

Datasheet for ABIN3119307

Chromosome 11open Reading Frame 9 (C11orf9) (AA 1-1151) protein (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Chromosome 11open Reading Frame 9 (C11orf9)
Protein Characteristics:	AA 1-1151
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEVVDETEAL QRFFEGHDIN GALEPSNIDT SILEEYISKE DASDLCFPDI SAPASSASYSHGQPAMPGSS GVHHLSPPGG GPSPGRHGPL PPPGYGTPLN C>NNNNGMGAA PKPFPGGTGPPKAIEPKAPY APGTLPDSPD DSGSEAYSPQ QVNEPHLLRT ITPETLCHVG VPSRLEHPPP PPAHLPGPPP PPPPPHYPV LQRDLYMKAEPPIPHYAAMG QGLVPTDLHH TQQSQMLHQL LQQHGAELPT HPSKKRKHSE SPPSTLNAQM LNGMIKQEPG TVTALPLHPT RAPSPWP GPLSPGPGSL PLSIARVQTP PWHPGAPSP GLLQDSDSLS GSYLDPNYQS IKWQPHQQNK WATLYDANYK ELPMLTYRVD ADKGFNF SVG DDAFVCQKKH HFQVTVYIGM LGEPKYVKTP EGLKPLDCFY LKLHGVKLEA L NQSINIEQS QSDRSKRPFN PVTVNLPPEQ VTKVTVGRLH FSETTANNMR KKGKPNPDQR YFMLVVALQA HAQNQNYTLA AQISERIIVR ASNPGQFESD SDVLWQRAQV PDTVFHHGRV GINTDRPDEA LVVHGNVKVM GSLMHPSDLR AKEHVQEVD TEQLKRISRM RLVHYRYKPE FAASAGIEAT APETGVIAQE VKEILPEAVK DTGDMVFANG KT IENFLVVN KERIFMENVG AVKELCKLTD NLETRIDELE RWSHKLAKLR RLD SLKSTGS
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SGAFSHAGSQ FSRAGSVPHK KRPPKVASKS SSVVPDQACI SQRFLQGTII ALVVVMAFSV
VSMSTLYVLS LRTEEDLVDT DGSFAVSTSC LLALLRPQPP GGSEALCPWS SQSFGTTQLR
QSPLTTGLPG IQPSLLLVT SLTSSAPGSA VRTLDMCSSH PCPVICCSSP TTNPTTGPSL
GPSFNPGHVL SPSPSPSTNR SGPSQMALLP VTNIRAKSWG LSVNGIGHSK HHKSLEPLAS
PAVPFPGGQG KAKNSPSLGF HGRARRGALQ SSVGPAEPTW AQQQSASLLA EPVPSLTSIQ
VLENSMSITS QYCAPGDACR PGNFTYHIPV SSGTPLHLSL TLQMNSSSPV SVVLC SLRSK
EEPCEEGLP QSLHTHQDTQ GTSHRWPITI LSFREFTYHF RVALLGQANC SSEALAQPAT
DYHFHFYRLC D

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 - all that's needed is the DNA that codes for the desired protein!

Product Details

	<p>Concentration:</p> <ul style="list-style-type: none">• 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:	<p>Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):</p> <ol style="list-style-type: none">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:	Chromosome 11open Reading Frame 9 (C11orf9)
Alternative Name:	MYRF (C11orf9 Products)
Background:	<p>Myelin regulatory factor (EC 3.4.-.-) (Myelin gene regulatory factor) [Cleaved into: Myelin regulatory factor, N-terminal, Myelin regulatory factor, C-terminal],FUNCTION: [Myelin regulatory factor]: Constitutes a precursor of the transcription factor. Mediates the autocatalytic cleavage that releases the Myelin regulatory factor, N-terminal component that specifically activates transcription of central nervous system (CNS) myelin genes (PubMed:23966832). {ECO:0000269 PubMed:23966832}., FUNCTION: [Myelin regulatory factor, C-terminal]: Membrane-bound part that has no transcription factor activity and remains attached to the endoplasmic reticulum membrane following cleavage. {ECO:0000269 PubMed:23966832}., FUNCTION: [Myelin regulatory factor, N-terminal]: Transcription factor that specifically activates expression of myelin genes such as MBP, MOG, MAG, DUSP15 and PLP1 during oligodendrocyte (OL) maturation, thereby playing a central role in oligodendrocyte maturation and CNS myelination. Specifically recognizes and binds DNA sequence 5'-CTGGYAC-3' in the regulatory regions of myelin-specific genes and directly activates their expression. Not only required during oligodendrocyte differentiation but is also required on an ongoing basis for the</p>

Target Details

	maintenance of expression of myelin genes and for the maintenance of a mature, viable oligodendrocyte phenotype (PubMed:23966832). {ECO:0000269 PubMed:23966832}.
Molecular Weight:	124.4 kDa
UniProt:	Q9Y2G1

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)



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