

## Product datasheet for **SC109135**

### **CUX1 (NM\_001913) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CUX1 (NM_001913) 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001913, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC
TCGATGCCACCGCAACGGTATTGGCGAACCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATCGA
ACAGAGCCGGGAGTTCAAGAAGAACAACCTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGT
TTCCAAGGAGAGATTGATGCACTGAGTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGCTACA
AAAGATTGATTGACGTCCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCTCAAAGTGCA
GCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGAAGAATACAACAAGGAATTT
GCTGAAGTAAAAATCAAGAGGTTACGATAAAAGCACTTAAAGAGAAAATCCGAGAATATGAACAGACAC
TGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGGAACAGAAGTTACAGAATGACTTTGCAGAAAAGGA
GAGAAAGTGCAGGAGACACAGATGTCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAGGTTGAGAGC
CTACAAACAGCCCTGGAAAAAATCGAACAGAATATTTGACCTGAAAACCAAATACGATGAAGAACTA
CTGCAAAGGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGCAGAGGTGGC
TCAGAGAGAGGGCGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTCCCTCCAGCTGGCCTCACAG
ATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCTGACCCGCTCCAGCCTAGAAGTTGAGTTGG
CCGCCAAGGAGCGGGAGATCGCACAGCTGGTGGAGGACGTGCAGAGACTCCAGGCCAGCCTCACCAAGCT
GCGGGAGAATTCGGCCAGCCAGATCTCACAGCTTGAGCAGCAGCTGAGCGCCAAAAACAGCACACTCAA
CAACTGGAAGAAAAAATCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAAGAGCTGAACATTCTGAAGT
CCATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCTGGAGGTGCTGTTGCT
GGAGAAGAACCGCTCGCTGCAGTCCGAGAACGCCGCGCTGCGCATCTCCAACAGCGACCTGAGCGGACGC
TGTGCAGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCACAGCCACTGAGCAGAGAGAGCTGATCGCCC
GCCTGGAGCAGGACCTGAGCATCATTAGTCCATCCAGCGGCCGATGCCGAGGGTGCCGCTGAGCACCG
CCTGGAGAAGATCCCAGAGCCCATCAAAGAGGCCACTGCCCTATTCTACGGACCTGCAGCACCAGCCAGC
GGTGCCCTCCCAGAGGGCCAGGTGGATTACTGCTTTCCATCATCTCCAGCCAGAGGGAGCGCTTCCGTG
CCCGAACAGGAGCTTGAGGCCGAGAACCCTGGCCAGCACACCCTCCAGGCCCTGCAGAGTGAAGT
GGACAGCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCTGCAGAGCTACCCTGGCCGG
GGCAGCGGAGTATGACACGGAGCTGCGGTACTCGTCCAGTACGAGGAGCGCTGGACCCCTTCTCT
CCTTCAGCAAGCGGGAGCGGCAGAGGAAGTACCTGAGCTTGAGTCCCTGGGACAAGGCCACCCTCAGCAT
GGGGCTCTGGTTCTCTCCAACAAGATGGCGCGCACCATCGGCTTCTTACACACTGTTCTGCACTGC
CTGGTCTTCTGGTGCTTACAAGCTGGCATGGAGCGAGAGCATGGAGAGGGACTGTGCCACCTTCTGCG
CCAAGAAGTTCGCTGACCACCTGCAACAAGTTCCACGAGAATGACAACGGGGCTGCGGCTGGTACTGTG
GCAGTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001913 unedited</p> <pre>GGGGTCAGNATATTTGTATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCTC CTGGCGGCTCCTGAACTCCAGCCCCCTCTATCAGCCGCTCACTCCGTCTCAATATGTC TCAAGATGGCGGCAATGTGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGC AGCTGCAGAGAGAAGCTCGATGCCACCGCAACGGTATTGGCGAACCGGCAGGATGAAAGTG AGCAGTCCAGAAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAAGAACAACCTCCAGAGG ATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGAGATTGATGCACTGA GTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAAAAGATTGATTGACG TCCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCTCAAAGTGCAGCGCC TGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGAAGAATACAACAAGG AATTTGCTGAAGTAAAAATCAAGAGGTTACGATAAAAGCACTTAAAGAGAAAATCCGAG AATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGGAACAGAAGT TACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACAGATGTCCACCCT CAAAGCTGGAGGAAGCTGAGCATAAGGTTGAGAGCCTACAAAACAGCCCTGGAAAACTC GAACAGAATTATTTGACCTGAAAACCCATACGATGAAGAACTACTGCAAAGGCCGACGA GATTGAAATGATCATGACGGACCTTGAAGGGCAACCCAGAGGCAGAGGTGGCTCACAGA GAGGC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001913 unedited</p> <pre>GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGCTGCAACCGTGGTTATTTT AAATGTGCAAAGCTAAATATGCAACTACAAATCTAACTCAGGAAGGCCTGCCAGTGGCCC TGAGAGGTGGCCGTGCTAGGGTGGTCCACAGCCAGTTCTGATTGGCTAGGAGACGTTTCAG ACCCCTCAGACCAATCCATGAGTCTGAAGAGACTGGGGCTCGGGGGCTCATTAGAGACTC TTCTTATCTAGAAACCAGAATATCTTGCTAAAGAAGAAAGCAGAAATCATATGGGTCTG GGGGCAGGGAGGGGGTAATAGAACTGTTCCGCTGGCTGGGGCTCTCTCTTTGGGGTGC AGTGGGGGAGGGGGCAGACTCTGTCAAGCCTCATATACTCTGCAGGGTGGGGCTGGTGGC AAAGGCAGGCTGGGGGTGCTGGACTCAAAGCCTGCTGTCTGGAAGGAAGCGTCTCCAC CTCTTACGGGGCATGGGGGGATCCTATGAGAGCCCAAGAGGATCGCAGTGCAGACAGGCC CAAGCTGGATTAACCGCAGCTGGAATCGGTGGTCAACCAATTAGCCTCGCAGCTGAGGGA CCTCTGCCACCAGGGCTAGAGGTCAAGCTGCGGGCAGAGCCCTAACCTGATGTGGAGGT GAGAGGGTCTCTCGGCTTANCCCTGGCCGGCATAAGGGGCTCGCTCTCTGGACCTACGG CCTGATGTGACCGAGACATCCTTTCAGGGGACCCGAGTGACCTGGGCCTCTGCANCTGCT GGACAGCGATAAGGCAGTTCCATGGGGGATCTCAGGGAGTCTAGTGATATATGCCTGAG CGTGGGGTGGAGCGCACCGTACTGTACGGGGGAGCCCCGGTTACTGCCACAGTACAGC GCAGCCCGTGTATCTGTGGACTGGCAGTGTCCCGACTCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001913
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_001913.2](#), [NP\\_001904.2](#)

**RefSeq Size:** 2942 bp

**RefSeq ORF:** 2037 bp

**Locus ID:** 1523

**UniProt ID:** [Q13948](#)

**Cytogenetics:** 7q22.1

**Protein Families:** Transcription Factors, Transmembrane

**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 (2) has an alternate 3' sequence including the coding region, as compared to variant 4. The resulting isoform (b) has a shorter and distinct C-terminus, as compared to isoform d.