

# Datasheet for ABIN3092464 SMG6 Protein (AA 1-1419) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SMG6
Protein Characteristics:	AA 1-1419
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMG6 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MAEGLERVRI SASELRGILA TLAPQAGSRE NMKELKEARP RKDNRRPDLE IYKPGLSRLR
	NKPKIKEPPG SEEFKDEIVN DRDCSAVENG TQPVKDVCKE LNNQEQNGPI DPENNRGQES
	FPRTAGQEDR SLKIIKRTKK PDLQIYQPGR RLQTVSKESA SRVEEEEVLN QVEQLRVEED
	ECRGNVAKEE VANKPDRAEI EKSPGGGRVG AAKGEKGKRM GKGEGVRETH DDPARGRPGS
	AKRYSRSDKR RNRYRTRSTS SAGSNNSAEG AGLTDNGCRR RRQDRTKERP RLKKQVSVSS
	TDSLDEDRID EPDGLGPRRS SERKRHLERN WSGRGEGEQK NSAKEYRGTL RVTFDAEAMN
	KESPMVRSAR DDMDRGKPDK GLSSGGKGSE KQESKNPKQE LRGRGRGILI LPAHTTLSVN
	SAGSPESAPL GPRLLFGSGS KGSRSWGRGG TTRRLWDPNN PDQKPALKTQ TPQLHFLDTD
	DEVSPTSWGD SRQAQASYYK FQNSDNPYYY PRTPGPASQY PYTGYNPLQY PVGPTNGVYP
	GPYYPGYPTP SGQYVCSPLP TSTMSPEEVE QHMRNLQQQE LHRLLRVADN QELQLSNLLS
	RDRISPEGLE KMAQLRAELL QLYERCILLD IEFSDNQNVD QILWKNAFYQ VIEKFRQLVK

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3092464 | 02/26/2025 | Copyright antibodies-online. All rights reserved. DPNVENPEQI RNRLLELLDE GSDFFDSLLQ KLQVTYKFKL EDYMDGLAIR SKPLRKTVKY ALISAQRCMI CQGDIARYRE QASDTANYGK ARSWYLKAQH IAPKNGRPYN QLALLAVYTR RKLDAVYYYM RSLAASNPIL TAKESLMSLF EETKRKAEQM EKKQHEEFDL SPDQWRKGKK STFRHVGDDT TRLEIWIHPS HPRSSQGTES GKDSEQENGL GSLSPSDLNK RFILSFLHAH GKLFTRIGME TFPAVAEKVL KEFQVLLQHS PSPIGSTRML QLMTINMFAV HNSQLKDCFS EECRSVIQEQ AAALGLAMFS LLVRRCTCLL KESAKAQLSS PEDQDDQDDI KVSSFVPDLK ELLPSVKVWS DWMLGYPDTW NPPPTSLDLP SHVAVDVWST LADFCNILTA VNQSEVPLYK DPDDDLTLLI LEEDRLLSGF VPLLAAPQDP CYVEKTSDKV IAADCKRVTV LKYFLEALCG QEEPLLAFKG GKYVSVAPVP DTMGKEMGSQ EGTRLEDEEE DVVIEDFEED SEAEGSGGED DIRELRAKKL ALARKIAEQQ RRQEKIQAVL EDHSQMRQME LEIRPLFLVP DTNGFIDHLA SLARLLESRK YILVVPLIVI NELDGLAKGQ ETDHRAGGYA RVVQEKARKS IEFLEQRFES RDSCLRALTS RGNELESIAF RSEDITGQLG NNDDLILSCC LHYCKDKAKD FMPASKEEPI

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 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 posttranslational 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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3092464 | 02/26/2025 | Copyright antibodies-online. All rights reserved. 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 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:	SMG6
Alternative Name:	SMG6 (SMG6 Products)
Background:	Telomerase-binding protein EST1A (EC 3.1) (Ever shorter telomeres 1A) (hEST1A) (Nonsense
	mediated mRNA decay factor SMG6) (Smg-6 homolog) (hSmg5/7a),FUNCTION: Component of
	the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of
	chromosome termini (PubMed:19179534). May have a general role in telomere regulation
	(PubMed:12676087, PubMed:12699629). Promotes in vitro the ability of TERT to elongate
	telomeres (PubMed:12676087, PubMed:12699629). Overexpression induces telomere
	uncapping, chromosomal end-to-end fusions (telomeric DNA persists at the fusion points) and
	did not perturb TRF2 telomeric localization (PubMed:12676087, PubMed:12699629). Binds to
	the single-stranded 5'-(GTGTGG)(4)GTGT-3' telomeric DNA, but not to a telomerase RNA
	template component (TER) (PubMed:12676087, PubMed:12699629).
	{EC0:0000269 PubMed:12676087, EC0:0000269 PubMed:12699629,
	ECO:0000269 PubMed:19179534}., FUNCTION: Plays a role in nonsense-mediated mRNA
	decay (PubMed:18974281, PubMed:19060897, PubMed:20930030, PubMed:17053788). Is
	thought to provide a link to the mRNA degradation machinery as it has endonuclease activity
	required to initiate NMD, and to serve as an adapter for UPF1 to protein phosphatase 2A
	(PP2A), thereby triggering UPF1 dephosphorylation (PubMed:18974281, PubMed:19060897,

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	PubMed:20930030, PubMed:17053788). Degrades single-stranded RNA (ssRNA), but not
	ssDNA or dsRNA (PubMed:18974281, PubMed:19060897, PubMed:20930030,
	PubMed:17053788). {ECO:0000269 PubMed:17053788, ECO:0000269 PubMed:18974281,
	ECO:0000269 PubMed:19060897, ECO:0000269 PubMed:20930030}.
Molecular Weight:	160.5 kDa
JniProt:	Q86US8
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.
	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

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