

Datasheet for ABIN3096400

## XRN2 Protein (AA 1-950) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	XRN2
Protein Characteristics:	AA 1-950
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRN2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MGVPAFFRWL SRKYPSIIVN CVEEKPKECN GVKIPVDASK PNPNDVEFDN LYLDMNGIIH</p> <p>PCTHPEDKPA PKNEDEMMVA IFEYIDRLFS IVRPRRLLYM AIDGVAPRAK MNQQRSSRRFR</p> <p>ASKEGMEAAV EKQVRREEIL AKGGFLPPEE IKERFDSNCI TPGTEFMDNL AKCLRYIAD</p> <p>RLNNDPGWKN LTVILSDASA PGEGEHKIMD YIRRQRAQPN HDPNTHHCLC GADADLIMLG</p> <p>LATHEPNFTI IREEFKPNKP KPCGLCNQFG HEVKDCEGLP REKKGKHDEL ADSLPCAEGE</p> <p>FIFLRLNVLR EYLERELTMA SLPFTFDVER SIDDWVFMCF FVGNDFLPHL PSLEIRENAI</p> <p>DRLVNIYKNV VHKTGGYLTE SGYVNLQRVQ MIMLAVGEVE DSIFKKRKDD EDSFRRRQKE</p> <p>KRKRMKRDQP AFTPSGILTP HALGSRNSPG SQVASNPRQA AYEMRMQNNS SPSISPNTSF</p> <p>TSDGSPSPLG GIKRKAEDSD SEPEPEDNVR LWEAGWKQRY YKNKFDVDAA DEKFRRKVVQ</p> <p>SYVEGLCWVL RYYYQGCASW KWYYPFHYAP FASDFEGIAD MPSPFEKGTK PFKPLEQLMG</p> <p>VFPAASGNFL PPSWRKLMSD PDSSIIDFYP EDFAIDLNGK KYAWQGVALL PFVDERRLRA</p>

ALEEVYDILT PEETRRNSLG GDVLFVGKHH PLHDFILELY QTGSTPEVEV PPELCHGIQG  
KFSLDDEAIL PDQIVCSPVP MLRDLTQNTV VSINFKDPQF AEDYIFKAVM LPGARKPAAV  
LKPSDWEKSS NGRQWKPQLG FNRDRRPVHL DQAAFRTLGH VMPRGSGTGI YSNAAPPPVT  
YQGNLYRPLL RGQAQIPKLM SNMRPQDSWR GPPPLFQQQR FDRGVGAEP L PWNRMMLQTQ  
NAAFQPNQYQ MLAGPGGYPP RRDDRGGRRQG YPREGRKYPL PPPSGRYNWN

**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.**

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### 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.

## Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	XRN2
Alternative Name:	XRN2 ( <a href="#">XRN2 Products</a> )
Background:	5'-3' exoribonuclease 2 (EC 3.1.13.-) (DHM1-like protein) (DHP protein),FUNCTION: Possesses 5'->3' exoribonuclease activity (By similarity). May promote the termination of transcription by RNA polymerase II. During transcription termination, cleavage at the polyadenylation site liberates a 5' fragment which is subsequently processed to form the mature mRNA and a 3' fragment which remains attached to the elongating polymerase. The processive degradation of this 3' fragment by this protein may promote termination of transcription. Binds to RNA polymerase II (RNAP II) transcription termination R-loops formed by G-rich pause sites (PubMed:21700224). {ECO:0000250, ECO:0000269 PubMed:15565158, ECO:0000269 PubMed:16648491, ECO:0000269 PubMed:21700224}.
Molecular Weight:	108.6 kDa
UniProt:	<a href="#">Q9H0D6</a>

## 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:	<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</p>

Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months