

## Product datasheet for **TP322208M**

### DMP1 (NM\_001079911) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dentin matrix acidic phosphoprotein 1 (DMP1), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222208 representing NM_001079911 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MKISILLMFLWGLSCALPVTRYQNNESDSEEWKGHLAQAPTPLANEDPSDCTQSE EGLGSDDHQYIYR LAGGFSRSTGKGGDDKDDDEDDSGDDTFGDDDSGPGPKDRQEGGNSRLGSDDESDDTIQASEESAPQGQD SAQDTTSESRELDNEDRVDSKPEGGDSTQESESEEHWVGGGSDGESSHGDGSELDDDEGMQSDDPESIRSE RGN SRMNSAGMKSKEGENSEQANTQDSGGSQ LLEHPSRKIFRKSRISEEDDRSELDDNNTMEEVKSDST ENSNSRDTGLSQPRRDSKGD SQEDSKENLSQEESQNV DGPSSSESSQEANLSSQENSSESQEEVSES RGD NPDPTTSYVEDQEDSDSSEEDSSHTLSHKSSESREEQADSESSESLNFSEESPESPEDENSSSQEGLQSH SSAESQSEESHSEEDSDSQDSSRSKEDSNSTESKSSSEEDGQLKNIEIESRKLTVDAYHNKPIGDQDD NDCQDGY  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	52.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001073380](#)

**Locus ID:** 1758

**UniProt ID:** [Q13316](#), [Q13316-2](#)

**RefSeq Size:** 2631

**Cytogenetics:** 4q22.1

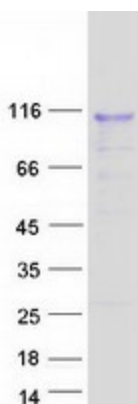
**RefSeq ORF:** 1491

**Synonyms:** ARHP; ARHR; DMP-1

**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]

**Protein Families:** Secreted Protein

## Product images:



Coomassie blue staining of purified DMP1 protein (Cat# [TP322208]). The protein was produced from HEK293T cells transfected with DMP1 cDNA clone (Cat# [RC222208]) using MegaTran 2.0 (Cat# [TT210002]).