Datasheet for ABIN7549419

# MLXIPL Protein (AA 1-852) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | MLXIPL |
| Protein Characteristics: | AA 1-852 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MLXIPL protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Purpose: | Custom-made recombinat MLXIPL Protein expressed in mammalien cells. |
| Sequence: | MAGALAGLAA GLQVPRVAPS PDSDSDTDSE DPSLRRSAGG LLRSQVIHSG HFMVSSPHSD SLPRRRDQEG SVGPSDFGPR SIDPTLTRLF ECLSLAYSGK LVSPKWKNFK GLKLLCRDKI RLNNAIWRAW YIQYVKRRKS PVCGFVTPLQ GPEADAHRKP EAVVLEGNYW KRRIEVVMRE YHKWRIYYKK RLRKPSREDD LLAPKQAEGR WPPPEQWCKQ LFSSVVPVLL GDPEEEPGGR QLLDLNCFLS DISDTLFTMT QSGPSPLQLP PEDAYVGNAD MIQPDLTPLQ PSLDDFMDIS DFFTNSRLPQ PPMPSNFPEP PSFSPVVDSL FSSGTLGPEV PPASSAMTHL SGHSRLQARN SCPGPLDSSA FLSSDFLLPE DPKPRLPPPP VPPPLLHYPP PAKVPGLEPC PPPPFPPMAP PTALLQEEPL FSPRFPFPTV PPAPGVSPLP APAAFPPTPQ SVPSPAPTPF PIELLPLGYS EPAFGPCFSM PRGKPPAPSP RGQKASPPTL APATASPPTT AGSNNPCLTQ LLTAAKPEQA LEPPLVSSTL LRSPGSPQET VPEFPCTFLP PTPAPTPPRP PPGPATLAPS RPLLVPKAER LSPPAPSGSE RRLSGDLSSM PGPGTLSVRV SPPQPILSRG RPDSNKTENR RITHISAEQK |

## Product Details

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| | RRFNIKLGFD TLHGLVSTLS AQPSLKVSKA TTLQKTAEYI LMLQQERAGL QEEAQQLRDE IEELNAAINL CQQQLPATGV PITHQRFDQM RDMFDDYVRT RTLHNWKFWV FSILIRPLFE SFNGMVSTAS VHTLRQTSLA WLDQYCSLPA LRPTVLNSLR QLGTSTSILT DPGRIPEQAT RAVTEGTLGK PL **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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | MLXIPL |
| Alternative Name: | MLXIPL (MLXIPL Products) |
| Background: | Carbohydrate-responsive element-binding protein (ChREBP) (Class D basic helix-loop-helix protein 14) (bHLHd14) (MLX interactor) (MLX-interacting protein-like) (WS basic-helix-loop-helix leucine zipper protein) (WS-bHLH) (Williams-Beuren syndrome chromosomal region 14 protein),FUNCTION: Binds DNA as a heterodimer with MLX/TCFL4 and activates transcription. Binds to the canonical E box sequence 5'-CACGTG-3'. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation (By similarity). Regulates transcription in response to changes in cellular carbohydrate abundance such as |

## Target Details

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| | occurs during fasting to feeding metabolic transition. Refeeding stimulates MLXIPL/ChREBP transcription factor, leading to increased BCKDK to PPM1K expression ratio, phosphorylation and activation of ACLY that ultimately results in the generation of malonyl-CoA and oxaloacetate immediate substrates of de novo lipogenesis and gluconeogenesis, respectively (By similarity). {ECO:0000250\|UniProtKB:Q2VPU4, ECO:0000250\|UniProtKB:Q9HAP2}. |
| Molecular Weight: | 93.1 kDa |
| UniProt: | Q9NP71 |
| Pathways: | Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process |

## 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. |
| Restrictions: | For Research Use only |

## Handling

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| 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 |