

Product datasheet for **MG221942**

MgII (NM_001166250) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MgII (NM_001166250) 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: >MG221942 representing NM_001166250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAAAGCCAAGACTAATGGAACAGGGCCTAAAGACCCCTGCAGGATGCCTGAGGCAAGTTCACCCA
GGCGAATCCACAGAATGTTCCCTACCAGGACCTGCCTCACCTGGTCAATGCAGACGGACAGTACCTCTT
TTGTAGATACTGGAAGCCAGTGGCACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCTGGGGAACAC
TGTGGCCGTTATGATGAGCTGGCTCATATGTTGAAGGGGCTGGACATGCTGGTATTTGCCATGACCATG
CTGTGATGCTCTCTGCTCTGCAGTCAGCCCTGGTTATATTTGTGAGACTTATTTGGCAGATAATATT
CCAGGGTTATCCCGAGGCGTTTGTGTGGGGACGCTGTCATTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221942 representing NM_001166250
Red=Cloning site Green=Tags(s)
MQKPRLMETGPKDPCRMPPEASSPRRTPQNVPYQDLPHLVNADGQYLFRCRYWKPSGTPKALIFVSHGAGEH
CGRYDELAHMLKGLDMLVFAHDHAVMLSAALQSALVIFVRLIWQIIFQGYPRGVCCGGRRCHY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

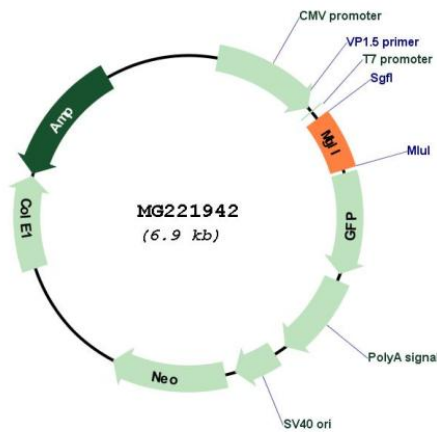


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Cloning Scheme:



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](#)

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:	<ol style="list-style-type: none">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:	<u>O35678</u>
Cytogenetics:	6 D1
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]