

## Product datasheet for **MC220737**

### **Mep1b (NM\_008586) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mep1b (NM_008586) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mep1b
Synonyms:	Mep-1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220737 representing NM\_008586  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATGCCCGGCATCAGCCTTGGTTTCTGGTTTTGCCACATTTCTCCTGGTTTCTGGTTTCCAGCTC  
 CGGAAAAGTTTGTCAAAGACATAGATGGAGGAATTGACCAAGACATATTTGATATTAACCAAGGTTTGGG  
 TCTGGACCTTTTTGAGGGAGACATCAAACCTCGAGGCAAATGGGAAGAATCCATCATTGGAGACCACAAG  
 AGATGGCCACATAACCATTCCATATGTTCTAGAGGACAGCTTGGAAATGAATGCTAAAGGAGTTATCCTCA  
 ATGCTTTTGGAGCCTATCGCCTTAAAACATGCATTGACTTCAAGCCTTGGTCCGGAGAAGCTAACTATAT  
 CTCAGTGTTCAGGGCAGTGGGTGCTGGTCTTCAGTGGGAAACATTCATGCTGGGAAGCAGGAGTTGTCC  
 ATTGGGACAAACTGTGACAGAATAGCAACAGTTCAGCATGAGTTCCTCCACGCCCTGGGATTCTGGCATG  
 AGCAGTCAGTGTGACCGGGATGATTACGTCAATATAGTTTGGGACAGGATTACGCCAGGCAAGGAACA  
 CAACTTCAACATCTACAATGACAGTGTGTCTGATTCCCTGAATGTCCCATATGACTACACCTCAGTAATG  
 CACTACAGTAAAACCGCTTCCAGAACGGGACAGAGTCTACCATCGTCAGGAAATCTCAGAGTTGAGG  
 ACGTGATTGGCCAACGAATGGACTTCAGTGACTATGACCTTCTGAAGCTAAATCAGCTGTATAACTGCAC  
 TTCTTCTTGGAGTTTATGGACTCCTGTGATTTTGAATTGGAAAAATCTGTGGCATGATCCAAAGTTTCG  
 GGGGATAGTGTGACTGGCAGCGGGTTTACAGGTTTCTCAGTGGCCAGAGAGCGACCACTCCAAGATGG  
 GCCAGTGCAAAGACTCTGGCTTCTTCATGCATTTCAACACTAGCATTTTGAATGAGGGGGCCACGGCGAT  
 GTTGGAGAGCAGACTGTTGTACCCCAAGAGAGGGTTTCACTGCTTGGAGTTTTATCTGTACAACAGTGG  
 AGTGGAAATGACCAACTGAACATTTACACCCGGGAGTACACTACAGGCCAGCAGGGTGGTGTTTAAACC  
 TTCAGAGACAAAATAAAGAGGTACCCATTGGGAGCTGGCAACTTCACTATGTAACACTGCAAGTACTAA  
 AAAGTTTTCGAGTGGTGTGTTGAAGGACTCAGAGGCCCTGGCACGTATCAGGTGGTCTGTCTATCGATGAC  
 ATCAATCTCTCAGAAAACAGGTGTCTCACCATATCTGGCACATACAGAATTTACACAGATTCTAGGCG  
 GCCAGGACACATCTGTATACAGTCTCCATTTTATTCTTCTAAAGGTTACGCTTTTTCAGATCTACATGGA  
 TCTAAGATCCTCAACAAATGTAGGAATTTATTTCCACCTGATCTCCGGTGCCAATGATGATCAATTACAG  
 TGGCCATGCTCTGGCAACAAGCTACAATGACACTCTTGGATCAAATCCTGACATCCGACAGCGTATGT  
 TCAACCAGCGGAGTATAACCACAGACCAACGATGACCAGTGATAATGGAAGCTACTTTTGGGACAGGCC  
 TTCCAAGTGGGAGTGACGGATGTTTTCCCTAACGGAAGTCACTTATAGCAGAGGTATAGGCTATGGAACG  
 ACTGTCTTCATAACCCGAGAGAGGCTGAAGAGCAGAGAGTTCATAAAAGGAGATGACATTTACATCTTAC  
 TGAAGTGTGAAGACATATCTCACCTCAATTCTACATCAGCTGTCCCGACCCAGTCCCACCTTGGCTGT  
 CCATAATGCCTGCTCTGAGGTTGTATGTGAGAAGGTTGGCATCTGTGTTGTCCAAGATGGCAGAGCTGAG  
 TGCAAGTGTCTGCAGGAGAAGACTGGTGGTACATGGGCAAAAGGTTGAGAAGAGAGGGTCCACCCGAG  
 AACTGTTATCATCGCTGTTTCTCCACGGTACCAGTGTGCTGTGATGCTAATCATCACTCTCGTCAG  
 TGTCTACTGCACCAGGAGAAATATCGTAAGAAGGCTAGAGCAAATACGGCAGCCATGACTCTAGAAAAC  
 CAACATGCGTTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2288\\_a03.zip](https://cdn.origene.com/chromatograms/ja2288_a03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008586

**Insert Size:** 2115 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](mailto: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\\_008586.2](#), [NP\\_032612.2](#)

**RefSeq Size:** 2286 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 17288

**UniProt ID:** [Q61847](#)

**Cytogenetics:** 18 11.81 cM

**Gene Summary:** Membrane metalloproteinase that sheds many membrane-bound proteins. Exhibits a strong preference for acidic amino acids at the P1' position (PubMed:11278902). Known substrates include: FGF19, VGFA, IL1B, IL18, procollagen I and III, E-cadherin, KLK7, gastrin, ADAM10, tenascin-C. The presence of several pro-inflammatory cytokine among substrates implicate MEP1B in inflammation. It is also involved in tissue remodeling due to its capability to degrade extracellular matrix components (By similarity).[UniProtKB/Swiss-Prot Function]