

Datasheet for ABIN3124325

## ANKRD24 Protein (AA 1-985) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ANKRD24
Protein Characteristics:	AA 1-985
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD24 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKTLRARFKK TEGQDWGKSD QRLQAVENN DVARVASLIA HKGLVPTKLD PEGKSAFHIA  AMRGAAGCLE VMLAQGADV STDGAGYNAL HLAAYGHPE CLKQLLEASC VVDIEDSSGW  TALHHAAAGG CLSCSKLLCS FKAHMNPRDR SGATPLIAA QMCHTDLCRL LLQQAATND  QDLQGR TALM LACEGGSPET VEVLLQGGAQ LSITDALGQD ATHYGALTGD KLILQLLHES  ARRSSPPSAS LEEDSGEASS QNSVSSHEKQ GAPKKRKAPQ PPASTPVPDD RDAYEEIVRL  RQERGRLLQK IRGLEQHKER RRKEPLEAEA SSVHSLERQV QELQQLAEK QEEKESLGRE  VESLQSRLSL LENERENTSY DVATLQDEEG EMPDFPGADA LMPKNQSPSA EEIVASLQEQ  VAQLTRQNQE LLEKVQILEE FEKDEAQMAE ESQAEVVPLV LYESLR AELE QLRRQYTEAM  HSQQQQQEGE PPRAQEGEET AYQEIKDKGI TIQNGPSVPD LNGTTYAETK ANGME LQAGG  SKGVWNTEAG VSEAAPIEPE AAGSEATGKD RLAAKEMDTS ATMAEALNVK ALGDNAESEP  VAAEDTGGKE NPGMKADEVD VLAQAGLTGT VIRNMEAIGV RDTGIQATGL EAKAVKTTGV</p>

QATVAEVIGV KVTGVQTTAI EAIGVKDTTQ VATGAQADCW QATEADCTGA QDTAMEPTGA  
QATVTETTEA ETSGTEDPCA AILHPGAAAA ALQAELETRI RGLLEEALRRR EREAAAALEA  
ARGRFAEAE AARGRSRELE ALRELLATAT ATGERARTEA AELRQALAAS EARVAELSST  
VDAAREELER MRGASVPADE HEHALSALRD HVTRLQAQLA DLARRHEKTS AEFVQITDLS  
KEVFTLKEAL KVQQSTPASS KEEEALRGQV TALQQIQEE AREHGAVVAL YRTHLLYAIQ  
GQMDDEDVQCI LSQILQMQL QAQGR

**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.

## Product Details

- 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: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: ANKRD24

Alternative Name: Ankrd24 ([ANKRD24 Products](#))

Background: Ankyrin repeat domain-containing protein 24,FUNCTION: Component of the stereocilia rootlet in hair cells of inner ear. Bridges the apical plasma membrane with the lower rootlet and maintains normal distribution of TRIOBP, thereby reinforcing stereocilia insertion points and organizing rootlets for hearing with long-term resilience. {ECO:0000269|PubMed:35175278}.

Molecular Weight: 106.2 kDa

UniProt: [Q80VM7](#)

## 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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Application Details

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