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Datasheet for ABIN3093788

MCAF1 Protein (AA 1-1270) (Strep Tag)

Overview

Quantity:	1 mg
Target:	MCAF1 (ATF7IP)
Protein Characteristics:	AA 1-1270
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCAF1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MDSLEEPQKK VFKARKTMRV SDRQQLEAVY KVKEELLKTD VKLLNGNHEN GDLDPTSPLE</p> <p>NMDYIKDKEE VNGIEEICFD PEGSKAEWKE TPCILSVNVK NKQDDDLNCE PLSPHNITPE</p> <p>PVSKLPAEPV SGDPAPGDLG AGDPASGVLA SGDSTSGDPT SSEPSSSDAA SGDATSGDAP</p> <p>SGDVSPGDAT SGDATADDLS SGDPTSSDPI PGEPVPVEPI SGDCAADDA SSEITSVDLA</p> <p>SGAPASTDPA SDDLASGDL SSELASDDLA TGELASDEL TSESTFDRTFE PKSVPVCEPV</p> <p>PEIDNIEPSS NKDDDFLEKN GADEKLEIQ SKDSLDEKNK ADNIDANEE TLETDDTTIC</p> <p>SDRPPENEKK VEEDIITELA LGEDAISSTM EIDQGEKNED ETSADLVETI NENVIEDNKS</p> <p>ENILENTDSM ETDEIIPLE KLAPSEDEL CFSKTSLLPI DETNPDLEEK MESSFGSPSK</p> <p>QESSESLPKE AFLVLSDEED ISGEKDESEV ISQNETCSPA EVESNEKDNK PEEEEQVIHE</p> <p>DDERPSEKNE FSRKRKSKSE DMDNVQSKRR RYMEEYEAE FQVKITAKGD INQKLQKVIQ</p> <p>WLLEEKLCAL QCAVFDKTLA ELKTRVEKIE CNKRHKTVLT ELQAKIARLT KRFEAAKEDL</p> <p>KKRHEHPPNP PVSPGKTVND VNSNNNMSYR NAGTVRQMLE SKRNVSESAP PSFQTPVNTV</p>
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SSTNLVTPPA WVSSQPKLQT PVTSGSLTAT SVLPAPNTAT VVATTQVPSG NPQPTISLQP
LPVILHVPVA VSSQPQLLQS HPGTLVTNQP SGNVEFISVQ SPPTVSGLTk NPVSLPSLPN
PTKPNNVPSV PPSIQRNPT ASAAPLGTTL AVQAVPTAHS IVQATRTSLP TVGPGSLYSP
STNRGPIQMK IPISAFSTSS AAEQNSNTTP RIENQTNKTI DASVSKKAAD STSQCGKATG
SDSSGVIDLT MDDEESGASQ DPKKLNHTPV STMSSSQPVS RPLQIQPAP PLQPSGVPTS
GPSQTTIHLL PTAPTTVNVT HRPVTQVTTR LPVPRAPANH QVYTTLPAP PAQAPLRGTV
MQAPAVRQVN PQNSVTVRVP QTTTYVWNNG LTLGSTGPQL TVHHRPPQVH TEPPRPVHPA
PLPEAPQPQR LPPEAASTSL PQKPHLKLAR VQSQNGIVLS WSVLEVDRSC ATVDSYHLYA
YHEEPSATVP SQWKKIGEVK ALPLMACTL TQFVSGSKYY FAVRAKDIYG RFGPFCDPQS
TDVISSTQSS

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 -

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	MCAF1 (ATF7IP)
Alternative Name:	ATF7IP (ATF7IP Products)
Background:	Activating transcription factor 7-interacting protein 1 (ATF-interacting protein) (ATF-IP) (ATF7-interacting protein) (ATFa-associated modulator) (hAM) (MBD1-containing chromatin-associated factor 1) (P621),FUNCTION: Recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. Can both act as an activator or a repressor depending on the context. Required for HUSH-mediated heterochromatin formation and gene silencing (PubMed:27732843). Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1 (PubMed:12665582). Stabilizes SETDB1, is required to stimulate histone methyltransferase activity of SETDB1 and facilitates the conversion of dimethylated to trimethylated H3 'Lys-9' (H3K9me3). The complex formed with MBD1 and SETDB1 represses transcription and couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3)

Target Details

(PubMed:14536086, PubMed:27732843). Facilitates telomerase TERT and TERC gene expression by SP1 in cancer cells (PubMed:19106100). {ECO:0000269|PubMed:12665582, ECO:0000269|PubMed:14536086, ECO:0000269|PubMed:19106100, ECO:0000269|PubMed:27732843}.

Molecular Weight: 136.4 kDa

UniProt: [Q6VMQ6](#)

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 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)