

Datasheet for ABIN7564523
RFX6 Protein (AA 1-927) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | RFX6 |
| Protein Characteristics: | AA 1-927 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RFX6 protein is labelled with His tag. |

Product Details

| | |
|-----------|--|
| Purpose: | Custom-made recombinant Rfx6 Protein expressed in mammalian cells. |
| Sequence: | <p>MAKVRELEEA FVQEQPSPQL PSEIAEECCA QLLGKGLLVY PEDSAYLLAE TAAGARSSGE</p> <p>KGGDPGLQVG VKSEMLNNG NFSSEEDAD TQESKKAAD PQLSQKKSIT QMMKDKKKQT</p> <p>QLTLQWLEDN YIVCEGVCLP RCILYAHYLD FCRKEKLEPA CAATFGKTIR QKFPLLTTTR</p> <p>LGTRGHSKYH YYGIGIKESS AYYHSVYSGK GLTRFSGSKL KNEGGFTRKY SLSSKTGTLL</p> <p>PEFPSAQHLV YQGCISKDKV DTLIMMYKTH CQCILDNAIN GNFEIQHFL LHFQWQMPDH</p> <p>LLPLENPVI IDIFCVCDI LYKVLTDVLI PATMQEMPES LLADIRNFAK NWEQWVVSSL</p> <p>ENLPEALIDK KIPILRRFVS SLKRQTSFLH LAQIARPALF DQHVVNAMVS DIEKVDLNSI</p> <p>GSQALLTISN STDTESDIYS EHDSITVFQE LKDLLKKNAT VEAFIEWLDT VVEQRVIKMS</p> <p>KQNGRSLKKR AQDFLLKWSF FGARVMHNLN LNNASSFGSF HLIRMLLDEY ILLAMETQFN</p> <p>NDKEQELQNL LDKYMKNSDA SKAFTASPS SCFLANRNKA SSLASDTVKN ESHVETSYVP</p> <p>LPSSQPGAIP PALHPFSTED TDNMPLPGQI ELSQSTGHLM TPPISPAIAS RGSVINQGPM</p> <p>ASRPPSVGTV LSAPTHCSTY AEPIYPTLSP ANHDFYGTNS NYQTMFRTQS HPASSLYAHR</p> |

Product Details

AEHGRCMAWT EQQLSRDFFG GSCAGSPYNC RPPSSYGPST HTQESHSMQV LNTGSFNFLS
NAGAGSCQGS TLPSNSPNGY YGNNINYSEA HRLGSMVNHQ VSVISSVRSL PPYSDIHDPL
NILDDSSRKQ NNSFYADTLS PVACRTTVVA SNLQTQIPSS SSQCMYGTSN QYPVQDSLDS
NAASNREMVSLPPINTVFM GTAAGDT

Sequence without tag. The proposed Purification-Tag is based on experiences 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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: RFX6

Alternative Name: Rfx6 ([RFX6 Products](#))

Background: DNA-binding protein RFX6 (Regulatory factor X 6) (Regulatory factor X domain-containing protein 1),FUNCTION: 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-

Target Details

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}.

Molecular Weight: 102.6 kDa

UniProt: [Q8C7R7](#)

Pathways: [Carbohydrate Homeostasis](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months