Datasheet for ABIN3135571

MCF2L Protein (AA 1-1149) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MCF2L
Protein Characteristics:	AA 1-1149
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCF2L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSDCWCFIFC KEHVRSNPLS PQHDGASREE ADHQVDVSDG IRLVPDKAEA TAATASDEIM HQDIVPLCAA DIQEQLKKRF AYLSGGRGQD GSPVITFPDY PAFSEIPDKE FQNVMTYLTS IPSLQDAGIG FILVIDRRQD KWTSVKASVL RIAASFPANL QLVLVLRPTG FFQRTLSDIA FKFNRDEFKM KVPVMMLSSV PELHGYIDKS QLTEDLGGTL DYCHSRWLCH RTAIESFALM VKQTAQMLQA FGTELAETEL PNDVQSTSLV LSAHTEKKAK VKEDLQLALK EGNSILESLR EPLAESAAHS VNQDQLDNQA TVQRLLAQLN ETEAAFDEFW AKHQQKLEQC LQLRHFEQGF REVKTTLDSM SQKIAAFTDV GNSLAHVQHL LKDLTAFEEK SSVAVDKARA LSLEGQQLIE NRHYAVDSIH PKCEELQHLC DHFASEVTRR RGLLSKSLEL HSLLETSMKW SDEGIFLLAS QPVDKCQSQD GAEAALQEIE KFLETGAENK IQELNEIYKE YECILNQDLL EHVQKVFQKQ ESTEEMFHRR QASLKKLAAK QTRPVQPVAP RPEALTKSPS PSPGSWRSSE NSSSEGNALR RGPYRRAKSE MSEPRQGRTS STGEEEESLA ILRRHVMNEL LDTERAYVEE LLCVLEGYAA

EMDNPLMAHL ISTGLQNKKN ILFGNMEEIY HFHNRNIPAG LESCIDCPEL VGRCFLERME EFQIYEKYCQ NKPRSESLWR QCSDCPFFQE CQKKLDHKLS LDSYLLKPVQ RITKYQLLLK EMLKYSKHCE GAEDLQEALS SILGILKAVN DSMHLIAITG YDGNLGDLGK LLMQGSFSVW TDHKKGHTKV KELARFKPMQ RHLFLHEKAV LFCKKREENG EGYEKAPSYS YKQSLNMTAV GITENVKGDT KKFEIWYNAR EEVYIIQAPT PEIKAAWVNE IRKVLTSQLQ ACREASQHRA LEQSHSLPLP TPSSTSPTKG NTRNVKKLED RKTDPLSLEG YVSSSLPKPP EKGKGWSKTS HSLEAPEEDG GWSSAEELIN SSDAEEDGGV GPKKLVPGKY TVVMDDEKGG PDTLAMRSGD MVEVVEEGAE GLWYVRDLTS SKEGWVPASS LSTLLGKSSS AQCLSSSGKI HCARQLCPEP AEILSPEPV

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:	MCF2L
Alternative Name:	Mcf2l (MCF2L Products)
Background:	Guanine nucleotide exchange factor DBS (DBL's big sister) (MCF2-transforming sequence-like protein),FUNCTION: Guanine nucleotide exchange factor that catalyzes guanine nucleotide exchange on RHOA and CDC42, and thereby contributes to the regulation of RHOA and CDC42 signaling pathways (PubMed:17000758, PubMed:11889037, PubMed:12006984). Seems to lack activity with RAC1. Becomes activated and highly tumorigenic by truncation of the N-terminus (By similarity). {ECO:0000250|UniProtKB:Q63406, ECO:0000269|PubMed:11889037, ECO:0000269|PubMed:12006984}.
Molecular Weight:	129.1 kDa
UniProt:	Q64096
Pathways:	Neurotrophin Signaling Pathway, Metabolism of Steroid Hormones and Vitamin D, Thyroid Hormone Synthesis

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 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

Application Details

	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