

Datasheet for ABIN7555165
RFX6 Protein (AA 1-928) (His tag)



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Overview

Quantity:	1 mg
Target:	RFX6
Protein Characteristics:	AA 1-928
Origin:	Human
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:	MAKVPELEDT FLQAQPAPQL SPGIQEDCCV QLLGKGLLVY PEETVYLAEE GQPGGEQGGG EKGEDPELPG AVKSEMHLNN GNFSSEEEDA DNHDSKTKAA DQYLSQKKTITQIVKDKKKQ TQLTLQWLEE NYIVCEGVCL PRCILYAHYL DFCRKEKLEP ACAATFGKTI RQKFPLLTTR RLGTRGHSKY HYYGIGIKES SAYYHSVYSG KGLTRFSGSK LKNEGGFTRK YSLSSKTGTL LPEFPSAHL VYQGCISKDK VDTLIMMYKT HCQCILDNAI NGNFEEIQHF LLHFVQGMMPD HLLPLENPV IIDIFCVCDL ILYKVLTDVL IPATMQEMPE SLLADIRNFA KNWEQWVSS LENLPEALTD KKIPIVRRFV SSLKRQTSFL HLAQIARPAL FDQHVNSMV SDIERVDLNS IGSQALLTIS GSTDTESGIY TEHDSITVFQ ELKDLLKNA TVEAFIEWLD TVVEQRVIKT SKQNGRSLKK RAQDFLLKWS FFGARVMHNL TLNNASSFGS FHLIRMLLDE YILLAMETQF NNDKEQELQN LLDKYMKNSD ASKAAFTASP SSCFLANRNK GSMVSSDAVK NESHVETTYL PLPSSQPGGL GPALHQFPAG NTDNMPLTGQ MELSQIAGHL MTPPISPAMA SRGSVINQGP MAGRPPSVGP VLSAPSHCST YPEIYPTLP QANHDFYSTS SNYQTVFRAQ PHSTSGLYPH

Product Details

HTEHGRCMAW TEQQLSRDFF SGSCAGSPYN SRPPSSYGPS LQAQDSHNMQ FLNTGGSFNFL
SNTGAASCQG ATLPPNSPNG YYGSNINYPE SHRLGSMVNQ HVSVISSIRS LPPYSDIHDP
LNILDDSGRK QTSSFYTDTS SPVACRTPVL ASSLQTPIPS SSSQCMYGTS NQYPAQETLD
SHGTSSREMV SSLPPINTVF MGTAAGGT **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 (PubMed:20148032, PubMed:25497100). Not

Target Details

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 (PubMed:25497100). {ECO:0000269|PubMed:20148032, ECO:0000269|PubMed:25497100}.

Molecular Weight: 102.5 kDa

UniProt: [Q8HWS3](#)

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