

[Go to Product page](#)

Datasheet for ABIN3095194

SAMD9 Protein (AA 1-1589) (Strep Tag)

Overview

Quantity:	1 mg
Target:	SAMD9
Protein Characteristics:	AA 1-1589
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SAMD9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAKQLNLPEN TDDWTKEDVN QWLESHKIDQ KHREILTEQD VNGAVLKWLK KEHLVDMGIT HGPAIQIEEL FKELRKTAIE DSIQTSKMGK PSKNAPKDQT VSQKERRETS KQKQKGKENP DMANPSAMST TAKGSKSLKV ELIEDKIDYT KERQPSIDLT CVSYPFDEFS NPYRYKLDFS LQPETGPGNL IDPIHEFKAF TNTATATEED VKMKFSNEVF RFASACMNSR TNGTIHFGVK DKPHGKIVGI KVTNDTKEAL INHFNLMINK YFEDHQVQQA KKCIREPRFV EVLLPNSTLS DRFVIEVDII PQFSECQYDY FQIKMQNYNN KIWEQSKKFS LFVRDGTSSK DITKNKVDFR AFKADFKTLA ESRKAAEEKF RAKTNKKERE GPKLVKLLTG NQDLLDNSYY EQYILVTNKC HPDQTKHLDF LKEIKWFAVL EFDPE SNING VVKAYKESRV ANLHFPSVYV EQKTTPNETI STLNLYHQPS WIFCNGRLDL DSEKYKPFDP SSWQRERASD VRKLISFLTH EDIMPRGKFL VVFLLSSVD DPRDPLIETF CAFYQDLKGM ENILCICVHP HIFQGWKDLL EARLIKHQDE ISSQCISALS LEEINGTILK LKSVTQSSKR LLPSIGLSTV LLKKEEDIMT ALEIICENEC EGTLLEKDKN KFLEFKASKE EDFYRGGKVS WWNFYFSSSES YSSPFVKRDK YERLEAMIQN CADSSKPTST
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KIIHLYHHPG CGGTTLAMHI LWELRKKFRC AVLKNKTVDF SEIGEQTSL ITYGAMNRQE
YVPVLLLVDD FEEQDNVYLL QYSIQTAIAK KYIRYEKPLV IILNCMRSQN PEKSARIPDS
IAVIQQLSPK EQRAFELKLK EIKEQHKNFE DFYSFMIMKT NFNKEYIENV VRNILKGQNI
FTKEAKLFSF LALLNSYVPD TTISLSQCEK FLGIGNKCAF WGTEKFEDKM GTYSTILIKT
EVIECGNYCG VRIIHSIAE FSLEELKKS Y HLNKSQIMLD MLTENLFFDT GMGKSKFLQD
MHTLLLTRHR DEHEGETGNW FSPFIEALHK DEGNEAVEAV LLESIHRFNP NAFICQALAR
HFYIKKKDFG NALNWAKQAK IIEPDNSYIS DTLGQVYKSK IRWWIEENG NGNISVDDLI
ALLDLAEHAS SAFKESQQQS EDREYEVKER LYPKSKRRYD TYNIAGYQGE IEVGLYTIQI
LQLIPFFDNK NELSKRYMVN FVSGSSDIPG DPNNEYKLAL KNYIPYLTCL KFSLKKSDFD
FDEYFVLLKP RNNIKQNEEA KTRRKVAGYF KKYVDIFCLL EESQNNTGLG SKFSEPLQVE
RCRRNLVALK ADKFSGLLEY LIKSQEDAI TMKCI VNEYT FLLEQCTVKI QSKEKLNFI ANIILSCIQP
TSRLVKPVEK LKDQLREVLQ PIGLTYQFSE PYFLASLLFW PENQQLDQHS EQMKEYAQAL
KNSFKGQYKH MHRTKQPIAY FFLGKGKRL RLVHKGKIDQ CFKKTDPINS LWQSGDVWKE
EKVQELLRL QGRAENNCLY IEYGINEKIT IPITPAFLGQ LRSGRSIEKV SFYLGFSIGG PLAYDIEIV

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-translational modifications.

Product Details

- 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:	SAMD9
Alternative Name:	SAMD9 (SAMD9 Products)
Background:	Sterile alpha motif domain-containing protein 9 (SAM domain-containing protein 9),FUNCTION: Double-stranded nucleic acid binding that acts as an antiviral factor by playing an essential role in the formation of cytoplasmic antiviral granules (PubMed:25428864, PubMed:28157624). May play a role in the inflammatory response to tissue injury and the control of extra-osseous calcification, acting as a downstream target of TNF-alpha signaling. Involved in the regulation of EGR1, in coordination with RGL2. May be involved in endosome fusion. {ECO:0000269 PubMed:16960814, ECO:0000269 PubMed:18094730,

Target Details

ECO:0000269|PubMed:21160498, ECO:0000269|PubMed:24029230,
ECO:0000269|PubMed:25428864, ECO:0000269|PubMed:28157624}.

Molecular Weight: 184.3 kDa

UniProt: [Q5K651](#)

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 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)