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Product datasheet for MC228881

Cux1 (NM_001291240) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cux1 (NM_001291240) 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

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Fully Sequenced ORF:

>MC228881 representing NM_001291240
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGCGCGTCAGGTCCGCTCCGAGCTGCCTTCTCCAGCCCGGTTCTCGAAAGCAAAGCCCCGGGGG
CCCCGCTGGACTGTAAGGAGACTGATTGTGGTTCCTCGTCGCCTCGAGGGGATGGTATCGGGGCTTCCCA
ATCCGCGGCGGAGCTGCCTGCGTGCCCAGAGGATGCTATTCTGCCTGCCACCCCTCATCGGAACCAGCTG
CTCGCCCTCGGGGTCCTCCCTGCTAGTGCTAGCTCCGCGTTCGCGGCGCCTGGACAGCCCCAGGATTCTG
CCAGGTGGATGTTGTGCGTAGCCGGAGCCAAGTTGAAGAGAGAACTTGATGCCACCGCAACAGTATTGGC
AAACAGGCAAGATGAGAGCGAACAGTCCAGAAAGCGGCTCATTGAGCAGAGCCGAGAATTCAAGAAGAAC
ACTCCAGAGGATTTACGCAAGCAGGTAGCACCACTGCTAAAGAGCTTCCAAGGGGAGATTGATGCACTGA
GTAAAAGAAGCAAAGAAGCAGAGGCAGCCTTCTTGACTGTGTACAAGAGACTAATTGATGTTCCAGATCC
GGTACCAGCCCTGGACGTCGGGCAACAGCTGGAAATAAAAGTGCAGCGTCTACACGACATTGAAACAGAG
AACCAGAAACTTAGGGAAACACTAGAAGAGTACAACAAGGAGTTTGCTGAAGTGAAAAATCAAGAGGTTA
CGATAAAAGCACTTAAGGAGAAAATCCGAGAATACGAGCAGACCCTGAAGAGTCAGGCCGAGACCATTGC
TCTGGAGAAAGAGCAGAAGCTACAAAATGATTTTGCAGAGAAGGAGAGAAAGCTGCAAGAGACACAGATG
TCCACCACCTCAAAACTGGAGGAAGCTGAGCACAAACTCCAGACTCTGCAAACAGCCCTGGAAAAAACTC
GAACAGAATTATTTGACCTGAAAACCAAATATGATGAAGAAACTACTGCAAAGGCCGATGAGATCGAGAT
GATCATGACCGACCTTGAACGAGCCAACCAGAGGGCAGAGGTGGCACAGAGAGAAGCAGAGACTTTAAGG
GAACAGCTCTCATCGGCCAACCACTCTCTCCAACTGGCCTCGCAGATCCAGAAGGCTCCAGATGTGGAGC
AGGCCATAGAGGTGCTGACCCGATCCAGCCTAGAAGTAGAGTTGGCTGCCAAAGAGCGGGAGATCGCCCA
GCTGGTGGAAGATGTGCAGCGACTCCAGGCCAGCCTCACCAAGCTACGTGAGAATTCCGCCAGCCAGATC
TCACAGCTGGAGCAGCAACTGAATGCCAAGAATAGCACACTCAAACAACTGGAAGAAAAACTCAAAGGCC
AGGCTGACTATGAAGAAGTGAAGAAAGAGCTGAACACCCTGAAGTCCATGGAGTTTGCACCATCGGAGGG
AGCAGGGACACAGGACTCTACCAAGCCCCTGGAGGTTTTACTCCTGGAGAAGAACCGCTCGCTGCAGTCC
GAGAATGCCACGCTGCGCATCTCCAACAGTGACCTGAGCGGGCGCTGTGCGGAGCTGCAGATCCACCTCA
CTGAGGCCACAGCCAAGGCTGTTGAGCAGAAGGAGCTGATCGCTCGCTTGGAGCAGGACCTCAGCACCAT
CCAGTCCATCCAACGGCCTGATGCCGAGGGAGCTTCCGAGCAAGGCCTAGAGAAGATTCCAGAACCCATC
AAGGAAGCTACAGCTCTGTTCTATGGACCCTCAATGTCATCCAGTGGGACCCTTCCAGAAGGCCAGGTGG
ACTCCCTGCTTTCCATCATCTCCAGCCAAAGGGAACGTTTCCGCACCCGGAACCAAGAGCTGGAAGCCGA
GAGCCGCATGGCCCAGCACACCATCCAGGCCCTGCAGAGCGAGCTGGACAGCCTGCGCGCTGACAACATC
AAACTCTTTGAGAAGATCAAGTTCCTGCAGAGTTACCCTGGCAGAGGTATCGGCAGTGACGACACGGAGC
TGCGATACTCCTCCCAATACGAGGAACGCCTGGACCCTTTCTCCTCCTTCAGCAAGAGGGAGCGGCAGAG
GAAGTACCTGGGCCTGAGCCCCTGGGACAAGGCCACACTTGGCATGGGCCGTCTGATTCTCTCCAACAAG
ATGGCCCGCACCATCAGCTTCTTTTACACCTTGTTCCTGCACTGCCTGGTCTTTCTGGTGCTGTACAAGC
TGGCATGGAGTGAGAGTGTGGAGAGAGACTGTGCTGCCACCTGCGCCAAGAAGTTCGCCGATCATCTGCA
CAAATTCCACGAGAGTGACAACGGAGCAGCAGCTGGTGACTTATGGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291240

Insert Size: 2292 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:	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_001291240.1, NP_001278169.1
RefSeq Size:	3369 bp
RefSeq ORF:	2292 bp
Locus ID:	13047
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 (7) contains alternate 3' exon structure and it thus differs in the 3' coding region and 3' UTR, compared to variant 3. The encoded isoform (g) has a distinct C-terminus and is shorter than isoform c.