

Product datasheet for **MR225265**

Map2 (NM_001039934) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map2 (NM_001039934) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map2
Synonyms:	G1-397-34; MAP-2; Mtap-2; Mtap2; repro4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225265 representing NM_001039934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGAGCGGAAAGATGAAGGAAAGGCACCACTGGACATCAGCCTCACTCACAGAGGCAGCTG
 CACACCCTCACTCTCCAGAGATGAAGGACCAGGTGGGGCAGGGGAAGGGCTGAGCCGCAACGCCAATGG
 ATTTCCATACAGAGAGGAGGAGGAAGGCCTTTGGGGAGCACAGGTACAGGGCACCTATTCAGATAACC
 AAAGAGAACGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAACAGCAGAGGAGGTATCTGCAAGGA
 TAGTTCAAGTAGTCACAGCTGAAGCTGTAGCAGTCTGAAAGGTGAACAAGAGAAGGAAGCCCAACACAA
 GGACCAGCCTGCAGCTCTGCCTTAGCAGCCGAAGAAACAGCTAATCTGCCACCTTCGCCACCACCATCG
 CCAGCCTCAGAACAAACAGCCACAGTGGAGGAAGCAGCAAGTGGTACTTGGCTCAGGCTCCTGGTCTT
 TTAACAGGCGAAGGATAAAGTCACTGATGGAATAAGCAAGAGCCAGAGAAACGTTCTTCCCTCCCAAG
 ACCTTCTCCATCTCCCTCCTCGAGGGGTGTATCAGGAGACAGGGAGGAGAATCTTTCTCTCTGAAT
 AGTCCATCTCTCAGCAGCAGCCAGCACAGGTGAGAACCAATTCGAGAGCAGGAAAAAGTGGCACCT
 CCACACCTACTACCCCTGGATCAACTGCAATCACCCCTGGAACCTCCCAAGCTACTCTTACGTACCCC
 AGGCACCCCGGAACCCCGAGCTACCCAGGACACCAGGAACCCCAATCTGGCATCTGGTGGCCAGT
 GAGAAGAAAGTTGCCATCATCCGCACTCTCCAAGTCCCAAGTACTCTAAGCAGCTTCGGCTTATTA
 ACCAACCACTGCCGACCTGAAGAATGTCAAGTCCAAAATCGGATCAACTGACAACATCAATACCAGCC
 TAAGGGGGGTGAGTTAGGATTTAAACAAGAAGATCGATTTTAGCAAAGTTCAGTCAAGATGTGGTTCC
 AAGGATAACATCAAACATTCTGCTGGGGCGGAAATGTACAAATGTTACTAAGAAGATAGACTTAAGCC
 ATGTGACATCAAATGTGGCTCTCTAAAGAACATCCGTACAGGCCAGGTGGTGGACGTGAAAAATTGA
 GAGTGTAAAAGTGGATTTCAAGGAAAAGGCCAAGCTAAAGTTGGCTCACTTGACAATGCTACCCAGTA
 CCTGGAGGTGATGTGAAGATTGACAGCCAAAAGTTGAACTTCAGAGAGCATGCAAAGGCCCGGGTAG
 ATCAGGGGCTGAGATCATCACAGTCCCAAGCAGGTCCAGCGTGGCATCACCCGACGACTCAGCAA
 CGTCTCATCTTCTGGAAGCATCAACCTGCTCGAATCCCTCAGCTTGGCACTTTGGCTGAGGATGCTACT
 GCGGGCTTGCTAAGCAGGGCTT

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225265 representing NM_001039934
 Red=Cloning site Green=Tags(s)

MADERKDEGKAPHWTSASL TEAAAHPHSPKMDQGGAGEGLSRNANGFPYREEEEGAFGEHRSQGTYSDT
 KENGINDELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQHKDQPAALPLAAEETANLPPSPPS
 PASEQTATVEEAASGDLAQAPGAFKQAKDKVTDGISKSPKRSRSLPRPSSILPPRRGVSGDRENSFLN
 SSISSARRTRSEPIRRAGKSGTSTPTTPGSTAITPGTPPSYSSRTPGTPGTPSYPRTPGTPKSGILVPS
 EKKVAIIRTTPKSPATPKQLRLINQPLPDLKNVSKIGSTDNIKYQPKGGQVRILNKKIDFSKVQSRCS
 KDNIKHSAGGNNVQIVTKKIDL SHVTSKCGSLKNIRHRPGGGRVKIESVKLDFKEKAQAKVGLD NAHVV
 PGGGNVKIDSQKLNFRHAKARVDHGAEIITQSPSRSSVASPRRLSNVSSSGSINLLESPQLATLAEDVT
 AALAKQGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001039934

ORF Size: 1494 bp

OTI Disclaimer: 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.

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_001039934.1](#), [NP_001035023.1](#)

RefSeq Size: 5535 bp

RefSeq ORF: 1497 bp

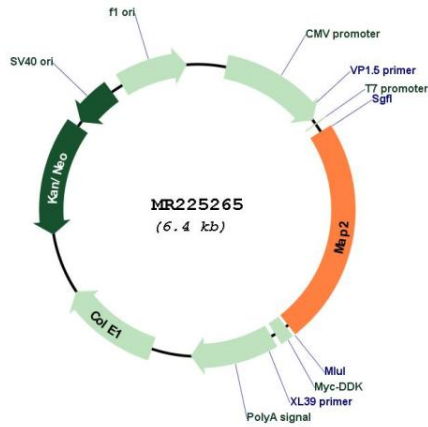
Locus ID: 17756

Cytogenetics: 1 33.49 cM

MW: 53.1 kDa

Gene Summary: The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225265