

Product datasheet for **MR226519**

Mep1b (NM_008586) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR226519 representing NM_008586
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGCCCGGCATCAGCCTTGGTTTCTGGTTTTGCCACATTTCTCCTGGTTTCTGGTTTCCAGCTC
 CGGAAAAGTTTGTCAAAGACATAGATGGAGGAATTGACCAAGACATATTTGATATTAACCAAGGTTTGGG
 TCTGGACCTTTTTGAGGGAGACATCAAACCTCGAGGCAAATGGGAAGAATCCATCATTGGAGACCACAAG
 AGATGGCCACATAACCATTCCATATGTTCTAGAGGACAGCTTGGAAATGAATGCTAAAGGAGTTATCCTCA
 ATGCTTTTGGAGCCTATCGCCTTAAAACATGCATTGACTTCAAGCCTTGGTCCGGAGAAGCTAACTATAT
 CTCAGTGTTCAGGGCAGTGGGTGCTGGTCTTCAGTGGGAAACATTCATGCTGGGAAGCAGGAGTTGTCC
 ATTTGGGACAACTGTGACAGAATAGCAACAGTTCAGCATGAGTTCCTCCACGCCCTGGGATTCTGGCATG
 AGCAGTCAAGTGTGACCGGGATGATTACGTCAATATAGTTTGGGACAGGATTACGCCAGGCAAGGAACA
 CAACTTCAACATCTACAATGACAGTGTGTCTGATTCCCTGAATGTCCCATATGACTACACCTCAGTAATG
 CACTACAGTAAAACCGCTTCCAGAACGGGACAGAGTCTACCATCGTCAGGAGAATCTCAGAGTTGAGGG
 ACGTGATTGGCCAACGAATGGACTTCAGTGACTATGACCTTCTGAAGCTAAATCAGCTGTATAACTGCAC
 TTCTTCTTGGAGTTTATGGACTCCTGTGATTTTGAATTGGAAAAATCTGTGGCATGATCCAAAGTTTCG
 GGGGATAGTGTGACTGGCAGCGGGTTTACAGGTTTCTCAGTGGCCAGAGAGCGACCACTCCAAGATGG
 GCCAGTGCAAAGACTCTGGCTTCTTCATGCATTTCAACACTAGCATTTTGAATGAGGGGGCCACGGCGAT
 GTTGGAGAGCAGACTGTTGTACCCCAAGAGAGGGTTTCACTGCTTGGAGTTTTATCTGTACAACAGTGG
 AGTGGAAATGACCAACTGAACATTTACACCCGGGAGTACACTACAGGCCAGCAGGGTGGTGTTTAAACC
 TTCAGAGACAAAATAAAGAGGTACCCATTGGGAGCTGGCAACTTCACTATGTAACACTGCAAGTACTAA
 AAAGTTTTCGAGTGGTGTGTTGAAGGACTCAGAGGCCCTGGCACGTATCAGGTGGTCTGTCTATCGATGAC
 ATCAATCTCTCAGAAAACAGGTGTCTCACCATATCTGGCACATACAGAATTTACACAGATTCTAGGCG
 GCCAGGACACATCTGTATACAGTCTCCATTTTATTCTTCTAAAGGTTACGCTTTTCCAGTCTACATGGA
 TCTAAGATCCTCAACAAATGTAGGAATTTATTTCCACCTGATCTCCGGTGCCAATGATGATCAATTACAG
 TGGCCATGTCTTGGCAACAAGCTACAATGACACTCTTGGATCAAATCCTGACATCCGACAGCGTATGT
 TCAACCAGCGGAGTATAACCACAGACCCAACGATGACCAGTGATAATGGAAGCTACTTTTGGGACAGGCC
 TTCCAAGGTGGGAGTGACGGATGTTTTCCCTAACGGAAGTCACTTTCAGCAGAGGTATAGGCTATGGAACG
 ACTGTCTTCATAACCCGAGAGAGGCTGAAGAGCAGAGAGTTCATAAAAGGAGATGACATTTACATCTTAC
 TGAAGTGTGAAGACATATCTCACCTCAATTCTACATCAGCTGTCCCCGACCCAGTCCCACCTTGGCTGT
 CCATAATGCCTGCTCTGAGGTTGTATGTGAGAAGGTTGGCATCTGTGTTGTCCAAGATGGCAGAGCTGAG
 TGCAAGTGTCTGCAGGAGAAGACTGGTGGTACATGGGCAAAAGGTGTGAGAAGAGAGGGTCCACCCGAG
 ACACTGTTATCATCGCTGTTTCTCCACGGTCAACGGTGTGCTGTGATGCTAATCATCACTCTCGTCAG
 TGTCTACTGCACCAGGAGGAAATATCGTAAGAAGGCTAGAGCAAATACGGCAGCCATGACTCTAGAAAAC
 CAACATGCGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226519 representing NM_008586
 Red=Cloning site Green=Tags(s)

MDARHQPWFLVFATFLLVSGLPAPEKFVKDIDGGIDQDIFDINQGLGLDLFEGDIKLEANGKNSIIGDHK
 RWPHTIPYVLEDSLEMNAKGVILNAFERYRLKTCIDFKPWSGEANYISVFKGSGCWSSVGNIHAGKQELS
 IGTNCDRIATVQHEFLHALGFWHEQSRADRDYVIVVDRIQPGKEHNFNIYNDVSDSLNVPYDYTSVM
 HYSKTAFQNGTESTIVTRISEFEDVIGQRMDFSDYDLLKLNQLYNCTSSLFMDSCDFELENICGMIQSS
 GDSADWQRVSQVLSGPESDHSKMGQCKDSGF FMHFNTSILNEGATAMLESRLLYPKRGFQCLEFYLYNSG
 SGNDQLNIYTREYTTGQQGGVLT LQRQIKEVPIGSWQLHYVTLQVTKFRVVFEGLRGPGTSSGGLSIDD
 INLSETRCPHHIWHIQNFTQILGGQDTSVYSPPFYSSKGYAFQIYMDLRSSSTNVGIYFHLISGANDDQLQ
 WPCPWQATMTLLDQNPDIRQRMFNQRSITTDPTMTSDNGSYFWRPSKVGVTDFVNGTQFSRGIGYGT
 TVFITRERLKSREFIKGDDIYILLTVEDISHLNSTSAVDPVPTLAVHNACSEVVCQNGGICVVQDGRAE
 CKCPAGEDWWMGKRCEKRGSTRDVTVIIAVSSTVTVFVAVMLIITLVSVYCTRRKYRKKARANTAAMTLEN
 QHAF

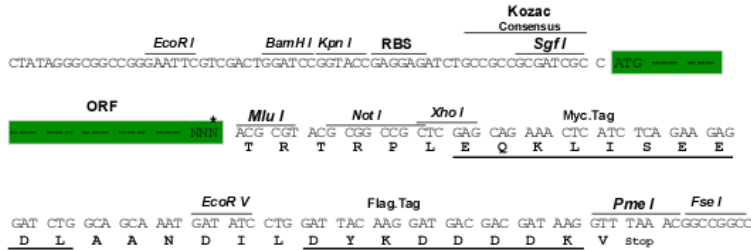
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_g02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



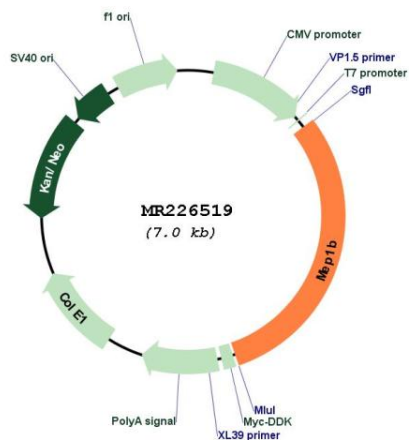
* The last codon before the Stop codon of the ORF

ACCN: NM_008586

ORF Size: 2112 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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
MW:	80 kDa
Gene Summary:	<p>Membrane metallopeptidase 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]</p>

Product images:



Circular map for MR226519