

Datasheet for ABIN3095304  
**SBNO2 Protein (AA 1-1366) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	SBNO2
Protein Characteristics:	AA 1-1366
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SBNO2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MLAVGPAMDR DYPQHEPPPA GSLLYSPPPL QSAMLHCPYW NTFSLPPYPA FSSDSRPFMS SASFLGSQPC PDTSYAPVAT ASSLPKTCDF AQDSSYFED FSNISIFSSS VDSLSDIVDT PDFLPADSLN QVSTIWDDNP APSTHDKLFQ LSRPFAGFED FLPSHSTPLL VSYQEVSQVS QPEEEDAEAE EAAEELGHTY TYADYVPSKS KIGKQHPDRV VETSTLSSVP PPDITYTLAL PSDSGALSAL QLEAITYACQ QHEVLLPSGQ RAGFLIGDGA GVGKGRTVAG VILENHLRGR KKALWFSVSN DLKYDAERDL RDIEATGIAV HALSKIYKGD TTTSEGVLFATYSALIGESQ AGGQHRTRLR QILDWCGEAF EGVIVFDECH KAKNAGSTKM GKAVLDLQNK LPLARVVIYAS ATGASEPRNM IYMSRLGIWG EGTPFRNFEE FLHAIKRGV GAMEIVAMDM KVSGMYIARQ LSFSGVTFRI EEIPLAPAFE CVYNRAALLW AEALNVFQQA ADWIGLESRK SLWGQFWSAH QRFFKYLCIA AKVRRLEVELA REELARDKCV VIGLQSTGEA RTREVLGEND GHLNCFVSAA EGVFLSLIQK HFPSTKRKRD RGAGSKRKRR PRGRGAKAPR LACETAGVIR ISDDSSSTESD PGLDSDFNSS PESLVDDDVV IVDVAVGLPSD DRGPLCLLQR DPHGPGVLER VERLQDILLD
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KVRRRLGRELP VNTLDELIDQ LGGPQRVAEM TGRKGRVVS R PDGTVAFESR AEQGLSIDHV  
NLREKQRFMS GEKLVAIISE ASSSGVSLQA DRRVQNQRRR VHMTLELPWS ADRAIQFGR  
THRSNQVSAP EYVFLISELA GERRFASIVA KRLESLGALT HGDRRATESR DLSKYNFENK  
YGTRALHCVL TTILSQTENK VPVPQGYGG VPTFFRDMKQ GLLSVGIGGR ESRNGCLDVE  
KDCSITKFLN RILGLEVHKQ NALFQYFSDT FDHLIEMDKR EGKYDMGILD LAPGIEEIE  
ESQQVFLAPG HPQDGQVVVFY KISVDRGLKW EDAFAKSLAL TGPYDGFYLS YKVRGNKPSC  
LLAEQNRGQF FTVYKPNIGR QSQLEALDSL RRRKFRVTAE EAKEPWESGY ALSLTHCSHS  
AWNRRHCLAQ EGKDCLQGLR LRHHYMLCGA LLRVWGRIAA VMADVSSSSY LQIVRLKTKD  
RKKQVGIKIP EGCVRRVLQE LRLMDADVKR RQAPALGCPA PPAPRPLALP CGPGEVLDLT  
YSPPAEAFPP PPHFSFPAPL SLDAGPGVVP LGTPDAQADP AALAHQGC DI NFKEVLEDML  
RSLHAGPPSE GALGEGAGAG GAAGGGPERQ SVIQFSPFPF GAQAPL

**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.**

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### 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

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	SBNO2
Alternative Name:	SBNO2 ( <a href="#">SBNO2 Products</a> )
Background:	Protein strawberry notch homolog 2,FUNCTION: Acts as a transcriptional coregulator, that can have both coactivator and corepressor functions. Inhibits the DCSTAMP-repressive activity of TAL1, hence enhancing the access of the transcription factor MITF to the DC-STAMP promoter in osteoclast. Plays a role in bone homeostasis, required as a positive regulator in TNFSF11//RANKL-mediated osteoclast fusion via a DCSTAMP-dependent pathway. May also be required in the regulation of osteoblast differentiation (By similarity). Involved in the transcriptional corepression of NF-kappaB in macrophages (PubMed:18025162). Plays a role as a regulator in the pro-inflammatory cascade (PubMed:18025162). {ECO:0000250 UniProtKB:Q7TNB8, ECO:0000269 PubMed:18025162}.
Molecular Weight:	150.3 kDa

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## Target Details

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UniProt: [Q9Y2G9](#)

## Application Details

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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

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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