

Product datasheet for **MC203532**

Dclk2 (NM_027539) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dclk2 (NM_027539) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dclk2
Synonyms: 6330415M09Rik; AU044875; CL2; Clic; Click-II; CLICK2; Dcamk; Dcamk12
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC056921

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TCCCTCTCGGTGTGGTTTGTGGTGTCCCTGAAGGGACAGAGGGTGTCTCCGGGGTCCAGGCCCTGACAG
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GAAACCGGTGCTCCGAGTCGTTCCCTTCTGGAGAAATACAGAATAGGGAAGGTCATCGGGACGGCAA
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 AACTCTTCCCTCTTCAAGAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_027539
- Insert Size:** 2271 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: [BC056921](#), [AAH56921](#)

RefSeq Size: 4032 bp

RefSeq ORF: 2271 bp

Locus ID: 70762

UniProt ID: [Q6PGN3](#)

Cytogenetics: 3 F1

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⁺/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. This gene and the DCX gene, another family member, share function in the establishment of hippocampal organization and their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]
Transcript Variant: This variant (2) is an exon-5-lacking transcript (PMIDs:15611072 and 18075264). It lacks an in-frame coding exon and has an additional 3 nts at an alternate splice site, as compared to variant 1. The resulting isoform (2) is shorter; it lacks an internal segment but has a downstream extra aa, as compared to isoform 1.