Datasheet for ABIN3132047

STAG3 Protein (AA 1-1240) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	STAG3
Protein Characteristics:	AA 1-1240
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAG3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MPTLWSPSTQ HHGSSSGSES SPLQKSVRRA QMALSPCSSS ILPCDDRDSQ GTAEWDSPST NEDSDFEDSL RRNVKKRAAK QPPKAVPAAK HRKKQSRIVS SGNGKNESVP STNYLFDAVK AARSCMQSLV DEWLDNYKQD ENAGFLELIN FFIRACGCKS TVTPEMFKTM SNSEIIQHLT EEFNEDSGDY PLTAPGPSWK KFQGSFCEFV KTLVYQCQYS LLYDGFPMDD LISLLIGLSD SQVRAFRHTS TLAAMKLMTS LVKVALQLSL HKDNNQRQYE AERNKGPEQR APERLESLLE KRKEFQENQE DIEGMMNAIF RGVFVHRYRD ILPEIRAICI EEIGYWMQSY STSFLNDSYL KYIGWTLHDK HKEVRLKCVK ALAGLYSNQE LSLRMELFTN RFKDRMVSMV MDRECEVAVE AIRLLTLILK NMEGVLTSAD CEKIYSIVYI SNRAMASSAG EFVYWKIFHP ECGAKAVSDR ERRRSPQAQK TFIYLLLAFF MESEHHNHAA YLVDSLWDCA GSYLKDWESL TNLLLQKDQN LGDMQERMLI EILVSSARQA AEGHPPVGRI TGKKSLTAKE RKLQAYDKMK LAEHLIPLLP QLLAKFSADA ENVAPLLQLL SYFDLSIYCT QRLEKHLELL LQQLQEVVVK HVEPEVLEAA AHALYLLCKP EFTFFSRVDF ARSQLVDFLT DRFQQELDDL MQSSFLDEDE VYSLTATLKR

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LSAFYNAHDL TRWEISEPCS RLLRKAVDTG EVPHQVILPA LTLVYFSILW TVTHISESTS HKQLMSLKKR MVAFCELCQS CLSDVDPEIQ EQAFVLLSDL LLIFSPQMIV GGRDFLRPLV FFPEATLQSE LASFLMDHVF LQPGELGNGQ SQEDHVQIEL LHQRRRLLAG FCKLLLYGVL ELDAASDVFK HYNKFYEDYG DIIKETLTRA RQIDRCQCSR ILLLSLKQLY TELIQEQGPQ GLTELPAFIE MRDLARRFAL SFGPQQLHNR DLVVMLHKEG IKFSLSELPP AGSSHEPPNL AFLELLSEFS PRLFHQDKRL LLSYLEKCLQ RVSKAPNHPW GPVTTYCHSL HPLEITAEAS PRGPPHSKKR CVEGPCRPQE EESSSQEESL QLNSGPTTPT LTSTAVKRKQ SLRTVGKKQK GRPGPGPGPG PELICSQQLL GTQRLKMSSA PCFQIRCDPS GSGLGKQLTR LSLMEEDEEE ELRLLDEEWQ RGDKMLHSPS SPSEHGLDLL DTTELNMEDF

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!

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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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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:11483963, ECO:0000269|PubMed:24597867}.
Molecular Weight:	141.2 kDa
UniProt:	O70576

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

Application Details

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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.
Expiry Date:	Unlimited (if stored properly)

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