

Product datasheet for **MC220313**

Cux1 (NM_198602) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cux1 (NM_198602) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cux1
Synonyms:	CDP; Cutl1; Cux; Cux-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220313 representing NM_198602
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCAATGTGGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC
 TTGATGCCACCGCAACAGTATTGGCAAACAGGCAAGATGAGAGCGAACAGTCCAGAAAGCGGCTCATTGA
 GCAGAGCCGAGAATTCAAGAAGAACAACCTCCAGAGGATTTACGCAAGCAGGTAGCACCAGCTGCTAAAGAGC
 TTCCAAGGGGAGATTGATGCACTGAGTAAAAGAAGCAAAGAAGCAGAGGCGAGCCTTCTTGACTGTGTACA
 AGAGACTAATTGATGTTCCAGATCCGGTACCAGCCCTGGACGTCGGGCAACAGCTGGAAATAAAAGTGCA
 GCGTCTACACGACATTGAAACAGAGAACCAGAACTTAGGGAAACACTAGAAGAGTACAACAAGGAGTTT
 GCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAAGGAGAAAAATCCGAGAATACGAGCAGACCC
 TGAAGAGTCAGGCCGAGACCATTGCTCTGGAGAAAGAGCAGAAGCTACAAAATGATTTTGAGAGAAAGGA
 GAGAAAGCTGCAAGAGACACAGATGTCCACCACCTCAAACTGGAGGAAGCTGAGCACAACCTCCAGACT
 CTGCAAACAGCCCTGGAAAAAATCGAACAGAATTATTTGACCTGAAAACCAAATATGATGAAGAAACTA
 CTGCAAAGGCCGATGAGATCGAGATGATCATGACCGACCTTGAACGAGCCAACAGAGGGCAGAGGTGGC
 ACAGAGAGAAGCAGAGACTTTAAGGGAACAGCTCTCATCGGCCAACCACTCTCTCCAAGTGGCCTCGCAG
 ATCCAGAAGGCTCCAGATGTGGCCATAGAGGTGCTGACCCGATCCAGCCTAGAAGTAGAGTTGGCTGCCA
 AAGAGCGGGAGATCGCCAGCTGGTGGAAAGATGTGCAGCGACTCCAGGCCAGCCTCACCAGCTACGTGA
 GAATTCGCCAGCCAGATCTCACAGCTGGAGCAGCAACTGAATGCCAAGAATAGCACACTCAAACAAGTGA
 GAAGAAAAACTCAAAGGCCAGGCTGACTATGAAGAAGTGAAGAAAGAGCTGAACACCCTGAAGTCCATGG
 AGTTTGCACCATCGGAGGGAGCAGGGACAGGACTCTACCAAGCCCTGGAGGTTTTACTCTGGAGAA
 GAACCGCTCGCTGCAGTCCGAGAATGCCACGCTGCGCATCTCCAACAGTGACCTGAGCGGGCGCTGTGCG
 GAGCTGCAGATCCACCTCACTGAGGCCACAGCCAAGGCTGTTGAGCAGAAGGAGCTGATCGCTCGTTGG
 AGCAGGACCTCAGCACCATCCAGTCCATCCAACGGCCTGATGCCGAGGGAGCTTCCGAGCAAGGCCTAGA
 GAAGATCCAGAACCATCAAGGAAGCTACAGCTCTGTTCTATGGACCCTCAATGTCATCCAGTGGGACC
 CTTCCAGAAGGCCAGGTGGACTCCCTGCTTCCATCATCTCCAGCAAAGGGAACGTTTTCCGACCCCGGA
 ACCAAGAGCTGGAAGCCGAGAGCCGATGGCCAGCACACCATCCAGGCCCTGCAGAGCGAGCTGGACAG
 CCTGCGCGCTGACAACATCAAACCTTTTGAAGAAGTCAAGTTCCTGCAGAGTTACCCTGGCAGAGGTATC
 GGCAGTGACGACCGGAGCTGCGATACTCTCCAATACGAGGAACGCTGGACCCTTTCTCTCTTCA
 GCAAGAGGGAGCGCAGAGGAAGTACCTGGGCCTGAGCCCTGGGACAAGGCCACACTTGGCATGGGCCG
 TCTGATTTCTCCAACAAGATGGCCCGACCATCAGCTTCTTTACACCTTGTTCTGCACTGCCTGGTC
 TTTCTGGTGTGTACAAGCTGGCATGGAGTGAGAGTGTGGAGAGAGACTGTGCTGCCACCTGCGCCAAGA
 AGTTCCGGATCATCTGCACAAATCCACGAGAGTGACAACGGAGCAGCAGCTGGTGACTTATGGCAGTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_198602
- Insert Size:** 2031 bp
- OTI Disclaimer:** 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).
- 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:	<ol style="list-style-type: none">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_198602.3 , NP_941004.2
RefSeq Size:	3074 bp
RefSeq ORF:	2031 bp
Locus ID:	13047
Cytogenetics:	5 75.96 cM
Gene Summary:	<p>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 (PubMed:20510857). Also involved in the control of synaptogenesis (Probable). 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.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains alternate 5' and 3' exon structure and it thus differs in both UTRs and in the 5' and 3' coding regions, and it also uses an alternate in-frame splice site in the central coding region, compared to variant 3. The encoded isoform (b) has distinct N- and C-termini and is shorter than isoform c.</p>