

## Product datasheet for **MC216954**

### **Dmp1 (NM\_016779) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dmp1 (NM_016779) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmp1
Synonyms:	AG1; AV020965; Dmp; DMP-1; PP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216954 representing NM\_016779  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGACTGTCACTTCTCCTTGTGTTCTTTGGGGCTGTCTGTGCTCTCCAGTTGCCAGATACCACA  
ATACTGAATCTGAAAGCTCTGAAGAGAGGACGGGTGATTTGGCTGGGTACCACCACCACCACGAACAG  
TGAGTCATCAGAAGAAAGTCAAGCTAGCCAGAGGGACAGGCAAATAGTGACCACACGGACAGCAGTGAA  
TCTGGAGAGGAGCTGGGCTACGACAGAGGCCAGTACAGACCGGCTGGTGGACTCTCTAAGAGTACGGGGA  
CCGGCGCCGATAAGGAGGATGATGAAGACGACAGTGGAGATGATACCTTTGGCGATGAGGACAATGATCT  
AGGGCCCGAAGAAGGACAGTGGGAGGACCCTCCAACTGGACAGTGTGAGGACTCCACAGACACCACA  
CAGTCCAGTGAAGACAGCACCTCTCAAGAAAACAGTGCCCAAGATACCCCGAGCAGCAAAGACCAGC  
ACAGTGAAGTGAAGACAGCACCTCTCAAGAAAACAGTGCCCAAGATACCCCGAGCAGCAAAGACCAGC  
GCGGGTGGGAGGTGGCAGCGAGGGGAGAGTAGCCACGGGGACGGTTCTGAGTTCGATGATGAAGGGATG  
CAGAGCGACACCCCGAGAGTACCAGGAGCGATCGAGGCCACGCCAGAATGAGCAGCGCTGGTATCAGGT  
CGGAAGAATCTAAAGGGGACCACGAGCCACGAGCACTCAGGATTCAGATGACAGCCAGTCTGTGGAATT  
TTCAAGCAGGAAGTCTTTCAGAAGTCCCACGTCTCTGAGGAAGACTACAGAGGTGAGCTTACTGACAGC  
AACAGCAGGGAACCCAGAGCGACTCCACGGAGGATACGGCTCCAAGGAGGAAAGCAGGAGCGAGTCTC  
AGGAGGACACAGCCGAGAGCCAGTCCCAGGAAGATAGCCAGAGGGGCAAGACCCAGCAGTGAAGTCCAG  
CGAAGAGGCTGGTGAAGCATCCCAGGAAAGCAGCAGCGAATCTCAGGAAGGGTGACCAGCGAGTCCAGG  
GGTGACAACCCAGATAACACAAGTCAGGCAGGAGACCAAGAAGACAGTGAAGTCCAGTGAAGGAGCAGCC  
TGAACACATTCTCCAGTTCAGAAAGCCAGTCCACCGAGGAGCAAGCTGACAGCGAGTCCAACGAGAGCCT  
CAGCCTCTCCGAGGAGAGTCAGGAGTCGGCCAGGATGGTGACAGCTCCAGCCAGGAAGGCCTGCAGTCC  
CAGAGCGCATCCACTGAGAGCAGGAGCCAGGAGGCCAGTCTGAGCAGGACAGCCGTTCTGAGGAAGACA  
GTGACTCTCAGGACAGTAGCCGATCCAAAGAAGAGAGCAACTCCACAGGGAGCGCTTCCAGCAGCGAGGA  
GGACATCCGTCCCAAGAACATGGAAGCTGACAGTAGGAAACTAATAGTTGATGCTTACCACAACAAACCC  
ATCGGGGACCAAGATGACAATGACTGTCAGGACGGCTAC**TAG**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_016779

**Insert Size:** 1512 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).

**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:** [NM\\_016779.2](#), [NP\\_058059.2](#)

**RefSeq Size:** 2760 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 13406

**UniProt ID:** [O55188](#)

**Cytogenetics:** 5 50.61 cM

**Gene Summary:** May have a dual function during osteoblast differentiation. In the nucleus of undifferentiated osteoblasts, unphosphorylated form acts as a transcriptional component for activation of osteoblast-specific genes like osteocalcin. During the osteoblast to osteocyte transition phase it is phosphorylated and exported into the extracellular matrix, where it regulates nucleation of hydroxyapatite (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This sequence has been modified as follows: removed 17/38 bp suspected to be vector contamination from the 5'/3' end.