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Datasheet for ABIN3092895 GSG2 Protein (AA 1-798) (Strep Tag)





Overview

Quantity:	1 mg
Target:	GSG2
Protein Characteristics:	AA 1-798
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSG2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAASLPGPGS RLFRTYGAAD GRRQRRPGRE AAQWFPPQDR RRFFNSSGSS DASIGDPSQS
	DDPDDPDDPD FPGSPVRRRR RRPGGRVPKD RPSLTVTPKR WKLRARPSLT VTPRRLGLRA
	RPPQKCSTPC GPLRLPPFPS RDSGRLSPDL SVCGQPRDGD ELGISASLFS SLASPCPGSP
	TPRDSVISIG TSACLVAASA VPSGLHLPEV SLDRASLPCS QEEATGGAKD TRMVHQTRAS
	LRSVLFGLMN SGTPEDSEFR ADGKNMRESC CKRKLVVGNG PEGPGLSSTG KRRATGQDSC
	QERGLQEAVR REHQEASVPK GRIVPRGIDR LERTRSSRKS KHQEATETSL LHSHRFKKGQ
	KLGKDSFPTQ DLTPLQNVCF WTKTRASFSF HKKKIVTDVS EVCSIYTTAT SLSGSLLSEC
	SNRPVMNRTS GAPSSWHSSS MYLLSPLNTL SISNKKASDA EKVYGECSQK GPVPFSHCLP
	TEKLQRCEKI GEGVFGEVFQ TIADHTPVAI KIIAIEGPDL VNGSHQKTFE EILPEIIISK ELSLLSGEVC
	NRTEGFIGLN SVHCVQGSYP PLLLKAWDHY NSTKGSANDR PDFFKDDQLF IVLEFEFGGI
	DLEQMRTKLS SLATAKSILH QLTASLAVAE ASLRFEHRDL HWGNVLLKKT SLKKLHYTLN
	GKSSTIPSCG LQVSIIDYTL SRLERDGIVV FCDVSMDEDL FTGDGDYQFD IYRLMKKENN

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 ABIN3092895 | 04/17/2024 | Copyright antibodies-online. All rights reserved. NRWGEYHPYS NVLWLHYLTD KMLKQMTFKT KCNTPAMKQI KRKIQEFHRT MLNFSSATDL LCQHSLFK

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 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
 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.

Product DetailsPurification: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)</td>Grade:Crystallography grade

Target Details

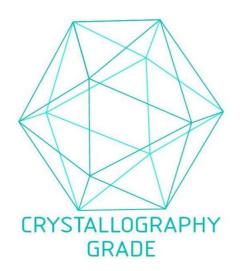
Target:	GSG2
Alternative Name:	HASPIN (GSG2 Products)
Background:	Serine/threonine-protein kinase haspin (EC 2.7.11.1) (Germ cell-specific gene 2 protein) (H-
	haspin) (Haploid germ cell-specific nuclear protein kinase),FUNCTION: Serine/threonine-protein
	kinase that phosphorylates histone H3 at 'Thr-3' (H3T3ph) during mitosis. May act through
	H3T3ph to both position and modulate activation of AURKB and other components of the
	chromosomal passenger complex (CPC) at centromeres to ensure proper chromatid cohesion,
	metaphase alignment and normal progression through the cell cycle.
	{ECO:0000269 PubMed:11228240, ECO:0000269 PubMed:15681610,
	EC0:0000269 PubMed:17084365, EC0:0000269 PubMed:20705812,
	ECO:0000269 PubMed:20929775}.
Molecular Weight:	88.5 kDa
UniProt:	Q8TF76
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

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	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.

Images

Expiry Date:



Unlimited (if stored properly)

Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process