP VPKCDTTHSN VSCLEMDVPI DLSKKCLSQS ERTTASPKRL LDYHECTVCK ISFNKVENYL AHKQNFCPVT AHQRNDLGQL DGKVFPNPES ERSSPEVSFE RNMIKCEKNG NPKQPSPNGN LFSSHLATLQ GLKVFSEAAQ LIATKEENKH LFLPQCLYPG AIKKTKGADQ LSPYYGIKPS DYIASSLVIH NTDVEQSTNT ENESPKGQAS SNGCAVPKKD SLPLLPKNRG MVIVNGGLKQ DERPTANPQQ ENISQNTQHE DGHKSPSWIS ENPLAANENV SPGIPCAEEQ LSSIAKGVNG ASQAPSSGKY CRLCDIQFNN LSNFITHKKF YCSSHAAEHV K

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!

Product Details

	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:	ZFPM2
Alternative Name:	Zfpm2 (ZFPM2 Products)
Background:	Zinc finger protein ZFPM2 (Friend of GATA protein 2) (FOG-2) (Friend of GATA 2) (mFOG-2) (Zinc finger protein multitype 2),FUNCTION: Transcription regulator that plays a central role in heart morphogenesis and development of coronary vessels from epicardium, by regulating genes that are essential during cardiogenesis. Essential cofactor that acts via the formation of a heterodimer with transcription factors of the GATA family GATA4, GATA5 and GATA6. Such heterodimer can both activate or repress transcriptional activity, depending on the cell and promoter context. Also required in gonadal differentiation, possibly be regulating expression of SRY. Probably acts a corepressor of NR2F2. {ECO:0000269|PubMed:10330188, ECO:0000269|PubMed:10888889, ECO:0000269|PubMed:10892744, ECO:0000269|PubMed:12223418, ECO:0000269|PubMed:9927674, ECO:0000269|PubMed:9927675}.
Molecular Weight:	127.7 kDa
UniProt:	Q8CCH7

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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

	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!
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