

Product datasheet for **RN217222**

Dclk3 (NM_001191800) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk3 (NM_001191800) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dclk3
Synonyms:	Dcamkl3; RGD1309232
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217222 representing NM_001191800
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCCGCGCCGGTCTGCGCCCTCCGCCACCAGCGACCCCTGCCCGCCGGCACCCAGCCGCC
 CTGCGCCTGCTATCTCGGGCCATCGGGTCCGTGTGACCATCTCTAAAATGCTTAAGCTCGAAGATCTC
 TGAGAGAAAGTTGCCAGGCTCCTGGCTGCCTTCGGGACGAGGACCTCTGGAGAAGCCAGTCTGGGGCCA
 CGTGGTCCGTCATGCCGATGTTAGCCCTCAGAGTAGCCTCCACTCAGTCCGCGCAGAGCACAGCCAC
 TGAAGCCAGGGTGGTTACGGTGGTGAAGCTGGGCGTGCAGCCCTCCGCAAGGCCACCCTGCTCTCAA
 CAGGCGGTGAGTGCAGACCTTTGAGCAGCTCCTGTCGGACATCTGAAGCCTTGGGCTTCCCGCATGG
 AAGAATGACCGTGTGCGGAAGCTGTTACCCTCAAGGGCAGGGAGGTCAAGAGTGTGTGACTTCTTCC
 GGGAGGGCGATGCTTTCATAGCCATGGCAAAGAGCCACTGACATTGAAGAGTATCCAGTGGCTATGGA
 GGAAGTGTATCCTAAGAACCAGCCCTTGGCCCTGGCCCTCATAGTAGAGTCCCCTCCCAAGGCTAAGA
 AGCAGGCTTCCAGCAAGCTTCTGAAAGGAAGTACCCGCTGTGGGGAGGCAGGAAGCTATGGTGAGGTAA
 TGGGGAACAAGGCAGTCATTAGGCACCAGGGCAAGACTTCCACAGAGCTGGCCCCAGAAGACAAGGCAAG
 GGCCAGAAAGTGGGTAGGAGGGAAACAGGAATCAGAAAATGGTGGCCTGCCGTACCTAGAGAAGCC
 ACTCAGGAGGAGACGCATGCAAGTGGGAGAAAGCACCTCGGGGTGGAGATTGAAAAGACCTCGGGGAGA
 TTGTCAAGTGTGAGAAGTGAAGAGAGAAAACAGAGCTGCAGTTGGGCCTACAGAGGGGCGAGTGCCTCC
 GGAACAGTGAAGTGGACCTGGGAGGGGCCAGAAGAGGGATTCCGAGAAGTTGGTCAAGACCAAGAGC
 TGCAGGAGGGCTTCTGAGCAAAGTCTACAGATGGAGAGGAAGGGTGAAGGGTGACAGCCACCGGGGCA
 GCCCCAGGGATCCCCCTCAGAACTGAGGAGGCCCAACAACAACCTCAGACAAGAAAAGAGCAGAGGCTC
 AGAAGCTCAGGAAAGTACCCCTCAGGGCGTGGCCAAGGCCAGAAAGGACCTCATGGAAGGTCTGCCAGCT
 GTAGAGGAGGGGCGGTGGACGCGAGGAGAGATTCCAGGCACACATGCAGGATTAAGCATGCTGCCTGGC
 TCCGGAGAGAGCAGCAGGCTGAACCCCCACAGCTCCCCAGAACCCGAGGGGAGGAGAAGGAAGCAGAGCA
 TGAGAAGAAGTCAAGTGGTCTGGGAGGGAGGAGTGTAGAAAAGGAGTCTAAGACGAAGCCGGAAGAG
 AACCGGCCGGAACGACCCAGTGGCCGGAAGCTGAGGCCACCGGCATCATCTCAGCGGATGTGGAGAAGC
 ACTATGACATAGTTCGGTCAATGGGGATGGGAATTTTGCATCGTAAGGAATGCAAGCACCGAGAGAC
 CAGGCAGGCTTACCCATGAAGATTATTGACAAATCCCAGCTGAAGGGTAAGGAGGACATTGTGGACAGT
 GAGATTTAATTATCCAGAGTCTCTCTACCCCAACATAGTGAACTGCATGAGGTCTACGAAACAGAGG
 CAGAGATCTACCTGATCATGGAGTACGTGCAGGGAGGGGACCTTTTCGATGCCATCATCGAAAGTGTGAA
 GTTTCCAGAGCCTGACGCTGCAGTTATGATCACAGACTTGTGTAAGGCCCTCGTCCACATGCATGACAAG
 AAGATCGTCCACCGGGACCTGAAGCCGGAACCTCCTGGTTCAGCGAAAATGAAGACAAGTCTACCACCT
 TGAAGCTGGTGAATTTGGCCTGGCCAAACATGTGGTGAAGCCTATATTTACTGTGTGGGACGCCAAC
 ATATGTAGCTCCTGAGATTTTCTGAGAAAGTTACGGCCTGGAGGTGGACATGTGGGCCGAGGTGTG
 ATCCTATACATCCTCTTGTGGCTTCCCTCCTTCCGAAGTCTGAGAGGGACCAAGACGAGCTTTCA
 ACATATCCAGCTGGCCAGTTTGTAGTTCTCTCTCCTTACTGGGACAACATTTCTGATGCTGCCAAGA
 TCTGGTGAGAAATTTGCTGGTAGTGGACCCCAAGAAGCGGTACACGGCCACCAGGTCTACATCATCCC
 TGGATTGGGATGGTGGGGCACCCAGCACAGTGAACCCACAGAAGGAGGAGTCCCCAGCAGCGAGGGTCT
 GCTTCCAGAGCCAGCACAGAAGGTTGCAGAGCACGTGTCT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001191800
Insert Size: 2424 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001191800.1, NP_001178729.1</u>
RefSeq Size:	3249 bp
RefSeq ORF:	2424 bp
Locus ID:	316023
Cytogenetics:	8q32
Gene Summary:	This gene encodes a member of the protein kinase superfamily and the doublecortin family. Differently from the other two closely related family members (DCLK1 and DCLK2), the protein encoded by this gene contains only one N-terminal doublecortin domain and is unable to bind microtubules and to regulate microtubule polymerization. The protein contains a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca ²⁺ /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. [provided by RefSeq, Sep 2010]