

## Product datasheet for **MG226417**

### **Dclk3 (NM\_172928) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dclk3 (NM_172928) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dclk3
Synonyms:	BC056929; C730036H08; Dcamk; Dcamkl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226417 representing NM\_172928  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGCCGCGCCGGTCTGCGCCCGCCGCCCGCCAGCGACCCCGCCCGCCGCCACCCAGTCCGC  
 CTGCGCCTCCCATTCGGGCCACCGAGGCCATGTGACCATTCTCTGAAATGCTTAAGCTCGAAGATCTC  
 TGAGAGAAAGCTGCCAGGCCCTGGTTACCTGCGGGACGAGGACCTCTGGAGAAGCCAGTTCTGGGGCCA  
 CGTGGTGCCTCATGCCGCTGTTAGCCCTCAGAGCAGCCTCCACTCAGTCCGCGCAGAGCACAGCCAC  
 TGAAGCCAGGGTGGTACGGTGGTGAAGCTGGTGGCAGCCCTCCGTAAAGCCACCCTGCTCTCAA  
 CCGGCGCTCAGTGCAGACCTTTGAGCAGCTCTATCAGACATCTCCGAAGCCTTGGGCTTCCACGCTGG  
 AAGAACGACCGTGTGCGGAAGCTGTTACCCTCAAGGGCAGGGAGGTGAAGAGTGTGTGACTTCTTCC  
 GGGAGGGTGTATGCTTTCATAGCTATGGCAAAGAGCCGCTGACATTGAAGAGTATCCAGTTGGCCATGGA  
 GGAGCTGTATCCTAAGAACCGGGCTCTTGCCCTGGCCCTCACAGTAGAGTCCCCTCCCCAAGGCTGAGA  
 AGCAGACTTCCCAGCAAGCTTCTGAAAGGAAGTACCCGCTGTGGGGAGGCAGGAAGCTATAGCGCGGAAA  
 TGGAGAGTAAGGCAGTCTCTAGGCATCAGGGCAAGACTTCCACAGTGTGGCCCCAGAAGACAAGGCGAG  
 GGCCAGAAAGTGGTAAGAGGAAAACAGGAGTCAGAACCTGGTGGCCCGCCTTACCCCGGGGAGCCACT  
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 AAGTCAGGACAGTCATCCTCAGGGGGCACCCAAGGCCAGAAAGGACCTCGTGGAAGGGCCACCAGCTGTA  
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 GAAGAAGCCAGGCGGCTTAGGAGAGAGGAGGGCGCCAGAGAAGGAGTCTAAGAGGAAGCTAGAAGAGAAG  
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 ATGACATAGGTGGGTCATTGGGGATGGCAACTTGGCCACCGTGAAGGAATGCAGGCACCGAGAGACCAA  
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 ATCGTCCACCGGGACGTGAAACCAGAAAACCTCCTGGTTCAGCGAAATGAAGACAAGTCTATCACCTTGA  
 AGCTGGCTGATTTGGCTTGGCCAAATATGTGGTGAAGGCTATATTTACTGTGTGTGGGACGCCAACATA  
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 CTATACATCCTCTTGTGTGGCTTCCCCCTTCCGAAGTCTGAGAGGGACCAAGACGAGCTTTCAACA  
 TCATCCAAGTGGCCAGTTTGTGTTCTCTCTCTTACTGGGACAACATTTCTGATGCTGCCAAAGATCT  
 GGTGAGAAATTTGCTGGAGGTGGACCCTAAGAAGCGGTACACGGCCGAACAGGTCTACAGCATCCCTGG  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

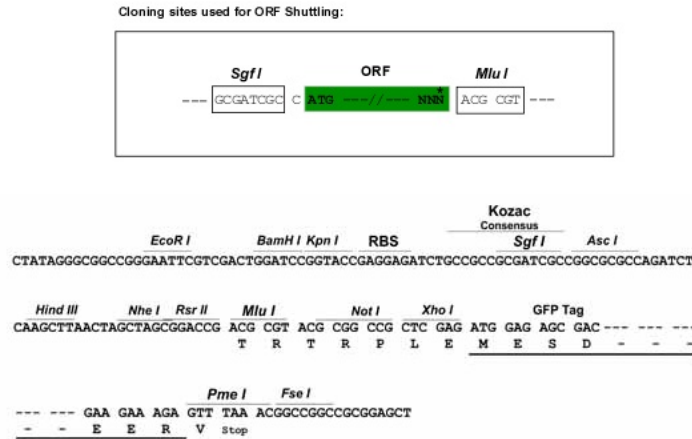
**Protein Sequence:** >MG226417 representing NM\_172928  
 Red=Cloning site Green=Tags(s)

MPAAPVLRPPPPPATPAPPAPSRPAPPVPGHRGPCDHLKCLSSKISERKLPGPWLPAGRGPLEKPVLP  
 RGAVMPLFSPQSSLHSVRAEHSPLKPRVTVVVKLGGQLRKATLLLNRRSVQTFEQLLSDISEALGFPRW  
 KNDRVRKLF TLKGREKVSVDFFREGDAFIAMGKEPLTLKSIQLAMEEL YPKNRALALAPHSRVSPRLR  
 SRLPSKLLKGSHRCEAGSYSAEMESKAVSRHQGKTSTVLAPEDKARAQKWVRGKQSEPGGPPSPGAAT  
 QEETHASGEKHLGVEIEKTSGEIVRCEKCKRERELQLGLQREPCPLGTSELDLGRAQKRDSEKLVRTKSC  
 RRPSEAKSTDGEEGWKGDShrgSPRDPPELRRPNSNSDKKEIRGSESQDSHPQGAPKAQKDLVEGPPAV  
 EEGPIDMRREDRHTCRSKHAAWLRREQQAEPPLPRTRGEEKQAEHEKKPGGLGERRAPEKESKRKLEEK  
 RPERPSGRKPRPKGIISADVEKHYDIGGVI GDGNFATVKECRHRETKQAYAMKIDKSQLKGKEDIVDSE  
 ILIIQSLSHPNIVKLHEVYETEAEIYLIMEYVQGGDLFDAIVENVKFPPEAAVMITDLCKALVHMHDKN  
 IVHRDVKPENLLVQRNEDKSITLKLADFG LAKYVVRPIFTVCGTPTYVAPEILSEKGYGLEVDMWAAGVI  
 LYILLCGFPPFRSPERDQDEL FNIIQVGQFEFLSPYWDNISDAAKDLVRNLLVDPKPKRYTAEQVLQHPW  
 IEMVGHNTNGNSQKEESPNS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172928

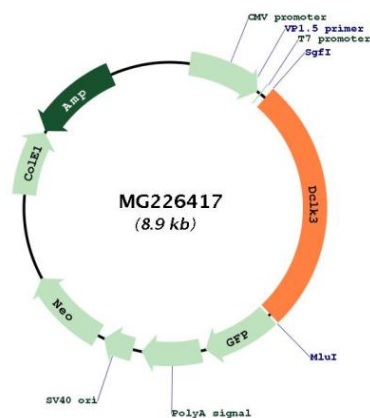
**ORF Size:** 2370 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_172928.5, NP_766516.2</u>
<b>RefSeq Size:</b>	3498 bp
<b>RefSeq ORF:</b>	2373 bp
<b>Locus ID:</b>	245038
<b>UniProt ID:</b>	<u>Q8BWQ5</u>
<b>Cytogenetics:</b>	9 F3
<b>Gene Summary:</b>	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 <sup>2+</sup> /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]

### Product images:



Circular map for MG226417