OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

```
>MC229612 representing NM_001291234
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC
TTGATGCCACCGCAACAGTATTGGCAAACAGGCAAGATGAGAGCGAACAGTCCAGAAAGCGGCTCATTGA
GCAGAGCCGAGAATTCAAGAAGAACACTCCAGAGGATTTACGCAAGCAGGTAGCACCACTGCTAAAGAGC
TTCCAAGGGGAGATTGATGCACTGAGTAAAAGAAGCAAAGAAGCAGAGGCAGCCTTCTTGACTGTGTACA
AGAGACTAATTGATGTTCCAGATCCGGTACCAGCCCTGGACGTCGGGCAACAGCTGGAAATAAAAGTGCA
GCGTCTACACGACATTGAAACAGAGAACCAGAAACTTAGGGAAACACTAGAAGAGTACAACAAGGAGTTT
GCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAAGGAGAAAATCCGAGAATACGAGCAGACCC
TGAAGAGTCAGGCCGAGACCATTGCTCTGGAGAAAGAGCAGAAGCTACAAAATGATTTTGCAGAGAAGGA
GAGAAAGCTGCAAGAGACACAGATGTCCACCACCTCAAAACTGGAGGAAGCTGAGCACAAACTCCAGACT
CTGCAAACAGCCCTGGAAAAAACTCGAACAGAATTATTTGACCTGAAAACCAAATATGATGAAGAAACTA
CTGCAAAGGCCGATGAGATCGAGATGATCATGACCGACCTTGAACGAGCCAACCAGAGGGCAGAGGTGGC
ACAGAGAGAAGCAGAGACTTTAAGGGAACAGCTCTCATCGGCCAACCACTCTCTCCAACTGGCCTCGCAG
ATCCAGAAGGCTCCAGATGTGGCCATAGAGGTGCTGACCCGATCCAGCCTAGAAGTAGAGTTGGCTGCCA
AAGAGCGGGAGATCGCCCAGCTGGTGGAAGATGTGCAGCGACTCCAGGCCAGCCTCACCAAGCTACGTGA
GAATTCCGCCAGCCAGATCTCACAGCTGGAGCAGCAACTGAATGCCAAGAATAGCACACTCAAACAACTG
GAAGAAAAACTCAAAGGCCAGGCTGACTATGAAGAAGTGAAGAAAGAGCTGAACACCCTGAAGTCCATGG
AGTTTGCACCATCGGAGGGAGCAGGGACACAGGACTCTACCAAGCCCCTGGAGGTTTTACTCCTGGAGAA
GAACCGCTCGCTGCAGTCCGAGAATGCCACGCTGCGCATCTCCAACAGTGACCTGAGCGGGTCAGCCAGG
AGAAAAGGGAGAGACCAGCCTGAGAGTCGGCGCCCGGGACCCTTGCCGGCCTCCCCTCCTCCTCAGTTGC
CCCGCAACACGGGGGAACAGGTTTCCAATACTAACGGTACACACCACTTCTCACCAGCGGGGTTAAGTCA
AGACTTTTTCAGCTCAAACCTGGCCAGCCCCAGCCTACCCCTGGCTTCTACAGGAAAGTTTGCACTAAAC
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

TCTCTTCTCCAGCGACAGCTAATGCAGTCCTTCTACTCCAAGGCCATGCAGGAAGCCGGAAGCACAAGCA
CCATTTTTTCAACAGGTCCTTACAGCACAAACTCCATATCTTCCCCAAGTCCATTACAACAAAGCCCAGA
TGTAAATGGCATGGCCCCATCTCCCAGCCAATCAGAAAGTGCTGGGAGCATCTCAGAGGGCGAGGAAATT
GATACCGCAGAGATCGCCCGGCAGGTCAAAGAGCAGCTCATCAAGCACAACATTGGCCAGCGCATCTTCG
GACATTACGTCCTGGGACTGTCGCAAGGCTCTGTGAGCGAGATCCTGGCCCGGCCCAAGCCCTGGAACAA
GCTGACTGTCCGTGGCAAGGAGCCATTCCACAAGATGAAGCAGTTCCTGTCTGATGAGCAGAACATCCTG
GCACTCCGTAGCATCCAAGGCAGACAGAGAGGTAACATCACTACCCGGATCCGAGCATCTGAGACTGGTT
CTGATGAAGCCATCAAGTCCATCCTGGAACAAGCCAAGAGGGAACTACAAGTGCAGAAAACCGCTGAGCC
AGTCCAGACATCTTCCACGTCCAGCAGTGGGAACTCTGACGATGCCATCCGCTCCATCCTACAGCAGGCC
CGCCGGGAAATGGAGGCCCAGCAGGCTGCCCTTGACCCTGCCTTAAAGCCAGCACCACTGTCCCAGCCCG
ACCTCACCATCCTCACCCCCAAGCACCTGTCTGCCTCACCCATGTCTACTGTGTCCACTTACCCGCCTCT
TGCTATCTCCCTGAAGAAAACCCCTGCAGCACCTGAGACCAGTACCGCAGCCTTGCCCAGTGCCCCAGCT
CTCAAAAAAGAGGCTCAGGATGTACCCACACTGGACCCACCAGGATCAGCTGATGCTGCCCAGGGAGTGC
TGAGGCCGATGAAGAGTGAGCTAGTCCGTGGCAGCACCTGGAAGGATCCCTGGTGGAGCCCTATACAGCC
TGAAAGAAGAAACCTCACTTCTTCCGAAGAGACCAAGGCCGATGAAACAACTGCAAGCGGGAAAGAAAGG
GCAGGCAGCAGCCAGCCTCGGGCTGAGCGCAGCCAGCTTCAGGGACCCTCAGCATCCGCAGAGTACTGGA
AAGAGTGGCCAAGCGCTGAGTCCCCATACTCCCAGAGCTCAGAGCTGAGCCTCACTGGAGCCAGCCGCAG
TGAGACACCCCAGAATAGCCCTCTGCCCTCTTCCCCAATTGTGCCCATGGCGAAGCCAGCCAAGCCTTCA
GTGCCCCCGCTGACTCCTGAGCAGTACGAGGTCTACATGTATCAGGAAGTGGACACTATCGAGCTCACTC
GGCAGGTCAAAGAGAAGCTGGCCAAGAACGGCATTTGCCAGAGGATCTTTGGGGAGAAGGTACTGGGCCT
GTCCCAGGGCAGTGTCAGCGACATGCTTTCAAGGCCAAAACCATGGAGCAAACTGACCCAGAAAGGCCGA
GAACCCTTCATCCGGATGCAGCTCTGGCTGAATGGAGAGCTGGGCCAAGGTGTTCTGCCAGTGCAAGGGC
AACAGCAAGGGCCAGTCCTCCACTCCGTGGCGTCTCTGCAGGACCCCCTCCAGCAGGGCTGTGTGAGCTC
AGAAAGCACTCCAAAGACCTCTGCCAGCTGCAGCCCTGCCCCTGAGTCCCCAATGAGTTCCAGCGAATCT
GTGAAGAGTCTCACCGAGCTGGTCCAGCAGCCCTGTCCCGCCATTGAGACCAGTAAAGAAGGCAAACCAC
CAGAGCCCAGCGACCCGCCTGCCTCAGACTCCCAGCCCACAACACCGCTGCCTCTCTCTGGACACTCAGC
CCTCAGCATCCAAGAATTAGTAGCCATGTCTCCTGAGCTGGACACGTATGGCATAACCAAGAGGGTCAAA
GAGGTGCTGACAGACAACAACCTCGGTCAGCGCTTATTTGGGGAGACCATTTTGGGGCTCACCCAGGGTT
CTGTCTCCGACCTCCTTGCCCGCCCAAAGCCTTGGCATAAGCTTAGTCTGAAAGGACGGGAACCCTTTGT
CCGCATGCAGCTATGGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGATATGAAGCGGATGGAGAAG
AAAGCCTACATGAAGAGGCGACACAGCTCTGTCAGTGACAGTCAGCCTTGTGAGCCCCCCTCTGTGGGTA
TTGACTATAGCCAAGGCGCCAGCCCCCAGCCACAACACCAGCTGAAGAAACCTCGAGTGGTGCTGGCTCC
AGAGGAGAAGGAAGCGCTGAAGCGAGCATATCAGCAGAAGCCATACCCATCACCAAAAACCATCGAGGAA
CTTGCCACACAACTCAACCTGAAGACCAGCACCGTCATCAACTGGTTCCATAATTACAGGTCTCGGATCC
GCAGAGAACTGTTCATTGAGGAGATTCAAGCTGGAAGCCAGGGCCAGGCTGGTGCCAGCGACTCACCTTC
AGCTCGAAGTAGCCGCGCTGCACCCAGCTCGGAAGGTGACAGCTGTGACGGCGTGGAAGCCACCGACGCC
GAGGAGCCAGGTGGCAACATAGTGGCCACCAAGTCTCAGGGAGGGCTGGCAGAGGTGGCCGCAGCCCCGG
CAGACCGGGAAGAAGCGACGCAGCCGGCGGAGAAGGCGAAGGCACAGCCACTATGCTCGGGGACCCCAGG
ACAGGACGACGGTGAAGACGCAAGCCGGCCTAGGCCACTTCCCGAGGGCCTCGCCGACGCCCCAGCGCCT
GTGCCAAGCCTCGCCGCACCCGCGGCCGGAGAGGACGCCGCTACCTCAGCCACTGCCCCGGCCACGGCCA
CCGAGGCCCCCGGGGCGGCCAGGGCGGGCCCTGCCGAGAGGAGTTCTGCGTTGCCAAGCACCAGCGCGCC
TGCCAACGCGCCTGCGCGAAGGCCTAGCTCACTGCAGAGCCTCTTCGGTCTGCCCGAGGCCGCGGGCGCC
CGGGACAACCTGGTGCGGAAGAAGAAGGCTGCGAACTTGAACAGCATCATCCACCGCCTGGAGAAGGCTG
CCAGCCGGGAGGAGCCCATCGAATGGGAGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291234

Insert Size: 4515 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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:	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_001291234.1, NP_001278163.1
RefSeq Size:	13146 bp
RefSeq ORF:	4515 bp
Locus ID:	13047
UniProt ID:	P53564
Cytogenetics:	5 75.96 cM
Gene Summary:	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-activing 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] 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US