Datasheet for ABIN3127382

DNAJC9 Protein (AA 1-259) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	DNAJC9
Protein Characteristics:	AA 1-259
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNAJC9 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MGLLELCEQV FGTADLYQVL GVRREASDGE VRRGYHKVSL QVHPDRVEED QKEDATRRFQ ILGRVYAVLS DKEQKAVYDE QGTVDEDSAG LNQDRDWDAY WRLLFKKISL EDIQAFEKTY KGSEEELNDI KQAYLDFKGD MDQIMESVLC VQYTDEPRIR NIIQKAIESK EIPAYSAFVK ESKQKMNARK RRAQEEAKEA ELSRKELGLE EGVDNLKALI QSRQKDRQKE MDSFLAQMEA KYCKPSKGGK RTALKKEKK **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 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!

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.

Purification:	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)

Product Details

Grade:	Crystallography grade

Target Details

Target:	DNAJC9
Alternative Name:	Dnajc9 (DNAJC9 Products)
Background:	DnaJ homolog subfamily C member 9,FUNCTION: Acts as a dual histone chaperone and heat shock co-chaperone (By similarity). As a histone chaperone, forms a co-chaperone complex with MCM2 and histone H3-H4 heterodimers, and may thereby assist MCM2 in histone H3-H4 heterodimer recognition and facilitate the assembly of histones into nucleosomes (By similarity). May also act as a histone co-chaperone together with TONSL (By similarity). May recruit histone chaperones ASF1A, NASP and SPT2 to histone H3-H4 heterodimers (By similarity). Also plays a role as co-chaperone of the HSP70 family of molecular chaperone proteins, such as HSPA1A, HSPA1B and HSPA8 (By similarity). As a co-chaperone, may play a role in the recruitment of HSP70-type molecular chaperone machinery to histone H3-H4 substrates, thereby maintaining the histone structural integrity (By similarity). Exhibits activity to assemble histones onto DNA in vitro (By similarity). {ECO:0000250|UniProtKB:Q8WXX5}.
Molecular Weight:	30.1 kDa
UniProt:	Q91WN1

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 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!

Application Details

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)