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Datasheet for ABIN3095604  
**Sorbs2 Protein (AA 1-1100) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	Sorbs2
Protein Characteristics:	AA 1-1100
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sorbs2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence: MSYYQRPFSP SAYSLPASLN SSIVMQHGTS LDSTDYTPQH AQSLDGTSS SIPLYRSSEE  
EKRVTVIKAP HYPGIGPVDE SGIPTAIRTT VDRPKDWYKT MFKQIHMVHK PDDDTDMYNT  
PYTYNAGLYN PPYSAQSHPA AKTQTYRPLS KSHSDNSPNA FKDASSPVPP PHVPPPVPPL  
RPRDRSSTEK HDWDPPDRKV DTRKFRSEPR SIFEYEPGKS SILQHERPAS LYQSSIDRSL  
ERPMSASMA SDFRKRKSE PAVGPPRGLG DQSASRTSPG RVDLPGSSTT LTKSFTSSSP  
SSPSRAKGGD DSKICPSLCS YSGLNGNPSS ELDYCSTYRQ HLDVPRDSPR AISFKNGWQM  
ARQNAEIWSS TEETVSPKIK SRSCDLLND DCDSFPDPKV KSESMGSLLC EEDSKESCPM  
AWGSPYVPEV RSNGRSRIRH RSARNAPGFL KMYKKMHRIN RKDLMNSEVI CSVKSRILQY  
ESEQQHKDLL RAWQCSTEE VPRDMVPTRI SEFEKLIQKS KSMPNLGDDM LSPVTLEPPQ  
NGLCPKRRFS IEYLLEENQ SGPPARGRRG CQSNALVPIH IEVTSDEQPR AHVEFSDSDQ  
DGVVSDHSDY IHLEGSSFCS ESDFDHFSFT SSESFYGSSH HHHHHHHHHHH RHLISSCKGR  
CPASYTRFTT MLKHERARHE NTEPPRRQEM DPGLSKLAFL VSPVPFRRKK NSAPKKQTEK

AKCKASVFEA LDSALKDICD QIKAEKKRGS LPDNSILHRL ISELLPDVPE RNSSLRALRR  
SPLHQPLHPL PPDGAIHCPP YQNDCGRMPR SASFQDVDTA NSSCHHQDRG GALQDRESPR  
SYSSTLTDMG RSAPRERRGT PEKEKLPKA VYDFKAQTSK ELSFKKGDTV YILRKIDQNW  
YEGEHHGRVG IFPISYVEKL TPPEKAQPAR PPPPAQPGEI GEIAKYNFN ADTNVELSLR  
KGDRVILLKR VDQNWYEGKI PGTNRQGIFP VSYVEVVKKN TKGAEDYPDP PIPHSYSSDR  
IHSLSSNKPQ RPVFTHENIQ GGGEPFQALY NYTPRNEDEL ELRESVIDV MEKCDDGWFV  
GTSRRTKFFG TFPGNVVKRL

**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 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

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- 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®):

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.

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**Purity:** >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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**Endotoxin Level:** Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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**Target:** Sorbs2

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**Alternative Name:** SORBS2 ([Sorbs2 Products](#))

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**Background:** Sorbin and SH3 domain-containing protein 2 (Arg-binding protein 2) (ArgBP2) (Arg/Abl-interacting protein 2) (Sorbin),FUNCTION: Adapter protein that plays a role in the assembling of signaling complexes, being a link between ABL kinases and actin cytoskeleton. Can form complex with ABL1 and CBL, thus promoting ubiquitination and degradation of ABL1. May play a role in the regulation of pancreatic cell adhesion, possibly by acting on WASF1 phosphorylation, enhancing phosphorylation by ABL1, as well as dephosphorylation by PTPN12 (PubMed:18559503). Isoform 6 increases water and sodium absorption in the intestine and gall-bladder. {ECO:0000269|PubMed:12475393, ECO:0000269|PubMed:18559503, ECO:0000269|PubMed:9211900}.

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**Molecular Weight:** 124.1 kDa

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**UniProt:** [O94875](#)

## 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

## Application Details

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guarantee though.

Comment:

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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)