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Datasheet for ABIN3093769

## MED23 Protein (AA 1-1368) (Strep Tag)

### Overview

Quantity:	1 mg
Target:	MED23
Protein Characteristics:	AA 1-1368
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MED23 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Sequence: METQLQSIFE EVVKTEVIEE AFPGMFMDTP EDEKTKLISC LGAFRQFWGG LSQESHEQCI  
QWIVKFIHGQ HSPKRISFLY DCLAMAVETG LLPPRLVCES LINSDTLEWE RTQLWALTFK  
LVRKIIGGVD YKGV RDLLKV ILEKILTIPN TVSSAVVQQL LAAREVIAYI LERNACLLPA YFAVTEIRKL  
YPEGKLPHWL LGNLVSDFVD TFRPTARINS ICGRCSLLPV VNNSGAICNS WKLDPATLRF  
PLKGLLPYDK DLFEPQTALL RYVLEQPYSR DMVCNMLGLN KQHKQRCPVL EDQLVDLVVY  
AMERSETEEK FDDGGTSQLL WQHLSSQLIF FVLFQFASFP HMLVSLHQKL AGRGLIKGRD  
HLMWVLLQFI SGSIQKNALA DFLPVMKLF D LLYPEKEYIP VPDINKPQST HAFAMTCIWI  
HLNRKAQNDN SKLQIPIPHS LRLHHEFLQQ SLRNKSLQMN DYKIALLCNA YSTNSECFTL  
PMGALVETIY GNGIMRIPLP GTNCMASGSI TPLPMNLLDS LTVHAKMSLI HSIATRVIKL  
AHAKSSVALA PALVETYSRL LVYMEIESLG IKGFIQQLLP TVFKSHAWGI LHTLLEMFSY  
RMHHIQPHYR VQLLSHLHTL AAVAQTNQNG LHLCVESTAL RLITALGSSE VQPQFTRFLS  
DPKTVLSAES EELNRALILT LARATHVTFD FTGSDSIQGT WCKDILQTIM SFTPHNWASH

TLSCFPGPLQ AFFKQNNVPQ ESRFNLKKNV EEEYRKWKSM SNENDIITHF SMQGSPLFL  
CLLWKMLLET DHINQIGYRV LERIGARALV AHVRTFADFL VYEFSTSAGG QQLNKCIEL  
NDMVWKYNIV TLDRLILCLA MRSHEGNEAQ VCYFIIQLLL LKPNDFRNRV SDFVKENSPE  
HWLQNDWHTK HMNYHKKYPE KLYFEGLAEQ VDPPVQIQSP YLPIYFGNVC LRFLPVFDIV  
IHRFLELLPV SKSLETLLDH LGGLYKFHDR PVTYLYNTLH YYEMHLRDRA FLKRKLVHAI  
IGSLKDNRPQ GWCLSDTYLK CAMNAREENP WVPDDTYYCR LIGRLVDTMA GKSPGPFPC  
DWRFNFPNP AAHALHVTCV ELMALAVSGK EVGNALLNVV LKSQPLVPRE NITAWMNAIG  
LIITALPEPY WIVLHDRVIS VISSPSLTSE TEWVGYPFRL FDFTACHQSY SEMSCSYTLA  
LAHAVWHHSS IGQLSLIPKF LTEVLLPIVK TEFQLLYVYH LVGPFLQRFQ QERTRCMIEI  
GVAFYDMLLN VDQCSTHLNY MDPICDFLYH MKYMFTGDSV KEQVEKIICN LKPALKLRLR  
FITHISKMEP AAVPPQAMNS GSPAPQSNQV PVSLPVTQ

**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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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

## Product Details

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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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>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.</li></ol>
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Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
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## Target Details

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Target:	MED23
Alternative Name:	MED23 ( <a href="#">MED23 Products</a> )
Background:	Mediator of RNA polymerase II transcription subunit 23 (Activator-recruited cofactor 130 kDa component) (ARC130) (Cofactor required for Sp1 transcriptional activation subunit 3) (CRSP complex subunit 3) (Mediator complex subunit 23) (Protein sur-2 homolog) (hSur-2) (Transcriptional coactivator CRSP130) (Vitamin D3 receptor-interacting protein complex 130 kDa component) (DRIP130),FUNCTION: Required for transcriptional activation subsequent to the assembly of the pre-initiation complex (By similarity). Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional pre-initiation complex with RNA polymerase II and the general transcription factors. Required for transcriptional activation by adenovirus E1A protein.

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## Target Details

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Required for ELK1-dependent transcriptional activation in response to activated Ras signaling. {ECO:0000250, ECO:0000269|PubMed:10353252, ECO:0000269|PubMed:14759369, ECO:0000269|PubMed:16595664}.

Molecular Weight: 156.5 kDa

UniProt: [Q9ULK4](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

## Application Details

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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 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!

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)