

Datasheet for ABIN3134787

## SOS2 Protein (AA 1-1333) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SOS2
Protein Characteristics:	AA 1-1333
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>             MQQAPQPYEF FSEENSPKWR GLLVPALRKV QEQVHPTLSA NEESLYYIEE LIFQLLNKLC              MAQPRTVQDV EERVQKTFPH PIDKWAIADA QSAIEKRKR NPLLLPVDKI HPSLKEVLGY              KVDYHVSlyI VAVLEYISAD ILKLAGNYVF NIRHYEISQQ DIKVSMDADK VLMDMFDQDD              DIGLVSLCED EPCSSGELNY YDLVRTEIAE ERQYLRELN IIKVFREAFL LDRKLFKPSE IEKIFSNISD              IHELTVKLLG LIEDTVEMTD ESSPHPLAGS CFEDLAEEQA FDPYETLSQD ILAPEFNDHF              SKLMARPAVA LHFQSIADGF KEAVRYVLPR LMLVPVYHCW HYFELLKQLK ACSEEQEDKE              CLNQAITALM NLQGSMDRIY KQHSPRRRPG DPVCLFYNRQ LRSKHLAIKK MNEIQKNIDG              WEGKDIGQCC NEFIMEGPLT RIGAKHERHI FLFDGLMISC KPNHGQTRL P GYSSAEYRLK              EKFMVRKIQI CDKEDACEYR HAFELVSKDE NSVIFAAKSA EEKNNWMAAL ISLHYRSTLD              RMLDSVLLKE ENEQPLRLPS PDMYRFVVD SEENIVFEDN LQSRSGIPII KGGTVVKLIE              RLTYHMYADP NFVRTFLTTY RSFCKPQELL NLLIERFEIP EPEPTADKL ALEKGEQPIS           </p>

ADLKRFRKEY VQPVQLRVLN VFRHWVEHHY YDFERDLELL ERLESFISSV RGKAMKKWVE  
SIAKIIKRKK QAQANGISHN ITFESSPPPV EWHISRTGQF ETFDMLTLHP IEIARQLTLL  
ESDLYRKVQP SELVGSVWTK EDKEINSPNL LKMIRHTTNL TLWFEKCIVE AENFEERVAV  
LSRIVEILQV FQDLNNFNGV LEIVSAVNSV SVYRLDHTFE ALQERKRRL DDAVELSQDH  
FKKYLVKLKS INPPCVFFG IYLTNILKTE EGNSDFLKRK GKDLINFSKR RKVAEITGEI  
QQYQNQPYCL RTEPEMRRFF ENLNPMGILS EKEFTDYLFN KSLEIEPRNC KQPPRFPRKS  
TFSLKSPGIR PNAGRHGSTS GTLRGHPTPL EREPYKISFS RIAETELEST VSAPTSPNTP  
STPPVSASSD HSVFLDVDLN SSCGSNTIFA PVLLPHSKTF FSSCGSLHKL SEEPLIPPL  
PPRKKFDHDA LNSKGAVKSD DDPPAIPPRQ PPPPKVKPRV PVLMGTFDGP VPSPPPPPPR  
DPLPDTPPV PLRPPEHFIN CPFNLQPPPL GHPRDPDWL RDVSTCPNSP STPPTTSPR  
IPRSCHLLSS SHSSLAHLPA PPVPPRQNSS PLLPKLPPKT YKRELSHPPL YRLPLENAE TPQ

**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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 -

## Product Details

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	SOS2
Alternative Name:	Sos2 ( <a href="#">SOS2 Products</a> )
Background:	Son of sevenless homolog 2 (SOS-2) (mSOS-2),FUNCTION: Promotes the exchange of Ras-bound GDP by GTP. {ECO:0000250 UniProtKB:Q62245}.
Molecular Weight:	153.1 kDa
UniProt:	<a href="#">Q02384</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Hepatitis C</a> , <a href="#">BCR Signaling</a>

## 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:	<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</p>

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months