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Datasheet for ABIN3096249

Ubinuclein 1 Protein (UBN1) (AA 1-1134) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	Ubinuclein 1 (UBN1)
Protein Characteristics:	AA 1-1134
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ubinuclein 1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSEPDRVQFT SLPGSLNPAF LKKSREEEAG AGEQHQCCEP AAAVRITLT LFEPDHRKCP
EFFYPELVKN IRGKVKGLQP GDKKKDLSDF FNDEEKERHK VEALARKFEE KYGGKKRRKD
RIQDLIDMGY GYDESDSFID NSEAYDELVP ASLTTKYGGF YINSGTLQFR QASESEDDFI
KEKKKKSPKK RKLKEGGEKI KKKKKDDTYD KEKSKKSKF SKAGFTALNA SKEKKKKKYS
GALSVKEMLK KFQKEKEAQK KREEEHKVA VPSAEAQGLR ELEGASDPLL SLFGSTSDND
LLQAATAMDS LTDLDLEHLL SESPEGSPFR DMDDGSDSLG VGLDQEFRQP SSLPEGLPAP
LEKRVKELAQ AARAAEGESR QKFFTQDING ILLDIEAQTR ELSSQVRSGV YAYLASFLPC
SKDALLKRAR KLHLYEQGGR LKEPLQKLKE AIGRAMPEQM AKYQDECQAH TQAKVAKMLE
EEKDKEQRDR ICSDEEEDDEE KGGRRIMGPR KKFQWNDEIR ELLCQVVKIK LESQDLERNN
KAQAWEDCVK GFLDAEVKPL WPKGWMQART LFKESRRGHG HLTSILAKKK VMAPSKIIVK
ESSTKPKKKV SVPSGQIGGP IALPSDHQTG GLSIGASSRE LPSQASGGLA NPPPVNLEDS
LDEDLIRNPA SSVEAVSKEL AALNSRAAGN SEFTLPAPSK APAEKVGGVL CTEEKRNFAK

PSPSAPPPAS SLQSPLNFLA EQALALGQSS QEKKPESSGY KELSCQAPLN KGLPEVHQSK
AKHHSLPRTS HGPQVAVPVP GPQVKVFHAG TQQQKNFTPP SPFANKLQGP KASPTQCHRS
LLQLVKTAAK GQGFHPSAPA TSGGLSASSS SSHKTPASSS SALSHPAKPH SVSSAGSSYK
NNPFASSISK HGVSSGSSSS GGTPVQSSVS GSLVPGIQPP SVGQATSRPV PSSAGKKMPV
SQKLTLVAPP GGPNGDSSGG TQGVAKLLTS PSLKPSAVSS VTSSTSLSKG ASGTVLLAGS
SLMASPYKSS SPKLSGAMSS NSLGIITPVP IPVHVLSFSA DSSAKAGVSK DAIVTGPAPG
SFHHGLGHSL LAGLHSSPPH AAPLPHAAVP THI PQSLPGA SQLHGKGPV PRKL

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!

Concentration:

Product Details

- 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®): <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:	Ubinuclein 1 (UBN1)
Alternative Name:	UBN1 (UBN1 Products)
Background:	Ubinuclein-1 (HIRA-binding protein) (Protein VT4) (Ubiquitously expressed nuclear protein),FUNCTION: Acts as a novel regulator of senescence. Involved in the formation of senescence-associated heterochromatin foci (SAHF), which represses expression of proliferation-promoting genes. Binds to proliferation-promoting genes. May be required for replication-independent chromatin assembly. {ECO:0000269 PubMed:14718166, ECO:0000269 PubMed:19029251}.
Molecular Weight:	121.5 kDa
UniProt:	Q9NPG3

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.
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Application Details

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)

Images



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