Datasheet for ABIN7553836

SMG6 Protein (AA 1-1419) (His tag)

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Overview

Quantity:	1 mg
Target:	SMG6
Protein Characteristics:	AA 1-1419
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMG6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SMG6 Protein expressed in mammalian cells.
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 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 RLLREVVLLT DDRNLRVKAL TRNVPVRDIP AFLTWAQVG **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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). {ECO:0000269|PubMed:12676087, ECO: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, 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
UniProt:	Q86US8

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

