Datasheet for ABIN3095711

STAG3 Protein (AA 1-1225) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STAG3
Protein Characteristics:	AA 1-1225
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAG3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSSPLQRAVG DTKRALSASS SSSASLPFDD RDSNHTSEGN GDSLLADEDT DFEDSLNRNV KKRAAKRPPK TTPVAKHPKK GSRVVHRHSR KQSEPPANDL FNAVKAAKSD MQSLVDEWLD SYKQDQDAGF LELVNFFIQS CGCKGIVTPE MFKKMSNSEI IQHLTEQFNE DSGDYPLIAP GPSWKKFQGS FCEFVRTLVC QCQYSLLYDG FPMDDLISLL TGLSDSQVRA FRHTSTLAAM KLMTSLVKVA LQLSVHQDNN QRQYEAERNK GPGQRAPERL ESLLEKRKEL QEHQEEIEGM MNALFRGVFV HRYRDVLPEI RAICIEEIGC WMQSYSTSFL TDSYLKYIGW TLHDKHREVR LKCVKALKGL YGNRDLTTRL ELFTSRFKDR MVSMVMDREY DVAVEAVRLL ILILKNMEGV LTDADCESVY PVVYASHRGL ASAAGEFLYW KLFYPECEIR MMGGREQRQS PGAQRTFFQL LLSFFVESEL HDHAAYLVDS LWDCAGARLK DWEGLTSLLL EKDQNLGDVQ ESTLIEILVS SARQASEGHP PVGRVTGRKG LTSKERKTQA DDRVKLTEHL IPLLPQLLAK FSADAEKVTP LLQLLSCFDL HIYCTGRLEK HLELFLQQLQ EVVVKHAEPA VLEAGAHALY LLCNPEFTFF

SRADFARSQL VDLLTDRFQQ ELEELLQSSF LDEDEVYNLA ATLKRLSAFY NTHDLTRWEL YEPCCQLLQK AVDTGEVPHQ VILPALTLVY FSILWTLTHI SKSDASQKQL SSLRDRMVAF CELCQSCLSD VDTEIQEQAF VLLSDLLLIF SPQMIVGGRD FLRPLVFFPE ATLQSELASF LMDHVFIQPG DLGSGDSQED HLQIERLHQR RRLLAGFCKL LLYGVLEMDA ASDVFKHYNK FYNDYGDIIK ETLTRARQID RSHCSRILLL SLKQLYTELL QEHGPQGLNE LPAFIEMRDL ARRFALSFGP QQLQNRDLVV MLHKEGIQFS LSELPPAGSS NQPPNLAFLE LLSEFSPRLF HQDKQLLLSY LEKCLQHVSQ APGHPWGPVT TYCHSLSPVE NTAETSPQVL PSSKRRRVEG PAKPNREDVS SSQEESLQLN SIPPTPTLTS TAVKSRQPLW GLKEMEEEDG SELDFAQGQP VAGTERSRFL GPQYFQTPHN PSGPGLGNQL MRLSLMEEDE EEELEIQDES NEERQDTDMQ ASSYSSTSER GLDLLDSTEL DIEDF

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 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!

Product Details

	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:	STAG3
Alternative Name:	STAG3 (STAG3 Products)
Background:	Cohesin subunit SA-3 (SCC3 homolog 3) (Stromal antigen 3) (Stromalin-3),FUNCTION: Meiosis specific component of cohesin complex. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I. {ECO:0000269|PubMed:31682730}.
Molecular Weight:	139.0 kDa
UniProt:	Q9UJ98

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.

Application 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!
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