

Datasheet for ABIN3135741

## Transportin 3 Protein (TNPO3) (AA 1-923) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Transportin 3 (TNPO3)
Protein Characteristics:	AA 1-923
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transportin 3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MEGAKPTLQL VYQAVQALYH DPDPGSKERA SFWLGELQRS VHAWEISDQL LQIRQDVESC</p> <p>YFAAQTMKMK IQTSFYELPT DSHASLRDSL LTHIQNLKDL SPVIVTQLAL AIADLALQMP</p> <p>SWKGCVQTLV EKYSNDVTS L PFLLEILTVL PEEVHSRSLR IGANRRTEII EDLAFYSSTV</p> <p>VSLLMTCVEK AGTDEKMLMK VFRCLGSWFN LGVLDSNFMA NNKLLALLFE VLQQDKTSSN</p> <p>LHEAASDCVC SALYAIENVE TNLPLAMQLF QGVLTLTAY HMAVAREDL KVLNYCRIFT</p> <p>ELCETFLEKI VCTPGQGLGD LRTLELLLIC AGHPQYEVVE ISFNFWYRLG EHLYKTNDEV</p> <p>IHSIFKAYIQ RLLHALARHC QLEPDHEGVP EETDDFGEFR MRVSDLVKDL IFLIGSMECF</p> <p>AQLYSTLKEG NPPWEVTEAV LFIMAAIAKS VDPENNPTLV EVLEGVVHLP ETVHTAVRYT</p> <p>SIELVGEMSE VVDRNPQFLD PVLGYLMKGL CEKPLASAAA KAIHNICSVC RDHMAQHFN</p> <p>LLEIAHSLDS FMLSPEAAVG LLKGTALVLA RLPLDKITEC LSELCSVQVM ALKKLLSQEP</p> <p>SNGISSDPTV FLDRLAVIFR HTNPVINGQ THPCQKVIQE IWPVLSETLN KHRADNRIVE</p>

RCRCRLRFV RCVGKGSAA LQPLVTQMVN VYVHQHSCF LYLGSILVDE YGMEEGCRQG  
LLDMLQALCI PTFQLLEQQN GLQNHPTVD DLFRLATRFI QRSPVTLLRS QVVIPLQWA  
IASTTLDHRD ANSSVMRFLR DLIHTGVAND HEEDFELRKE LIGQVMSQLG QQLVSQLLHT  
CCFCLPPYTL PDVAEVLWEI MQVDRPTFCR WLENSLKGLP KETTVGAVTV THKQLTDFHK  
QVTSAECKQ VCWALRDFTR LFR

**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

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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

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Target:	Transportin 3 (TNPO3)
Alternative Name:	Tnpo3 ( <a href="#">TNPO3 Products</a> )
Background:	<p>Transportin-3,FUNCTION: Importin, which transports target proteins into the nucleus. Specifically mediates the nuclear import of splicing factor serine/arginine (SR) proteins, such as RBM4, SFRS1 and SFRS2, by recognizing phosphorylated SR domains. Also mediates the nuclear import of serine/arginine (SR) protein CPSF6, independently of CPSF6 phosphorylation. The nuclear import process is regulated by the small GTPase Ran that partitions between cytoplasm and nucleus in the predominantly GDP- and GTP-bound form, respectively. Importin associates with target cargo proteins in the cytoplasm, and the competitive binding of GTP-bound Ran induces the release of cargos in the nucleus. {ECO:0000250 UniProtKB:Q9Y5L0}.</p>
Molecular Weight:	104.2 kDa
UniProt:	<a href="#">Q6P2B1</a>
Pathways:	<a href="#">Protein targeting to Nucleus</a>

## Application Details

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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