OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC216470

Mmp13 (NM_008607) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp13 (NM_008607) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mmp13
Synonyms:	Cl; Clg; Mmp; MMP-1; MMP-13; Mmp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC216470 representing NM_008607
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATTCAGCTATCCTGGCCACCTTCTTCTTGTTGAGCTGGACTCCCTGTTGGTCCCTGCCCCTTCCCT
ATGGTGATGATGATGATGATGACCTGTCTGAGGAAGACCTTGTGTTTGCAGAGCACTACTTGAAATCATA
CTACCATCCTGCGACTCTTGCGGGAATCCTGAAGAAGTCTACAGTGACCTCCACAGTTGACAGGCTCCGA
GAAATGCAATCTTTCTTTGGCTTAGAGGTGACTGGCAAACTTGATGATCCCACCTTAGACATCATGAGAA
AACCAAGATGTGGAGTGCCTGATGTGGGTGAATACAATGTTTTCCCTAGAACACTCAAATGGTCCCAAAC
GAACTTAACTTACAGGATTGTGAACTATACTCCTGATATGTCCCATTCTGAAGTGGAGAAGGCCTTCAGA
AAAGCCTTCAAGGTCTGGTCTGATGTGACACCACTGAATTTCACCAGAATCTATGATGGCACTGCTGACA
TCATGATATCTTTTGGGACTAAAGAACATGGTGACTTCTACCCATTTGATGGACCTTCTGGTCTTCTGGC
ACACGCTTTTCCTCCTGGACCAAACTATGGTGGGGATGCCCATTTTGATGATGATGAAACCTGGACAAGC
AGTTCCAAAGGCTACAACTTGTTTATTGTTGCTGCCCATGAGCTTGGCCACTCCCTAGGTCTGGATCACT
CCAAGGACCCAGGAGCCCTGATGTTTCCCATCTATACCTACACTGGCAAAAGCCATTTCATGCTTCCTGA
TGATGACGTTCAAGGAATTCAGTTTCTTTATGGTCCAGGCGATGAAGACCCCAACCCTAAGCATCCCAAA
ACACCAGAGAAGTGTGACCCAGCCCTATCCCTTGATGCCATTACCAGTCTCCGAGGAGAAACTATGATCT
TTAAAGACAGATTCTTCTGGCGCCTGCACCCTCAGCAGGTTGAGGCTGAGCTCTTTTTGACAAAGTCCTT
TTGGCCAGAACTTCCCAACCATGTGGATGCTGCATATGAACATCCATCCCGTGACCTTATGTTTATCTTT
AGAGGGAGAAAATTCTGGGCTCTGAATGGTTATGACATTCTGGAAGGTTATCCCAGAAAAATATCTGACC
TGGGATTCCCAAAAGAGGTGAAGAGACTGAGCGCTGCGGTTCACTTTGAGAACACGGGGAAGACCCTCTT
CTTCTCTGAGAACCACGTGTGGAGTTATGATGATGTTAACCAGACTATGGACAAAGATTATCCCCGCCTC
ATAGAAGAGGAATTCCCTGGAATTGGCAACAAAGTAGATGCTGTCTATGAGAAAAATGGCTATATCTACT
TTTTCAATGGGCCCATACAGTTTGAATACAGTATCTGGAGTAATCGCATTGTGAGAGTCATGCCAACAAA
TTCCATATTGTGGTGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008607

Insert Size: 1419 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_008607.2, NP_032633.1
RefSeq Size:	2675 bp
RefSeq ORF:	1419 bp
Locus ID:	17386
UniProt ID:	P33435
Cytogenetics:	9 A1
Gene Summary:	This gene encodes a member of the matrix metalloproteinase family that plays a role in wound healing, skeletal development and bone remodeling. The encoded protein is activated by the removal of an N-terminal activation peptide to generate a zinc-dependent endopeptidase enzyme that can cleave various native collagens, including types I - IV, X and XIV. Mice lacking the encoded protein display profound defects in growth plate cartilage as well as a delay in the endochondral bone development. Lack of the encoded protein also impairs the wound healing process due to reduced keratinocyte migration and vascular density at the wound site. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Jun 2015]