

Product datasheet for **SC310178**

CUX1 (NM_181500) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CUX1 (NM_181500) Human Untagged Clone
Tag:	Tag Free
Symbol:	CUX1
Synonyms:	CASP; CDP; CDP/Cut; CDP1; Clox; COY1; CUTL1; CUX; Cux/CDP; GDDI; GOLIM6; Nbla10317; p75; p100; p110; p200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310178 representing NM_181500.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCGGCAATGTGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAA
CTCGATGCCACCGCAACGGTATTGGCGAACCGGCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATC
GAACAGAGCCGGGAGTTCAAGAAGAACAACCTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAG
AGTTTCCAAGGAGAGATTGATGCTACTGAGTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTGAATGTC
TACAAAAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCTCAAA
GTGCAGCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGAAGAATAACAACAG
GAATTTGCTGAAGTGAATAATCAAGAGTTACGATAAAAGCACTTAAAGAGAAAAATCCGAGAATATGAA
CAGACTGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGAACAGAAATTACAGAATGACTTTGCA
GAAAAGGAGAGAAAGCTGCAGGAGACACAGATGCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAG
GTTCCAGAGCTACAAACAGCCCTGGAAAAAAGCTGAAACAGAAATTTTGGCTGAAAACCAATACGAT
GAAGAACTACTGCAAAGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACAGAGG
GCAGAGGTGGCTCAGAGAGAGGGCGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTCCCTCCAG
CTGGCCTCACAGATCCAGAAGGCCACAGACGTGGCCATAGAGGTGCTGACCCGCTCCAGCCTAGAAGTT
GAGTTGGCCGCCAAGGAGCGGGAGATCGCACAGCTGGTGGAGGACGTGCAGAGACTCCAGGCCAGCCTC
ACCAAGCTGCGGGAGAATTCGGCCAGCCAGATCTCACAGCTTGAGCAGCAGCTGAGCGCCAAAAACAGC
ACACTCAAACAACTGGAAGAAAACTCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAAC
ATTTCTGAAGTCCATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCTGGAG
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CTGAGCGGACGCTGTGCGGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCACAGCCACTGAGCAGAGA
GAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTAGTCCATCCAGCGGCCCGATGCCGAGGGT
GCCGCTGAGCACCGCTGGAGAAGATCCAGAGCCCATCAAAGAGGCCACTGCCCTATTCTACGGACCT
GCAGCACCAGCCAGCGGTGCCCTCCAGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCCAGCCAG
AGGAGCGCTTCCGTGCCGGAACAGGAGCTTGAGGCCGAGAACCAGCTGGCCAGCACACCCTCCAG
GCCCTGCAGAGTGAAGCTGGACAGCCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCTG
CAGAGCTACCCTGGCCGGGCAGCGCAGTATGACACGGAGCTGCGGTACTCGTCCAGTACGAGGAG
CGCCTGGACCCCTTCTCCTCCTCAGCAAGCGGAGCGGCAGAGGAAGTACCTGAGCTTGAGTCCCTGG
GACAAGGCCACCCTCAGCATGGGGCGTCTGTTTCTCTCCAACAAGATGGCGCGCACCATCGGCTTCTTC
TACAACTGTTTCTGACTGCCTGGTCTTCTGTTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAG
AGGACTGTGCCACCTTCTGCGCAAGAAGTTCGCTGACCACCTGCACAAGTTCCACGAGAATGACAAAC
GGGCTGCGGCTGGTACTTGTGGCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_181500

Insert Size: 2031 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_181500.3](#)

RefSeq Size: 3033 bp

RefSeq ORF: 2031 bp

Locus ID: 1523

UniProt ID: [Q13948](#)

Cytogenetics: 7q22.1

Protein Families: Transcription Factors, Transmembrane

MW: 77.2 kDa

Gene Summary:

The protein encoded by this gene is a member of the homeodomain family of DNA binding proteins. It may regulate gene expression, morphogenesis, and differentiation and it may also play a role in the cell cycle progression. Several alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Feb 2011]

Transcript Variant: This variant (3) lacks a 6 nt segment at an alternate splice site and has an alternate 3' sequence including the coding region, as compared to variant 4. The resulting isoform (c) lacks two internal amino acids and has a shorter and distinct C-terminus, as compared to isoform d.