

Datasheet for ABIN7554616
MTF2 Protein (AA 1-593) (His tag)



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Overview

Quantity:	1 mg
Target:	MTF2
Protein Characteristics:	AA 1-593
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTF2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MTF2 Protein expressed in mammalian cells.
Sequence:	MRDSTGAGNS LVHKRSPLRR NQKTPTSLTK LSLQDGHKAK KPACKFEEGQ DVLARWSDGL FYLGTIKKIN ILKQSCFIIF EDSSKSWVLW KDIQTGATGS GEMVCTICQE EYSEAPNEMV ICDKCGQGYH QLCHTPHIDS SVIDSDEKWL CRQCVFATTT KRGGALKKGP NAKALQVMKQ TLPYSVADLE WDAGHKTNVQ QCYCYCGGPG DWYLKMLQCC KCKQWFHEAC VQCLQKPLMF GDRFYTFICS VCSSGPEYLK RLPLQWVDIA HLCLYNLSVI HKKKYFDSEL ELMTYINENW DRLHPGELAD TPKSERYEHV LEALNDYKTM FMSGKEIKKK KHLFGLRIRV PPVPPNVAFK AEKEPEGTSH EFKIKGRKAS KPISDSREVS NGIEKKGKKK SVGRPPGPYT RKMIQKTAEP LLDKESISEN PTLDLPCSIG RTEGTAHSSN TSDVDFTGAS SAKETTSSSI SRHYGLSDSR KRTRTGRSWP AAIPHLRRRR GRLPRRALQT QNSEIVKDDE GKEDYQFDEL NTEILNNLAD QELQLNHLKN SITSYFGAAG RIACGEKYRV LARRVTLDGK VQYLVEWEGA TAS 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:

MTF2

Alternative Name:

MTF2 ([MTF2 Products](#))

Background:

Metal-response element-binding transcription factor 2 (Metal regulatory transcription factor 2) (Metal-response element DNA-binding protein M96) (Polycomb-like protein 2) (hPCI2),FUNCTION: Polycomb group (PcG) protein that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex, thus enhancing PRC2 H3K27me3 methylation activity (PubMed:23142980, PubMed:23228662, PubMed:31959557). Regulates the transcriptional networks during embryonic stem cell self-renewal and differentiation (By similarity). Promotes recruitment of the PRC2 complex to the inactive X chromosome in differentiating XX ES cells and PRC2 recruitment to target genes in undifferentiated ES cells (By similarity). Required to repress Hox genes by enhancing H3K27me3 methylation of the PRC2 complex (By similarity). In some conditions may act as an inhibitor of PRC2 activity: able to activate the CDKN2A gene and promote cellular senescence

Target Details

by suppressing the catalytic activity of the PRC2 complex locally (By similarity). Binds to the metal-regulating-element (MRE) of MT1A gene promoter (By similarity).
{ECO:0000250|UniProtKB:Q02395, ECO:0000269|PubMed:23142980, ECO:0000269|PubMed:23228662, ECO:0000269|PubMed:31959557}.

Molecular Weight: 67.1 kDa

UniProt: [Q9Y483](#)

Pathways: [Stem Cell Maintenance](#)

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