

Product datasheet for MR227650

Dcx (NM_010025) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcx (NM_010025) 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:	>MR227650 representing NM_010025 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTGATTTTGGACATTTTGACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTCACGGATGA
ATGGACTCCAAGTCCCCTCATAGTGCCACTGTAGCTTCTACAGAACCAGAACCTTGCAGGCATTAAG
TAATGAGAAGAAGGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTTACTTCAAGGGGATTGTGTAC
GCTGTTTCTTCTGACCGTTTTCTGAGTTTTGATGCGTTGCTGGCTGACCTGACCCGATCCTTGTCTGACA
ACATTAACCTGCCTCAGGGAGTGCCTACATTTATACCATTGACGGATCCAGGAAGATTGGAAGCATGGA
TGAAGTGAAGAAGGGGAAAGCTATGTCTGCTCCTCAGACAACTCTTTAAAAAGTTGAGTACACCAAG
AATGTCAACCCCAACTGGTCTGTCAACGTAAGACATCTGCCAACATGAAAGCCCCCAGTCCCTGGCTA
GCAGCAACAGTGCCTAAGCCAGAGAGAACAAGGACTTTGTGCGCCCCAACTTGTGACCATCATTGCGAG
CGGGGTGAAGCCACGGAAGGCTGTGCGCGTCTTCTCAACAAGAAAACAGCCCACTTTTCGAGCAGGTC
CTGACTGACATCACAGAAGCGATCAAACCTGAAACCGGAGTTGTCAAAAACTCTACACCCTTGATGGAA
AGCAGGTCACCTGTCTCCATGATTTCTTGGTGATGATGATGTGTTTCATTGCTTGGTCTGAAAAATT
CCGCTATGCTCAAGATGATTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC
GCAGTGGCCAAAGGCTTCCCAACACTCAAAGACATCTGCTAAAAGCCAGGCCAATGCGCCGCA
GCAAGTCTCCAGCTGACTCAGCAAATGGAACCTCCAGCAGTCAGCTCTCAACACCTAAGTCAAAGCAGTC
TCCTATCTACACCCACAAGCCCTGGAAGTCTGCGGAAGCACAAAGACCTGTACCTGCCGCTGTATTG
GATGACTCTGATTCACTTGGCGATTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227650 representing NM_010025
Red=Cloning site Green=Tags(s)

MELDFGHFDERDKASRNMRGSRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKVRFYRNGDRYFKGIVY
 AVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYIDGSRKIGSMDELEEGESYVCSSDNFFKKVEYTK
 NVNPNWSVNVKTSANMKAPQSLASSNSAQARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQV
 LTDITEAIKLETGVVKKLYTLDGKQVTLHDFGDDDDVF IACGPEKFRYAQDDFSLDENECRVMKGNPSA
 AAGPKASPTPQKTSKSPGPMRRSKSPADANGTSSSQLSTPKSKQSPISPTPTSPGSLRKHKDLYLPLSL
 DSDSLGDSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010025

ORF Size: 1080 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_010025.2](#), [NP_034155.2](#)

RefSeq Size: 8982 bp

RefSeq ORF: 1083 bp

Locus ID: 13193

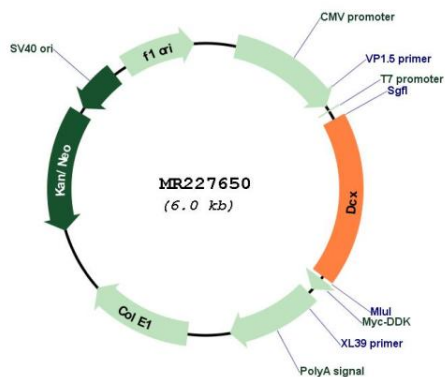
UniProt ID: [O88809](#)

Cytogenetics: X F2

MW: 40.4 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 MR227650