

Product datasheet for **MG225351**

Map2 (NM_008632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map2 (NM_008632) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map2
Synonyms:	G1-397-34; MAP-2; Mtap-2; Mtap2; repro4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225351 representing NM_008632
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGACGAGCGGAAAGATGAAGGAAAGGCACCACTGGACATCAGCCTCACTCACAGAGGCAGCTG
 CACACCCTCACTCTCCAGAGATGAAGGACCAGGGTGGGGCAGGGGAAAGGGCTGAGCCGCAACGCCAATGG
 ATTTCCATACAGAGAGGAGGAGGAAGGCCTTTGGGGAGCACAGGTCACAGGGCACCTATTCAGATAACC
 AAAGAGAACGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAACAGCAGAGGAGGTATCTGCAAGGA
 TAGTTCAAGTAGTCACAGCTGAAGCTGTAGCAGTCTGAAAGGAGAACAAGAGAAGGAAGCCCAATACAA
 GGACCAGCCTGCAGCTCTGCCTTAGCAGCCGAAGAAACAGCTAATCTGCCACCTTCCCCACCACCATCG
 CCAGCCTCGGAACAAACAGCCACAGTGGAGGAAGCAGCAAGTGGTACTTGGCTCAGGCTCTGGTGCTT
 TTAACAGCGCAAGGATAAAGTCACTGATGGAATAAGCAAGAGCCAGAGAAACGTTCTTCCCTCCCAAG
 ACCTTCTCCATCTCCCTCCTCGCAGGGGTGTATCAGGAGACAGGGAGGAGAAGCTTTTCTCTCTGAAT
 AGCTCCATCTCTCAGCAGCAGCGACCACCAGGTCAGAACCAATTCGAGAGCAGGAAAAAGTGGCACCT
 CCACACCTACTACCCCTGGATCAACTGCAATCACCCCTGGAACCTCCCCAAGCTACTCTTACGTACCCC
 AGGCACCCCGGGAACCCCGAGCTACCCAGGACACCAGGAACCCCAATCTGGCATCTGGTGCCAGT
 GAGAAGAAAGTTGCCATCATCCGCACTCTCCTCAAGTCCCAAGTACTCCTAAGCAGCTTCGGCTTATTA
 ACCAACCACTGCCGACCTGAAGAATGTCAAGTCCAAAATCGGATCAACTGACAACATCAATACCAGCC
 TAAGGGGGGTGAGTACAAATTTGTTACTAAGAAGTAGACTTAAGCCATGTGACATCAAAATGTGGCTCT
 CTAAGAACATCCGTACAGGCCAGGTGGTGGACGTGTGAAAATGAGAGTGTAAAAGTGGATTTCAAGG
 AAAAGGCCCAAGCTAAAGTTGGCTCACTTGACAATGCTCACCACTACCTGGAGGTGGTAAATGTGAAGT
 TGACAGCCAAAAGTTGAACTTCAGAGAGCATGCAAAGGCCCGCTAGATCACGGGGCTGAGATCATCACA
 CAGTCCCCAAGCAGGTCCAGCTGGCATCACCCGACGACTCAGCAACGTCTCATCTTCTGGAAGCATCA
 ACCTGCTCGAATCCCCTCAGCTTGCACCTTTGGCTGAGGATGTCAGTGCAGCGCTTGCTAAGCAGGGCTT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225351 representing NM_008632
 Red=Cloning site Green=Tags(s)

MADERKDEGKAPHWTSASLTEAAAPHSPMKDQGGAGEGLSRNANGFPYREEEGAFGEHRSQGTYSDT
 KENGINDELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQYKDQPAALPLAAEETANLPPSPPPS
 PASEQTATVEEASGDLAQAPGAFKQAKDKVTDGISKSPKRRSSLPRPSSILPPRRGVSGDREENSFLN
 SSISSARRTTRSEPIRRAGKSGTSTPTTPGTAITPGTPPSYSSRTPGTPGTPSYRTPGTPKSGILVPS
 EKKVAIIRTTPKSPATPKQLRLINQPLDLKNVSKIGSTDNIKYQPKGGQVQIVTKIDLSHVTSKCGS
 LKNIRHRPGGRRVKIESVKLDFKEKAQAKVGSLDNAHHVPGGGNVKIDSQKLNFRHAKARVDHGAEIIT
 QSPSRSSVASPRRLSNVSSSGSINLLESPQLATLAEDVTAALAKQGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008632

ORF Size: 1401 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_008632.2](#), [NP_032658.2](#)

RefSeq Size: 5445 bp

RefSeq ORF: 1404 bp

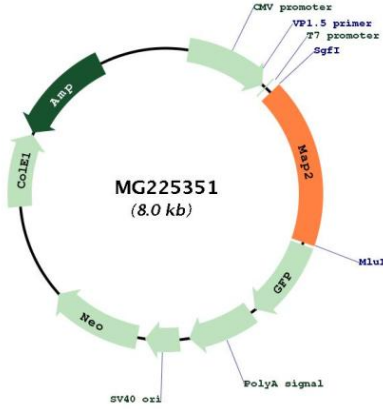
Locus ID: 17756

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]

Product images:



Circular map for MG225351