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Product datasheet for MC208370

Dcx (NM_001110222) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcx (NM_001110222) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dcx
Synonyms:	Dbct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC208370 representing NM_001110222
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACTTGATTTTGGACATTTTGACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTCACGGATGA
ATGGACTTCCAAGTCCCACTCATAGTGCCCACTGTAGCTTCTACAGAACCAGAACCTTGCAGGCATTAAG
TAATGAGAAGAAGGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTTACTTCAAGGGGATTGTGTAC
GCTGTTTCTTCTGACCGTTTTCGTAGTTTTGATGCGTTGCTGGCTGACCTGACCCGATCCTTGTCTGACA
ACATTAACCTGCCTCAGGGAGTGCGCTACATTTATACCATTGACGGATCCAGGAAGATTGGAAGCATGGA
TGAACTGGAAGAAGGGGAAAGCTATGTCTGCTCCTCAGACAACTTCTTTAAAAAGGTTGAGTACACCAAG
AATGTCAACCCCAACTGGTCTGTCAACGTAAAGACATCTGCCAACATGAAAGCCCCCCAGTCCTTGGCTA
GCAGCAACAGTGCTCAAGCCAGAGAGAACAAGGACTTTGTGCGCCCCAAACTTGTGACCATCATTCGCAG
CGGGGTGAAGCCACGGAAGGCTGTGCGCGTGCTTCTCAACAAGAAAACAGCCCACTCTTTCGAGCAGGTC
CTGACTGACATCACAGAAGCGATCAAACTGGAAACCGGAGTTGTCAAAAAACTCTACACCCTTGATGGAA
AGCAGGTCACCTGTCTCCATGATTTCTTTGGTGATGATGATGTGTTCATTGCTTGTGGTCCTGAAAAATT
CCGCTATGCTCAAGATGATTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC
GCAGCTGGCCCAAAGGCTTCCCCAACACCTCAAAAGACATCTGCTAAAAGCCCAGGCCCAATGCGCCGCA
GCAAGTCTCCAGCTGACTCAGGTAACGACCAAGACGCAAATGGAACTTCCAGCAGTCAGCTCTCAACACC
TAAGTCAAAGCAGTCTCCTATCTCTACACCCACAAGCCCTGGAAGTCTGCGGAAGCACAAGGTAGACCTG
TACCTGCCGCTGTCATTGGATGACTCTGATTCACTTGGCGATTCCATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

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ACCN:	NM_001110222
Insert Size:	1101 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:	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_001110222.1, NP_001103692.1
RefSeq Size:	9078 bp
RefSeq ORF:	1101 bp
Locus ID:	13193
UniProt ID:	O88809
Cytogenetics:	X F2
Gene Summary:	This gene encodes a member of the doublecortin family. The protein encoded by this gene is a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase. Studies in knockout mice lacking this gene and the LIS1 gene suggest that the molecular interaction of these two genes is important in both in neuronal migration and neurogenesis, and there is a cortical role of this gene in nuclear translocation and positioning of the mitotic spindle in radial glial mitotic division. Multiple transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Sep 2010] Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 encode the same isoform (a).

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