

## Product datasheet for RR211526

### Dcx (NM\_053379) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dcx (NM_053379) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dcx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211526 representing NM_053379 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGTGGATTTTGGACATTTTACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTACGGATGA  
ATGGACTTCCAAGTCCCCTCATAGTGCTCACTGTAGCTTCTACAGAACCAGAACCTTCAGGCATTAAG  
TAATGAGAAGAAGGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTTACTTCAAGGGGATTGTGTAC  
GCTGTTTCTTCTGACCGTTTTCTGAGTTTTGATGATTGCTGGCTGACCTGACTCGATCCTTGCCGACA  
ACATCAACCTGCCTCAGGGAGTGCCTACATTTACACTATTGATGGATCCAGAAAGATTGGAAGCATGGA  
TGAAGTGAAGAAGGGGAAAGCTATGTCTGTTCTCAGACAACCTCTTTAAAAAGTTGAGTATACCAAG  
AATGTCAATCCCAACTGGTCGGTCAATGTAAGACATCAGCCAACATGAAAGCGCCCCAGTCCTTGCTA  
GCAGCAACAGTGTCAAGCCAGAGAGAACAAGGACTTCGTGCGCCCCAACTTGTGACCATCATTGCGAG  
TGGGGTGAAGCCTCGGAAGGCGGTGCGTGTCTTCTCAACAAGAAAACAGCCCACTTTTCGAGCAGGTC  
CTCACTGACATCACAGAAGCGATCAAACCTGAAACCGGAGTTGTCAAAAACTCTATACCCTTGATGGAA  
AGCAGGTACCTGTCTCCATGATTTCTTTGGTGATGATGATGTGTTTCATTGCTTGTGGCCCTGAAAAGTT  
CCGCTATGCTCAAGATGACTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC  
ACAGCTGGCCCCAAAAGCTTCCCCAACACCTCAAAGACATCTGCTAAAAGCCCAGGCCCAATGCGCCGCA  
GCAAGTCTCCAGCTGACTCAGGTAACGACCAAGACGCAAAATGGAAGTCTAGCAGTCAGCTCTCAACACC  
TAAGTCGAAGCAGTCTCTATCTCTACACCCACAAGCCCTGGAAGTCTGCGGAAGCACAAGGACTTGTAC  
CTGCCACTGTCTTGGATGACTCTGATTCATTGGCGATTCCATG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR211526 representing NM\_053379  
Red=Cloning site Green=Tags(s)

MELDFGHFDERDKASRNMRGSRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKVRFYRNGDRYFKGIIVY  
 AVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYIDGSRKIGSMDELEEGESYVCSNDNFFKKVEYTK  
 NVNPNWSVNVKTSANMKAPQSLASSNSAQARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQV  
 LTDITEAIKLETGVVKKLYTLDGKQVTLHDFFGDDDDVF IACGPEKFRYAQDDFSLDENECRVMKGNPSA  
 TAGPKASPTPQKTSAKSPGPMRRSKSPADSGNDQDANGTSSSQLSTPKSKQSPISPTPTSPGSLRKHKDL  
 LPLSLDSDSLGDSM

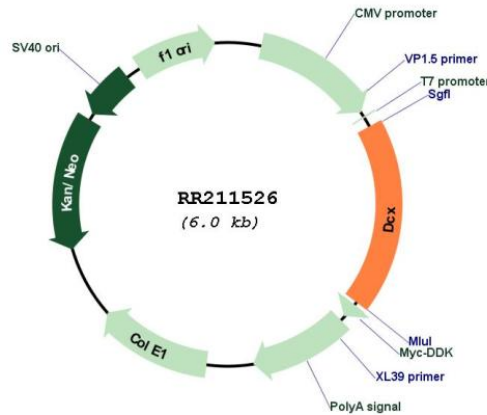
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053379

<b>ORF Size:</b>	1095 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_053379.3</a> , <a href="#">NP_445831.3</a>
<b>RefSeq Size:</b>	8827 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	84394
<b>Cytogenetics:</b>	Xq33-q34
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	This gene encodes a member of the doublecortin family. The protein encoded by this gene contains two doublecortin domains, which bind microtubules and regulate microtubule polymerization. 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. Studies in knockout mice lacking this gene suggest that this gene has a cortical role in nuclear translocation and positioning of the mitotic spindle in radial glial mitotic division. This gene is essential for neuronal migration, differentiation, and plasticity, is required for hippocampal development and also plays a role in dendrites development.[provided by RefSeq, Sep 2010]