

## Product datasheet for **MG222167**

### MgII (NM\_001166251) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MgII (NM_001166251) 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:	>MG222167 representing NM_001166251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAAAGCCAAGACTAATGGAAACAGGGCCTAAAGACCCCTGCAGGATGCCTGAGGCAAGTTCACCCA  
GGCGAATCCACAGAATGTTCCCTACCAGGACCTGCCTCACCTGGTCAATGCAGACGGACAGTACCTCTT  
TTGTAGATACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCTGGGGAACAC  
TGTGGCCGTTATGATGAGCTGGCTCATATGTTGAAGGGGCTGGACATGCTGGTATTTGCCATGACCATG  
TTGGCCATGGGCAGAGTGAAGGAGAGAGGATGGTGGTGTGGGACTCCAAGTTTTGTGAGAGATGTGCT  
GCAACACGTGGACACCATCCAGAAGGACTACCCCGACGTCCCATCTTCTCCTGGGCCACTCCATGGGC  
GGTGCCATCTCCATCCTAGTGGCTGCAGAGAGGCCAACCTACTTTTCTGGCATGGTCTGATTTACCTC  
TGGTCTTGCCAAATCCGGAATCTGCATCGACTTTGAAGGTCTTGGTCCAAACTGCTCAATTTTGTCT  
GCCAAATGACCTTGGGGCGCATTGACTCCAGCGTGTCTCGGAACAAGTCGGAGGTTGACCTGTAC  
AACTCTGACCCACTCGTCTGCCGAGCAGGGCTGAAGGTGTGCTTTGGCATAACAGCTGTGAATGCCGTCG  
CAAGAGTGGAGCGAGCAATGCCAGGCTGACACTGCCATTCCTGCTGTGTCAGGGTTCTGCTGACCGGT  
TTGGCAGACGAAAGGTGCCTACCTGCTCATGGAATCATCCGGAGTCAGGACAAAACACTCAAGATGTAT  
GAAGGTGCCTATCAGTCTCCACAGGGAGCTTCCGGAAGTGACCAACTCCGTCCTCCATGAAGTAACT  
CTGGGTGTCTCACAGGATAGCAGCAGCAGGAGCTGGGTGTCCACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG222167 representing NM\_001166251  
 Red=Cloning site Green=Tags(s)

MQKPRLMETGPKDPCRMEASSPRRTPQNVYQDLPHLVNADGQYLFCRYWKPSGTPKALIFVSHGAGEH  
 CGRYDELAHMLKGLDMLVFAHDHVHGGQSEGERMVVSDFQVFRDVLQHVDTIQKDYPDVPFLLGHSMG  
 GATISILVAAERPTYFSGMVLISPLVLANPESASTLKVLAALKLLNFVLPNMTLGRIDSSVLSRNKSEVDLY  
 NSDPLVCRAGLKVCFGIQLLNAVAVRVERAMPRLTLPFLLLQGSADRLCDKSGAYLLMESSRSQDKTLKMY  
 EGAYHVLHRELPEVTNSVLHEVNSWVSHRIAAAGAGCPP

TRTRPLE - GFP Tag - V

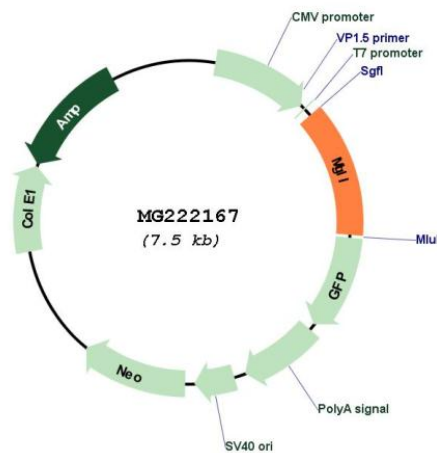
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001166251

ORF Size: 957 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_001166251.1</a> , <a href="#">NP_001159723.1</a>
<b>RefSeq Size:</b>	3991 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	23945
<b>UniProt ID:</b>	<a href="#">O35678</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]