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Datasheet for ABIN3136388

RFX6 Protein (AA 1-927) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	RFX6
Protein Characteristics:	AA 1-927
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RFX6 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MAKVRELEEA FVQEQPSPQL PSEIAEECCA QLLGKGLLVY PEDSAYLLAE TAAGARSSGE
KGGDPGLQVG VKSEMQLNNG NFSSEEDAD TQESKTKAAD PQLSQKKSIT QMMKDKKKQT
QLTLQWLEDN YIVCEGVCLP RCILYAHYLD FCRKEKLEPA CAATFGKTIR QKFPLLTTRR
LGTRGHSKYH YYGIGIKESS AYYHSVYSGK GLTRFSGSKL KNEGGFTRKY SLSSKTGTLL
PEFPSAQHLV YQGCISKDKV DTLIMMYKTH CQCILDNAIN GNFEIQHFL LHFVQGMPPDH
LLPLENPVI IDIFCVCDISI LYKVLTDVLI PATMQEMPES LLADIRNFAK NWEQWVVSSL
ENLPEALIDK KIPILRRFVS SLKRQTSFLH LAQIARPALF DQHVVNAMVS DIEKVDLNSI
GSQALLTISN STDTESDIYS EHDSITVFQE LKDLLKKNAT VEAFFIEWLDT VVEQRVIKMS
KQNGRSLKKR AQDFLLKWSF FGARVMHNLN LNNASSFGSF HLIRMLLDEY ILLAMETQFN
NDKEQELQNL LDKYMKNSDA SKAAFTASPS SCFLANRNKA SSLASDTVKN ESHVETSYPV
LPSSQPGAIP PALHFPSTED TDNMPLPGQI ELSQSTGHLM TPPISPAIAS RGSVINQGPM
ASRPPSVGTV LSAPTHCSTY AEPIYPTLSP ANHDFYGTNS NYQTMFRTQS HPASSLYAHR

AEHGRCMAWT EQQLSRDFFG GSCAGSPYNC RPPSSYGPST HTQESHSMQV LNTGSFNFLS
NAGAGSCQGS TLPSNSPNGY YGNNINYSEA HRLGSMVNQH VSVISSVRSL PPYSDIHDPL
NILDDSSRKQ NNSFYADTLS PVACRTTVVA SNLQTQIPSS SSQCMYGTSN QYPVQDSLDS
NAASNREMVS SLPPINTVFM GTAAGDT

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rfx6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	RFX6
Alternative Name:	Rfx6 (RFX6 Products)
Background:	<p>Transcription factor required to direct islet cell differentiation during endocrine pancreas development. Specifically required for the differentiation of 4 of the 5 islet cell types and for the production of insulin. Not required for pancreatic PP (polypeptide-producing) cells differentiation. Acts downstream of NEUROG3 and regulates the transcription factors involved in beta-cell maturation and function, thereby restricting the expression of the beta-cell differentiation and specification genes, and thus the beta-cell fate choice. Activates transcription by forming a heterodimer with RFX3 and binding to the X-box in the promoter of target genes (PubMed:20148032). Involved in glucose-stimulated insulin secretion by promoting insulin and L-type calcium channel gene transcription (By similarity). {ECO:0000250 UniProtKB:Q8HWS3, ECO:0000269 PubMed:20148032}.</p>
Molecular Weight:	103.5 kDa Including tag.
UniProt:	Q8C7R7
Pathways:	Carbohydrate Homeostasis

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process