Datasheet for ABIN3137301

DDX20 Protein (AA 1-825) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	DDX20
Protein Characteristics:	AA 1-825
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX20 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAAAFEVPA ALTTSESTMA AERAAAPVQA VEPTPASPWT QRTAHDIGGP RTRTGDVVLA EPADFESLLL SRPVLEGLRA AGFERPSPVQ LKAIPLGRCG LDLIVQAKSG TGKTCVFSTI ALDSLILENY STQILILAPT REIAVQIHSV ITAIGIKMEG LECHVFIGGT PLSQDKTRLK KCHIAVGSPG RIKQLIELDY LNPGSIRLFI LDEADKLLEE GSFQEQINWI YSSLPASKQM LAVSATYPEV LANALTRYMR DPTFVRLNPS DPSLIGLKQY YQVVNSYPLA HKIFEEKTQH LQELFSKVPF NQALVFSNLH SRAQHLADIL SSKGFPTECI SGNMNQNQRL DAMAKLKQFH CRVLISTDLT SRGIDAEKVN LVVNLDVPLD WETYMHRIGR AGRFGTLGLT VTYCCRGEEE NMMMKIAQKC NINLLPLPDP IPPGLMEECL NWDVEVKAAM HTYSSPTVAT QSPKKQVQKL ERAFQSQRTP GNQTPSPRNT SASALSARPK HSKPKLPVKS HSECGVLEKA APPQESGCPA QLEEQVKNSV QTSVEDSSSN SQHQAKDSSP GSLPKIPCLS SFKVHQPSTL TFAELVDDYE HYIKEGLEKP VEIIRHYTGP EAQTGNPQNG FVRNRVSEDR AQMLVSSSQS GDSESDSDSC SSRTSSQSKG

NKSYLEGSSD TQLKDTECTP VGGPLSLEQV QNGNDTPTQV EYQEAPETQV KARHKEGANQ RSKQSRRNPA RRSSYRVQSE PQEESWYDCH RETTASFSDT YQDYEEYWRA YYRAWQEYYA AASHSYYWNA QRHPSWMAAY HMNTVYLQEM MRGNQ

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:	DDX20
Alternative Name:	Ddx20 (DDX20 Products)
Background:	Probable ATP-dependent RNA helicase DDX20 (EC 3.6.1.15) (EC 3.6.4.13) (Component of gems 3) (DEAD box protein 20) (DEAD box protein DP 103) (Gemin-3) (Regulator of steroidogenic factor 1) (ROSF-1),FUNCTION: The SMN complex catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome, and thereby plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP (Sm core). In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate. Binding of snRNA inside 5Sm triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs) (By similarity). {ECO:0000250|UniProtKB:Q9UHI6}.
Molecular Weight:	91.7 kDa
UniProt:	Q9JJY4
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

Application Details

	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. 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