

Datasheet for ABIN3092893

GTF2IRD1 Protein (AA 1-959) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GTF2IRD1
Protein Characteristics:	AA 1-959
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GTF2IRD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MALLGKRCDV PTNGCGPDRW NSAFTRKDEI ITSLVSALDS MCSALSKLNA EVACVAVHDE</p> <p>SAFVVGTEKG RMFLNARKEL QSDFLRFCRG PPWKDPEAEH PKKVQRGEGG GRSLPRSSLE</p> <p>HGSDVYLLRK MVEEVFDVLY SEALGRASVV PLPYERLLRE PGLLAVQGLP EGLAFRRPAE</p> <p>YDPKALMAIL EHSRIRFKL KRPLEDGGRD SKALVELNGV SLIPKGSRDC GLHGQAPKVP</p> <p>PQDLPTATS SSMAFLYST ALPNHAIREL KQEAPSCPLA PSDLGLSRPM PEPKATGAQD</p> <p>FSDCCGQKPT GPGGPLIQNV HASKRILFSI VHDKSEKWD AFIKETEDINT LRECVQILFN</p> <p>SRYAEALGLD HMVPVPYRKI ACDPEAVEIV GIPDKIPFKR PCTYGVPKLK RILEERHSIH</p> <p>FIKRMFDER IFTGNKFTKD TTKLEPASPP EDTSAEVSRA TVLDLAGNAR SDKGSMSEDC</p> <p>GPGTSGELGG LRPIKIEPED LDIIQVTPD PSPTSEEMTD SMPGHLPSGD SGYGMEMLT</p> <p>KGLSEDARPE ERPVEDSHGD VIRPLRKQVE LLFNTRYAKA IGISEPVKVP YSKFLMHPEE</p> <p>LFVVGLEPGI SLRRPNCFGI AKLRKILEAS NSIQFVIKRP ELLTEGVKEP IMDSQGTASS</p>

LGFSPPALPP ERDSGDPLVD ESLKRQGFQE NYDARLSRID IANTLREQVQ DLFNKKYGEA
LGIKYPVQVP YKRIKSNPGS VIIEGLPPGI PFRKPCTFGS QNLERILAVA DKIKFTVTRP
FQGLIPKPDE DDANRLGEKV ILREQVKELF NEKYGEALGL NRPVLVPYKL IRDSPDAVEV
TGLPDDIPFR NPNTYDIHRL EKILKAREHV RMVIINQLQP FAEICNDAKV PAKDSSIPKR
KRKRVSEGENS VSSSSSSSSS SSSNPDSVAS ANQISLVQWP MYMVDYAGLN VQLPGPLNY

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	GTF2IRD1
Alternative Name:	GTF2IRD1 (GTF2IRD1 Products)
Background:	General transcription factor II-I repeat domain-containing protein 1 (GTF2I repeat domain-containing protein 1) (General transcription factor III) (MusTRD1/BEN) (Muscle TFII-I repeat domain-containing protein 1) (Slow-muscle-fiber enhancer-binding protein) (USE B1-binding protein) (Williams-Beuren syndrome chromosomal region 11 protein) (Williams-Beuren syndrome chromosomal region 12 protein),FUNCTION: 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 (By similarity). {ECO:0000250, ECO:0000269 PubMed:11438732}.
Molecular Weight:	106.1 kDa
UniProt:	Q9UHL9

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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

Application Details

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months