Datasheet for ABIN3093789

MCF2L Protein (AA 1-1137) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MCF2L
Protein Characteristics:	AA 1-1137
Origin:	Human
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:	MFDCWRFILC KRPGSNSYSS PQRPNEAKKE ETDHQIDVSD VIRLVQDTPE ATAMATDEIM HQDIVPLCAA DIQDQLKKRF AYLSGGRGQD GSPVITFPDY PAFSEIPDKE FQNVMTYLTS IPSLQDAGIG FILVIDRRRD KWTSVKASVL RIAASFPANL QLVLVLRPTG FFQRTLSDIA FKFNRDDFKM KVPVIMLSSV PDLHGYIDKS QLTEDLGGTL DYCHSRWLCQ RTAIESFALM VKQTAQMLQS FGTELAETEL PNDVQSTSSV LCAHTEKKDK AKEDLRLALK EGHSVLESLR ELQAEGSEPS VNQDQLDNQA TVQRLLAQLN ETEAAFDEFW AKHQQKLEQC LQLRHFEQGF REVKAILDAA SQKIATFTDI GNSLAHVEHL LRDLASFEEK SGVAVERARA LSLDGEQLIG NKHYAVDSIR PKCQELRHLC DQFSAEIARR RGLLSKSLEL HRRLETSMKW CDEGIYLLAS QPVDKCQSQD GAEAALQEIE KFLETGAENK IQELNAIYKE YESILNQDLM EHVRKVFQKQ ASMEEVFHRR QASLKKLAAR QTRPVQPVAP RPEALAKSPC PSPGIRRGSE NSSSEGGALR RGPYRRAKSE MSESRQGRGS AGEEEESLAI LRRHVMSELL DTERAYVEEL LCVLEGYAAE

MDNPLMAHLL STGLHNKKDV LFGNMEEIYH FHNRIFLREL ENYTDCPELV GRCFLERMED FQIYEKYCQN KPRSESLWRQ CSDCPFFQEC QRKLDHKLSL DSYLLKPVQR ITKYQLLLKE MLKYSRNCEG AEDLQEALSS ILGILKAVND SMHLIAITGY DGNLGDLGKL LMQGSFSVWT DHKRGHTKVK ELARFKPMQR HLFLHEKAVL FCKKREENGE GYEKAPSYSY KQSLNMAAVG ITENVKGDAK KFEIWYNARE EVYIVQAPTP EIKAAWVNEI RKVLTSQLQA CREASQHRAL EQSQSLPLPA PTSTSPSRGN SRNIKKLEER KTDPLSLEGY VSSAPLTKPP EKGKGWSKTS HSLEAPEDDG GWSSAEEQIN SSDAEEDGGL GPKKLVPGKY TVVADHEKGG PDALRVRSGD VVELVQEGDE GLWYVRDPTT GKEGWVPASS LSVRLGPSGS AQCLSSSGKA HVPRAHP

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:

Product Details

- 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 (By similarity). Seems to lack activity with RAC1. Becomes activated and highly tumorigenic by truncation of the N-terminus (By similarity). Isoform 5 activates CDC42 (PubMed:15157669). {ECO:0000250|UniProtKB:Q63406, ECO:0000269|PubMed:15157669}., FUNCTION: [Isoform 3]: Does not catalyze guanine nucleotide exchange on CDC42 (PubMed:15157669). {ECO:0000269|PubMed:15157669}.
Molecular Weight:	128.1 kDa
UniProt:	O15068
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