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Datasheet for ABIN3129843  
**IRX6 Protein (AA 1-438) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	IRX6
Protein Characteristics:	AA 1-438
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRX6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MAFSPFGHPY GSTSQFLVSA SSSATCCETA PRPVSDVASA STSASTLCCT PYDSRLLGSA  
RPELGAALGI YGAPYAAAQS YPGYLYTGPPE PPTLCGALNP QYEFKDAAGS FAPSLTQPGA  
YYPYETTLGQ YQYDRYGGVE LSSAGRRKNA TRESTSALKA WLHEHRKNPY PTKGEKIMLA  
IITKMTLTQV STWFANARRR LKKENKMTWA PKNKGGEERK AD SGEDSLGC LNGDTKDATA  
SQEARGRLRS DLEDLEEEEE EEEAEAAA V SAARRLADFQ KSTQPLPAPC AAAQERCLES  
RECGLGLPRF SFTEAPQSGE ADFITAEPGG PTMILHYPSG HKPRIWSLAH TAAASAVESA  
PSTPPRAQSP ECHMIPRQPS SIRLLVPRD SEGEEDSPAA KAFGNSTFTL QGLPLNCAPY  
PRRREPEVRF QYPSGAEG

**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.

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#### 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.

## Product Details

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Purity:  $\geq 80\%$  as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg ( $< 0.1$  ng/mg)

## Target Details

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Target: IRX6

Alternative Name: Irx6 ([IRX6 Products](#))

Background: Iroquois-class homeodomain protein IRX-6 (Homeodomain protein IRXB3) (Iroquois homeobox protein 6),FUNCTION: Transcription factor (PubMed:23172916). Binds to the iroquois binding site (IBS) motif of target genes to regulate gene expression, functions as a transcriptional activator or repressor (PubMed:23172916). Modulates expression of RCVRN, VSX1, BHLHE22/BHLHB5 and TACR3/Nk3r (PubMed:23172916). Required downstream of retinal bipolar cell specification for the terminal differentiation of type 2, type 3a and possibly type 6 bipolar cells (PubMed:23172916). {ECO:0000269|PubMed:23172916}.

Molecular Weight: 47.4 kDa

UniProt: [Q9ER75](#)

## 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: 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!

Restrictions: For Research Use only

## Handling

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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)