Datasheet for ABIN7554597

MORF4L1 Protein (AA 1-362) (His tag)

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Overview

Quantity:	1 mg
Target:	MORF4L1
Protein Characteristics:	AA 1-362
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MORF4L1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MORF4L1 Protein expressed in mammalian cells.
Sequence:	MAPKQDPKPK FQEGERVLCF HGPLLYEAKC VKVAIKDKQV KYFIHYSGWN KKSAVRPRRS EKSLKTHEDI VALFPVPEGA PSVHHPLLTS SWDEWVPESR VLKYVDTNLQ KQRELQKANQ EQYAEGKMRG AAPGKKTSGL QQKNVEVKTK KNKQKTPGNG DGGSTSETPQ PPRKKRARVD PTVENEETFM NRVEVKVKIP EELKPWLVDD WDLITRQKQL FYLPAKKNVD SILEDYANYK KSRGNTDNKE YAVNEVVAGI KEYFNVMLGT QLLYKFERPQ YAEILADHPD APMSQVYGAP HLLRLFVRIG AMLAYTPLDE KSLALLLNYL HDFLKYLAKN SATLFSASDY EVAPPEYHRK AV **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MORF4L1
Alternative Name:	MORF4L1 (MORF4L1 Products)
Background:	Mortality factor 4-like protein 1 (MORF-related gene 15 protein) (MRG15) (Protein MSL3-1) (Transcription factor-like protein MRG15),FUNCTION: Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. As part of the SIN3B complex represses transcription and counteracts the histone acetyltransferase activity of EP300 through the recognition H3K27ac marks by PHF12 and the activity of the histone deacetylase HDAC2 (PubMed:37137925, PubMed:12391155, PubMed:14966270).

Target Details

	SIN3B complex is recruited downstream of the constitutively active genes transcriptional start sites through interaction with histones and mitigates histone acetylation and RNA polymerase II progression within transcribed regions contributing to the regulation of transcription (PubMed:21041482). Required for homologous recombination repair (HRR) and resistance to mitomycin C (MMC). Involved in the localization of PALB2, BRCA2 and RAD51, but not BRCA1, to DNA-damage foci. {ECO:0000269|PubMed:12391155, ECO:0000269|PubMed:14966270, ECO:0000269|PubMed:20332121, ECO:0000269|PubMed:21041482, ECO:0000269|PubMed:37137925}.
Molecular Weight:	41.5 kDa
UniProt:	Q9UBU8
Pathways:	Chromatin Binding

Application Details

Application Notes:	We expect the protein to work for functional studies. 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