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Datasheet for ABIN7563313 **RFX3 Protein (AA 1-749) (His tag)**

Overview

Quantity:	1 mg
Target:	RFX3
Protein Characteristics:	AA 1-749
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RFX3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Rfx3 Protein expressed in mammalian cells.
Sequence:	<p>MQTSETGSDT GSTVTLQTSV ASQAAVPTQV VQQVPVQQQV QQVQTVQQVQ HVYPAQVQYV EGSDTVYTNG AIRTTTYPYT ETQMYSQNTG GNYFDTQGSS AQVTTVVSSH SMVGTGGIQM GVTGGQLISS SGGTYLIGNS MENSGHSVTH TTRASPATIE MAIETLQKSD GLSTHRSSLL NSHLQWLLDN YETAEGVSLP RSTLYNHLYR HCQEHKLDPV NAASFGKLIR SIFMGLRTRR LGTRGNSKYH YYGIRVKPDS PLNRLQEDMQ YMAMRQQPMQ QKQRYKPMQK VDGVADGFTG SGQQTGTSVE QTVIAQSQHH QQFLDASRAL PEFGEVEISS LPDGTTFEDI KSLQSLYREH CEAILDWWN LQFSLIEKLW QTFWRYPST PADGTTITES SNLSEIESRL PKAKLITLCK HESILKWMCN CDHGMVYQALV EILIPDVL RP IPSALTQAIR NFAKSLEGWL SNAMNNIPQR MIQTKVAAVS AFAQTLRRYT SLNHLAQAAR AVLQNTSQIN QMLSDLNRVD FANVQEASW VCQCDDNMVQ RLETDFKMTL QQQSTLEQWA AWLDNVMMQA LKPYEGRPSF PKAARQFLK WSFYSSMIR DLTLRSAASF GSFHLIRLLY DEYMFYLVEH RVAQVTGETP IAVMGEFGDL</p>

Product Details

NAVSPGNLDK DEGSEVESET DEDLDDSSSEP RAKREKTELS QAFPVGCMQP VLESVAQPSL
LNPLHSEHIV TSTQTIRQCS ATGNTYTAV **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

RFX3

Alternative Name:

Rfx3 ([RFX3 Products](#))

Background:

Transcription factor RFX3 (Regulatory factor X 3),FUNCTION: Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left-right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells (PubMed:15121860, PubMed:19671664). Also required for ciliated ependymal cell differentiation (PubMed:16930429). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells (PubMed:17229940). Regulates

Target Details

transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes (By similarity). Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5). Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells. {ECO:0000250|UniProtKB:P48380, ECO:0000269|PubMed:15121860, ECO:0000269|PubMed:16930429, ECO:0000269|PubMed:17229940, ECO:0000269|PubMed:19671664}.

Molecular Weight: 83.5 kDa

UniProt: [P48381](#)

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.

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