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Product datasheet for MC229640

Cux1 (NM_001291233) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cux1 (NM_001291233) 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:	>MC229640 representing NM_001291233 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 GAGAATGCCACGCTGCGCATCTCCAACAGTGACCTGAGCGGGTCAGCCAGGAGAAAAGGGAGAGACCAGC

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TGGGAGTTCTGA

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001291233
Insert Size:	4842 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_001291233.1, NP_001278162.1
RefSeq Size:	13507 bp
RefSeq ORF:	4842 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 (3) represents the longest transcript and encodes the longest 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.