

Product datasheet for **MG209474**

Dclk3 (BC056929) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MG209474 representing BC056929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAAGAGCCGCTGACATTGAAGAGTATCCAGTTGGCCATGGAGGAGCTGTATCCTAAGAACCGGG
 CTCTTGCCCTGGCCCTCACAGTAGAGTCCCCTCCCAAGGCTGAGAAGCAGACTTCCCAGCAAGCTTCT
 GAAAGGAAGTCACCGCTGTGGGGAGGCAGGAAGCTATAGCGCGGAAATGGAGAGTAAGGCAGTCTTAGG
 CATCAGGGCAAGACTTCCACAGTGTGGCCCCAGAAAGACAAGGCGAGGGCCAGAAAGTGGGTAAGAGGGA
 AACAGGAGTCAGAACCTGGTGGCCCGCTTACCCGGGGCAGCCACTCAGGAGGAGACTCATGCAAGTGG
 AGAGAAACATCTGGGGTGGAGATCGAAAAGACCTCCGGGGAGATTGTCAGATGTGAGAAGTGAAGAGA
 GAAAGAGAGCTGCAGTTGGCCCTGCAGAGGGAGCCGTGCCCGCTGGGAACAGTGCAGTGGACCTGGGGA
 GAGCTCAGAAGAGGGATTCCGAGAAGTTGGTGAAGACCAAGAGCTGCAGGAGGCCCTCTGAGGCAAAATC
 TACAGATGGAGAGGAAGGGTGAAGGGTGCAGCCATCGGGCAGTCCCAGGGACCCCCCTCAGGAACTG
 AGGAGGCCAACAGCAACTCAGACAAGAAAGAGATCAGAGGCTCAGAAAGTCAGGACAGTATCCTCAGG
 GGGCACCAAGGCCAGAAAGACCTCGTGAAGGGCCACCAGCTGTAGAGGAGGGGCCGATAGACATGAG
 GAGAGAGGACCGGCACACATGCAGGAGCAAGCATGCCCGCTGGCTCCGGAGAGAGCAGCAGGCCGAACCC
 CCACAGCTCCCCAGAACCCGAGGGGAGGAGAAGCAAGCAGAGCACGAGAAGAAGCCAGGCCGCTTAGGAG
 AGAGGAGGGCGCCAGAGAAGGAGTCTAAGAGGAAGCTAGAAGAGAAGAGGCCAGAACGACCCAGTGGCCG
 GAAGCCGAGGCCAAGGGCATCATCTCAGCGGATGTGGAGAAGCACTATGACATAGTGGGGTATTGGG
 GATGGCAACTTTGCCACCGTGAAGGAATGCAGGCACCGAGAGACCAAGCAGGCTTACGCCATGAAGATGA
 TTGACAAGTCCCAGCTGAAGGGTGAAGGAGCATTGTGCACAGTGCAGATTTTAAATCATCCAGAGTCTCTC
 TCATCCCAACATTGTGAAACTGCACGAGGTCTACGAGACGGAGGCCGAGATCTACCTGATCATGGAGTAT
 GTGCAGGGAGGGACCTTTTTGATGCCATCGTTGAAAATGTGAAGTTTCCAGAGCCCGAGCTGCAGTTA
 TGATCACAGACTTGTGTAAGGCCCTCGTCCACATGCACGACAAGAATATCGTCCACCGGGACGTGAAACC
 AGAAAACCTCCTGGTTCAGCGAAATGAAGACAAGTCTATCACCTTGAAGCTGGCTGATTTTGGCTTGGCC
 AAATATGTGGTGAAGCCATATTTACTGTGTGGGACGCCAACATATGTAGCTCCTGAAATTTCTTCTG
 AGAAAGGTTACGGCTGGAGGTGACATGTGGGCGGCAGGTGTGATCCTATACATCCTCTGTGTGGCTT
 CCCCCCTTCCGAAGTCTGAGAGGGACCAAGACGAGCTTCAACATCATCAAGTGGCCAGTTTGAG
 TTCTCTCTCTTACTGGGACAACATTTCTGATGTGCCAAAGATCTGGTGAAGAAATTTGCTGGAGGTGG
 ACCCTAAGAAGCGGTACACGGCCGAACAGGTCTACAGCATCCCTGGATTGAGATGGTTGGGCATACCAA
 CACAGGGAACACAGAAGGAGGAGTCCCCCAACAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209474 representing BC056929
 Red=Cloning site Green=Tags(s)

MGKEPLTKSIQLAMEELYPKNRALALAPHSRVPSPRLRSRLPSKLLKGSHRCEAGSYSAEMESKAVSR
 HQKSTSTVLAPEDKARAQKWVRGKQSEPPGPPSPGAATQEETHASGEKHLGVEIEKTSGEIVRCEKCKR
 ERELQLGLQREPCPLGTSELDLGRAQKRDSEKLVRTKSCRPPSEAKSTDGEEGWKGDShRGSPRPPQEL
 RRPNSNSDKKEIRGSESQDShPQAPKAQKDLVEGPPAVEEGPIDMRREDRHTCRSKHAAWLRREQQAE
 PQLPRTRGEEKQAEHEKKPGGLGERRAPEKESKRKLEEKRPERPSSGRKPRPKGIISADVEKHYDIGGVIG
 DGNFATVKECRHRETKQAYAMKIDKSQLKGGKEDIVDSEILIIQSLSHPNIVKLHEVYETEAEIYLIMEY
 VQGGDLFDAIVENVKFPPEAAVMITDLCKALVHMHDKNIVHRDVKPENLLVQRNEDKSITLKLADFLA
 KYVVRPIFTVCGTPTYVAPEILSEKGYGLEVDMAAGVILYILLCGFPFRSPERDQDELFNIIQVQGF
 FLSPYWDNISDAAKDLVRNLLVDPKKRYTAEQVLQHPWIEMVGHNTGNSQKEESPNS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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.
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:	BC056929 , AAH56929
RefSeq Size:	2692 bp
RefSeq ORF:	1859 bp
Locus ID:	245038
Cytogenetics:	9 F3
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]