

Product datasheet for MC229612

Cux1 (NM_001291234) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cux1 (NM_001291234) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cux1
Synonyms: CDP; Cutl1; Cux; Cux-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229612 representing NM_001291234
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCAATGTGGGATCGATGTTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC
 TTGATGCCACCGCAACAGTATTGGCAAACAGGCAAGATGAGAGCGAACAGTCCAGAAAGCGGCTCATTGA
 GCAGAGCCGAGAATTCAGAAGAACAACCTCCAGAGGATTTACGCAAGCAGGTAGCACCAGCTCTAAAGAGC
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 AGAGACTAATTGATGTTCCAGATCCGGTACCAGCCCTGGACGTCGGGCAACAGCTGGAAATAAAAGTGCA
 GCGTCTACACGACATTGAAACAGAGAACCAGAACTTAGGGAAACACTAGAAGAGTACAACAAGGAGTTT
 GCTGAAGTGAAAAATCAAGAGGTTACGATAAAAAGCACTTAAGGAGAAAAATCCGAGAATACGAGCAGACCC
 TGAAGAGTCAGGCCGAGACCATTGCTCTGGAGAAAAGCAGAAGCTACAAAATGATTTTGCAGAGAAGGA
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 ATCCAGAAGGCTCCAGATGTGGCCATAGAGGTGCTGACCCGATCCAGCCTAGAAGTAGAGTTGGCTGCCA
 AAGAGCGGGAGATCGCCAGCTGGTGAAGATGTGCAGCGACTCCAGGCCAGCCTCACCAAGCTACGTGA
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 AGACTTTTTAGCTCAAACCTGGCCAGCCCCAGCCTACCCTGGCTTCTACAGGAAAGTTTGCACCTAAAC
 TCTCTTCTCCAGCGACAGCTAATGCAGTCTTCTACTCCAAGGCCATGCAGGAAGCCGGAAGCACAAAGCA



CCATTTTTTCAACAGGTCTTACAGCACAACTCCATATCTTCCCAAGTCCATTACAACAAAGCCAGA
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 GATACCGCAGAGATCGCCCGCAGGTCAAAGAGCAGCTCATCAAGCACAACTTGGCCAGCGCATCTTCG
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 GCTGACTGTCCGTGGCAAGGAGCCATCCACAAGATGAAGCAGTTCCTGTCTGATGAGCAGAATCCTG
 GCACTCCGTAGCATCAAAGGCAGACAGAGAGGTAACATCACTACCCGGATCCGAGCATCTGAGACTGGTT
 CTGATGAAGCCATCAAGTCCATCCTGGAACAAGCCAAGAGGGAACAAGTGCAGAAAACCGCTGAGCC
 AGTCCAGACATCTTCCAGTCCAGCAGTGGGAACCTGTGACGATGCCATCCGCTCCATCCTACAGCAGGCC
 CGCCGGGAAATGGAGGCCAGCAGGCTGCCCTTGACCCTGCCTTAAAGCCAGCACCCTGTCCAGCCCG
 ACCTCACCATCCTCACCCCAAGCACCTGTCTGCCTCACCATGTCTACTGTGTCCACTTACCCGCCTCT
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 CTCAAAAAAGAGGCTCAGGATGTACCCACACTGGACCCACCAGGATCAGCTGATGCTGCCAGGGAGTGC
 TGAGGCCGATGAAGAGTGAGCTAGTCCGTGGCAGCACCTGGAAGGATCCCTGGTGGAGCCCTATACAGCC
 TGAAAGAAGAACTCACTTCTTCCGAAGAGACCAAGGCCGATGAAACAACCTGCAAGCGGAAAGAAAGG
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 TGAGACACCCAGAAATAGCCCTCTGCCCTTCCCAATTGTGCCATGGCGAAGCCAGCCAAGCCCTTCA
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 GGCAGGTCAAAGAGAAGCTGGCCAAGAACGGCATTGGCAGAGGATCTTTGGGGAGAAGGTACTGGGCT
 GTCCAGGGCAGTGTGAGCGACATGCTTCAAAGGCCAAAACATGGAGCAAACCTGACCCAGAAAGCCGA
 GAACCTTTCATCCGGATGAGCTCTGGTGAATGGAGAGCTGGCCAAAGGTGTTCTGCCAGTGAAGGGC
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 AGAAAGCACTCAAAGACCTCTGCCAGTGCAGCCCTGCCCTGAGTCCCAATGAGTCCAGCAATCT
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 CAGAGCCAGCGACCCGCTGCCTCAGACTCCCAGCCACAACCCGCTGCCTCTCTTGACACTCAGC
 CCTCAGCATCCAAGAATTAGTAGCATGTCTCCTGAGCTGGACACGTATGGCATAACCAAGAGGGTCAA
 GAGGTGCTGACAGACAACAACCTCGGTACGCGCTATTTGGGGAGACCATTTGGGGCTCACCCAGGGTT
 CTGTCTCCGACCTCCTTGCCCGCCAAAGCCTTGGCATAAGCTTGTGAAAGGACGGAAACCTTTGT
 CCGCATGAGCTATGGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGATATGAAGCGGATGGAGAAG
 AAAGCCTACATGAAGAGGCGACACAGCTCTGTGAGTACAGTACAGCTTGTGAGCCCCCTCTGTGGGTA
 TTGACTATAGCCAAGGCCAGCCCCAGCCACAACACCAGCTGAAGAACTCGAGTGGTGTGCTGGCTCC
 AGAGGAGAAGGAAGCGCTGAAGCGAGCATATCAGCAGAAGCCATACCCATCACAAAAACCATCGAGGAA
 CTTGCCACAACTCAACCTGAAGACCAGCACCGTCACTCAACTGGTTCCATAATTACAGGCTCTGGATCC
 GCAGAGAACTGTTCAATTGAGGAGATTCAAGCTGGAAGCCAGGGCCAGGCTGGTGCCAGCGACTCACCTTC
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 GAGGAGCCAGGTGGCAACATAGTGGCCACCAAGTCTCAGGGAGGGCTGGCAGAGGTGGCCGAGCCCCGG
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 ACAGGACGACGGTGAAGACGCAAGCCGGCTAGGCCACTTCCGAGGGCCTCGCCGACGCCCCAGCGCT
 GTGCCAAGCCTCGCCGCACCCGCGGCGGAGAGGACGCCGCTACCTCAGCCACTGCCCGGCCACGGCCA
 CCGAGGCCCCCGGGCGGCCAGGGCGGGCCTGCCGAGAGGAGTCTGCGTTGCCAAGCACAGCGCGCC
 TGCCAACGCGCTGCGCGAAGGCCTAGCTCACTGCAGAGCCTTCTCGGTGCTGCCGAGGCCGCGGGCGCC
 CGGGACAACCTGGTGGGAAGAAGAAGGCTGCGAACTTGAACAGCATCATCCACCGCTGGAGAAGGCTG
 CCAGCCGGGAGGAGCCATCGAATGGGAGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291234
Insert Size: 4515 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001291234.1, NP_001278163.1</u>
RefSeq Size:	13146 bp
RefSeq ORF:	4515 bp
Locus ID:	13047
UniProt ID:	<u>P53564</u>
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 (4) contains an alternate 5' terminal exon and it thus differs in the 5' UTR and 5' coding region, and it also uses an alternate in-frame splice site and lacks an in-frame exon in the central coding region, compared to variant 3. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>