

Datasheet for ABIN3134463 CUX1 Protein (AA 1-1515) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CUX1
Protein Characteristics:	AA 1-1515
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CUX1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MLCVAGAKLK RELDATATVL ANRQDESEQS RKRLIEQSRE FKKNTPEDLR KQVAPLLKSF</p> <p>QGEIDALSKR SKEAEAAFLT VYKRLIDVPD PVPALDVGQQ LEIKVQRLHD IETENQKLRE</p> <p>TLEEYNKEFA EVKNQEVTIK ALKEKIREYE QTLKSQAETI ALEKEQKLQN DFAEKERKLQ</p> <p>ETQMSTTSKL EEAHKLQTL QTALEKTRTE LFDLTKYDE ETTAKADEIE MIMTDLERAN</p> <p>QRAEVAQREA ETLREQLSSA NHSLQLASQI QKAPDVAIEV LTRSSLEVEL AAKEREIAQL</p> <p>VEDVQRLQAS LTKLRENSAS QISQLEQQLN AKNSTLKQLE EKLKGQADYE EVKKELNTLK</p> <p>SMEFAPSEGA GTQDSTKPLE VLLLEKNRSL QSENATLRIS NSDLSGSARR KGRDQPESRR</p> <p>PGPLPASPPP QLPRNTGEQV SNTNGTHHFS PAGLSQDFFS SNLASPSLPL ASTGKFALNS</p> <p>LLQRQLMQSF YSKAMQEAGS TSTIFSTGPY STNSISSPSP LQQSPDVNGM APSPSQSESA</p> <p>GSISEGEEID TAEIARQVKE QLIKHNIQQR IFGHYVLGLS QGSVSEILAR PKPWNKLTVR</p> <p>GKEPFHKMKQ FLSDEQNILA LRSIQGRQRE NPGQSLNRLF QEVPKRRNRS EGNITTRIRA</p> <p>SETGSDEAIK SILEQAKREL QVQKTAEPVQ TSSTSSSGNS DDAIRSILQQ ARREMEAQQA</p>
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ALDPALKPAP LSQPDILT PKHLSASPMS TVSTYPPLAI SLKKTAAPE TSTAALPSAP
ALKKEAQDVP TLDPPGSADA AQGVL RPMKS ELVRGSTWKD PWWSPIQPER RNLTSSSEETK
ADETTASGKE RAGSSQPRAE RSQLQGPSAS AEYWKEWPSA ESPYSQSSEL SLTGASRSET
PQNSPLPSSP IVPMAKPAKP SVPPLTPEQY EVYMYQEVDI IELTRQVKEK LAKNGICQRI
FGEKVLGLSQ GSVSDMLSRP KPWSKLTQKG REPFIRMQLW LNGELGQGVV PVQGGQQGPV
LHSVASLQDP LQQGCVSSES TPKTSASCSP APESPMSSSE SVKSLTELQV QPCPAIETSK
EGKPPEPSDP PASDSQPTTP LPLSGHSALS IQELVAMSPE LDYTGITKRV KEVLTDNNLG
QRLFGETILG LTQGSVSDLL ARPKPWHKLS LKGREPFVRM QLWLNPNNV EKLMDMKRME
KKAYMKRRHS SVSDSQPCEP PSVGIDYSQG ASPQPQHQLK KPRVVLAPPE KEALKRAYQQ
KPYPSPKTIE ELATQLNLKT STVINWFHNY RSIRRELFI EEIQAGSQGQ AGASDPSAR
SSRAAPSSEG DSCDGVETD AEEPPGNIVA TKSQGGLAEV AAPADREEA TQPAEKAKAQ
PLCSGTPGQD DGEDASRPRP LPEGLADAPA PVPSLAAPAA GEDAATSATA PATATEAPGA
ARAGPAERSS ALPSTSAPAN APARRPSSLQ SLFGLPEAAG ARDNPVRKKK AANLNSIIHR
LEKAASREEP IEWEF

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Cux1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

Product Details

	The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.
Purification:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	CUX1
Alternative Name:	Cux1 (CUX1 Products)
Background:	Probably has a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activating CCAAT factors to promoters. Component of nf-munr repressor, binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. Represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Binds to the TH enhancer, may require the basic helix-loop-helix protein TCF4 as a coactivator. {ECO:0000269 PubMed:11544187, ECO:0000269 PubMed:15371550, ECO:0000269 PubMed:9858552}.
Molecular Weight:	166.5 kDa Including tag.
UniProt:	P53564
Pathways:	Cellular Glucan Metabolic Process

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
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Application Details

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Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process