

## Product datasheet for **MG222166**

### MgII (NM\_001166249) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: MgII (NM\_001166249) 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: >MG222166 representing NM\_001166249  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCTGAGGCAAGTTCACCCAGGCGAACTCCACAGAATGTTCCCTACCAGGACCTGCCTCACCTGGTCA  
 ATGCAGACGGACAGTACCTCTTTGTAGATACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTTGT  
 GTCCCATGGAGCTGGGAACTGTGGCCGTTATGATGAGCTGGCTCATATGTTGAAGGGCTGGACATG  
 CTGGTATTTGCCATGACCATGTTGGCCATGGCAGAGTGAGGGAGAGAGGATGGTGGTGTGGACTTCC  
 AAGTTTTGTGAGAGATGTGCTGCAACAGTGGACACCATCCAGAAGGACTACCCGACGTCCTCCATCTT  
 CCTCTGGGCCACTCCATGGGCGGTGCCATCTCCATCCTAGTGGCTGCAGAGAGGCCAACCTACTTTTCT  
 GGCATGGTCTGATTTACCTCTGGTCTTGCATCCGGAATCTGCATCGACTTTGAAGTCTCTTGGTCTG  
 CCAAAGTCTCAATTTTGTCTGCAAATATGACCTTGGGGCGCATTGACTCCAGCGTGTCTCGGAA  
 CAAGTCGGAGGGTCTGCTGACCGGCTTGGCAGCAAAAGGTGCCTACCTGCTCATGGAATCATCCCGG  
 AGTCAGGACAAAACACTCAAGATGTATGAAGGTGCCTATCACGTCCTCCACAGGGAGCTCCGGAAGTGA  
 CCAACTCCGTCCTCATGAAGTAACTCGTGGGTGTCTCACAGGATAGCAGCAGCAGGAGCTGGGTGTCC  
 ACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222166 representing NM\_001166249  
 Red=Cloning site Green=Tags(s)

MPEASSPRRTQPQNPVYQDLPHLVNADGQYLFCRYWKPSGTPKALIFVSHGAGEHCGRYDELAHMLKGLDM  
 LVFAHDHVGHGQSEGERMVVSDFQVFRDVLQHVDTIQKDYPDVPVIFLLGHSMGGAISILVAAERPTYFS  
 GMVLISPLVLANPESASTLKVLAALKLLNFVLPNMTLGRIDSSVL SRNKSEGSADRLCDSKGAYLLMESSR  
 SQDKTLKMYEGAYHVLHRELPEVTNSVLHEVNSWVSHRIAAAGAGCPP

TRTRPLE - GFP Tag - V

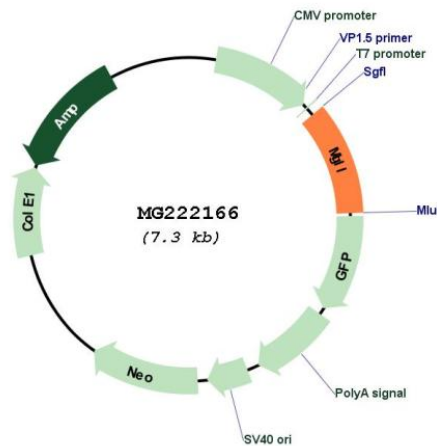
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001166249

**ORF Size:** 774 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_001166249.1</a> , <a href="#">NP_001159721.1</a>
<b>RefSeq Size:</b>	3541 bp
<b>RefSeq ORF:</b>	777 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]