

## Product datasheet for **MR210336**

### Dgka (NM\_016811) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dgka (NM_016811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dgka
Synonyms:	80kDa; AW146112; Dagk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210336 representing NM\_016811  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAAAGAGAAGGGCCTCATCAGCCCAGAAGACTTCGCTCAGCTGCAAAAGTACATAGAATACTCCA  
 CAAAAGGGTCAGCGATGTACTGAAGTCTTTGACGATGGTGAGATGAACAGATTTTGCCAGGGAGATGC  
 CATTGGGTACCTAGGATTTGAACAATTCATGAAAATGTATCTGGAAATGGAGGAGTTCCCCATCACCTA  
 TGCTGGGCTCTGTTTGGTCTTCCATACTAGTCAAGTTGCGGCTGAGAAGACCAAGTCAAAAGCCAATG  
 TGATCTGTCTCAGTGATGTACTGCTACTTCACCCTCTAGAAGGTGGCCGGCCAGAAGACAAGCTAGA  
 GTTCACCTTCAAGCTATATGACATGGACAGAAATGGGATCCTGGATAGCACGGAAGTGGAAAAATCATC  
 CTTCAGATGATGCGAGTGGCCGAATATCTAGACTGGGATGTGTCTGAGCTGAGACCGATCCTTCAGGAGA  
 TGATGAGAGAGATGGATCAGGACGGCAGTGGCTCTGTGTCTTAGACGAGTGGGTCGGTCTGGGGCTAC  
 CACAGTCCACTGCTTGTCTCTGGGATGGACGTGACTATGAAAGATGATGGCAACCATATATGGAGA  
 CCCAAGAGATTCACCAGACTGGTCTACTGCAACCTGTGCGAACAGAGCATTAGCCTTGGCAAACAGGGCC  
 TGAGCTGTAACCTCTGTAAGTACATTGTTTCATGACCCTGTGCCATGAAGGCCAGCCTTGTGAAGTCAG  
 CACCTATGCCAAGTCTCGGAAAGACATTGGTGTCCAGTACACTTATGGTTTCGAGGAGGCTGTCATTCC  
 GGGCGTTGTGACCCTGCCAGAAAAAGATCCGGACCTACCACAGCCTAACAGGACTGCACTGTGTGTGGT  
 GCCACCTGGAGATCCATGATGACTGTCTGCAGGCTGTAGGTCCTGAGTGTGACTGTGGGTTGCTCCGTGA  
 TCATATCTGCCTCCGTGTTCCATCTACCCAGCGTCTGGTATCTGGACAAGAGTGCAACACAAGACC  
 ACAGATGATAACAAGCCTGTGCACCCCTGAGGCTTTTCGGATTGAACCCGTTTCTAACACCCACCCCTTC  
 TAGTCTTCATCAATCTTAAGAGCGGAGGCAAGCAGGGGCAGAGTGTGCTTTGAAAATTTTCAGTACATCT  
 GAACCCGCGGCAGGTGTTTCGACCTGAAGGATGGTCCGGAGCCAGGCTCAGATTCTTAAAGATGTTCTCT  
 CAGTTCGGATATTGGTGTGTGGTGGAGATGGCACAGTAGGCTGGGTTCTAGAGACCATTGACAAAAGCCA  
 ACTTTGCCACTGTGCCTCCCGTTGCTGTGCTGCCCTGGGCACTGGAAATGATCTGGCTCGGTGCCTAAG  
 ATGGGGAAGAGGTTATGAAGGTGAGAAATTTGAGAAAGATTCTCAAGGATATAGAGCTAAGTAAGGTGGTA  
 TATCTCGACCGATGGTTCCTGGAAGTGATTCCCAACAAAATGGAGAAAAGAGTGATCCAGTTCCTCTC  
 AAATCATCAATAACTACTTCTCCATTGGCGTGGATGCTTCTATCGCTCACCGATTCCATCTCATGAGAGA  
 GAAATATCCTGAGAAGTTCAATAGCAGAATGAAGAACAAGCTTTGGTACTTTGAGTTTGCCACATCTGAG  
 TCCATCTTCTCAACATGCAAAAAGCTGGAAGAGTCTGTAACCGTTGAGATATGCGGGAAGCTGCTGGATC  
 TGAGCGACCTATCCCTAGAAGGCATTGCGGTATTGAACATCCCGAGCACGCACGGTGGCTCCAACCTCTG  
 GGTGACACCAAGAGACCTCATGGGGATACATGTGAGATCAACCAGGCATTGGGCAGTGGCGCCAAAATA  
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 TAGAGGGTGCAATTGAGATGGGCCAGATCTATACCAGGCTCAAGAGTGTGGACACCGGCTGGCCAAGTG  
 CTCCGAGATCACATTCAGACCACAAAACCTCCCATGCAAAATTGACGGGGAGCCCTGGATGCAGGCA  
 CCCTGTACAATCAAGATCACCCATAAGAACCAGATGCCTATGCTTATGGGTCCACCTTCCAACCTCTACA  
 ATTTCTTTGGCTTTTGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210336 representing NM\_016811  
 Red=Cloning site Green=Tags(s)

MAKEKGLISPEDFAQLQKYIEYSTKRVSVDLVKVFDDGEMNRFQGDGDAIGYLGFEQFMKMYLEMEEVPHHL  
 CWALFWSFHTSQVAAEKTSKANVICLSDVYCYFTLLEGGRPEDKLEFTFKLYDMDRNGILDSTEVEKII  
 LQMMRVAEYLDWDVSELRPILQEMMREMDQDGSVSLDEWVRAGATTVPLLVLGMDVTMKDDGNHIWR  
 PKRFRTRLVYCNLCEQSIISLQKQGLSCNFCKYIVHDHCAMKAQPCEVSTYAKSRKIDIGVQSHLWVRGGCHS  
 GRCDRCQKKIRTYHSLTGLHCVWCHLEIHDDCLQAVGPECDCLLRDHILPPCSIYPSVLVSGQECHKHT  
 TDDTSLCTPEAFRIEVPVSNTHPLLVFINLKSQGGKQGSVLWKFQYILNPRQVFDLKDGPPEGLRFFKDVP  
 QFRILVCGGDGTVGWVLETIDKANFATVPPVAVLPLGTGNDLARCLRWRGRGYEGENLRKILKDIELSKVV  
 YLDRWFLEVIPQNGEKSDPVPSQIINNYFSIGVDASIAHRFHLMREKYPEKFNSRMKNKLWYFEFATSE  
 SIFSTCKLEESVTVEICGKLLDLSDLSEGIAVLNIPSTHGGSNLWGDTKRPHGDTCEINQALGSAKI  
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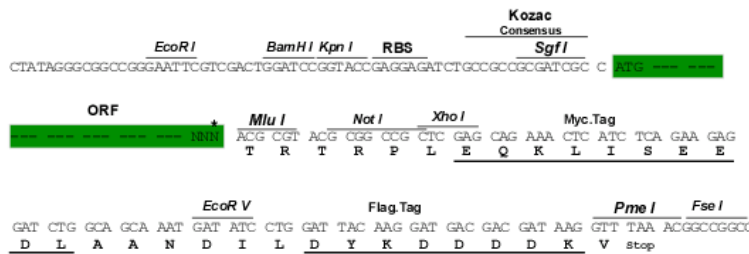
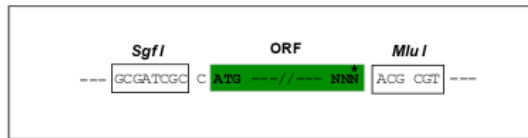
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9088\\_g02.zip](https://cdn.origene.com/chromatograms/mm9088_g02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016811

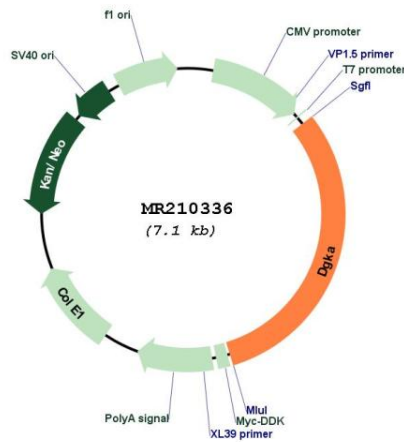
**ORF Size:** 2190 bp

**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.

<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>	<a href="#">NM_016811.3</a>
<b>RefSeq Size:</b>	2842 bp
<b>RefSeq ORF:</b>	2193 bp
<b>Locus ID:</b>	13139
<b>UniProt ID:</b>	<a href="#">O88673</a>
<b>Cytogenetics:</b>	10 77.14 cM
<b>MW:</b>	82.8 kDa
<b>Gene Summary:</b>	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 MR210336