Datasheet for ABIN3095721

STAG2 Protein (AA 1-1231) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STAG2
Protein Characteristics:	AA 1-1231
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAG2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MIAAPEIPTD FNLLQESETH FSSDTDFEDI EGKNQKQGKG KTCKKGKKGP AEKGKGGNGG GKPPSGPNRM NGHHQQNGVE NMMLFEVVKM GKSAMQSVVD DWIESYKHDR DIALLDLINF FIQCSGCKGV VTAEMFRHMQ NSEIIRKMTE EFDEDSGDYP LTMAGPQWKK FKSSFCEFIG VLVRQCQYSI IYDEYMMDTV ISLLTGLSDS QVRAFRHTST LAAMKLMTAL VNVALNLSIN MDNTQRQYEA ERNKMIGKRA NERLELLLQK RKELQENQDE IENMMNAIFK GVFVHRYRDA IAEIRAICIE EIGIWMKMYS DAFLNDSYLK YVGWTMHDKQ GEVRLKCLTA LQGLYYNKEL NSKLELFTSR FKDRIVSMTL DKEYDVAVQA IKLLTLVLQS SEEVLTAEDC ENVYHLVYSA HRPVAVAAGE FLYKKLFSRR DPEEDGMMKR RGRQGPNANL VKTLVFFFLE SELHEHAAYL VDSMWDCATE LLKDWECMNS LLLEEPLSGE EALTDRQESA LIEIMLCTIR QAAECHPPVG RGTGKRVLTA KEKKTQLDDR TKITELFAVA LPQLLAKYSV DAEKVTNLLQ LPQYFDLEIY TTGRLEKHLD ALLRQIRNIV EKHTDTDVLE ACSKTYHALC NEEFTIFNRV DISRSQLIDE

LADKFNRLLE DFLQEGEEPD EDDAYQVLST LKRITAFHNA HDLSKWDLFA CNYKLLKTGI ENGDMPEQIV IHALQCTHYV ILWQLAKITE SSSTKEDLLR LKKQMRVFCQ ICQHYLTNVN TTVKEQAFTI LCDILMIFSH QIMSGGRDML EPLVYTPDSS LQSELLSFIL DHVFIEQDDD NNSADGQQED EASKIEALHK RRNLLAAFCK LIVYTVVEMN TAADIFKQYM KYYNDYGDII KETMSKTRQI DKIQCAKTLI LSLQQLFNEM IQENGYNFDR SSSTFSGIKE LARRFALTFG LDQLKTREAI AMLHKDGIEF AFKEPNPQGE SHPPLNLAFL DILSEFSSKL LRQDKRTVYV YLEKFMTFQM SLRREDVWLP LMSYRNSLLA GGDDDTMSVI SGISSRGSTV RSKKSKPSTG KRKVVEGMQL SLTEESSSSD SMWLSREQTL HTPVMMQTPQ LTSTIMREPK RLRPEDSFMS VYPMQTEHHQ TPLDYNRRGT SLMEDDEEPI VEDVMMSSEG RIEDLNEGMD FDTMDIDLPP SKNRRERTEL KPDFFDPASI MDESVLGVSM F

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:	STAG2
Alternative Name:	STAG2 (STAG2 Products)
Background:	Cohesin subunit SA-2 (SCC3 homolog 2) (Stromal antigen 2),FUNCTION: Component of cohesin complex, a complex 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 cohesin complex may also play a role in spindle pole assembly during mitosis. {ECO:0000269|PubMed:12034751}.
Molecular Weight:	141.3 kDa
UniProt:	Q8N3U4
Pathways:	Stem Cell Maintenance

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