

Product datasheet for **RN209497**

Dclk2 (NM_001009691) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk2 (NM_001009691) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dclk2
Synonyms:	CL2; CLICK-II; CLICK2; Dck2; RGD1308384
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209497 representing NM_001009691
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGCACCAGGAGCATTGAGCTGGAACATTTTGAAGAACGGGACAAAAGGCCGCGCCAGGGTCGC
GGAGAGGAGTCCCAGCTCCTCCGGGGCAGCAGCATCTCTGGCCCAAGGGCAACGGGCTCATCCCAG
CCCGGCGCACAGTGCTCACTGCAGCTTCTACCGCACGCGGACCTTGCAGGCCCTCAGCTCGGAGAAGAAG
GCCAAGAAGGCGCGTCTACCGGAATGGGGACCCTACTTCAAAGGCCTGGTCTTTGCGATCTCCAGCG
ACCGTTTCCGTTCTTCGATGCGCTCCTCATAGAGCTCACCCGCTCGCTGTGACAATGTGAACCTGCC
CCAGGGCGTCCGCACAATCTACACCGTAGACGGCAGCCGGAAGGTACCAGCCTGGACGAGCTGTGGAA
GGTGAAAGTTACGTGTGTGCCTCCAACGAACCATTCCGTAAAGTTGACTACACAAAAACGTTAACCCGA
ACTGGTCTGTGAACATCAAGGGTGTACTACCCGCACCTTGGCCGTGGCCTCGGCCAAGAGTGAGGTGAA
AGAAAGCAAGGACTTCATCAAACCAAGCTCGTACTGTGATTGAAAGTGGGGTGAAGCCTAGAAAGGCC
GTGCGCATCCTTCTGAATAAAAAGACTGCCATTCTTTGAGCAGGTCTAACGGATATACCGAAGCCA
TTAAACTAGACTCCGGCGTGGTGAAGAGGCTGTGCACCCTGGATGGAAAGCAGGTTACTTGTCTGCAAGA
CTTTTTGGAGACGATGATGTTTTATTGCATGTGGACCTGAAAAATATCGTTATGCCAAAGATGACTTT
GTCCTGGATCATAGTGAGTGCCGTGTCTGAAGTCATCTTATTCTCGGGCCTCAGCTGCTAAGTATTCTG
GATCCAGAAGCCCAGGGCTCTCCCGCCGAGCAAGTACCAGCTTCAGTAAAGAGGGTGGCCACTCCAG
TGCCATTCTACAGCCAAATCCCAGTGAATGGAACCTCCAGCAGCCAGCTTCCACTCCTAAGTCCACC
AAGTCTCCAGCTCCTCTCCAACCAGCCGGAAGTTTCAGAGGACTGAAGCAGATTTCTGCTCAGGGAA
GATCTTCTCCAATGTAACCGTGGGCCGGAACCTTGACCCTGTCATGAGTCTGAAGCGTGAATGGAAA
CAGGTGCTCCGAGTCATTCACTCTCTGGAGAAAATACAGAATCGGGAAGGTCATCGGAGACGGCACTTT
GCCGTAGTTAAAGAATGTATGGACAGGTCCTGAAAGGAGTTTGCATTAAGATTATTGACAAAGCCA
AATGCTGTGAAAGGAACATCTGATTGAGAACGAAGTGTCAATCTGCGCCGGTGAAGCACCCCAACAT
CATCATGCTGGTTGAGGAGATGGAACAACAAGTACTGAGCTCTTCTAGTGTGAACTGGTCAAAGGTGGA
GATCTCTCGACGCGATCACTTCTCAACCAAGTACCCGAGAGAGATGGCAGTGCATGGTGTACAACC
TAGCCAGCGCCCTCAGATACCTGCACGGCCTCAGCATCGTGCACAGAGATATCAAACCTGAGAATCTGCT
GGTGTGCGAATACCCAGACGGAACCAAGTCTGTAAGCTGGGAGACTTTGGGCTGGCGACGGTGGTTGAA
GGCCCGTTGTACACAGTCTGTGGCACCCCAACTTACGTGGCACCCGAGATCATTGCTGAAACAGGTTACG
GCCTGAAGGTGGATGTTTGGGCAGCTGGTGTGATTACGTACATCTTCTCTGTGGATTCCCACCGTCCG
GAGTGAGAACAACCTCCAGGAGGATCTCTTTGACCAGATCTTGGCCGGAAGCTGGAGTTTCCAGCTCCC
TACTGGGACAACATTACAGACTCTGCCAAGGAGTTAATCAGTCAAATGCTTCAGGTAAACGTTGAAGCTC
GCTGTACTGCGGGAGAAATCTGAGTCAACCCTGGGTGTGAGATGATGCATCCCAGGAGAATAATATGCA
AGCCGAGGTTACAGGTAACATAAACAGCACTTAATAATGCGCTCCCAACAGAACAGCACCACCACT
GGGGTCTCCGTTATCATGAACACGGCTTAGATAAAGAGGGGCAGGTTTCTGCAGCAAGCACTGTCCGG
ACAGCAGCAAATCATCCAGGGAGCAGACCTCAGCCCGGGAGGCCCGCCCGCCCGCCCGGAGTCTCCAGGCC
CCCTGGTCTCCAGCCACCTCTGGCTGTGATCCTGCCGGGACCTGGCGTCGCCATCGAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001009691
Insert Size: 2304 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:	<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:	NM_001009691.3 , NP_001009691.3
RefSeq Size:	3969 bp
RefSeq ORF:	2304 bp
Locus ID:	310698
UniProt ID:	Q5MPA9
Cytogenetics:	2q34
Gene Summary:	<p>This gene encodes a member of the protein kinase superfamily and the doublecortin family. The 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⁺/calmoduline-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 encoded protein is independent of its protein kinase activity. Mouse studies show that this gene and the DCX gene, another family member, share function in the establishment of hippocampal organization and that their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]</p> <p>Transcript Variant: This variant (2) is an exon-5-containing transcript (PMIDs:15611072 and 18075264). It encodes the longer isoform (b). 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.</p>