

Datasheet for ABIN3092102

DDX20 Protein (AA 1-824) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	DDX20
Protein Characteristics:	AA 1-824
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX20 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAAAFEASGA LAAVATAMPA EHVAVQVPAP EPTPGPVRIL RTAQDLSSPR TRTGDVLLAE PADFESLLLLS RPVLEGLRAA GFERPSPVQL KAIP LGRCGL DLIVQAKSGT GKTCVFSTIA LDSLVLNLS TQILILAPTR EIAVQIHVI TAIGIKMEGL ECHVFIGGTP LSQDKTRLKK CHIAVGSPGR IKQLIELDYL NPGSIRLFIL DEADKLLEEG SFQEQINWIY SSLPASKQML AVSATYPEFL ANALTKYMRD PTFVRLNSSD PSLIGLKQYY KVVNSYPLAH KVFEETQHL QELFSRIPFN QALVFSNLHS RAQHLADILS SKGFPAECIS GNMNQNRQLD AMAKLKHFHC RVLISTDLTS RGIDAEKVN L VNLDVPLDW ETYMHRI GRA GRFGTLGLTV TYCCRGEEEN MMMRIAQKCN INLLPLDPI PSGLMEECDV WDEVKAAVH TYGASVPNQ PLKKQIQKIE RTLQIQKAHG DHMASSRNNS VSGLSVKSKN NTKQKLPVKS HSECGIIEKA TSPKELGCDR QSEEQMKNSV QTPVENSTNS QHQVKEALPV SLPQIPCLSS FKIHPYTLT FAELVEDYEH YIKEGLEKPV EIIRHYTGPG DQTVNPQNGF VRNKVIEQRV PVLASSSQSG DSESDSDSYS SRTSSQSKGN KSYLEGSSDN QLKDSESTPV DDRISLEQPP NGSDTPNPEK YQESPGIQMK
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TRLKEGASQR AKQSRRNLPR RSSFRLQTEA QEDDWYDCHR EIRLSFSDTY QDYEEYWRAY
YRAWQEYYAA ASHSYYWNAQ RHPSWMAAYH MNTIYLQEMM HSNQ

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.

Product Details

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:	DDX20
Alternative Name:	DDX20 (DDX20 Products)
Background:	<p>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),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 SNRNPB, 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 SNRNPB to complete assembly of the core snRNP. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs).</p> <p>{ECO:0000269 PubMed:18984161}.</p>
Molecular Weight:	92.2 kDa
UniProt:	Q9UHI6
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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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