

Product datasheet for RR214092

Map1b (NM_019217) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map1b (NM_019217) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map1b
Synonyms:	Mtap1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214092 representing NM_019217 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGCGACCGTGGTGGTGAAGCCACCGAGCCGGAGCCATCGGGCAGCATCGGCAACCCGGCGGCGACCA
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CACTGGCCACCCAAAAAGATCTCACTGGCCAGGTGCCACCCCCAGTGAAACAGGTCAAGTTGAAACA
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Protein Sequence:

>RR214092 representing NM_019217
 Red=Cloning site Green=Tags(s)

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 NIKLNSASILPEMEGLSEFTEYLSSEVVPSPFDILEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGF
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 SPD LGVFLNVPENLKNPEPNIKMKRSTEEACFTLQYLNKLSMKPEPLFRSVGNATEPVILFQKMGVVKL
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 GNSTQYNIILEGLEK L K H L D F L K Q P L A T Q K D L T G Q V S T P P V K Q V K L Q R A D S R E S L K P A T K P L S S K S V R K E
 SKEEAPEATKASQVEKTPKVESKEKVI V K K D K P G K V E S K P S V T E K E V P S K E E Q S P V K A E V A E K A A T E S K P
 K V T K D K V V K K E I K T K P E E K K E E K P K K E V A K K E D K T P L K K D E K P K E E A K K E I K K E I K K E E K K E L K K E V K K
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 I D V A K D I K P Q L E L I E D E E K L K E T E P G E A Y V I Q K E T E V S K G S A E S P D E G I T T T E G E G E C E Q T P E E L E P V E K
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 E K R E S V A S G D D R A E E D M D E A L E K G E A E Q S E E E G E E E E D K A E D A R E E D H E P D K T E A E D Y V M A V D K A A E A G
 V T E D Q Y D F L G T P A K Q P G V Q S P S R E P A S S I H D E T L P G G S E S E A T A S D E E N R E D Q P E E F T A T S G Y T Q S T I E I
 S S E P T P M D E M S T P R D V M T D E T N N E E T E S P S Q E F V N I T K Y E S S L Y S Q E Y S K P V V A S F N G L S D G S K T D A T D G
 R D Y N A S A S T I S P P S M E E D K F S K S A L R D A Y R P E E T D V K T G A E L D I K D V S D E R L S P A K S P S L S P S P P S P I E
 K T P L G E R S V N F S L T P N E I K A S A E G E A T A V V S P G V T Q A V V E E H C A S P E E K T L E V V S P S Q S V T G S A G H T P Y Y
 Q S P T D E K S S H L P T E V T E N A Q A V P V S F E F T E A K D E N E R S S I S P M D E P V P D S E S P I E K V L S P L R S P P L I G S E
 S A Y E D F L S A D D K A L G R R S E S P F E G K N G Q G F S D K E S P V S D L T S D L Y Q D K Q E E K S A G F I P I K E D F S P E K K A
 S D A E I M S S Q S A L A L D E R K L G G D G S P T Q V D V S Q F G S F K E D T K M S I S E G T V S D K S A T P V D E G V A E D T Y S H M E
 G V A S V S T A S V A T S S F P E P T T D D V S P S L H A E V G S P H S T E V D D S L S V S V V Q T P T T F Q E T E M S P S K E E C P R P M
 S I S P P D F S P K T A K S R T P V Q D H R S E Q S S M S I E F G Q E S P E H S L A M D F S R Q S P D H P T V G A G M L H I T E N G P T E V
 D Y S P S D I Q D S S L S H K I P P T E E P S Y T Q D N D L S E L I S V S Q V E A S P S T S S A H T P S Q I A S P L Q E D T L S D V V P P R
 D M S L Y A S L A S E K V Q S L E G E K L S P K S D I S P L T P R E S S P T Y S P G F S D S T S G A K E S T A A Y Q T S S S P I D A A A A
 E P Y G F R S S M L F D T M Q H H L A L S R D L T T S S V E K D N G G K T P G D F N Y A Y Q K P E S T T E S P D E E D Y D Y E S H E K T I Q
 A H D V G G Y Y Y E K T E R T I K S P C D S G Y S Y E T I E K T T K T P E D G G Y S C E I T E K T T R T P E E G G Y S Y E I S E K T T R T P
 E V S G Y T Y E K T E R S R R L L D D I S N G Y D D T E D G H T L G D C S Y S Y E T T E K I T S F P E S E S Y S Y E T T K T T R S P D T
 S A Y C Y E T M E K I T K T P Q A S T Y S Y E T S D R C Y T P E R K S P S E A R Q D V D L C L V S S C E F K H P K T E L S P S F I N P N L
 E W F A G E E P T E E S E K P L T Q S G G A P P S G G K Q Q G R Q C D E T P P T S V S E S A P S Q T D S D V P P E T E E C P S I T A D A N
 I D S E D E S E T I P T D K T V T Y K H M D P P P A P M Q D R S P S P R H P D V S M V D P E A L A I E Q N L G K A L K K D L K E K A K T K K
 P G T K T K S S S P V K K G D G S K P S A A S P K P G A L K E S S D K V S R V A S P K K K E S V E K A M K T T T T P E V K A T R G E E K D
 K E T K N A A N A S A S K S V K T A T A G P G T T K T A K S S T V P P G L P V Y L D L C Y I P N H S N S K N V D E V F F K R V R S S Y Y V V
 S G N D P A A E E P S R A V L D A L L E G K A Q W G S N M Q V T L I P T H D S E V M R E W Y Q E T H E K Q Q D L N I M V L A S S T V M V M Q
 D E S F P A C K I E L

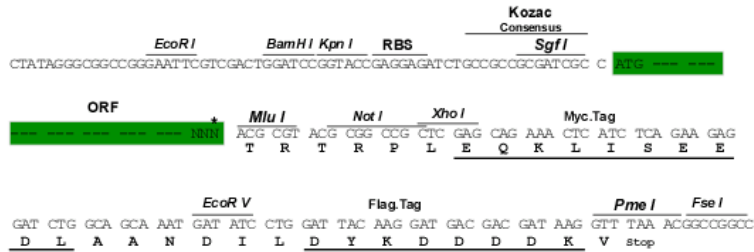
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Restriction Sites:

Sgfl-MluI

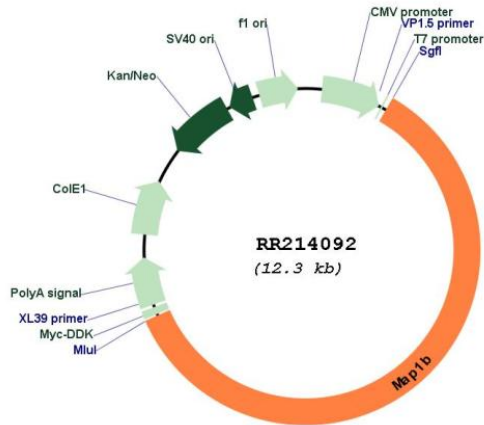
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_019217

ORF Size: 7383 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:	NM_019217.1 , NP_062090.1
RefSeq Size:	11884 bp
RefSeq ORF:	7386 bp
Locus ID:	29456
UniProt ID:	P15205
Cytogenetics:	2q12
MW:	269.7 kDa
Gene Summary:	binds microtubules and may function as microtubule cross-linkers [RGD, Feb 2006]