

Product datasheet for **RR211526L4V**

Dcx (NM_053379) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Dcx (NM_053379) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Dcx
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_053379
ORF Size:	1095 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR211526).
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.
RefSeq:	NM_053379.3 , NP_445831.3
RefSeq Size:	8827 bp
RefSeq ORF:	1098 bp
Locus ID:	84394
Cytogenetics:	Xq33-q34



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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]