antibodies

Datasheet for ABIN3093888 MORF4L1 Protein (AA 1-362) (Strep Tag)





Overview

Quantity:	1 mg
Target:	MORF4L1
Protein Characteristics:	AA 1-362
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MORF4L1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAPKQDPKPK FQEGERVLCF HGPLLYEAKC VKVAIKDKQV KYFIHYSGWN KKSAVRPRRS
	EKSLKTHEDI VALFPVPEGA PSVHHPLLTS SWDEWVPESR VLKYVDTNLQ KQRELQKANQ
	EQYAEGKMRG AAPGKKTSGL QQKNVEVKTK KNKQKTPGNG DGGSTSETPQ PPRKKRARVD
	PTVENEETFM NRVEVKVKIP EELKPWLVDD WDLITRQKQL FYLPAKKNVD SILEDYANYK
	KSRGNTDNKE YAVNEVVAGI KEYFNVMLGT QLLYKFERPQ YAEILADHPD APMSQVYGAP
	HLLRLFVRIG AMLAYTPLDE KSLALLLNYL HDFLKYLAKN SATLFSASDY EVAPPEYHRK AV
	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

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- 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 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®):
	 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.

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Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	MORF4L1
Alternative Name:	MORF4L1 (MORF4L1 Products)
Background:	Mortality factor 4-like protein 1 (MORF-related gene 15 protein) (MRG15) (Protein MSL3-1) (Transcription factor-like protein MRG15),FUNCTION: Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence,

apoptosis, and bird repair. The Nude complex arr ase and helicase activities seem to be, at
least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may
also play a direct role in DNA repair when directly recruited to sites of DNA damage. As part of
the SIN3B complex represses transcription and counteracts the histone acetyltransferase
activity of EP300 through the recognition H3K27ac marks by PHF12 and the activity of the
histone deacetylase HDAC2 (PubMed:37137925, PubMed:12391155, PubMed:14966270).
SIN3B complex is recruited downstream of the constitutively active genes transcriptional start
sites through interaction with histones and mitigates histone acetylation and RNA polymerase II
progression within transcribed regions contributing to the regulation of transcription
(PubMed:21041482). Required for homologous recombination repair (HRR) and resistance to
mitomycin C (MMC). Involved in the localization of PALB2, BRCA2 and RAD51, but not BRCA1,
to DNA-damage foci. {ECO:0000269 PubMed:12391155, ECO:0000269 PubMed:14966270,
ECO:0000269 PubMed:20332121, ECO:0000269 PubMed:21041482,
ECO:0000269 PubMed:37137925}.

Molecular Weight:	41.5 kDa
UniProt:	Q9UBU8
Pathways:	Chromatin Binding

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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.
Expiny Date:	Unlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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