Datasheet for ABIN3078755

DDX23 Protein (AA 1-820) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DDX23
Protein Characteristics:	AA 1-820
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX23 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAGELADKKD RDASPSKEER KRSRTPDRER DRDRDRKSSP SKDRKRHRSR DRRRGGSRSR SRSRSKSAER ERRHKERERD KERDRNKKDR DRDKDGHRRD KDRKRSSLSP GRGKDFKSRK DRDSKKDEED EHGDKKPKAQ PLSLEELLAK KKAEEEAEAK PKFLSKAERE AEALKRRQQE VEERQRMLEE ERKKRKQFQD LGRKMLEDPQ ERERRERRER MERETNGNED EEGRQKIREE KDKSKELHAI KERYLGGIKK RRRTRHLNDR KFVFEWDASE DTSIDYNPLY KERHQVQLLG RGFIAGIDLK QQKREQSRFY GDLMEKRRTL EEKEQEEARL RKLRKKEAKQ RWDDRHWSQK KLDEMTDRDW RIFREDYSIT TKGGKIPNPI RSWKDSSLPP HILEVIDKCG YKEPTPIQRQ AIPIGLQNRD IIGVAETGSG KTAAFLIPLL VWITTLPKID RIEESDQGPY AIILAPTREL AQQIEEETIK FGKPLGIRTV AVIGGISRED QGFRLRMGCE IVIATPGRLI DVLENRYLVL SRCTYVVLDE ADRMIDMGFE PDVQKILEHM PVSNQKPDTD EAEDPEKMLA NFESGKHKYR QTVMFTATMP PAVERLARSY LRRPAVVYIG SAGKPHERVE QKVFLMSESE KRKKLLAILE QGFDPPIIIF

VNQKKGCDVL AKSLEKMGYN ACTLHGGKGQ EQREFALSNL KAGAKDILVA TDVAGRGIDI QDVSMVVNYD MAKNIEDYIH RIGRTGRAGK SGVAITFLTK EDSAVFYELK QAILESPVSS CPPELANHPD AQHKPGTILT KKRREETIFA

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!

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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	DDX23
Alternative Name:	DDX23 (DDX23 Products)
Background:	Probable ATP-dependent RNA helicase DDX23 (EC 3.6.4.13) (100 kDa U5 snRNP-specific protein) (DEAD box protein 23) (PRP28 homolog) (U5-100kD),FUNCTION: Involved in pre-mRNA splicing and its phosphorylated form (by SRPK2) is required for spliceosomal B complex formation (PubMed:18425142). Independently of its spliceosome formation function, required for the suppression of incorrect R-loops formed during transcription, R-loops are composed of a DNA:RNA hybrid and the associated non-template single-stranded DNA (PubMed:28076779). {ECO:0000269|PubMed:18425142, ECO:0000269|PubMed:28076779}.
Molecular Weight:	95.6 kDa
UniProt:	Q9BUQ8
Pathways:	Ribonucleoprotein Complex Subunit Organization

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. 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