

Product datasheet for **MR230856**

Cux1 (NM_001291238) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cux1 (NM_001291238) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cux1
Synonyms:	CDP; Cutl1; Cux; Cux-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>MR230856 representing NM_001291238
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCCAATGTGGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC
TTGATGCCACCGCAACAGTATTGGCAAACAGGCAAGATGAGAGCGAACAGTCCAGAAAGCGGCTCATTGA
GCAGAGCCGAGAATCAAGAAGAACAACCTCCAGAGGATTTACGCAAGCAGGTAGCACCACCTGCTAAAGAGC
TTCCAAGGGGAGATTGATGCACTGAGTAAAAGAAGCAAAGAAGCAGAGGCGAGCCTTCTTGACTGTGTACA
AGAGACTAATTGATGTTCCAGATCCGGTACCAGCCCTGGACGTCGGGCAACAGCTGGAAATAAAGTGA
CGCTCTACACGACATTGAAACAGAGAACCAGAACTTAGGGAAACACTAGAAGAGTACAACAAGGAGTTT
GCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAAGGAGAAAAATCCGAGAATACGAGCAGACCC
TGAAGAGTCAGGCCGAGACCATTGCTCTGGAGAAAGAGCAGAAGCTACAAAATGATTTTGAGAGAAAGGA
GAGAAAGCTGCAAGAGACACAGATGTCCACCACCTCAAACTGGAGGAAGCTGAGCACAACCTCCAGACT
CTGCAAACAGCCCTGGAAAAAATCGAACAGAATTATTTGACCTGAAAACCAAATATGATGAAGAACTA
CTGCAAAGGCCGATGAGATCGAGATGATCATGACCGACCTTGAACGAGCCAACCGAGGGCAGAGGTGGC
ACAGAGAGAAGCAGAGACTTTAAGGGAACAGCTCTCATCGGCCAACCACTCTCTCCAACCTGGCCTCGCAG
ATCCAGAAGGCTCCAGATGTGGAGCAGGCCATAGAGGTGCTGACCCGATCCAGCCTAGAAGTAGAGTTGG
CTGCCAAAGAGCGGGAGATCGCCAGCTGGTGGAAAGATGTGCAGCGACTCCAGGCCAGCCTACCAAGCT
ACGTGAGAATCCGCCAGCCAGATCTCACAGCTGGAGCAGCAACTGAATGCCAAGAATAGCACACTCAA
CAACTGGAAGAAAACTCAAAGGCCAGGCTGACTATGAAGAAGTGAAGAAAGAGCTGAACACCCTGAAGT
CCATGGAGTTTGACCATCGGAGGGAGCAGGACACAGGACTCTACCAAGCCCTGGAGGTTTTACTCCT
GGAGAAGAACCCTCGCTGCAGTCCGAGAATGCCACGCTGCGCATCTCCAACAGTGACCTGAGCGGGCGC
TGTGCGGAGCTGCAGATCCACCTCACTGAGGCCACAGCCAAGGCTGTTGAGCAGAAGGAGCTGATCGCTC
GCTTGGAGCAGGACCTCAGCACCATCCAGTCCATCCAACGGCCTGATGCCGAGGGAGCTTCGAGCAAGG
CCTAGAGAAGATTCCAGAACCCATCAAGGAAGCTACAGCTCTGTTCTATGGACCCTCAATGTCATCCAGT
GGGACCCTTCAGAAGGCCAGGTGGACTCCCTGCTTTCCATCATCTCCAGCCAAAGGGAACGTTTCCGCA
CCCGGAACCAAGAGCTGGAAGCCGAGAGCCGATGGCCCAGCACACCATCCAGGCCCTGCAGAGCGAGCT
GGACAGCCTGCGCGCTGACAACATAAACTCTTTGAGAAGATCAAGTTCCTGCAGAGTTACCTGGCAGA
GGTATCGGCAGTGACGACACGGAGCTGCGATACTCTCCAATACGAGGAACGCCTGGACCCTTTCTCCT
CCTTCAGCAAGAGGGAGCGGCAGAGGAAGTACCTGGGCCCTGAGCCCTGGGACAAGGCCACACTGGCAT
GGGCCGCTGATTCTCTCCAACAAGATGGCCCGCACCATCAGCTTCTTTTACACCTTGTTCTGCACTGC
CTGGTCTTTCTGGTGCTGTACAAGCTGGCATGGAGTGAGAGTGTGGAGAGAGACTGTGCTGCCACCTGCG
CCAAGAAGTTCGCCGATCATCTGCACAAATCCACGAGAGTGACAACGGAGCAGCAGCTGGTGACTTATG
GCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230856 representing NM_001291238
 Red=Cloning site Green=Tags(s)

MAANVGSMFYWKRFDLQQLQRELDATATVLANRQDESEQSRKRLIEQSREFKKNTPEDLRKQVAPLLKS
 FQGEIDALSKRSKEAAEAFLLTVYKRLIDVPDPVPALDVGQQLKIKVQRLHDIETENQKLRETL EEYNKEF
 AEVKNQEVTIKALKEKIREYEQTLKSQAETIALEKEQKLQNDFAEKERKLQETQMSTTSKLEEAHKLQT
 LQTALEKTRTELFDLTKKYDEETAKADEIEMIMTDLERANQRAEVAQREAEATLREQLSSANHSLQLASQ
 IQKAPDVEQAIEVLRSSLEVELAAKEREIAQLVEDVQRLQASLTKLRENSASQISQLEQQLNAKNSTLK
 QLEEKLGQADYEEVKELNLTLSMEFAPSEGAGTQDSTKPLEVLLLEKNRSLQSENATLRI SNSDL SGR
 CAELQIHLTEATAKAVEQKELIARLEQDLSTIQSIQRPDAEGASEQGLEKIPEPIKEATALFYGSPMSSS
 GTLPEGQVDSLLSIISSQRERFRTRNQELEAESRMAQHTIQALQSELDL RADNIKLFKIKFLQSYPR
 GIGSDDELRYSSQYEERLDPFSSFSKRERQRKYLGLSPWDKATLGMGRILSNKMARTISFFYTLFLHC
 LVFLVLYKLAWSESV ERDCAATCAKKFADHLHKFHESDNGAAAGDLWQ

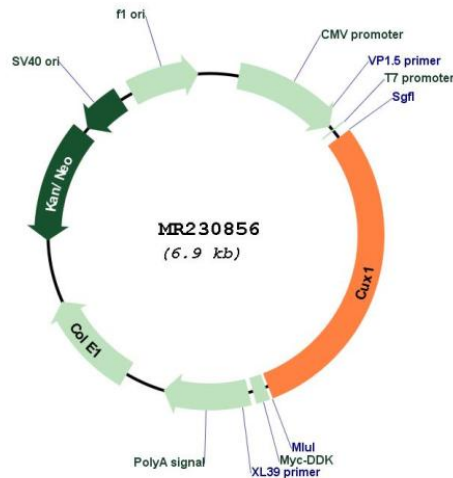
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291238

ORF Size: 2034 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001291238.1](#), [NP_001278167.1](#)

RefSeq Size: 3080 bp

RefSeq ORF: 2037 bp

Locus ID: 13047

Cytogenetics: 5 75.96 cM

MW: 77.9 kDa

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-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]