

## Product datasheet for MC208371

### Dcx (NM\_001110223) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Dcx (NM\_001110223) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Dcx  
 Synonyms: Dbct  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC208371 representing NM\_001110223  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGAACCTGATTTGGACATTTGACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTCACGGATGA  
 ATGGACTTCCAAGTCCCCTCATAGTCCCCTGTAGCTTCTACAGAACCAGAACCTGCAGGCATTAAG  
 TAATGAGAAGAAGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTACTTCAAGGGGATTGTGAC  
 GCTGTTTCTTCTGACCGTTTTCTGATGTTTCTGATGCGTTGCTGGCTGACCTGACCCGATCCTGTCTGACA  
 ACATTAACCTGCCTCAGGGAGTGCCTACATTTATACCATTGACGGATCCAGGAAGATTGGAAGCATGGA  
 TGAAGTGAAGAAGGGGAAAGCTATGTCTGCTCCTCAGACAACCTCTTTAAAAAGGTTGAGTACACCAAG  
 AATGTCAACCCCAACTGGTCTGTCAACGTAAAGACATCTGCCAATGAAAGCCCCCAGTCCTTGGCTA  
 GCAGCAACAGTGTCAAGCCAGAGAGAACAAGGACTTTGTGCGCCCAAACTTGTGACCATCATTGCGAG  
 CGGGGTGAAGCCACGGAAGGCTGTGCGCGTCTTCTCAACAAGAAAACAGCCCACTTTTCGAGCAGGTC  
 CTGACTGACATCACAGAAGCGATCAAACCTGAAACCGGAGTTGTCAAAAACTTACACCCCTTGATGGAA  
 AGCAGGTACCTGTCTCCATGATTTCTTTGGTGATGATGATGTTTCTGCTTGTGGTCTGAAAAAT  
 CCGCTATGCTCAAGATGATTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC  
 GCAGCTGGCCCAAAGGCTTCCCCAACACCTCAAAAAGACATCTGCTAAAAGCCCAGGCCCAATGCGCCGCA  
 GCAAGTCTCCAGCTGACTCAGGTAACGACCAAGACGCAAATGGAACCTCCAGCAGTCAGCTCTAACACC  
 TAAGTCAAAGCAGTCTCTATCTCTACACCCACAAGCCCTGGAAGTCTGCGGAAGCACAAGGTAGACCTG  
 TACCTGCCGTGCTATTGGATGACTCTGATTCACTTGGCGATTCCATG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001110223



<b>Insert Size:</b>	1101 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001110223.1</a></u> , <u><a href="#">NP_001103693.1</a></u>
<b>RefSeq Size:</b>	9000 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	13193
<b>UniProt ID:</b>	<u><a href="#">O88809</a></u>
<b>Cytogenetics:</b>	X F2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (a).</p>