Datasheet for ABIN3092864

GTF2I Protein (AA 2-998) (His tag)

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Overview

Quantity:	1 mg
Target:	GTF2I
Protein Characteristics:	AA 2-998
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GTF2I protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	AQVAMSTLPV EDEESSESRM VVTFLMSALE SMCKELAKSK AEVACIAVYE TDVFVVGTER GRAFVNTRKD FQKDFVKYCV EEEEKAAEMH KMKSTTQANR MSVDAVEIET LRKTVEDYFC FCYGKALGKS TVVPVPYEKM LRDQSAVVVQ GLPEGVAFKH PENYDLATLK WILENKAGIS FIIKRPFLEP KKHVGGRVMV TDADRSILSP GGSCGPIKVK TEPTEDSGIS LEMAAVTVKE ESEDPDYYQY NIQAGPSETD DVDEKQPLSK PLQGSHHSSE GNEGTEMEVP AEDSTQHVPS ETSEDPEVEV TIEDDDYSPP SKRPKANELP QPPVPEPANA GKRKVREFNF EKWNARITDL RKQVEELFER KYAQAIKAKG PVTIPYPLFQ SHVEDLYVEG LPEGIPFRRP STYGIPRLER ILLAKERIRF VIKKHELLNS TREDLQLDKP ASGVKEEWYA RITKLRKMVD QLFCKKFAEA LGSTEAKAVP YQKFEAHPND LYVEGLPENI PFRSPSWYGI PRLEKIIQVG NRIKFVIKRP ELLTHSTTEV TQPRTNTPVK EDWNVRITKL RKQVEEIFNL KFAQALGLTE AVKVPYPVFE SNPEFLYVEG LPEGIPFRSP TWFGIPRLER IVRGSNKIKF VVKKPELVIS YLPPGMASKI NTKALQSPKR PRSPGSNSKV PEIEVTVEGP NNNNPQTSAV RTPTQTNGSN VPFKPRGREF

SFEAWNAKIT DLKQKVENLF NEKCGEALGL KQAVKVPFAL FESFPEDFYV EGLPEGVPFR RPSTFGIPRL EKILRNKAKI KFIIKKPEMF ETAIKESTSS KSPPRKINSS PNVNTTASGV EDLNIIQVTI PDDDNERLSK VEKARQLREQ VNDLFSRKFG EAIGMGFPVK VPYRKITINP GCVVVDGMPP GVSFKAPSYL EISSMRRILD SAEFIKFTVI RPFPGLVINN QLVDQSESEG PVIQESAEPS QLEVPATEEI KETDGSSQIK QEPDPTW

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.
- Human GTF2I 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 receival 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	GTF2I
Alternative Name:	GTF2I (GTF2I Products)
Background:	Interacts with the basal transcription machinery by coordinating the formation of a multiprotein complex at the C-FOS promoter, and linking specific signal responsive activator complexes. Promotes the formation of stable high-order complexes of SRF and PHOX1 and interacts cooperatively with PHOX1 to promote serum-inducible transcription of a reporter gene deriven by the C-FOS serum response element (SRE). Acts as a coregulator for USF1 by binding independently two promoter elements, a pyrimidine-rich initiator (Inr) and an upstream E-box. Required for the formation of functional ARID3A DNA-binding complexes and for activation of immunoglobulin heavy-chain transcription upon B-lymphocyte activation. {ECO:0000269|PubMed:10373551, ECO:0000269|PubMed:11373296, ECO:0000269|PubMed:16738337}.
Molecular Weight:	113.2 kDa Including tag.
UniProt:	P78347

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 gurantee though.
Comment:	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

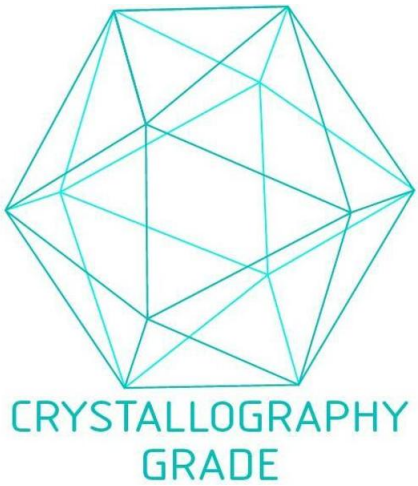

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process