

Product datasheet for **RN211526**

Dcx (NM_053379) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcx (NM_053379) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dcx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211526 representing NM_053379 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTTGATTTGGACATTTGACGAACGAGACAAAGCATCTAGAAATATGAGAGGGTCACGGATGA
ATGGACTTCCAAGTCCCCTCATAGTGCTCACTGTAGCTTCTACAGAACCAGAACCTTCAGGCATTAAG
TAATGAGAAGAAGGCCAAGAAGGTACGTTTCTACCGCAATGGGGACCGTTACTTCAAGGGGATTGTGTAC
GCTGTTTCTTCTGACCGTTTTCTGAGTTTTGATGCATTGCTGGCTGACCTGACTCGATCCTTGCCGACA
ACATCAACCTGCCTCAGGGAGTGCCTACATTTACTATTGATGGATCCAGAAAGATTGGAAGCATGGA
TGAAGTGAAGAAGGGGAAAGCTATGTCTGTTCTCAGACAACCTCTTTAAAAAGTTGAGTATACCAAG
AATGTCAATCCCAACTGGTCGGTCAATGTAAGACATCAGCCAACATGAAAGCGCCCCAGTCCTTGCTA
GCAGCAACAGTGTCAAGCCAGAGAGAACAAGGACTTCGTGCGCCCCAACTTGTGACCATCATTGCGAG
TGGGGTGAAGCCTCGGAAGCGGTGCGTGTGCTTCTCAACAAGAAAACAGCCCACTTTTCGAGCAGGTC
CTCACTGACATCACAGAAGCGATCAAACCTGAAACCGGAGTTGTCAAAAACTCTATACCCTTGATGGAA
AGCAGGTCACCTGTCTCCATGATTTCTTTGGTGATGATGATGTGTTTCATTGCTTGTGGCCCTGAAAAGTT
CCGCTATGCTCAAGATGACTTCTCCTTGGATGAGAATGAATGCAGAGTCATGAAAGGGAATCCATCTGCC
ACAGCTGGCCCCAAAGCTTCCCCAACACCTCAAAGACATCTGCTAAAAGCCCAGGCCCAATGCGCCGCA
GCAAGTCTCCAGCTGACTCAGGTAACGACCAAGACGCAAAATGGAAGTTCTAGCAGTCAGCTCTCAACACC
TAAGTCGAAGCAGTCTCTATCTCTACACCCACAAGCCCTGGAAGTCTGCGGAAGCACAAGGACTTGTAC
CTGCCACTGTCATTGGATGACTCTGATTCACCTGGCGATTCCATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_053379
Insert Size:	1098 bp



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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:	<ol style="list-style-type: none">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:	<u>NM_053379.3</u> , <u>NP_445831.3</u>
RefSeq Size:	8827 bp
RefSeq ORF:	1098 bp
Locus ID:	84394
Cytogenetics:	Xq33-q34
Gene Summary:	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]