

Product datasheet for MR200346

Mgp (NM_008597) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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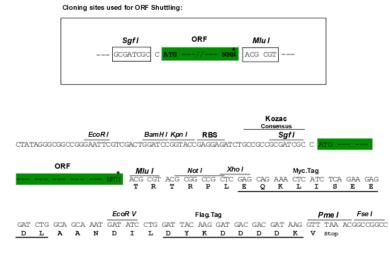
Product Type:	Expression Plasmids
Product Name:	Mgp (NM_008597) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Мдр
Synonyms:	Mg; Mglap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR200346 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAAGAGCCTGCTCCCTCTGGCCATCCTGGCTGCGCTGGCCGTGGCAACCCTGTGCTACGAATCTCACG AAAGCATGGAGTCCTATGAAATCAGTCCCTTCATCAACAGGAGAAATGCCAACACCTTTATGTCCCCCTCA GCAGAGGTGGCGAGCTAAAGCCCAAAAGGAGTCCAGGAACGCAACAAGCCTGCCT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR200346 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MKSLLPLAILAALAVATLCYESHESMESYEISPFINRRNANTFMSPQQRWRAKAQKRVQERNKPAYEINR EACDDYKLCERYAMVYGYNAAYNRYFRQRRGARY
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



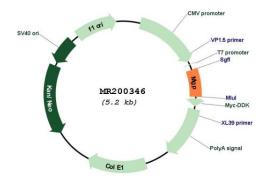
* The last codon before the Stop codon of the ORF

ACCN:	NM_008597
ORF Size:	315 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 008597.1, NM 008597.2, NM 008597.3, NM 008597.4, NP 032623.1</u>
RefSeq Size:	614 bp
RefSeq ORF:	315 bp

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	Mgp (NM_008597) Mouse Tagged ORF Clone – MR200346
Locus ID:	17313
UniProt ID:	<u>P19788</u>
Cytogenetics:	6 G1
MW:	12.4 kDa
Gene Summary:	This gene encodes a member of the osteocalcin/matrix Gla family of proteins. The encoded vitamin K-dependent protein is secreted by chondrocytes and vascular smooth muscle cells, and functions as a physiological inhibitor of ectopic tissue calcification. This protein also inhibits angiogenesis. Mice lacking a functional copy of this gene exhibit impaired differentiation of endothelial cells, reduced stature, and calcification and rupture of the vasculature leading to premature death. [provided by RefSeq, Sep 2016]

Product images:



Circular map for MR200346

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