

## Product datasheet for **MG204234**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MgII (NM_011844) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MgII
Synonyms:	AA589436; Ma; MagI; Mgl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204234 representing NM_011844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGAGGCAAGTTCACCCAGGCGAACTCCACAGAATGTTCCCTACCAGGACCTGCCTCACCTGGTCA  
ATGCAGACGGACAGTACCTCTTTGTAGATACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTTGT  
GTCCCATGGAGCTGGGAACACTGTGGCCGTTATGATGAGCTGGCTCATATGTTGAAGGGCTGGACATG  
CTGGTATTTGCCATGACCATGTTGGCCATGGCAGAGTGAGGGAGAGAGGATGGTGGTGTCCGACTTCC  
AAGTTTTGTGAGAGATGTGCTGCAACAGTGGACACCATCCAGAAGGACTACCCGACGTCCTCCATCTT  
CCTCCTGGGCCACTCCATGGGCGGTGCCATCTCCATCCTAGTGGCTGCAGAGAGGCCAACCTACTTTTCT  
GGCATGGTCTGATTTACCTCTGGTCTTGCATCCGGAATCTGCATCGACTTTGAAGTCTCTTGGTGT  
CCAAACTGCTCAATTTTGTCTGCCAAATATGACCTTGGGGCGCATTGACTCCAGCGTGTCTCGGAA  
CAAGTCGGAGGTTGACCTGTACAACCTCTGACCCACTCGTCTGCCGAGCAGGGCTGAAGGTGTGCTTTGGC  
ATACAGCTGTGAATGCCGTCGCAAGAGTGGAGCGAGCAATGCCAGGCTGACTGCCATTCTGCTGC  
TGCAGGGTTCTGCTGACCGGCTTTGCGACAGCAAAGGTGCCTACCTGCTCATGGAATCATCCGGAGTCA  
GGACAAAACACTCAAGATGTATGAAGGTGCCTATCACGTCCTCCACAGGGAGCTTCCGGAAGTGACCAAC  
TCCGTCCTCCATGAAGTAAACTCGTGGGTGTCTCACAGGATAGCAGCAGCAGGAGCTGGGTGTCCACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204234 representing NM\_011844  
 Red=Cloning site Green=Tags(s)

MPEASSPRRTPQNVPYQDLPHLVNADGQYLFCRYWKPSGTPKALIFVSHGAGEHCGRYDELAHMLKGLDM  
 LVFAHDHVGHGQSEGERMVVSDFQVFRDVLQHVDTIQKDYPDVPIFLLGHSMGGASILVAAERPTYFS  
 GMVLISPLVLANPESASTLKVLAALKLLNFVLPNMTLGRIDSSVLSRNKSEVDLYNSDPLVCRAGLKVCFG  
 IQLLNAVARVERAMPRLTLPFLLQLQGSADRLCDKSGAYLLMESSRSQDKTLKMYEGAYHVLHRELPEVTN  
 SVLHEVNSWVSHRIAAAGAGCPP

TRTRPLE - GFP Tag - V

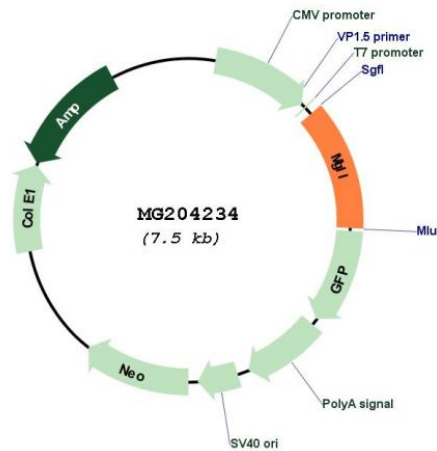
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_011844

ORF Size: 909 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_011844.4</a>
<b>RefSeq Size:</b>	3863 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	23945
<b>UniProt ID:</b>	<a href="#">Q35678</a>
<b>Cytogenetics:</b>	6 D1
<b>Gene Summary:</b>	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]