

Product datasheet for MC224430

Cux2 (NM_007804) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cux2 (NM_007804) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cux2
Synonyms: 1700051K22Rik; Cutl; Cutl2; Cux-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224430 representing NM_007804
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTAGCTCCGGTGCTGAAGAGCTTCCAGGCTGAGGTGGTGGCTCTCAGTAAAAGAAGTCGGGAGGCAG
 AGGCGCGTTCTGAGTGTATTAAGCAATTGATTGAAGCACCAGACCCTGTCCCATCATTTGAGGTGGC
 GCGGACTTAGACGACAGACTGCAGCGTCCCAGCTTTGACCCAGTGGGAGCGCCTACAAGACGTGCAC
 ATCGCGTGAAGAGGTGCCAGAGCCACCCAGTGCAGAGAGCAGAACGAGGGGACGTGTCCCACGGGGC
 ACACGCCAGCCAACGGTAACCACCTGCCAGGTCCCAGGACACCCCTCGTGACAGACACCTTGTGCAGAA
 GAATGAGGCCGAGAGACAGAAGGTCTCCAAGAAGTCCACATCACCTTGGCAGCCAGGCTGGGGGAGGCA
 GAGGAGAAAATCAAGGTGTTACATTCAGCGCTAAAGGCCACACAGACAGAGCTGTGGAGCTGAGGAGGA
 AATACGATGAGGAGGTGCTTCCAAGGCCGATGAGGTGGCTTGATCATGACGAACCTGGAGAAGGCCAA
 CCAGCGAGCAGAGGTGCCAGCGTGAAGTGGAAAGCCTTCGGGAGCAGCTGGCGTCAGTCAACAGCTCC
 ATTCGCTGGCTTGCTGTTCCCCCAGGGACCCAGTGGGAGAAAGGTGAGCTTTGCTCTGTGTTGAGGGC
 CGCGCTGGAGGCAGCTTGGCTCCAAGGACAGAGAGATCCTGAGGCTGTTGAAGGACGCCAGCCAGCT
 TCGACATTCCTGCAGGAGCTGGAGGAGTCTCAGCCAACCAAATCGCTGACCTGGAGCGGCAGCTAGCT
 GCCAAGTCCGAGGCCATAGAGAACTCCAAGAAAAGCTCGAGGCCAGGCTGACTATGAAGAGATTA
 CAGAGCTGAGCATCCTGAGAGCCATGAAGCTGGCTCCAGCACCTGCAGCCTCCCACAGACGCTGGCCAA
 GCCTGACGACCCGCTGCTGTGGCCAAGGATGTCTTCTCCACACAGAAGTTCCTACTGGAGAAGCCT
 GCGCTGTGGCCAGCCCTGAGGAAGACCCTCGGAGGATGACTCCATCAAGGGCTCACTGGGCACGGAGC
 CCCCTACCTCCTCAGCTTCCACCTCCGCCAGGCCGGAAGACCCGCTGTCCCCAAGCCTGCGCAGCC
 CCTGCTGGGCCAGCCTGGGTCTGATGGCCAAGGACTTCTCGCTGTCCCCCTCCCCAGCCTGGCC
 CCGGGGAGAGGCTGGCTGGGACTCACTGCTATCCAACATATGATGGGCCAGCTGCCTTCAAAGGGG
 AGACGGGAAACCTGCTGGCATTCCCCCGACTTCTACGGTGGTCCCAAGCCTCCATCAGCTCCTGCTGC
 CTCCTGTCCTGCCCGAGCCACAGGGCCCCGAGGCTGTGGATGGGGCTGGGCCAGAGGAGGAGCAG
 CTGGACACGGCTGAGATCGCTTTCAGGTGAAGGAGCAACTTCTCAAGCACAACTTGGCCAGCGCTGT



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TTGGCCACTATGTGCTGGGACTGTCGCAGGGCTCGGTGAGTGAGATCCTGGCCCCGCCAAGCCGTGGCG
 TAAGCTCACGGTAAAAGCAAGGAGCCCTTCATCAAGATGAAGCAGTTCCCTGTGGATGAGCAGAATGTG
 CTGGCCCTGCGCACCATCCAGGTGAGGCAGCGAGGCAGCATACCCCCGAGAATCCGCACACCTGAGACAG
 GCTCGGACGACGCCATCAAGAGCATCCTGGAGCAGGCCAAGAAGGAGATAGAGTCTCAGAAGGGGGTGA
 GTCCAAGAACTCCCAGCCTCCGTGAGCATCCCCAACGGCACAGCCTCCTCCAGCACCTCGGAAGATGCC
 ATCAAGAACATTCTGGAACAAGCCCGCCGAGAAATGCAAGCCCAGCAGCAGGCCCTGCTGGAGATGGAG
 CGGGTCCCAGGGCCGCTCAGTGCCCTCCCTCCTCCGGAGCGGCCCTCGCCAGCCACTGGAGCCAGAA
 TGGGGCCCTGACCTGCGTGAAGCAGGAAGATGGCGGTGGTGGCAGCGGCAGCAGCAGCACTGTGCAGGCG
 CCGCTTGCTGTCTGTCCCCGCTGCATTTGTGCAGCGGATCATCCGCAAGGTGAAGTCGGAGATCGGCG
 ATGCCGGTACTTTGACCACCACTGGGCATCAGACCGTGGTTTGTCTAGCCGTCCCTATGCCTCCGTGTC
 GCCCTCCCTCCTCCTCCTCCAGTACTCCGGACAGCCCAATGGGCGAGCCTGGCCTCGTGGGACGAG
 GCAACCATCGCCCTGAGGACGAAGCAGCTATGGGCGAGGACGAGGCCCCAGGGTGGGAGAGCTCAAGG
 CCGAGGCCGAGCCCGAGGTGGGCGGGGCGACTGCCCTACTATCCAGCATACTGCCCCGCACT
 CAAACCCACTGTCCGCCCTGACACCCGAGCAGTATGAACTGTACATGTACCGGAGGTAGACACGCTG
 GAGTTGACACGCCAGGTCAAGGAGAAGTAGCCAAGAACGGCATCTGCCAGCGCATCTTTGGGAGAAGG
 TCCTGGGACTGTCTCAGGTAGCGTGAGTGACATGCTGTACGGCCAAAGCCATGGAGCAAGCTGACACA
 GAAGGGCCGGGAGCCTTTATCCGGATGCAAGTGTGGCTGTCGGACCAGCTGGGCCAGGGCCAGGGCCAA
 GCCCAACCCAGCAGCCAGCGTAGCCAAGCCAGTCCCACGGAGCCAACCTCCTCCCCATCGCCTCCCC
 CAAGCCCCACGGAGCCTGAAAAGACGTCCCAGGAGCCTCTGGCCTGTGCTGGAAGCAGCAAGGAGAA
 TCAGCAGCCCCAAGGCCGGGCGAGCTCCTCCCTGGGTGGGAAGCCCTTCAAGCAGCCAGGCTGCGGGG
 GGCATCCAGGAGATGGTGGCCATGTCCCCAGAGCTGGACACATACTCCATCACCAGAGAGTCAAGGAGG
 TCCTCACCGACAACAACCTAGGGCAGCGGCTGTTTGGTGAGAGCATCTTGGGTTGACCCAGGGCTCCGT
 GTCAGATCTGCTGTCGAGGCCAAGCCCTGGCACAACCTGAGCTTGAAGGGCCGGGAGCCCTTTGTGCGT
 ATGCAGCTGTGGCTGAGTGACCCCCACAACGTGGAGAAGCTTCGGGACATGAAGAAGCTGGAGAAGAAAG
 CCTATCTGAAGCGCCGCTATGGGCTCATCGCACCGGCTCGGACAGCGAGTACCAGGCTGCGCACTCCGA
 GTGCCCCAGCCGTGTTTGCAGCCCCAGGAGTTGAGTCTCATGCAGGCCAAGAAGCCAGGGTGGTGTG
 GCGCCCCGCGAGAAGGAGGCTCTGCGGAAGGCCTACCAGCTCGAGCCGTACCCCTCGCAGCAGACCATAG
 AGCTGCTCCTTCCAACCTCAACCTCAAGCAGAACACCGTCACTCAACTGGTTCCACAACCTACAGGTCCAG
 GATGCGCCGTGAAATGCTGGTGGAGGGGACACAGGATGATCCTGACTTTGACCCGAGTGGGGTCCCAAT
 GTCCTGACGCCAGGCCACACCCACAGAGAGCCACCCACAGAGCCCGACTCAGAGACTGAGGACCAA
 AGCCCCCATGAAGAGCTTAGAGCTGCAAGAGCCTGAGGGTCCCCTACAGCGAGCTGCCCCAGACAGGGC
 TCTGGTGAAGATCAAACAGGAAGAGGGTTTGGAGGTGGATGGAGACAGCCAGCCCCAGGATGTGGGGAT
 CCAGACCGAGGGCAAGATGGCCCCAAAGAGGAGCATACCCACCCTCTGGGAAACAGTGACCTCTCAGAGC
 TGGCCCCAGGGCCCTTTCTTTCAGGCACACCCAATCCAGACTGTCCTTCAATTGCACAACCCCAAGAAA
 GGGGACTGGGGAACAGGTTCACTCAGAGCCTCTGAGTTTCAAGTCCACCTCCGAATCCTCCTGCTGCAGC
 CTGGAGGGGCCACCGAATCTCCCTCTGTATCTCCTCGCCAGACCTCACGACATGTGTGTACCTGCC
 CTTCTCCTCAGCCCCATCTCCCCATCCTTACCTGGTCCCCACCTGCCAAAGTCCGAGTACCAGCCC
 CACTGGTGACACAGCCGAGCCTTGCACCCAGCACTAAGGTGAACCCCAACTTGCAGCGCGGCATGAG
 AAAATGGCCAACCTGAACAGTATAATCTACCGGCTGGAGAGGGCTGCCAACCGGGAAGAGTCTGGAGT
 GGAATTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007804
Insert Size: 4281 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).
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:	NM_007804.2 , NP_031830.2
RefSeq Size:	5133 bp
RefSeq ORF:	4281 bp
Locus ID:	13048
UniProt ID:	P70298
Cytogenetics:	5 62.02 cM
Gene Summary:	<p>This gene is a member of the Cut family of transcription factors that have multiple DNA binding domains and regulate cell proliferation and differentiation. This gene is primarily expressed in nervous tissues where it controls the proliferation of neuronal precursors, and may play a role in organogenesis earlier during embryonic development. Mice lacking the encoded protein exhibit smaller spinal cords with deficits in neural progenitor development as well as in neuroblast and interneuron differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>