

# **Product datasheet for MR221942**

## Mgll (NM 001166250) Mouse Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Mgll (NM\_001166250) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Mgll

Synonyms: AA589436; Ma; Magl; Mgl
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR221942 representing NM\_001166250
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCAAAAGCCAAGACTAATGGAAACAGGGCCTAAAGACCCCTGCAGGATGCCTGAGGCAAGTTCACCCAGGCGAACTCCACAGAATGTTCCCTACCAGGACCTGCTCACCTGGTCAATGCAGACGGACAGTACCTCTTTTGTAGATACTGGAAGCCCAGTGGCACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCTGGGGAACACTGTGGCCGTTATGATGAGGCTCATATGTTGAAGGGGCTGGACATGCTGGTATTTGCCCATGACCATGCTGTGATGCTCTCTGCTGCTCTGCAGTCAGCCCTGGTTATATTTTGTGAGACCTTATTTTGGCAGATAATATT

CCAGGGTTATCCCCGAGGCGTTTGCTGTGGGGGACGCTGTCATTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221942 representing NM\_001166250

Red=Cloning site Green=Tags(s)

MQKPRLMETGPKDPCRMPEASSPRRTPQNVPYQDLPHLVNADGQYLFCRYWKPSGTPKALIFVSHGAGEH

CGRYDELAHMLKGLDMLVFAHDHAVMLSAALQSALVIFVRLIWQIIFQGYPRGVCCGGRCHY

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

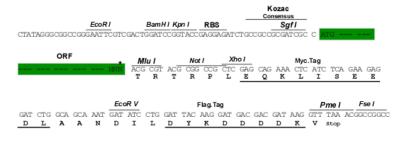
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



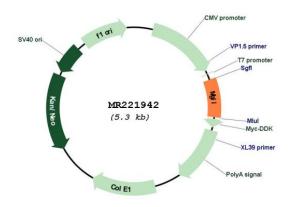
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

#### Plasmid Map:



**ACCN:** NM\_001166250

ORF Size: 396 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

#### MgII (NM\_001166250) Mouse Tagged ORF Clone - MR221942

**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:** <u>NM 001166250.1</u>, <u>NP 001159722.1</u>

RefSeq Size: 1204 bp
RefSeq ORF: 399 bp
Locus ID: 23945
UniProt ID: 035678
Cytogenetics: 6 D1

**MW:** 15.4 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]