

## Product datasheet for **RR207167**

### **Mep1a (NM\_013143) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mep1a (NM_013143) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mep1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR207167 representing NM\_013143  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTGGACTACCTGTGTGCTTCTCTCACTGAGTTTTTCTGCCACATTGCAGCTGTGTCCATTC  
 AGCATCTTTCGACTGGACATGACCACGATGATGTAGACGTTGGTGAACAACAGAAGGACATTTTCAGAAAT  
 CAACTCAGCTGCAGGCCCTGAACCTTTTTCAAGGGGACATCCTTCTGCCCAGAACCAGAAATGCCCTGAGA  
 GATCCGTC AAGCAGATGGAAGCCCCCATTCCATACATTCTGGCTGACAACTCTGGATCTGAACGCCAAAG  
 GAGCCATCCTCAATGCCTTTGAGATGTTCCGCCTCAAGTCTTGTGTGGACTTCAAGCCCTATGAGGGGGA  
 GAGCTCGTACATCATCTCCAGCAGTTTTCTGGGTGCTGGTCTATGGTCGGTGATCAACACGTGGGACAG  
 AATATTTCCATTGGTGGGGCTGCGACTATAAGGCCATCATTGAACATGAGATCTGCATGCTCTGGGAT  
 TCTTCCATGAGCAGTCAAGGACTGACCGGGATGATTATGTGAACATCTGGTGAATGAAATATGACAGA  
 TTATGAACATAATTTCAACACGTATGATGACAAGACCATCACAGACCTCAACACACCCTATGATTATGAG  
 TCCTTGATGCACTATGGGCCATTTTCATTTAACAAGAATGAAACCATCCCACCATCACTACCAAGATCC  
 CTGAGTTCAACGCCATCATTGGACAGCGCCTGGATTTCACTGCCACTGATTTAACGAGACTGAATCGGAT  
 GTACAACCTGCACCAGAACACATACCCTGCTGGACCACTGTGCGTTTGAGAAGACCAACATCTGTGGAATG  
 ATCCAGGGGACCAGAGATGATGCTGACTGGGTTTCATGAGGACAGCAGTCAGCCTGGACAAGTGGATCACA  
 CCTTGGTGGGACGGTGCAAAGCTGCTGGCTACTTCATGTACTTCAATACCAGCTCGGGGGTGACCGGAGA  
 GGTAGCCCTTCTGGAGTCTGGATCCTTACCCCAAGAGGAAGCAGCAGTGTTCGAGTTTTTTATAAG  
 ATGACAGGAAGCCCTTCAGACAGACTCCTCATCTGGGTGAGAAGGGACGACAACACGGGCAACGTGCGCC  
 AGCTGGCCAAGATCCAGACTTTTCAAGGAGATTCTGATCACAACCTGGAATTTGCTCAGTGACACTCAA  
 CGAAGAGAAGAAATTTTCGCTATGTTTTCCAGGGTACCAAAGGTGACCCTGGTAACCTCAGATGGCGGTATT  
 TACCTTGATGACATCACTCTGACAGAAACCCCTGCCCTACAGGGGTTTGACCATCCGGAATATCTCCC  
 AGGTCCTTGAGAACACAGTGAAAGGGGACAGGCTCGTGAGCCCTAGGTTCTACAATTCAGGGGTTATGG  
 TTTTGGGGTGACCTTGTACCCCAATGGTAGAATCACCAGTAACTCTGGCTACCTGGGACTCGCTTCCAC  
 TTGTACAGTGGGGATAACGATGTGATTCTGGAGTGGCCAGTGGAGAACGAGCAGGCCATAATGACCATCC  
 TGGACCAGGAACCTGATGCCAGGAACAGGATGTCCTTGAGTTTGATGTTCACTACCTCCAAGTACCAAAC  
 ATCTTCAGCTATAAATGGCTCTGTCTGCTGGGACAGGCCAACCAAGTTGGAGTCTATGATAAGGACTGT  
 GATTGTTTTAGAAGCATTGACTGGGTTGGGGTCAAGCCATTTCCACCAGATGCTGATGAGAAGAAAT  
 TCCTTAAAGATGACACCCTCATCATCTTCGTGGACTTTAAAGACCTTACCCACTTGAGGCAGACTGAAGT  
 CCCCATTTCCAGCAGAAGCGTGATACCCCGAGGACTCCTTCTGCAAGGCCAGGAGCCTCTTGCTTGGGA  
 GACTCCAGAATAGCCATGATGGAGGAATCCCTGCCAAGAAGGCTGGACCAGAGACAGCCAGCAGACCAA  
 AGCGCTCAGTGGAAAATACTGGTCCCATGGAGGACCACAACCTGGCCACAGTACTTCAGAGACCCATGTGA  
 CCCAAACCCTTGGCAGAATGAAGGCACCTGTGTGAACGTAAGGGGAATGGCCAGCTGCAGGTGCGTCTCT  
 GGGCATGCCTTTTTCTACACAGGGGAGCGCTGTCAGGCTATGCATGTGCACGGAAGCTTGTGGGCTGC  
 TCATTGGCTGCATCACTGCTTTGATCTTCTGACCTTCATCACATTCTCCAACACTTACCAAAAGCTGAG  
 GCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207167 representing NM\_013143  
 Red=Cloning site Green=Tags(s)

MLWTLPVCLLSLFSAHIAAVSIQHLSTGHDDDDVDVGEQQKDISEINSAAGLNLFQGDILLPRTRNALR  
 DPSSRWKPPIPYILADNLDLNAKGAILNAFEMFRLKSCVDFKPYEGESSYIIFQQFSGCWSMVGQDQHVGG  
 NISIGEGCDYKAIIEHEILHALGFFHEQSRTDRDDYVNIWWNEIMTDYEHNFNTYDDKTIIDLNTPYDYE  
 SLMHYGPF SFNKNETIPTITTTKIPEFNAIIGQLDFSATDLTRLNRMYNCTRHTLLDHCAFETNICGM  
 IQGTRDDADWVHEDSSQPGQVDHTLVGRCKAAGYFMYFNTSSGVTGEVALLESRI LYPKRKQQCLQFFYK  
 MTGSPSDRLLIWVRRDDNTGNVRQLAKIQTFQGDSDHNWKIAHVTLNEEKKFRYVFQGTGKDPGNSDGGI  
 YLDDITLTETPCPTGVWVIRNISQVLENTVKGDRLVSPRFYNSEGYGFGVTLYPNGRITSNSGYLGLAFH  
 L YSGDNDVILEWPVENEQAIMTILDQEPDARNRMSLSLMFTTSKYQTSSAINGSVIWDRPTKGVYDKDC  
 DCFRSIDWGWGQAI SHQMLMRRNFLKDDTLIIFVDFKDLTHLRQTEVPISSRSVIPRGLLLQGQEPLALG  
 DSRIAMMEESLPRRLDQRQPSRPKRSVENTGPMEDHNWPQYFRDPCPNPCQNEGT CVNVKGMASCRCVS  
 GHAFYTGERCQAMHVHGSLLGLLIGCITALIFLTFITFSNTYQKLRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013143

**ORF Size:** 2244 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\\_013143.1](#), [NP\\_037275.1](#)

**RefSeq Size:** 2928 bp

**RefSeq ORF:** 2247 bp

**Locus ID:** 25684

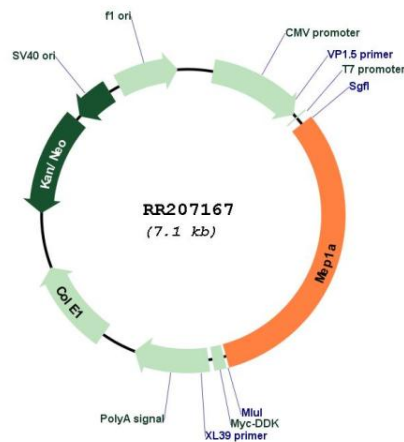
**UniProt ID:** [Q64230](#)

**Cytogenetics:** 9q13

**MW:** 85.1 kDa

**Gene Summary:** alpha subunit of meprin metalloproteases, which form homotetramers and heterodimers with beta subunit Mep1b [RGD, Feb 2006]

### Product images:



Circular map for RR207167