

## Product datasheet for RR214599

### MgII (NM\_138502) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MgII (NM_138502) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MgII
Synonyms:	MAGL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214599 representing NM_138502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCTGAGGCAAGTTCACCCAGGCGAACTCCACAGAACGTCCTACCAGGACCTTCCTCACCTGGTCA  
ATGCGGATGGACAGTACCTCTTTGTAGGTACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTCGT  
GTCCCATGGAGCTGGGAACTGTGGCCGTTATGACGAGCTGGCTCAGATGTTGAAGAGGCTGGACATG  
CTGGTGTGGCCATGACCATGTTGGCCATGGGAGAGCGAGGGAGAGAGGATGGTGGTATCGGACTTCC  
AAGTTTTGTGAGAGATTTGTTGCAGCAGTGAACACCGTCCAGAAGGACTACCCGAGGTCCTCCGTCTT  
CCTCCTGGGCCACTCCATGGGCGGTGCCATCTCCATCCTAGCAGCTGCAGAGAGACCAACCCACTTTTCT  
GGCATGATCCTAATTTACCTCTGATCCTTGCCAAATCCGGAATCTGCATCGACTTTGAAGTCTCTGCTG  
CCAAACTGCTCAATTTTGTCTGCAACATATCCTTGGGGCGCATCGACTCCAGCGTGTCTCGGAA  
CAAGTCGGAGGTTGACCTGTACAACCTCCGACCACTCATCTGCCACGCAGGGTGAAGGTATGCTTTGGC  
ATCCAGCTGTGAACGCTGTCTCGAGGGTGGAGCGAGCAATGCCAGGCTGACACTGCCGTTCTGCTGC  
TGCAGGTTCTGCTGACCGGCTTTCGACAGCAAAGGTGCCTACCTGCTCATGGAATCATCCCCGAGTCA  
GGACAAAACACTCAAGATGTATGAAGGTGCCTACCATGTTCTCCACAAGGAGCTTCCGGAAGTGACCAAC  
TCTGTCTCCATGAAATAAATACGTGGGTGTCTCACAGGATAGCAGTGGCAGGAGCTAGGTGTCTACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RR214599 representing NM\_138502  
Red=Cloning site Green=Tags(s)

MPEASSPRRTQPQNPVYQDLPHLVNADGQYLF CRYWKPSGTPKALIFVSHGAGEHCGRYDELAQMLKRLDM  
 LVFAHDHVGHGQSEGERMVVSDFQV FVRDLLQHVNTVQKDYPEVPVFL LGHSMGGAISILAAAERPTHFS  
 GMILISPLILANPESASTLKVLA AKLLNFVLPNISLGRIDSSVLSRNKSEVDLYNSDPLICHAGVKVCFG  
 IQLLNAVSRVERAMPRLTLPFLLLQGSADRLCDSKGAYLLMESSPSQDKTLKMYEGAYHVLHKELPEVTN  
 SVLHEINTWVSHRIAVAGARCLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1819\\_b06.zip](https://cdn.origene.com/chromatograms/ja1819_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



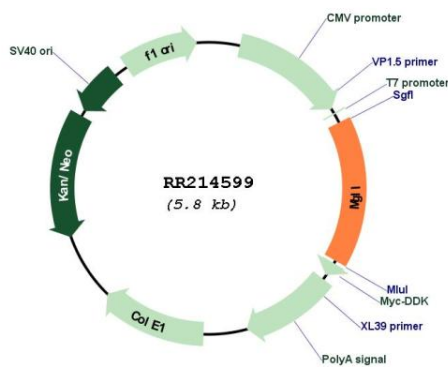
**ACCN:** NM\_138502

**ORF Size:** 909 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	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><a href="#">NM_138502.2</a></u> , <u><a href="#">NP_612511.1</a></u>
<b>RefSeq Size:</b>	1234 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	29254
<b>UniProt ID:</b>	<u><a href="#">Q8R431</a></u>
<b>Cytogenetics:</b>	4q34
<b>MW:</b>	33.9 kDa
<b>Gene Summary:</b>	serine hydrolase that converts monoglycerides to fatty acid and glycerol; may play a role in retrograde signaling at central synapses and other forms of short-range neuronal communication [RGD, Feb 2006]

**Product images:**


Circular map for RR214599