

## Product datasheet for **MC202781**

### Mgp (NM\_008597) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mgp (NM_008597) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mgp
Synonyms:	Mg; Mglap
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC079478 sequence for NM_008597 CTCCCCCTGCTGCTGCTGCTGCTGCGCCAGACACAGAGGCAGACTCACAGGACACCCGAGACACCATGA AGAGCCTGCTCCCTCTGGCCATCCTGGCTGCGCTGGCCGTGGCAACCCTGTGCTACGAATCTCACGAAAG CATGGAGTCTATGAAATCAGTCCCTTCATCAACAGGAGAAATGCCAACACCTTTATGTCCCTCAGCAG AGGTGGCGAGCTAAAGCCAAAAGAGAGTCCAGGAACGCAACAAGCCTGCCTACGAGATCAACAGAGAGG CCTGCGATGACTACAAGCTGTGTGAGCGCTACGCCATGGTCTACGGCTACAACGCTGCCTACAACCGCTA CTTCAGGCAGCGCCGAGGAGCCAGATATTAGCGCGAAGAAACAGTCATTTGGTTGTGGAGTTTCGTTTTA TATCTCCTGCAGTAGCATTACTGAAGTATACAGACACGCATGCGTTGCTTGTCTTACATGATCTCCTA GCTGGCTGGCCACTCCTTCCTCCGCGGGTTGAAAGTAATGAAAGAGCAGTATTAAGAAGTGTGTTTAT ATATAATAAAATTCTGGTTTGATACGTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_008597
Insert Size:	315 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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**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:** [BC079478](#), [AAH79478](#)

**RefSeq Size:** 617 bp

**RefSeq ORF:** 315 bp

**Locus ID:** 17313

**UniProt ID:** [P19788](#)

**Cytogenetics:** 6 G1

**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]