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Datasheet for ABIN3094086

**NHSL1 Protein (AA 1-1610) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	NHSL1
Protein Characteristics:	AA 1-1610
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHSL1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MKKEGSSGSF RLQPNTGSLR RAVSWINFSS LSRQTKRLFR SDGELSVCGQ QVEVDDENWI YRAQPRKA VS NLDEESRWTV HYTAPWHQQE NVFLPTTRPP CVEDLHRQAK LNLKSVLREC DKLRHDGYRS SQYYSQGPTF AANASPFCDY YQDEDEETDQ KCSLSSESEE RFISIRRPKT PASSDFSDLN TQTNWTKSLP LPTPEEKMRQ QAQTVQADV V PINITASGTG QDDADGHVS Y TPDHYSTLGR FNSCRSAGQR SETRDSSCQT EDVKVPPSM RRIRAKGQG IAAQMGHFSG SSGNMSVLSD SAGIVFPSRL DSDAGFHSLP RSGARANIQS LEPLRGALGP AGDMNGTFLY QRGHPQADEN LGHLGGASGT GTLLRPKSQE LRHFESENIM SPACVVSPHA TYSTSIIPNA TLSSSSEVIA IPTAQSAQR ESKSSGSSHA RIKSRDHLIS RHAVKGDPQS PGRHWNEGHA TILSQDLDPH SPGEPA LLSL CDSAVPLNAP ANRENGSQAM PYNCRN NLAFA PAHPQDVGK SESSYSGGGG HSSSEPWEYK SSGNGRASPL KPHLATPGYS TPTSNMSSCS LDQTSNKEDA GSLYSEDHDG YCASVHTDSG HGSGNLCNSS DGFGNPRHSV INVFGRAQK NQGDRS NYQD KSLSRNISK KAKKPPLPPS RTDSLRRIPK KSSQCNGQVL NESLIATLQH SLQLSLPGKS
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GSSPSQSPCS DLEEWLPRS RSQSTVSAGS SMTSATTPNV YSLCGATPSQ SDTSSVKSEY  
TDPWGYIDY TGMQEDPGNP AGGCSTSSGV PTGNPVRHV QEGSRATMPQ VPGGSVKPKI  
MSPEKSHRVI SPSSGYSSQS NTPTALTPVP VFLKSVSPAN GKKGPKPKVP ERKSSLISSV  
SISSSSTLS SSTSTEGSGT MKKLDPVGS PPAPPPPPVP SPPFPCPADR SPFLPPPPV  
TDCSQGSPLP HSPVFPPPPP EALIPFCSP DWCLSPRPA LSPILPDSV SLPLPPPLP  
SSEPPAPPL DPKFMKDTRP PFTNSGQPS SRGSLRPPST KEETSRRPMP LITTEALQMV  
QLRPVRKNSG AEAAQLSERT AQEQRTVPV QYHLKPSAFL KSRNSTNEME SESQPASVTS  
SLPTPAKSSS QGDHGSAAER GGPVSRPGA PSAGEAEARP SPSTTLPDS SPSRKPPIS  
KKPKLFLVVP PPQKDFAVP AENVSEALRA VPSPTTGE EG SVHSREAKES SAAQAGSHAT  
HPGTSVLEGG AAGSMSPSRV EANVPMVQPD VSPAPKQEEP AENSADTGGD GESCLSQQDG  
AAGVPETNAA GSSSEACDFL KEDGNDEVMT PSRPRTTEDL FAAIHRSKRK VLGRDRSDDD  
HSRNHSPSP VTPTGAAPSL ASPKQVGSIQ RSIRKSSTSS DNFKALLKK GSRSDTSARM  
SAAEMLKNTD PRFQSRSEP SPDAPESPSS CSPSKNRRQA EEWAKNEGLM PRSLSFSGPR  
YGRSRTPPSA ASSRYSMRNR IQSSPMTVIS EGEGEAVEPV DSIARGALGA AEGCSLDGLA  
REEMDEGGLL CGEGPAASLQ PQAPGPVDGT ASAEGREPSP QCGGSLSEES

**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-

## Product Details

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®):

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:

NHSL1

Alternative Name:

NHSL1 ([NHSL1 Products](#))

Background:

NHS-like protein 1

Molecular Weight:

170.7 kDa

UniProt:

[Q5SYE7](#)

## Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

## Application Details

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as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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### 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!

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### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

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### Buffer:

The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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### Handling Advice:

Avoid repeated freeze-thaw cycles.

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### Storage:

-80 °C

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### Storage Comment:

Store at -80°C.

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### Expiry Date:

Unlimited (if stored properly)