Datasheet for ABIN3092095

DHX37 Protein (AA 1-1157) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	DHX37
Protein Characteristics:	AA 1-1157
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX37 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MGKLRRRYNI KGRQQAGPGP SKGPPEPPPV QLELEDKDTL KGVDASNALV LPGKKKKKTK APPLSKKEKK PLTKKEKKVL QKILEQKEKK SQRAEMLQKL SEVQASEAEM RLFYTTSKLG TGNRMYHTKE KADEVVAPGQ EKISSLSGAH RKRRRWPSAE EEEEEEEESE SELEEESELD EDPAAEPAEA GVGTTVAPLP PAPAPSSQPV PAGMTVPPPP AAAPPLPRAL AKPAVFIPVN RSPEMQEERL KLPILSEEQV IMEAVAEHPI VIVCGETGSG KTTQVPQFLY EAGFSSEDSI IGVTEPRRVA AVAMSQRVAK EMNLSQRVVS YQIRYEGNVT EETRIKFMTD GVLLKEIQKD FLLLRYKVVI IDEAHERSVY TDILIGLLSR IVTLRAKRNL PLKLLIMSAT LRVEDFTQNP RLFAKPPPVI KVESRQFPVT VHFNKRTPLE DYSGECFRKV CKIHRMLPAG GILVFLTGQA EVHALCRRLR KAFPPSRARP QEKDDDQKDS VEEMRKFKKS RARAKKARAE VLPQINLDHY SVLPAGEGDE DREAEVDEEE GALDSDLDLD LGDGGQDGGE QPDASLPLHV LPLYSLLAPE KQAQVFKPPP EGTRLCVVAT NVAETSLTIP GIKYVVDCGK VKKRYYDRVT GVSSFRVTWV SQASADQRAG RAGRTEPGHC YRLYSSAVFG DFEQFPPPEI TRRPVEDLIL QMKALNVEKV INFPFPTPPS

VEALLAAEEL LIALGALQPP QKAERVKQLQ ENRLSCPITA LGRTMATFPV APRYAKMLAL SRQHGCLPYA ITIVASMTVR ELFEELDRPA ASDEELTRLK SKRARVAQMK RTWAGQGASL KLGDLMVLLG AVGACEYASC TPQFCEANGL RYKAMMEIRR LRGQLTTAVN AVCPEAELFV DPKMQPPTES QVTYLRQIVT AGLGDHLARR VQSEEMLEDK WRNAYKTPLL DDPVFIHPSS VLFKELPEFV VYQEIVETTK MYMKGVSSVE VQWIPALLPS YCQFDKPLEE PAPTYCPERG RVLCHRASVF YRVGWPLPAI EVDFPEGIDR YKHFARFLLE GQVFRKLASY RSCLLSSPGT MLKTWARLQP RTESLLRALV AEKADCHEAL LAAWKKNPKY LLAEYCEWLP QAMHPDIEKA WPPTTVH

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:

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Product Details

- 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:	DHX37
Alternative Name:	DHX37 (DHX37 Products)
Background:	Probable ATP-dependent RNA helicase DHX37 (EC 3.6.4.13) (DEAH box protein 37),FUNCTION: ATP-binding RNA helicase that plays a role in maturation of the small ribosomal subunit in ribosome biogenesis (PubMed:30582406). Required for the release of the U3 snoRNP from pre-ribosomal particles (PubMed:30582406). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Plays a role in early testis development (PubMed:31287541, PubMed:31337883). Probably also plays a role in brain development (PubMed:31256877). {ECO:0000269|PubMed:30582406, ECO:0000269|PubMed:31256877, ECO:0000269|PubMed:31287541, ECO:0000269|PubMed:31337883, ECO:0000269|PubMed:34516797}.
Molecular Weight:	129.5 kDa
UniProt:	Q8IY37

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

Application Details

	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)

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