Datasheet for ABIN3089686

DNAJC6 Protein (AA 1-913) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	DNAJC6
Protein Characteristics:	AA 1-913
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNAJC6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKDSENKGAS SPDMEPSYGG GLFDMVKGGA GRLFSNLKDN LKDTLKDTSS RVIQSVTSYT KGDLDFTYVT SRIIVMSFPL DNVDIGFRNQ VDDIRSFLDS RHLDHYTVYN LSPKSYRTAK FHSRVSECSW PIRQAPSLHN LFAVCRNMYN WLLQNPKNVC VVHCLDGRAA SSILVGAMFI FCNLYSTPGP AIRLLYAKRP GIGLSPSHRR YLGYMCDLLA DKPYRPHFKP LTIKSITVSP IPFFNKQRNG CRPYCDVLIG ETKIYSTCTD FERMKEYRVQ DGKIFIPLNI TVQGDVVVSM YHLRSTIGSR LQAKVTNTQI FQLQFHTGFI PLDTTVLKFT KPELDACDVP EKYPQLFQVT LDVELQPHDK VIDLTPPWEH YCTKDVNPSI LFSSHQEHQD TLALGGQAPI DIPPDNPRHY GQSGFFASLC WQDQKSEKSF CEEDHAALVN QESEQSDDEL LTLSSPHGNA NGDKPHGVKK PSKKQQEPAA PPPPEDVDLL GLEGSAMSNS FSPPAAPPTN SELLSDLFGG GGAAGPTQAG QSGVEDVFHP SGPASTQSTP RRSATSTSAS PTLRVGEGAT FDPFGAPSKP SGQDLLGSFL NTSSASSDPF LQPTRSPSPT VHASSTPAVN IQPDVSGGWD WHAKPGGFGM GSKSAATSPT GSSHGTPTHQ SKPQTLDPFA DLGTLGSSSF ASKPTTPTGL GGGFPPLSSP QKASPQPMGG

GWQQGGAYNW QQPQPKPQPS MPHSSPQNRP NYNVSFSAMP GGQNERGKGS SNLEGKQKAA DFEDLLSGQG FNAHKDKKGP RTIAEMRKEE MAKEMDPEKL KILEWIEGKE RNIRALLSTM HTVLWAGETK WKPVGMADLV TPEQVKKVYR KAVLVVHPDK ATGQPYEQYA KMIFMELNDA WSEFENQGQK PLY

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.

Product Details

- 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)
Grade:	Crystallography grade

Target Details

Target:	DNAJC6
Alternative Name:	DNAJC6 (DNAJC6 Products)
Background:	Auxilin (EC 3.1.3.-) (DnaJ homolog subfamily C member 6),FUNCTION: May act as a protein phosphatase and/or a lipid phosphatase. Co-chaperone that recruits HSPA8/HSC70 to clathrin-coated vesicles (CCVs) and promotes the ATP-dependent dissociation of clathrin from CCVs and participates in clathrin-mediated endocytosis of synaptic vesicles and their recycling and also in intracellular trafficking (PubMed:18489706). Firstly, binds tightly to the clathrin cages, at a ratio of one DNAJC6 per clathrin triskelion. The HSPA8:ATP complex then binds to the clathrin-auxilin cage, initially at a ratio of one HSPA8 per triskelion leading to ATP hydrolysis stimulation and causing a conformational change in the HSPA8. This cycle is repeated three times to drive to a complex containing the clathrin-auxilin cage associated to three HSPA8:ADP complex. The ATP hydrolysis of the third HSPA8:ATP complex leads to a concerted dismantling of the cage into component triskelia. Then, dissociates from the released triskelia and be recycled to initiate another cycle of HSPA8's recruitment. Also acts during the early steps of clathrin-coated vesicle (CCV) formation through its interaction with the GTP bound form of DNM1 (By similarity). {ECO:0000250|UniProtKB:Q27974, ECO:0000269|PubMed:18489706}.
Molecular Weight:	100.0 kDa
UniProt:	O75061

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!
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)

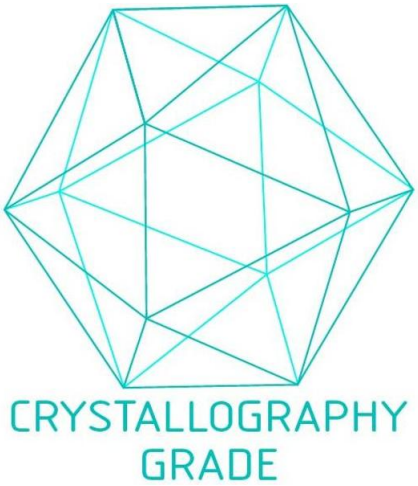

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process