

Product datasheet for **MC215927**

Dclk1 (NM_001195539) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclk1 (NM_001195539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dclk1
Synonyms:	1700113D08Rik; 2810480F11Rik; AI836758; Clic; Click-I; CPG1; Cpg16; Dc; Dcamk; Dcamkl1; Dcl; Dclk; mKIAA0369
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215927 representing NM_001195539
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGAGCTCATAGAAGTTAATGGAACCCCTGGTAGTCAGCTCTCTACTCCACGCTCGGGCAAGTCAC
 CAAGTCCATCACCCACCAGCCCAGGAAGCCTGCGGAAGCAGAGGATCTCTCAGCATGGCGGCTCCTCGAC
 TTCACCTTTCATCCACTAAAGTTTGCAGCTCAATGGATGAGAATGATGGCCCTGGGGAAGGTGATGAGCTT
 GGGAGAAGGCACAGCTTGCAGAGGGGATGGAGGAGGGAAGAGTCTGAGGAAGGCTTCCAGATTCCTGCCA
 CAATAACAGAGAGATACAAAGTCGGGAGAACAAATAGGAGACGGAAATTTTGTGTGCAAGGAATGTAT
 AGAGAGGTCGACTGCTCGGGAGTATGCCCTGAAAATCATCAAGAAAAGCAAATGCCGAGGCAAAGAGCAC
 ATGATCCAGAACGAGGTCTCCATCTACGGAGGGTGAAGCACCCCAACATTGTCCTCTGATTGAAGAGA
 TGGATGTGCCGACTGAAGTGTATCTTGAATGGAATTAGTGAAGGGTGGAGACCTTTTCGATGCCATCAC
 CTCCTACTAGCAAATACACAGAGAGAGATGCCAGCGGGATGCTGTACAACCTGGCCAGCGCCATCAAATAC
 CTGCACAGCCTGAACATCGTCCACCGTGACATCAAGCCAGAGAATCTGCTGGTGTATGAGACCAGGATG
 GCAGTAAGTCACTCAAGTTGGGTGACTTTGGCCTGGCCACAATTGTCGACGGCCCCCTGTACACAGTCTG
 TGGCACCCCAACATATGTGGCTCCAGAAATCATTGCAGAGACTGGATATGGCCTCAAGGTGGACATCTGG
 GCAGCTGGCGTGATCACTTATATCTGTGTGGCTTCCCTCCGTTCCGTGGAAGTGGGGATGACCAGG
 AGGTGCTTTTTGACCAGATCTTGATGGGCCAAGTGGACTTTCCATCTCCGTATTGGGACAATGTGTCAGA
 TTCTGCTAAGGAGCTCATCAACATGATGCTGTTGGTTAACGTGGACCAGAGATTTTCAGCCGTGCAGGTC
 CTTGAGCATCCCTGGGTTAATGATGATGGTCTCCAGAAAATGAGCATCAGCTGCAGTAGCTGGCAAAA
 TCAAGAAGCATTTC AACACAGGCCCCAAGCCGAGCAGCTGCAGCAGGAGTTTCTGTAATAGCAACCAC
 CGCTCTTGATAAGGAGAGGCAGGTTTTCCGACGAAGACGCAACCAGGATGTGAGGAGCCGGTACAAGGCG
 CAGCCAGCTCCACCGGAATTGAACTCGGAATCGGAGGACTACTCCCCAGCTCCTCTGAGACTGTTGCT
 CCCCCAATTGCCCCTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001195539
- Insert Size:** 1350 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:**
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_001195539.1](#), [NP_001182468.1](#)

RefSeq Size: 7004 bp

RefSeq ORF: 1350 bp

Locus ID: 13175

Cytogenetics: 3 C

Gene Summary: 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⁺/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 encoded protein is independent of its protein kinase activity. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been found, but the biological validity of some variants has not been determined. These variants encode different isoforms, which are differentially expressed and have different kinase activities. [provided by RefSeq, Sep 2010]

Transcript Variant: This variant (6, also known as DCLK-short-C or DCK-beta2-R) is produced from the 3' promoter. It lacks several 5' exons but has an alternate 5' exon, and has an additional in-frame segment in the CDS, as compared to variant 5. The resulting isoform (6) has a shorter and different N-terminus, and lacks doublecortin domains but has an additional Arg-rich segment, as compared to isoform 5. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.