

## Product datasheet for **MR222722**

### **Ecm1 (NM\_007899) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ecm1 (NM_007899) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ecm1
Synonyms:	A1663821; p85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222722 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACCGTATCCAGAGCAGCCTTGATCTTGGCCTGCTTGGCTCTTGCTTCTGCTGCCTCTGAGGGAG  
 CCTTCAAGGCTTTCAGACCAGCGAGAGATGACGCCAGAGCGCCTCTTCCAGCACCTCCATGAAGTAGGTTA  
 TGCAGCACCCCTTCCACCACAAACCCGGAGACTCCGAGTTGACCACTCTGTAACCTTCTGTCATGAC  
 CCTCCCCTCTTTGAGGAACAAAGAGAAGTGCAGCCCCCTTCTCTCCAGAAGACATCCCTGTGTACGAGG  
 AAGACTGGCCACTTTCTAAACCTAATGTAGATAAAGCTGGTCTGCTGTCCCTCAAGAAGCCATCCC  
 CCTGCAGAAAGAGCAGCCCCCTCCCAAGTCCATATTGAACAGAAGAAAATAGACCCGCCTGCCAGCCT  
 CAGGAGGAGATTGTCCAGAAAGAGGTGAAGCCACACACCTTGGCGGGCCAGCTCCCTCCAGAGCCCCGGA  
 CTTGGAATCCAGCCCGTCACTGCCAGCAGGACGGAGAGGTGTCTGGGGCCACCGCTGGATGGCTTCCC  
 TCCTGGACGGCCTTCTCCAGACAATCTGAAGCAGATCTGCCTTCTGAGCGTCAGCATGTGATCTACGGC  
 CCCTGGAACCTGCCGAGACTGGCTACTCTCACCTTAGTCGCCAGGGAGAGACCTCAATGTGCTGGAGA  
 CCGGATACTCCCCTGCTGTCGCTGCCGACGACACAAACCCGCCTAGACTGTTTGAAGCTTGTGTGGGA  
 GGATGCAATGACCCAATTTGTGAGGCCGAATCTCTGTCAAGACCCGCCCCACCTGTGCTGCAGACTG  
 CGTGGGGAGGAGCGATTCTTTGCTTCCAGAAGGAAGCTCCTCGCCAGACTACCTGCTCCGACCTGCC  
 CCGTCCACCAGAAATGGCATGTCTCAGGGCCCCAGTTGCCTTTCCCCCGGGGTTGCCACACCCGGACAA  
 TGTCAAAAACATCTGTCTCCTGAGACGCTTCCGCGCCGTGCCACGCAACCTCCAGCTACTGACGCCATC  
 CAGAGGCAGCTGCAGGCTCTGACTCGGCTGGAGACGGAGTCCAGCGTCTGCCGCCAGGGCCACAACC  
 ACACTTGCACATGGAAGGCTTGGGAGGTACCTGGATGGATATGCGAGCGGGAGCTGGCTATAAAGAC  
 CCACCCCACTCGTCTGCCACTACCCTCCTAGTCTGCCCGTGATGAGTGCTTCCGCCACCTAGCTCCC  
 TATCCCAACTATGACCGGATATCTTGACCCTTACCTCAGCCGAGTCAACCCCAACCTCATGGGCCAGC  
 TCTGTGGAAGTGAAGGGTCTTAGCAAGCATAAACAGATTCCGGGGCTGATCCAGAATATGACCGTCCG  
 CTGCTGCGAGTTCCATATCCAGAACAGGCTGCTGCGGCGAAGAGGAGAAACTGGCCTTATCGAGAAC  
 CTCTGTGGTCCCCGGAGGAATTCGTGGAAGACCTGCCCTCTGCTGTGACCTGTCTCCTGAAGATAAGC  
 AAATCAACTGCTTCAATACCAACTACCTGAGGAACGTGGCTTTAGTGGCTGGAGACTGGGAATGCCAC  
 TGGCTTGGGGAGCAGGGCCCAACTCGGGAACAGATGCCAACCCCGCCCTGGGTCCAAGGAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222722 protein sequence  
 Red=Cloning site Green=Tags(s)

MGTVSRAALILACLALASAASEGAFKASDQREMTPERLFQHLHEVGYAAPPSPQTRRLRVDHVSLSLHD  
 PPLFEEQREVQPPSSPEDIPVYEEDWPTFLNPNVDKAGPAVPQEAIPLQKEQPPPQVHIEQKEIDPPAQP  
 QEEIVQKEVKPHTLAGQLPPEPRTWNPARGCQQGRRGVWGHRLDGFPPGRPSPDNLKQICLPERQHVYIG  
 PWNLPQTGYSHLSRQGETLNVLETGYSRCCRCRSDTNRLDCLKLWEDAMTQFCEAEFSVKTRPHLCCRL  
 RGEERFSCFQKEAPRPDYLLRPCVHQNGMSSGPQLPFPPLPTPDNVKNICLLRRFRAVPRNLPATDAI  
 QRQLQALTRLETEFQRCCRQGHNHTCTWKAWEGLDGYCERELAIKTHPHSCCHYPPSPARDECFAHLAP  
 YPNYDRDILTLDL SRVTPNLMGQLCGSGRVL SKHKQIPGLIQNMTVRCCELPYEQACCGEEEKLAFIEN  
 LCGPRRNSWKDPALCCDLSPEDKQINCFNTNYLRNVALVAGDTGNATGLGEQGPTRGTDANPAPGSKEE

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007899

**ORF Size:** 1680 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\\_007899.1](#), [NM\\_007899.2](#), [NP\\_031925.2](#)

**RefSeq Size:** 1900 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 13601

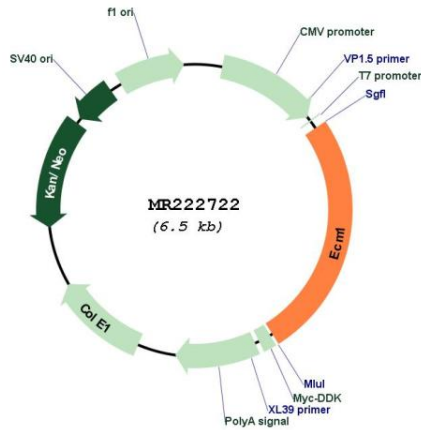
**UniProt ID:** [Q61508](#)

**Cytogenetics:** 3 40.91 cM

**MW:** 62.8 kDa

**Gene Summary:** Involved in endochondral bone formation as negative regulator of bone mineralization. Stimulates the proliferation of endothelial cells and promotes angiogenesis. Inhibits MMP9 proteolytic activity (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222722