

Datasheet for ABIN3137266

GTF2IRD1 Protein (AA 1-1104) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	GTF2IRD1
Protein Characteristics:	AA 1-1104
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GTF2IRD1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MALLGKHCDI PTNGCGSERW NSTFARKDEL INSLVSALDS MCSALSKLNT EVACVAVHNE SVFVMGTEKG RVFLNTRKEL QSDFLRFCRG PLWNDPEAGH PKKVQRCEGG GRSLPRSSLE QCSDVYLLQK MVEEVFDVLY SEAMGRATVV PLPYERLLRE PGLLAVQGLP EGLAFRRPAE YDPKALMAIL EHSRIRFKL RRPDDGGQD TKALVEMNGI SLLPKGSRDC GLHGQASKVA PQDLTPTATP SSMANFLYST SMPNHTIREL KQEVPTCPLT PSDLGMGWPV PEPHVPSTQD FSDCCGQTPA GPAGPLIQNV HASKRILFSI VHDKSEKWD PFIKEMEDINT LRECVQILFN SRYAEALGLD HMVPVPYRKI ACDPEAVEIV GIPDKIPFKR PCTYGVPKLK RILEERHSIH FIIKRMFDER IFTGNKFTKD PMKLEPASPP EDTSTEVCRD SMLDLAGTAW SDMSSVSEDC GPGTSGEIAM LRPIKIEPEE LDIIQVTVSD PSPTSEEMTD SLPGHLPSED SGYGMEMPAD KGPSEEPWSE ERPAEESPGD VIRPLRKQVE MLFNTKYAKA IGTSEPVKVP YSKFLMHPEE LFVLGLPEGI SLRRPNCFGI AKLRKILEAS NSIQFVIKRP ELLTDGVKEP VLDTQERDSW DRLVDETPKR QGLQENYNTR LSRIDIANTL REQVQDLFNK KYGEALGIKY PVQVPYKRIK
-----------	--

SNPGSVIIEG LPPGIPFRKP CTFGSQNLER ILSVADKIKF TVTRPFQGLI PKPETKILTT
GHEAGKTTRP RRLQQDTWQP DEDDANRLGE KVILREQVKE LFNEKYGEAL GLNRPVLVPY
KLIRDSPDAV EVKGLPDDIP FRNPNTYDIH RLEKILKARE HVRMVIINQL QPFAEVCNDP
KVPEEDDSNK LGKKVILREQ VKELFNEKYG EALGLNRPVL VPKLIRDSP DAVEVKGLPD
DIPFRNPNTY DIHRLEKILK AREHVRMVII NQLQPFGDVC NNAKVPAKDN IPKRKRKRVS
EGNSVSSSSS SSSSSSNPES VASTNQISLV VKSRGSELHP NSVWPLPLPR AGPSTAPGTG
RHWALRGTP TTEGQAHPLV LPTR

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 Gtf2ird1 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

Product Details

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

Target Details

Target:	GTF2IRD1
Alternative Name:	Gtf2ird1 (GTF2IRD1 Products)
Background:	May be a transcription regulator involved in cell-cycle progression and skeletal muscle differentiation. May repress GTF2I transcriptional functions, by preventing its nuclear residency, or by inhibiting its transcriptional activation. May contribute to slow-twitch fiber type specificity during myogenesis and in regenerating muscles. Binds troponin I slow-muscle fiber enhancer (USE B1). Binds specifically and with high affinity to the EFG sequences derived from the early enhancer of HOXC8. {ECO:0000269 PubMed:11438732}.
Molecular Weight:	124.4 kDa Including tag.
UniProt:	Q9JI57

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
---------	--------

Handling

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