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Datasheet for ABIN3084597 NSUN6 Protein (AA 1-469) (Strep Tag)





Overview

Quantity:	1 mg
Target:	NSUN6
Protein Characteristics:	AA 1-469
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NSUN6 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Characteriation	Kou Denefite:
	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	LQRFDPSAVP LPDTDMDSLR EARREDMLRL ANKDSIGFFI AKFVKCKST
	LLKPEGVLVY STCTITLAEN EEQVAWALTK FPCLQLQPQE PQIGGEGMRG AGLSCEQLKQ
	DMVEDTEGEP PFLPESFDRI LLDAPCSGMG QRPNMACTWS VKEVASYQPL QRKLFTAAVQ
	LCAAPGGKTT HIAALMHDQG EVIALDKIFN KVEKIKQNAL LLGLNSIRAF CFDGTKAVKL
	RKEIFSGLPE LKGMGIRMTE PVYLSPSFDS VLPRYLFLQN LPSALVSHVL NPQPGEKILD
	GNAVLRGAHV YAPGIVSASQ FMKAGDVISV YSDIKGKCKK GAKEFDGTKV FLGNGISELS
	LASVQHVKNL LLDELQKQFN GLSVPILQHP DLQDVLLIPV IGPRKNIKKQ QCEAIVGAQC
Sequence:	MSIFPKISLR PEVENYLKEG FMNKEIVTAL GKQEAERKFE TLLKHLSHPP SFTTVRVNTH

Characteristics:

Key Benefits:

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- · 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 posttranslational 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®):

- 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.
- 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.

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Product Details	
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:	NSUN6
Alternative Name:	NSUN6 (NSUN6 Products)
Background:	TRNA (cytosine(72)-C(5))-methyltransferase NSUN6 (EC 2.1.1) (NOL1/NOP2/Sun and PUA domain-containing protein 1) (NOL1/NOP2/Sun domain family member 6),FUNCTION: S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the C5 position of cytosine 72 in tRNA(Thr)(TGT) and tRNA(Cys)(GCA) (PubMed:26160102, PubMed:27703015, PubMed:28531330). In vitro also methylates tRNA(Thr)(AGT) (PubMed:27703015, PubMed:26160102). Methylation requires, in the acceptor stem region, the presence of the 3'-CCA terminus, the target site C72, the discriminator base U73, and the second and third base pairs (2:71 and 3:70) in the tRNA substrates (PubMed:26160102, PubMed:27703015). {ECO:0000269 PubMed:26160102, ECO:0000269 PubMed:27703015, ECO:0000269 PubMed:26160102, ECO:0000269 PubMed:28531330}.
Molecular Weight:	51.8 kDa
UniProt:	Q8TEA1
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

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Application Details	
	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)

Images

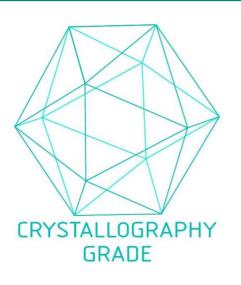


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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