

Product datasheet for **MR210203**

Mipep (NM_027436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mipep (NM_027436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mipep
Synonyms:	5730405E07Rik; MIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210203 representing NM_027436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCTGGCGCCGGGCACGGTACGCCCGCCGGCTGTGCGGCCGGGAGCCGCGCGGCTCTGCAGG
 GACGCACAGGCCGAGCTGCGCCCGGGACGTCACTACTAGCTGGTCCCGGTGGCGCCGCTTCAACGT
 CAAGCCCCAGAGCCACCTATGGAACCTGTTGGGGAGCGCCGGGTCTTTTTGGAGTTCTTGAGCTCAGC
 ACCCTGAAGGATTCCAAGTTGCCAAGAGGAAGCCTTGAAGAAGACGGAGTGGCTGGTAGAGCGAGCAT
 GTTCCACACCCAGGGCCACAGACAGTCTCATTGACGAACTCTCGGATTGCCTGTGCAGAGTGGC
 TGACTTGGCGGACTTTGTGAAAATTGGACACCCAGACCCTGCATTAGAGAGGCTGCGCAAGAGGCTGC
 AGAAGTATTGGCACCATGGTGGAAAAGTTGAATACAAACGTGGAGCTGTATCAGAGTCTGCAAAGGTTAC
 TGGGTGATAAGAAGCTTATGGAGTCCCTTATGCGGAAACCAGGGCAGTGGCCGAACTATTTATGTTTGA
 TTTTGAATCAGTGAATCCATCTAGATGAAGAAAAGCGCAGAAGAGCAGTGGACCTCAATGTTAAGATC
 TTGGACTTGAGCAATGCTTTCCTCATGAGAACCACTTTCCCAACAAGATCCGGAAGAGTCTTACCAG
 AGCACATTCAGCACCACTTTGCCGTGACGGAAGCCACTTAATCATTGACGGCCTGCATGCAAGCCCTC
 CGATGACTTGGTTCGGGAGGCTGCTTATAAAATTTTCTTTATCCCAATGCCGATCAGTTGAAATGTTTA
 GAGGAATTGCTAAGCAGCAGAGACCTTCTGGCAAAATTAGTAGGTTATTCTACATTTTCCACAGGGCCC
 TCCAAGGAACCATAGCTCAGACTCCAGAGACTGTCATGCAGTTCCCTTGAAGCTATCTGAAAAGCTCTC
 TGAAAGAACTAGAAAAGATTTCAAGATGATGCAAGGAATGAAAACAAAATAAATCCTCAAAATTTAAA
 CTAATGCCTTGGGACCTCCCTACTACAGCGGTGTGATTTCGTGCAGAGAGGTATAATATTGAGCCAGTT
 TATACTGCCCGTTTTTATCCCTTGGAGCTTGCATGGAAGGCCTGAATGTCTTATTTAACAACCTGGG
 CATCACCTTATATGCAGAGCAGACCTTCAAAGGAGAGGTGTGGTGAATGACATCCGGAAGCTGGCTGTT
 GTTCATGAATCTGAAGGGCTGCTGGGTACATTTACTGTGATTTTTTCCAGAGAGCAAAACAGCCACAGC
 AGGATTGCCACTTCACCATCCGAGGAGGCAGATTAAGGAAGATGGCAGCTATCAGCTTCCAGTGGTCTG
 TCTCATGCTGAATCTTCTCATGCTTCCAGGGATTTCCCTACATTATTAACCTCCAGGAATGATGGAAAAT
 CTCTTCCATGAAATGGGCCATGCCATGCATTCAATGCTTGGACGAACTCGGTACCAACATGCTACTGGGA
 CCAGGTGCCCTACTGACTTTGCTGAAGTCCATCTATTCTGATGGAGTACTTTTCAAATGATTACCGAGT
 AGTCAGCCAGTTCGCCAAGCATTATCAGACTGGTCAGCCACTCCCGAAAGCTATGGTGTCTCGTCTCTGT
 GAGTCTAAGAAGTTTGCACAGCAGCAGAAATGCAGCTTCAAGTCTTTTATGCCGCCCTGGATCAAATCT
 ACCATGGCCAGCATCCCCTGAAGAAGTCAACCACAGATATCCTCATGGAAACACAAGAGCAGTTCATGG
 CTTGCCCTATGTTCTGACACTGCCTGGCAGCTGAGGTTCAAGCCACTCGTGGGATATGGTGCCAAGTAT
 TACTCATACCTGATGTCCAGGGCTGTGGCATCCATGATCTGGAAGGAGTCTTCTACAGGATCCTTTTA
 ACAGGGCCGCTGGGAACGCTACCGCAGAGAGATGTTGGCCCATGGTGGAGGCAAGGAGCCCATGCTTAT
 GATTCAAGGCATGCTGCAGAAGTGTCTTCCATCGATGACTTTGTGGATGCCCTCGTGTCTGACATGAAT
 CTGGACTTTGAAACGTTCTTCTGGATTCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210203 representing NM_027436
Red=Cloning site Green=Tags(s)

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MLLAAGARYARRLCGRGAAAALQGRTRGRSCARDVSTSWSPVGAFFNVKPKQSHLWNLGERRGLFGVPELS
TPEGFQVAQEEALKKTEWLVERACSTPPGPQTVLIFDELSDCLCRVADLADFVKIGHDPDAFREAAQEAC
RSIGTMVEKLNNTVELYQSLQRLLGDKKLMESLDAETRRVAELFMDFEISGIHLDEEKRRRAVDLNVKI
LDLSNAFLMRTNFPNKIRKSLLEPHIQHHFARDGSHLIIDGLHAEASDDLREAAKYKIFLYPNADQLKCL
EELLSSRDLLAKLVGYSTFSHRALQGTIAQTPETVMQFLEKLSEKLSERTRKDFKMMQGMKTKLNPQNSK
LMPWDPPIYSGVIRAERYNIEPSLYCFPLSLGACMEGLNVLFNKLLGITLYAEQTFKGEVWCNDIRKLAV
VHESEGLLGYIYCDFQRANKPQQDCHFTIRGGRLKEDGSYQLPVVVLMLNLPASRDPTLLTPGMMEN
LFHEMGHAMHSMGRTRYQHVTGTRCPTDFAEVPISILMEYFSDYRVVSQFQAKHYQTGPPLKAMVSRCL
ESKKVCTAAEMQLQVFAALDQIYHQHPLKKSTTDILMETQEYFGLPYVYVPTAWQLRFSHLVGYGAKY
YSYLMSRAVSMIWKECFLQDPFNRAAGERYRREMLAHGGGKEPMLMIQGMKQKPSIDDFVDALVSDMN
LDFETFFLDSK
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9102_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

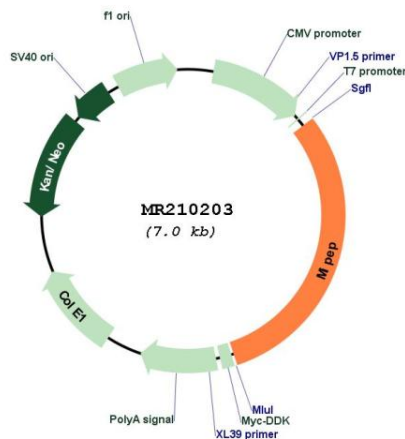
ACCN: NM_027436

ORF Size: 2133 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:	<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:	<u>NM_027436.3, NP_081712.2</u>
RefSeq Size:	2423 bp
RefSeq ORF:	2136 bp
Locus ID:	70478
UniProt ID:	<u>A6H611</u>
Cytogenetics:	14 D1
MW:	80.9 kDa
Gene Summary:	Cleaves proteins, imported into the mitochondrion, to their mature size.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR210203