

Datasheet for ABIN7553564  
**CUX1 Protein (AA 1-1505) (His tag)**



[Go to Product page](#)

## Overview

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Quantity:                     | 1 mg                                        |
| Target:                       | CUX1                                        |
| Protein Characteristics:      | AA 1-1505                                   |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This CUX1 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)       |

## Product Details

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:  | Custom-made recombinat CUX1 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence: | <p>MLCVAGARLK RELDATATVL ANRQDESEQS RKRLIEQSRE FKKNTPEDLR KQVAPLLKSF</p> <p>QGEIDALSKR SKEAEAAFLN VYKRLIDVPD PVPALDLGQQ LQLKVQRLHD IETENQKLRE</p> <p>TLEEYNKEFA EVKNQEVTIK ALKEKIREYE QTLKNQAETI ALEKEQKLQN DFAEKERKLQ</p> <p>ETQMSTTSKL EEAHVKVQSL QTALEKTRTE LFDLTKTYDE ETTAKADEIE MIMTDLERAN</p> <p>QRAEVAQREA ETLREQLSSA NHSLQLASQI QKAPDVEQAI EVLTRSSLEV ELAAKEREIA</p> <p>QLVEDVQRLQ ASLTKLRENS ASQISQLEQQ LSAKNSTLKQ LEEKLKGQAD YEEVKKELNI</p> <p>LKSMEFAPSE GAGTQDAAKP LEVLLLEKNR SLQSENAALR ISNSDLGSA RRGKGDQPES</p> <p>RRPGSLPAPP PSQLPRNPGE QASNTNGTHQ FSPAGLSQDF FSSSLASPSL PLASTGKFAL</p> <p>NSLLQRQLMQ SFYSKAMQEA GSTSMIFSTG PYSTNSISSQ SPLQQSPDVN GMAPSPSQSE</p> <p>SAGSVSEGEE MDTAEIARQV KEQLIKHNIG QRIFGHYVLG LSQGSVSEIL ARPKPWNKLT</p> <p>VRGKEPFHKM KQFLSDEQNI LALRSIQGRQ RENPGQSLNR LFQEVPKRRN GSEGNITTRI</p> |

RASETGSDEA IKSILEQAKR ELQVQKTAEP AQPSSASGSG NSDDAIRSIL QQARREMEAQ  
QAALDPALKQ APLSQSDITI LTPKLLSTSP MPTVSSYPPL AISLKKPSAA PEAGASALPN  
PPALKKEAQD APGLDPQGAA DCAQGVLRQV KNEVGRSGAW KDHWWSAVQP ERRNAASSEE  
AKAEETGGGK EKGSGGSGGG SQPRAERSQL QGPSSSEYWK EWPSAESPYS QSSELSLTGA  
SRSETPQNSP LPSSPIVPMS KPTKPSVPPL TPEQYEVYMY QEVDTIELTR QVKEKLAKNG  
ICQRIFGEKV LGLSQGSVSD MLSPKPKWSK LTQKGREPFI RMQLWLNGL GQGVLPVQGG  
QQGPVLHVSF SLQDPLQGGC VSSESTPKTS ASCSPAPESP MSSSESVKSL TELVQQPCPP  
IEASKDSKPP EPSDPPASDS QPTTPLPLSG HSALSIQELV AMSPELDTYG ITRKRVKEVLT  
DNNLGQRLFG ETILGLTQGS VSDLLARPKP WHKLSLKGRE PFVRMQLWLN DPNNVEKLMD  
MKRMEKKAYM KRRHSSVSDS QPCEPPSVGT EYSQGASPQP QHQLKKPRVV LAPEEKEALK  
RAYQQKPYPS PKTIEDLATQ LNLKTSTVIN WFHNYRSRIR RELFIEEIQG GSQGGAGASD  
SPSARSGRAA PSSEGDSCDG VEATEGPGSA DTEEPKSQGE AEREEVPRPA EQTEPPPSGT  
PGPDDARDDD HEGGPVEGPG PLPSPASATA TAAPAAPEDA ATSAAPAPGE GPAAPSSAPP  
PSNSSSSSAP RRPSSLQSLF GLPEAAGARD SRDNPLRKKK AANLNSIIHR LEKAASREEP IEWEF

**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: | <p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p> |
| Purity:          | > 90 % as determined by Bis-Tris Page, Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Grade:           | custom-made                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CUX1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Name: | CUX1 ( <a href="#">CUX1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Background:       | <p>Homeobox protein cut-like 1 (CCAAT displacement protein) (CDP) (CDP/Cux p200) (Homeobox protein cux-1) [Cleaved into: CDP/Cux p110],FUNCTION: Transcription factor involved in the control of neuronal differentiation in the brain. Regulates dendrite development and branching, and dendritic spine formation in cortical layers II-III. Also involved in the control of synaptogenesis. In addition, it has probably 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.</p> <p>{ECO:0000250 UniProtKB:P53564},. FUNCTION: [CDP/Cux p110]: Plays a role in cell cycle progression, in particular at the G1/S transition. As cells progress into S phase, a fraction of CUX1 Molecules is proteolytically processed into N-terminally truncated proteins of 110 kDa. While CUX1 only transiently binds to DNA and carries the CCAAT-displacement activity, CDP/Cux p110 makes a stable interaction with DNA and stimulates expression of genes such as POLA1. {ECO:0000269 PubMed:15099520}.</p> |
| Molecular Weight: | 164.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt:          | <a href="#">P39880</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pathways:         | <a href="#">Cellular Glucan Metabolic Process</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months