

Product datasheet for **MG210336**

Dgka (NM_016811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dgka (NM_016811) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dgka
Synonyms:	80kDa; AW146112; Dagk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210336 representing NM_016811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAAGAGAAGGGCCTCATCAGCCCAGAAGACTTCGCTCAGCTGCAAAAGTACATAGAATACTCCA
 CAAAAGGGTCAGCGATGTACTGAAGTCTTTGACGATGGTGAGATGAACAGATTTTGCCAGGGAGATGC
 CATTGGGTACCTAGGATTTGAACAATTCATGAAAATGTATCTGGAAATGGAGGAGTTCCCCATCACCTA
 TGCTGGGCTCTGTTTGGTCTTCCATACTAGTCAAGTTGCGGCTGAGAAGACCAAGTCAAAAGCCAATG
 TGATCTGTCTCAGTGATGTACTGCTACTTCACCCTCTAGAAGGTGGCCGGCCAGAAGACAAGCTAGA
 GTTCACCTTCAAGCTATATGACATGGACAGAAATGGGATCCTGGATAGCACGGAAGTGGAAAAATCATC
 CTTCAGATGATGCGAGTGGCCGAATATCTAGACTGGGATGTGTCTGAGCTGAGACCGATCCTTCAGGAGA
 TGATGAGAGAGATGGATCAGGACGGCAGTGGCTCTGTGTCTTAGACGAGTGGTCCGTGCTGGGGCTAC
 CACAGTGCCACTGCTTGTCTCTGGGATGGACGTGACTATGAAAGATGATGGCAACCATATATGGAGA
 CCCAAGAGATTCACCAGACTGGTCTACTGCAACCTGTGCGAACAGAGCATTAGCCTTGGCAAACAGGGCC
 TGAGCTGTAACCTCTGTAAGTACATTGTTTCATGACCCTGTGCCATGAAGGCCAGCCTTGTGAAGTCAG
 CACCTATGCCAAGTCTCGGAAAGACATTGGTGTCCAGTCACACTTATGGTTTCGAGGAGGCTGTCATTCC
 GGGCGTTGTGACCCTGCCAGAAAAAGATCCGGACCTACCACAGCCTAACAGGACTGCACTGTGTGTGGT
 GCCACCTGGAGATCCATGATGACTGTCTGCAGGCTGTAGTCTGAGTGTGACTGTGGTTGCTCCGTGA
 TCATATCTGCCTCCGTGTTCCATCTACCCAGCGTCTGGTATCTGGACAAGAGTGCAACACAAGACC
 ACAGATGATAACAAGCCTGTGCACCCCTGAGGCTTTTCGGATTGAACCCGTTTCTAACACCCACCCCTTC
 TAGTCTTCATCAATCTTAAGAGCGGAGGCAAGCAGGGGCGAGGTGTGCTTTGGAAATTTCAAGTACATCT
 GAACCCGCGGCAGGTGTTTCGACCTGAAGGATGGTCCGGAGCCAGGCTCAGATTCTTTAAAGATGTTCTT
 CAGTTCGGATATTGGTGTGTGGTGGAGATGGCACAGTAGGCTGGTTCTAGAGACCATTGACAAAAGCCA
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 AAATCATCAATAACTACTTCTCCATTGGCGTGGATGCTTCTATCGCTCACCGATTCCATCTCATGAGAGA
 GAAATATCCTGAGAAGTTCAATAGCAGAATGAAGAACAAGCTTTGGTACTTTGAGTTTGCCACATCTGAG
 TCCATCTTCTCAACATGCAAAAAGCTGGAAGAGTCTGTAACCGTTGAGATATGCGGGAAGCTGCTGGATC
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 GGGTGACACCAAGAGACCTCATGGGGATACATGTGAGATCAACCAGGCATTGGGCAGTGGCGCCAAAATA
 ATCACAGACCCCGATATCCTGAAGACCTGTGTGCCAGACATGAGTGACAAGCGGCTGGAAGTGGTAGGAA
 TAGAGGGTGCAATTGAGATGGGCCAGATCTATACCAGGCTCAAGAGTGTGGACACCGGCTGGCCAAGTG
 CTCCGAGATCACATTCAGACCACAAAACCTCCCATGCAAAATTGACGGGGAGCCCTGGATGCAGGCA
 CCCTGTACAATCAAGATCACCCATAAGAACCAGATGCCTATGCTTATGGGTCCACCTTCCAACCTCTACA
 ATTTCTTTGGCTTTTGGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210336 representing NM_016811
 Red=Cloning site Green=Tags(s)

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MAKEKGLISPEDFAQLQKYIEYSTKRVSVDLKVFDGEMNRFQGD AIGYLGF EQFMKMYLEMEEVPHHL
CWALFWSFHTSQVAAEKT KSKANVICLSDVYCYFTLLEGGRPEDKLEFTFKLYDMDRNGILDSTEVEKII
LQMMRVAEYLDWDVSELRPILQEMMREMDQD GSGSVSLDEWVRAGATTVPLLVL LGM DVTMKDDGNHIWR
PKRFRTRLVYCNLCEQSI SLGKQGLSCNFCKYIVHDHCAMKAQPCEVSTYAKSRKDIGVQSHLWVRGGCHS
GRCDRCQKKIRTYHSLTGLHCVWCHLEIHDDCLQAVGPECDCLLRDHILPPCSIYPSV L VSGQECHKHT
TDDTSLCTPEAFRIEVPVSNTHPLL VFINLKS G GKQGSV L WKFQYILNPRQVFDLKDGP E PGLRFFKDVP
QFRILVCGGDGT VGVVLETIDKANFATVPPVAVLPLGTGNLARCLRWGRGYEGENLRKILKDIELSKVV
YLDRWFL E VIPQNGEKSDPVPSQIINNYFSIGVDASIAHRFHL MREKYPEKFNSRMKNKLWYFEFATSE
SIFSTCKKLEESVTVEICGKLLDLDL SLEGI AVL NIPSTHGGSNLWGDTKRPHGDTCEINQALGSAKI
ITDPDILKTCVPDMSDKRLEVVGIEGAIEMGQIYTR LKSAGHRLAKCSEITFQT T K L P M Q I D G E P W M Q A
PCTIKITHKNQMPMLMGPPSNSYNFFGFWS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016811

ORF Size: 2190 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.

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_016811.3](#)

RefSeq Size: 2842 bp

RefSeq ORF: 2193 bp

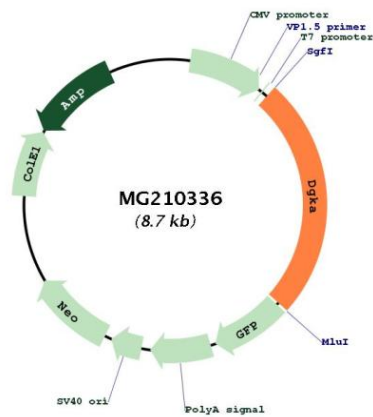
Locus ID: 13139

UniProt ID: [O88673](#)

Cytogenetics: 10 77.14 cM

Gene Summary: Upon cell stimulation converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210336