

## Product datasheet for **RR214070**

### Mipep (NM\_031052) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mipep (NM_031052) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mipep
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR214070 representing NM\_031052  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCTGGCAGCCGGGACGCGGTATGCCTACCGGCTGTGCGGCCGGCAGCCGGCGGCTCTGCAGG  
 GACACGCAGGCCGAGCTGCGCCCGGAGCGTTAGCACTAGCTGGTCCCGGTGGGCGCTGCCTTTAACGT  
 CAAGCCCCAGGGCCACCTGTGGGACCTGTTGGGAGAGCGACGGGGTCTTTTTGGAGTTCTTGAGCTCAGC  
 ACCCTGAAGGATTCCAAGTTGCCAGGAGGAAGCCTTGAGGAAGACGGAGTGGCTGGTAGAGCGAGCAT  
 GTTCCACACCTCCAGGGCCACAGACAGTCTCATTTTTCGATGAGCTCTCGGATTGCCTCTGCAGAGTGGC  
 TGACTTGGCGGACTTTGTGAAAATTGGACACCCAGAGCAGGCGTTCAGAGAGGCTGCGCAGGAGGCTGC  
 AGAAGTATTGGCACCATGGTGGAAAAGTTGAATACGAATGTGAATTGTATCAGAGTCTGCAGAAATTAC  
 TAGATGACAAGAAGCTTATGGATTCCCTTGATGCAGAAACCAGGCGAGTAGCCGAACATTTATGTTTGA  
 TTTTGAATCAGTGAATCCATCTAGATGAAGAAAAGCGCAGAAGAGCCGTGGACCTCAATGTTAAGATC  
 TTGGACTTGAGTAGTGCTTTCTCATGGAAACCACTTTCCCATCAAGATCCAGAAGCATCTCTTACCAG  
 AGCACATTCAGCACCACTTTGCTCGTGATGGAAGGCATTTAGTCATCGATGGTCTACATGCGGAAGCCTC  
 CGATGACCTGGTTCGGGAGGCTGCTTATAAAATTTTCTTTATCCCAATGCTGATCAGTTGAAGTGTG  
 GAGGAGTTGCTAAGCAGCCGAGATCTTCTGGCAAACCTAGTAGGCTATTCTACCTTTTCCACAGGGCCC  
 TCCAGGGAACCATAGCCAGACTCCAGAGACTGTCATGCAGTTCCCTTGAGAAGCTATCTGAAAAGCTCTG  
 CGAAAGAACTAGAAAAGATTTTGAGATGATGCAAGGAATGAAAACAAAATAAATCCTCAAAATTTGAA  
 CTAATGCCTTGGGACCTCCCTACTACAGTGGTGTGATTTCGTGCAGAGAGGTATAATATTGAGCCAGTT  
 TATATTGCTCCATTCTTATCCCTTGAGCTTGCATGGAAGGCCTGAATGTCCTATTTAACAGACTGTTGGG  
 CGTCACCTTATATGCAGAACAGCCCTTCAAAGGAGAGGTGTGGTATTGATGTCCGGAAGCTGGCTGTT  
 GTTCATGAATCTGAAGGTTGCTGGGCTACATTTACTGTGATTTTTTCCAGCGAGCAAACAAGCCACAGC  
 AGGATTGCCACTTCACCATCCGAGGGGGCAGATTAAGGAAGATGGCAGCTATCAGCTCCAGTTGTGGT  
 TCTCATGCTGAATCTCCCTCATGCTTCCAGGGATTTCCCTACCTTATTAACCTCTGGGATGATGGAAAAT  
 CTCTTCCATGAAATGGGGCATGCCATGCACTCAATGCTCGGACGAACTCGGTACCAGCATGCTACTGGGA  
 CCAGGTGCCCTACTGACTTTGCTGAAGTCCGTCTATTCTGATGGAGTATTTTTCAAATGATTACCGAGT  
 AGTCAGCCAGTTTCCAAGCATTATCAGACTGGTCAGCCACTGCCGAAAGCTATGGTGTCTCGTCTCTGT  
 GAATCTAAGAAGTCTGTGCCGCCGAGAAATGCAGCTGCAGGCTTTTTATGCCGCCCTGGATCAAATCT  
 ACCATGGCCAGCATCCCCTGAAGAAGTCAACCACAGACATCCTCATGGAAACACAAGAGCAGTTTTATGG  
 CTTACCCTATGTTCTGACACTGCCTGGCAGCTGAGGTTACGCCACCTGGTGGGATATGGCGCAAGTAT  
 TACTCATACCTCATGTCCAGGGCTGTGGCATCCATGGTCTGGAAGGAGTGCTTCTACAGGATCCCTTTA  
 ACAGGGCCCGGGGAGCGCTACCCGAGAGAGATGTTAGCCCAGGTGGGGGCAAGGAACCTATGCTCAT  
 GATTCAAGGCATGCTGCAGAAATGTCCTTCCATCGATGATTTTGTGGATGCCCTTGTGTCTGACTTGAAT  
 CTGGACTTTGAACTTTCTTCATGGATTCTAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR214070 representing NM\_031052  
 Red=Cloning site Green=Tags(s)

MLLAAGTRYAYRLCGRRAAAALQGHAGRSCARSVSTSWSPVGAANVVKPQGHLDLLGERRGLFGVPELS  
 TPEGFQVAQEEALRKTEWLVERACSTPPGPQTVLIFDELSDCLCRVADLADFVKIGHPEQAFREAAQEAC  
 RSIGTMVEKLNNTVELYQSLQKLLDDKKLMSLDAETRVAELFMDFEISGIHLDEEKRRRAVDLNVKI  
 LDLSSAFLMGTNFPKIQKHLLEPHIQHHFARDGRHLVIDGLHAEASDDLVREAAKYIFLYPNADQLKCL  
 EELLSSRDLLANLVGYSTFSHRALQGTIAQTPETVMQFLEKLSEKLCERTKDFEMMQGMKTKLNPQNSE  
 LMPWPPYYSGVIRAERYNIEPSLYCPFLSLGACMEGLNVLFNRLLGVTLYAEQPFKGEVWCIDVRKLAV  
 VHESEGLLGYIYCDFQRANKPQQDCHFTIRGRLKEDGSYQLPVVVLMLNLPHASRDFPTLLTPGMMEN  
 LFHEMGHAMHMLGRTRYQHVTGTRCPTDFAEVPISILMEYFSDYRVVSQFQAKHYQTGQPLPKAMVSRLC  
 ESKKVCAAEMQLQVFYAALDQIYHQHPLKKSTTDILMETQEYFGLPYVYVPTAWQLRFSHLVGYGAKY  
 YSYLMSRAVASMVWKECFLQDPFNRAAGERYRREMLAHGGGKEPMLMIQGMKQKPSIDDFVDALVSDLN  
 LDFETFFMDSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_031052

**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:**

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\\_031052.2](#), [NP\\_112314.2](#)

**RefSeq Size:** 2393 bp

**RefSeq ORF:** 2136 bp

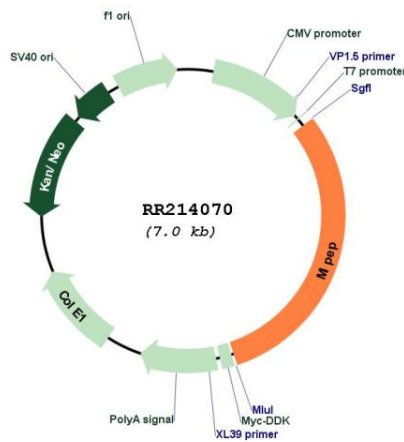
**Locus ID:** 81684

**Cytogenetics:** 15p12

**MW:** 80.9 kDa

**Gene Summary:** enzyme that catalyzes the removal of amino-terminal octapeptides from mitochondrial proteins [RGD, Feb 2006]

**Product images:**



Circular map for RR214070