

## Product datasheet for **MR204234**

### MgII (NM\_011844) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MgII (NM_011844) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MgII
Synonyms:	AA589436; Ma; MagI; Mgl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204234 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGAGGCAAGTTCACCCAGGCGAACTCCACAGAATGTTCCCTACCAGGACCTGCCTCACCTGGTCA  
ATGCAGACGGACAGTACCTCTTTTGTAGATACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTTGT  
GTCCCATGGAGCTGGGAACTGTGGCCGTTATGATGAGCTGGCTCATATGTTGAAGGGCTGGACATG  
CTGGTATTTGCCATGACCATGTTGGCCATGGCAGAGTGAGGGAGAGAGGATGGTGGTGTCCGACTTCC  
AAGTTTTTGTGAGAGATGTGCTGCAACACGTGGACACCATCCAGAAGGACTACCCGACGTCCTCCATCTT  
CCTCCTGGGCCACTCCATGGGCGGTGCCATCTCCATCCTAGTGGCTGCAGAGAGGCCAACCTACTTTTCT  
GGCATGGTCTGATTTACCTCTGGTCCCTGCCAAATCCGGAATCTGCATCGACTTTGAAGTCTCTTGGT  
CCAAACTGCTCAATTTTGTCTGCCAAATATGACCTTGGGGCGCATTGACTCCAGCGTGTCTCGGAA  
CAAGTCGGAGGTTGACCTGTACAACCTCTGACCCACTCGTCTGCCGAGCAGGGCTGAAGGTGTGCTTTGGC  
ATACAGCTGTGAATGCCGTCGCAAGAGTGGAGCGAGCAATGCCAGGCTGACTGCCATTCTGCTGC  
TGCAGGTTCTGCTGACCGGCTTTGCGACAGCAAAGGTGCCTACCTGCTCATGGAATCATCCCGAGTCA  
GGACAAAACACTCAAGATGTATGAAGGTGCCTATCACGTCCTCCACAGGGAGCTTCCGGAAGTGACCAAC  
TCCGTCCTCCATGAAGTAACTCGTGGGTGTCTCACAGGATAGCAGCAGCAGGAGCTGGGTGTCCACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR204234 protein sequence  
 Red=Cloning site Green=Tags(s)

MPEASSPRRTQPQNPYQDLPHLVNADGQYLFCRYWKPSGTPKALIFVSHGAGEHCGRYDELAHMLKGLDM  
 LVFAHDHVGHGQSEGERMVVSDFQVFRDVLQHVDTIQKDYPDVPIFLLGHSMGGAISILVAAERPTYFS  
 GMVLISPLVLANPESASTLKVLA AKLLNFVLPNMTLGRIDSSVLSRNKSEVDLYNSDPLVCRAGLKVCFG  
 IQLLNAVARVERAMPRLTLPFLLQGSADRLCDSK GAYLLMESSRSQDKTLKMYEGAYHVLHRELPEVTN  
 SVLHEVNSWVSHRIAAAGAGCPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_011844

**ORF Size:** 912 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\\_011844.4](#)

**RefSeq Size:** 3676 bp

**RefSeq ORF:** 912 bp

**Locus ID:** 23945

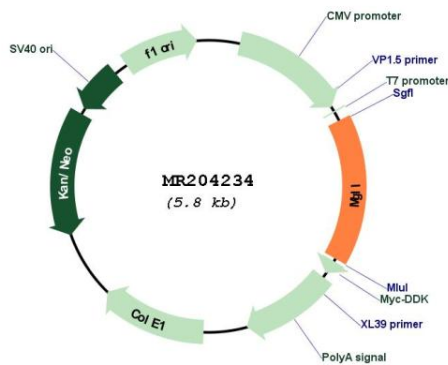
**UniProt ID:** [O35678](#)

**Cytogenetics:** 6 D1

**MW:** 33.4 kDa

**Gene Summary:** This gene encodes a monoglyceride lipase, which catalyzes the hydrolysis of monoglycerides into fatty acids and glycerol. This enzyme is also thought to hydrolyze the endocannabinoid 2-arachidonoylglycerol. Alternatively spliced transcript variants have been described. [provided by RefSeq, Oct 2009]

**Product images:**



Circular map for MR204234