

## Product datasheet for **RC218741**

### **DMP1 (NM\_004407) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DMP1 (NM_004407) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DMP1
Synonyms:	ARHP; ARHR; DMP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC218741 representing NM\_004407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGATCAGCATCCTGCTCATGTTCTTTGGGATTATCCTGTGCTCTCCAGTAACCCAGGTATCAAA  
 ATAATGAATCTGAGGATTCTGAAGAATGGAAGGTCATTTGGCTCAGGCACCAACACCACCTTGGAGAG  
 CAGTGAGTCATCAGAAGGCACTAAAGTTAGCTCAGAGGAACAGGCAAAATGAAGACCCAGTGACAGCACT  
 CAGTCAGAGGAGGGCCTGGGCTCTGATGATCATCAATACATTTATAGGCTAGCTGGTGGCTTCTCCAGGA  
 GCACAGGAAAAGGAGGAGATGATAAAGATGACGATGAAGATGACAGTGGAGATGACACCTTTGGTACGA  
 TGACAGTGGCCAGGGCCAAAGACAGACAAGAAGGAGGAACTCCAGACTGGGAAGTGTGAGGACTCT  
 GATGACACCATAAAGCCAGTGAAGAGAGTGCCCAACAAGGGCAAGACAGTGCACCAAGATACCACAGTG  
 AGAGCAGGGAACCTTGACAATGAGGACCGGGTGGACAGCAAGCCTGAGGGAGGTGACTCCACTCAAGAGAG  
 TGAGAGTGAAGAGCACTGGTGGGAGGTGGCAGTGTGGGGAGAGCAGCCATGGAGACGGCTCCGAGTTG  
 GACGATGAGGGAATGCAGAGTGTGACCCAGAGAGCATCAGGAGTGAAAGGGGAACTCCAGAATGAACA  
 GTGCAGGCATGAAATCAAAGAATCTGGAGAAAACAGTGAGCAAGCAAACACTCAAGATTCAGGTGGCAG  
 CCAATTGCTGGAGCATCCAGTAGGAAAATTTTTAGGAAGTCTCGCATCTCAGAGGAAGATGACAGAAGC  
 GAGCTTGATGACAACAACACAATGGAAGAAGTCAAGAGTACTCTACAGAAAACAGCAACTCCAGAGACA  
 CTGGCCTCAGCCAACCCAGGAGAGACAGCAAGGGTACTCTCAAGAAGACAGCAAGGAGAATCTGTCCCA  
 GGAAGAGAGCCAAAACGTAGATGGTCCCAGCAGTGAAGTCCAGCCAAGAGGCAACCTGTCTCAAGAG  
 AACAGCAGTGAAGTCTCAGGAAGAGGTGGTGAAGTGAAGTCCAGGGGAGATAACCCCGACCCCAACTAGTT  
 ATGTAGAAGACCAGGAAGACAGTACTCCAGCAGGAGGACAGCTCGCACACTCTCCCACTCAAAAAG  
 TGAATCCAGAGAGGAGCAAGCAGACAGCAATCCAGTGAAGAGCCTCAACTTCTCAGAGGAAAGCCGGAG  
 TCCCTGAGGATGAGAACAGCTCCAGCCAGGAGGGCCTCCAGTCTCACAGCAGCTCAGCAGAGAGTCA  
 GCGAGGAAAGCCATTCTGAGGAAGACGACAGTACTCTCAAGACAGCAGCAGATCCAAAGAAGATAGCAA  
 CTCCACGGAGAGCAAAATCAAGCAGTGAAGAGTGGCCAGTTGAAAAACATTGAGATAGAGAGCCGGAAA  
 TTAACAGTTGATGCCTATCACAAACCCATTGGGGACCAAGATGACAATGACTGCCAAGACGGCTAT

**ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC218741 representing NM\_004407  
 Red=Cloning site Green=Tags(s)

MKISILLMFLWGLSCALPVTRYQNNESDSEEWKGLHAQAPTPPLESSESSESGKVSSEEQANEDPSDST  
 QSEEGLSDDHQYIYRLAGGF SRSTGKGGDDKDDDEDDSGDDTFGDDDSGPGPKDRQEGGNSRLGSDSDS  
 DDTIQASEESAPQGQDSAQDTTSESRELDNEDRVDSKPEGGDSTQESESEEHVWGGSDGESHHGDSSEL  
 DDEGMQSDDPESIRSERGNSRMNSAGMKSKESENSEQANTQDSGGSQLEHPSRKIFRKSRISEEDDRS  
 ELDDNNTMEEVKS DSTENSNSRDTGLSQPRRDSKGSQEDSKENLSQEESQNVDPSPSESSQEANLSSQE  
 NSSSESQEEVVSERGNPDPTTSYVEDQEDSDSSEEDSSHTLSHKSSESREEQADSESSSLNFSEESPE  
 SPEDENSSSQEGLQSHSSAESQSEESHSEEDSDSQSSRSKEDSNSTESKSSSEEDGQLKNIEIESRK  
 LTVDAYHNKPIGDQDNDQCQDGY

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6100\\_e11.zip](https://cdn.origene.com/chromatograms/mk6100_e11.zip)

**Restriction Sites:**

Sgfl-Mlul

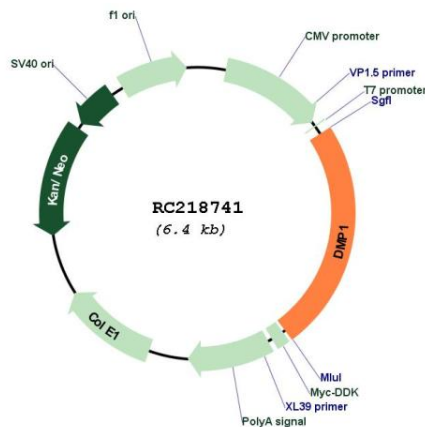


**Protein Families:** Secreted Protein

**MW:** 55.78 kDa

**Gene Summary:** Dentin matrix acidic phosphoprotein is an extracellular matrix protein and a member of the small integrin binding ligand N-linked glycoprotein family. This protein, which is critical for proper mineralization of bone and dentin, is present in diverse cells of bone and tooth tissues. The protein contains a large number of acidic domains, multiple phosphorylation sites, a functional arg-gly-asp cell attachment sequence, and a DNA binding domain. In undifferentiated osteoblasts it is primarily a nuclear protein that regulates the expression of osteoblast-specific genes. During osteoblast maturation the protein becomes phosphorylated and is exported to the extracellular matrix, where it orchestrates mineralized matrix formation. Mutations in the gene are known to cause autosomal recessive hypophosphatemia, a disease that manifests as rickets and osteomalacia. The gene structure is conserved in mammals. Two transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC218741