

Product datasheet for MR205614

Dcx (NM_001110224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcx (NM_001110224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dcx
Synonyms:	Dbct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205614 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAACCTGATTTTGGACATTTTGACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTCACGGATGA
ATGGACTCCAAGTCCCCTCATAGTGGCCACTGTAGCTTCTACAGAACCAGAACCTTGCAGGCATTAAG
TAATGAGAAGAAGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTTACTTCAAGGGGATTGTGTAC
GCTGTTTCTTCTGACCGTTTTCTGAGTTTTGATGCGTTGCTGGCTGACCTGACCCGATCCTTGTCTGACA
ACATTAACCTGCCTCAGGGAGTGCCTACATTTATACCATTGACGGATCCAGGAAGATTGGAAGCATGGA
TGAAGTGAAGAAGGGGAAAGCTATGTCTGCTCCTCAGACAACTCTTTAAAAAGTTGAGTACACCAAG
AATGTCAACCCCAACTGGTCTGTCAACGTAAGACATCTGCCAACATGAAAGCCCCCAGTCCCTTGCTA
GCAGCAACAGTGTCAAGCCAGAGAGAACAAGGACTTTGTGCGCCCCAACTTGTGACCATCATTGCGAG
CGGGGTGAAGCCACGGAAGGCTGTGCGCGTCTTCTCAACAAGAAAACAGCCCACTTTTCGAGCAGGTC
CTGACTGACATCACAGAAGCGATCAAACCTGAAACCGGAGTTGTCAAAAACTCTACACCCTTGATGGAA
AGCAGGTCACCTGTCTCCATGATTTCTTGGTGATGATGATGTGTTTCATTGCTTGGTCTGAAAAATT
CCGCTATGCTCAAGATGATTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC
GCAGCTGGCCAAAGGCTTCCCCAACCTCAAAGACATCTGCTAAAAGCCCAGGCCAATGCGCCGCA
GCAAGTCTCCAGCTGACTCAGGTAACGACCAAGACGCAAATGAACTTCCAGCAGTCAGCTCAACACC
TAAGTCAAAGCAGTCTCCTATCTCTACCCACAAGCCCTGGAAGTCTGCGGAAGCACAGGACCTGTAC
CTGCCGCTGTCATTGGATGACTCTGATTCACTTGGCGATTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_001110224.1](#), [NP_001103694.1](#)

RefSeq Size: 8997 bp

RefSeq ORF: 1098 bp

Locus ID: 13193

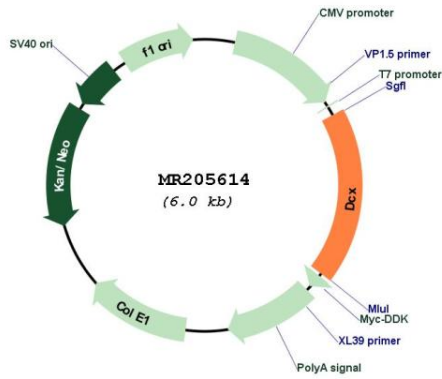
UniProt ID: [O88809](#)

Cytogenetics: X F2

MW: 40.5 kDa

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]

Product images:



Circular map for MR205614