OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR225351

Map2 (NM_008632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map2 (NM_008632) 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)

ORF Nucleotide Sequence:

>MR225351 representing NM_008632
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGACGAGCGGAAAGATGAAGGAAAGGCACCACACTGGACATCAGCCTCACTCACAGAGGCAGCTG
CACACCCTCACTCTCCAGAGATGAAGGACCAGGGTGGGGCAGGGGAAGGGCTGAGCCGCAACGCCAATGG
ATTTCCATACAGAGAGGAGGAGGAAGGCGCCTTTGGGGAGCACAGGTCACAGGGCACCTATTCAGATACC
AAAGAGAACGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAACAGCAGAGGAGGTATCTGCAAGGA
TAGTTCAAGTAGTCACAGCTGAAGCTGTAGCAGTCCTGAAAGGTGAACAAGAGAAGGAAGCCCAACACAA
GGACCAGCCTGCAGCTCTGCCTCTAGCAGCCGAAGAAACAGCTAATCTGCCACCTTCGCCACCACCATCG
CCAGCCTCAGAACAAACAGCCACAGTGGAGGAAGCAGCAAGTGGTGACTTGGCTCAGGCTCCTGGTGCTT
TTAAACAGGCGAAGGATAAAGTCACTGATGGAATAAGCAAGAGCCCAGAGAAACGTTCTTCCCTCCCAAG
ACCTTCCTCCATCCTCCCTCCTCGCAGGGGTGTATCAGGAGACAGGGAGGAGAACTCTTTCTCTCTGAAT
AGCTCCATCTCTTCAGCACGACGGACCACCAGGTCAGAACCAATTCGCAGAGCAGGAAAAAGTGGCACCT
CCACACCTACTACCCCTGGATCAACTGCAATCACCCCTGGAACTCCCCCAAGCTACTCTTCACGTACCCC
AGGCACCCCGGGAACCCCGAGCTACCCCAGGACACCAGGAACCCCCAAATCTGGCATCCTGGTGCCCAGT
GAGAAGAAAGTTGCCATCATCCGCACTCCTCCAAAGTCCCCAGCTACTCCTAAGCAGCTTCGGCTTATTA
ACCAACCACTGCCGGACCTGAAGAATGTCAAGTCCAAAATCGGATCAACTGACAACATCAAATACCAGCC
TAAGGGGGGTCAGGTACAAATTGTTACTAAGAAGATAGACTTAAGCCATGTGACATCCAAATGTGGCTCT
CTAAAGAACATCCGTCACAGGCCAGGTGGTGGACGTGTGAAAATTGAGAGTGTAAAACTGGATTTCAAGG
AAAAGGCCCAAGCTAAAGTTGGCTCACTTGACAATGCTCACCACGTACCTGGAGGTGGTAATGTGAAGAT
TGACAGCCAAAAGTTGAACTTCAGAGAGCATGCAAAGGCCCGGGTAGATCACGGGGCTGAGATCATCACA
CAGTCCCCAAGCAGGTCCAGCGTGGCATCACCCCGACGACTCAGCAACGTCTCATCTTCTGGAAGCATCA
ACCTGCTCGAATCCCCTCAGCTTGCCACTTTGGCTGAGGATGTCACTGCGGCGCTTGCTAAGCAGGGCTT
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225351 representing NM_008632
Red=Cloning site Green=Tags(s)

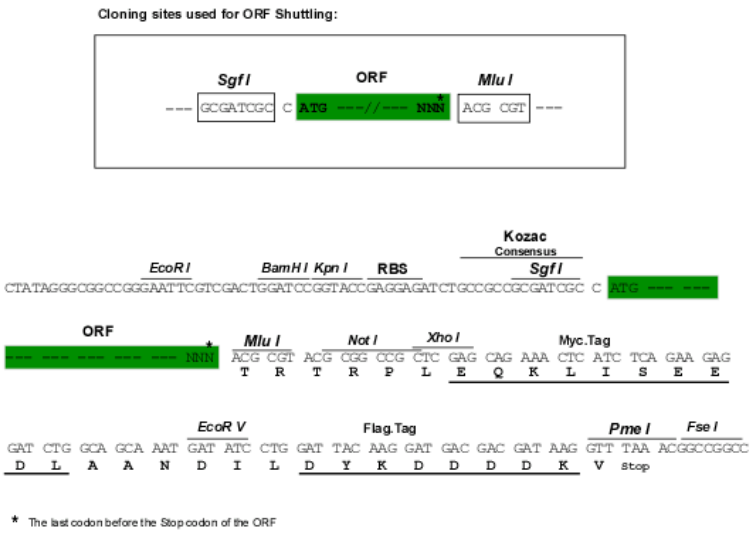
MADERKDEGKAPHWTSASLTEAAAHPHSPEMKDQGGAGEGLSRNANGFPYREEEEGAFGEHRSQGTYSDT
KENGINGELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQHKDQPAALPLAAEETANLPPSPPPS
PASEQTATVEEAASGDLAQAPGAFKQAKDKVTDGISKSPEKRSSLPRPSSILPPRRGVSGDREENSFSLN
SSISSARRTTRSEPIRRAGKSGTSTPTTPGSTAITPGTPPSYSSRTPGTPGTPSYPRTPGTPKSGILVPS
EKKVAIIRTPPKSPATPKQLRLINQPLPDLKNVKSKIGSTDNIKYQPKGGQVQIVTKKIDLSHVTSKCGS
LKNIRHRPGGGRVKIESVKLDFKEKAQAKVGSLDNAHHVPGGGNVKIDSQKLNFREHAKARVDHGAEIIT
QSPSRSSVASPRRLSNVSSSGSINLLESPQLATLAEDVTAALAKQGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_d12.zip

Restriction Sites: SgfI-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

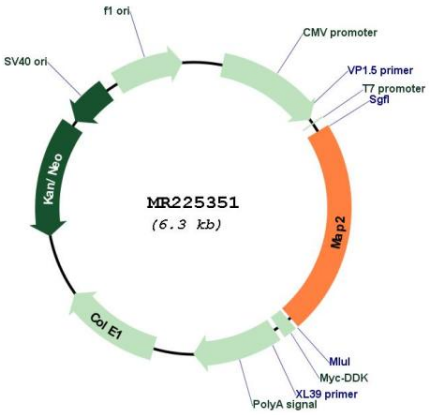
Locus ID: 17756

Cytogenetics: 1 33.49 cM

MW: 49.8 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 MR225351