

## Product datasheet for **MR218343**

### **Mmp20 (NM\_013903) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mmp20 (NM_013903) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218343 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGGTGCTACCTGCCTCTGGCCTTGTCTGCTTGTACAGCTTTAAAGTTTGCCACTGCAGACCCCA  
 ACCTACTGGCAGCCACCCCTAGGACCTTCAGGAGCAACTACCACCTTGACAGGCCATCTTGACAAGTA  
 TTATACAAGAAAAGGAGGCCCCAGGCTGGCGAGATGGTGGCAAGAGAAAAGCAACCCCATGATCAGGAGG  
 ATTAAGGAGCTACAAATATTCTTTGGCCTCAAAGTCACTGGGAAGTTGGACCAGAATACAATGAATGTGA  
 TCAAGAAGCCTCGCTGTGGAGTTCCTGATGTGGCTAACTACCGCCTCTCCAGGTGAACCCAAATGGAA  
 AAAAAATATTTTACATACAGAATCTCTAAGTACACACCCTCCATGAGTCCCACTGAGGTGGACAAGGCA  
 ATACAGATGGCCCTGCATGCGTGGAGTACAGCTGTCCCTCTGAATTCGTTAGAATAAACTCTGGGGAAG  
 CAGATATCATGATATCTTTGAAACTGGAGATCATGGGGATTCTACCCATTTGATGGCCCTCGAGGGAC  
 TCTGGCCCATGCATTTGCTCCTGGAGAAGCCTGGGAGGAGACACACATTTGACAATGCTGAGAAGTGG  
 ACTATGGGAACGAATGGGTTCAATTTATTCACCGTTGCTGCTCATGAATTTGGCCATGCTCTGGCCCTGG  
 GCCATTCCACAGATCCATCAGCACTGATGTACCAACTATAAGTACCAGAACCCCTATAGATTTTCATCT  
 CCCCAAGGATGATGTGAAAGGGATCCAAGCATTATACGGACCCCGGAAAAATTTCCAGGAAAGCCACC  
 ATGCCCATATCCACCTCACAAGCCATCCATCCCGACCTCTGCGACTCCAGCTCGTCCTTTGATGCGAG  
 TGACAATGTTGGGAAAGGAGCTTCTGTTCTTCAAGGATAGGATTTTCTGGAGAAGGCAGGTGCACTTGCC  
 AACAGGGATTGGCCAGCACCATCACCAGCTCCTTTCCAGCTAATGTCCAATGTGGACGCGGCTTAC  
 GAAGTGGCTGAACGAGGCATTGCTTTCTTCAAAGTCTCTACTACTGGTCACTCGAGGATTCATA  
 TGCAAGTCTCCACGGACAATTTATGACTTCGGGTTCCAAGGCATGTGCAACGAATAGATGCTGCTGT  
 CTACCTCAAGGAGCCTCAGAAGACCCTTTTCTTTGTTGGGAGAGGAATACTACAGCTATGATGAAAGAAAA  
 AAGAAAATGAAAAAGACTACCCAAAAAACACTGAAGAAGAGTTTTTCAGGAGTGAAGTGGCCATATAGATG  
 CTGCTGTGGAAGTGAATGGCTACATTTACTTCTTTTCAGGACGAAAAACATTCAAGTATGATACAGAGAA  
 GGAAGACGTGGTTAGTGTGGTAAATCCAGTTCCTGGATTGGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218343 protein sequence  
 Red=Cloning site Green=Tags(s)

MKVLPAAGLAVLVTALKFATADPNLLAATPRFRSNIHLAQAYLDKYYTKKGGPQAGEMVARESNPMIRR  
 IKELQIFFGLKVTGKLDQNTMNVIKKPRCGVPDVANYRFLPGEPEKWKKNILTYRISKYTPSMSPTVEVDKA  
 IQMALHAWSTAVPLNFVRINSGEADIMISFETGDHGDSPYFDGPRGTLAHAFAPGEGLGGDTHFDNAEKW  
 TMGTNGFNLFVAAHEFGHALGLGHSTDPALMYPTYKYQNPYRFHLPKDDVKGIQALYGPRIKIFPGKPT  
 MPHIPPHKPSIPDLCDSSSFDAVMTLKGKELFFKDRIFWRRQVHLPTGIRPSTITSSFPQLMSNVDAAY  
 EVAERGIAFFKGPYHWVTRGFHMQGPRTIYDFGPRHVQRIDAAYLKEPQKTLFFVGEYYSYDERK  
 KKMEKDYKNTTEEFSGVSGHIDAAVELNGYIYFFSGRKTFKYDTEKEDVVSVKSSSWIGC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_013903

**ORF Size:** 1449 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. [More info](#)

**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:**

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\\_013903.1](#), [NM\\_013903.2](#), [NP\\_038931.1](#)

**RefSeq Size:** 3276 bp

**RefSeq ORF:** 1449 bp

**Locus ID:** 30800

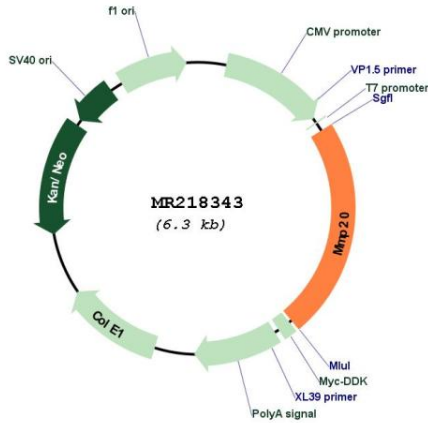
**UniProt ID:** [P57748](#)

**Cytogenetics:** 9 A1

**MW:** 54.4 kDa

**Gene Summary:** This gene encodes a member of the matrix metalloproteinase family of zinc-dependent endopeptidases capable of degrading extracellular matrix proteins. This gene is expressed specifically in the ameloblasts and odontoblasts, and the encoded protein is an inactive zymogen that requires proteolytic removal of a N-terminal propeptide to become enzymatically active. Mice lacking the encoded protein display an amelogenesis imperfecta phenotype. [provided by RefSeq, Oct 2015]

**Product images:**



Circular map for MR218343