

Product datasheet for RN200772

Dclk1 (NM_053343) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk1 (NM_053343) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dclk1
Synonyms:	Ania4; Cpg16; Dcamkl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

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	>RN200772 representing NM_053343 Red=Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTTAGAACTCATAGAAGTTAATGGAACCCCTGGCAGTCAGCTCCCACTCCGCGCTCCGGCAAGTCAC CAAGTCCATCGCCCACCAGCCCAGGAAGCCTGCGGGAAGCAGAGGATCTCTCAGCATGGCGGCTCCTCCAC TTCACTTTCATCCACAAAAGTCTGCAGCTCAATGGATGGA
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_053343
Insert Size:	1302 bp
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.

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	Dclk1 (NM_053343) Rat Untagged Clone – RN200772
RefSeq Size:	6903 bp
RefSeq ORF:	1302 bp
Locus ID:	83825
UniProt ID:	<u>008875</u>
Cytogenetics:	2q26
Gene Summary:	This gene encodes a member of the protein kinase superfamily and the doublecortin family. The typical protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal

The typical protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca2+/calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the protein is independent of its protein kinase activity. This gene is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been found, but the full-length nature of the variant produced from the 5' promoter has not been determined. Current reference sequence data represents two alternatively spliced transcript variants produced from the 3' promoter and their protein products lack the doublecortin domain.[provided by RefSeq, Sep 2010]

cpg16 (candidate plasticity gene 16)] is produced from the 3' promoter. It encodes isoform 1, which contains a serine/proline-rich domain and a protein kinase domain. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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