

Product datasheet for **MC216966**

Map2 (NM_001039934) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC216966 representing NM_001039934
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGAGCGGAAAGATGAAGGAAAGGCACCACTGGACATCAGCCTCACTCACAGAGGCAGCTG
 CACACCCTCACTCTCCAGAGATGAAGGACCAGGGTGGGGCAGGGGAAGGGCTGAGCCGCAACGCCAATGG
 ATTTCCATACAGAGAGGAGGAGGAAGGCCCTTTGGGGAGCACAGGTCACAGGGCACCTATTCAGATAACC
 AAAGAGAACGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAACAGCAGAGGAGGTATCTGCAAGGA
 TAGTTCAAGTAGTCACAGCTGAAGCTGTAGCAGTCCTGAAAGGTGAACAAGAGAAGGAAGCCCAACACAA
 GGACCAGCCTGCAGCTCTGCCTTAGCAGCCGAAGAAACAGCTAATCTGCCACCTTCGCCACCACCATCG
 CCAGCCTCAGAACAAACAGCCACAGTGGAGGAAGCAGCAAGTGGTGAATGGCTCAGGCTCCTGGTGCTT
 TTAACAGGCCAAGGATAAAGTCACTGATGGAATAAGCAAGAGCCAGAGAAACGTTCTTCCCTCCCAAG
 ACCTTCTCCATCTCCCTCCTCGCAGGGGTGTATCAGGAGACAGGGAGGAGAATCTTTCTCTCTGAAT
 AGTCCATCTCTCAGCAGCAGCCAGCACCAGGTCAGAACCAATTCGAGAGCAGGAAAAAGTGGCACCT
 CCACACCTACTACCCCTGGATCAACTGCAATCACCCCTGGAACCTCCCAAGCTACTCTTACGTACCCC
 AGGCACCCCGGGAACCCCGAGCTACCCAGGACACCAGGAACCCCAATCTGGCATCCTGGTGCCAGT
 GAGAAGAAAGTTGCCATCATCCGCACTCTCCAAGTCCCAAGCTACTCTAAGCAGCTTCGGCTTATTA
 ACCAACCACTGCCGACCTGAAGAATGTCAAGTCCAAAATCGGATCAACTGACAACATCAATACCAGCC
 TAAGGGGGGTGAGTTAGGATTTAAACAAGAAGATCGATTTTAGCAAAGTTCAGTCAAGATGTGGTTCC
 AAGGATAACATCAAACATCTGCTGGGGCGGAAATGTACAAATGTTACTAAGAAGATAGACTTAAGCC
 ATGTGACATCAAATGTGGCTCTAAAGAACATCCGTACAGGCCAGGTGGTGGACGTGAAAATTGA
 GAGTGTAAAACCTGGATTTCAAGGAAAAGCCCAAGCTAAAAGTTGGCTCACTTGACAATGCTCACCAGTA
 CCTGGAGGTGATGTGAAGATTGACAGCCAAAAGTTGAACTTCAGAGAGCATGCAAAGCCCGGGTAG
 ATCAGGGGCTGAGATCATCACAGTCCCAAGCAGGTCAGCGTGGCATCACCCGACGACTCAGCAA
 CGTCTCATCTTCTGGAAGCATCAACCTGCTCGAATCCCTCAGCTTGCCACTTTGGCTGAGGATGCTCACT
 GCGGCGTTGCTAAGCAGGGCTT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001039934

Insert Size: 1497 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]
Transcript Variant: This variant (1) differs in the 5' UTR, lacks a large in-frame segment, and contains an alternate in-frame exon compared to variant 3. The resulting isoform (1) has the same N- and C-termini but is much shorter compared to isoform 3.