

Product datasheet for **MG222668**

Map1b (NM_008634) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map1b (NM_008634) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map1b
Synonyms:	A230055D22; AI843217; LC1; MAP5; Mtap-5; Mtap1b; Mtap5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222668 representing NM_008634 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCGTGGTGGTGAAGCCACCGAACCGGAGCCATCGGGCAGCATCGGCAACCCGGCGGCGTCCA
CCTCGCCAGCCTGTCGACCGCTTCTAGACAGCAAGTTCTACTTGGTGGTGGTGGTGGGAGACCGT
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TTCCAGGACAAAAGATTCTTCATCACCGAAGTGACGTCTTAGAAACAGTCGTTCTGATCAACCCTTCAGA
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GGAAACAGTACCCAGTACAACATCCTAGAGGACTGGAGAACTCAAACATCTAGATTTCTAAAGCAGC
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GTGGTACCAGGAGACCCACGAGAAGCAGCAGGACCTCAACATCATGGTCTTAGCAAGCAGCAGTACAGTG
GTCATGCAAGACGAGTCTTCCCCGCATGCAAGATAGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222668 representing NM_008634
 Red=Cloning site Green=Tags(s)

MATVVVEATEPEPSGSIGNPAASTSPSLSHRFLDSKFYLLVVVGETVTEEHLRRAIGNIELGIRSWDTNL
 IECNLDQELKLFVSRHSARFSPEVPGQKILHHRSDVLETVVLINPSDEAVSTEVRMLITDAARHKLLVLT
 GQCFENTGELILQSGSFSQNFIEIFTDQEIGELLSTTHPANKASLTLFCPEEGDWKNSNLDHRNLQDFI
 NIKLNSASILPEMEGLSEFTEYLSSEVVPSPFDILEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGF
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 KVTKDKVVKKEIKTKLEEKKEEKPKKEVVKKEDKTPLKKDEKPRKEEVKKEIKKEIKKEERKELKKEVKK
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 KAAEIDVAKDIKQLELEIEDEEKLKETQGEAYVIQKETEVSKGSAESPEDEGITTEGEGECEQTPEELE
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 SESPYEDFLSADSKVLGRRSESPFEGKNGKQGFDPRESVSDLTSTGLYQDKQEEKSTGFIPIKEDFGPE
 KKTSDVETMSSQSALALDERKLGDDVSPTQIDVSQFGSKEDTKMSISEGTVSDKSATPVDEGVAEDTYS
 HMEGVASVSTASVATSSFPPTDDVSPSLHAEVGSPHSTEVDSSLVSVVQPTPTTFQETEMSPSKEECP
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 TIRTHDVGYYEYKTERTRIKSPCDSGYSYETIEKTTKTPEDGGYTCEITEKTRTRPEEGGYSYIESEKTT
 RTEVSGYTYEKTERSRLDDISNGYDDTEDGGHTLGDCSYSYETTEKITSFPESESYSYETSTKTTRS
 PDT SAYCYETMEKITKTPQASTYSYETSDRCYTTTEKKSPSEARQDVLCLVSSCFKHPKTELSPSFINP
 NPLEWFAGEEPTEESEKPLTQSGGAPPPSGGKQQRQCDDETPTTSVESAPSQTDSDVPPETEPCPSITA
 DANIDSEDESETIPTDKVTYKHMDDPPAPMQRSPSPRHPDVSMDVDPDALAVDQNLGKALKKDLKEKTK
 TTKKPGTKTKSSSPVKKGDGKSKPLAASPKPGALKESSDKVS RVASPKKESVEKATKTTTPEVKATRGE
 EKDKETKNAANASASKSAKTATTGPGTTKAKSSTVPPGLPVYLDLCYIPNHSNSKNVDVEFFKRVRSY
 YVYSGNDPAAEEPSRAVL DALLEGKAQWGSNMQVTLIPTHDSEVMREWYQETHEKQDLNIMVLASSSTV
 VMQDESFPACKIEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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_008634.2](#), [NP_032660.2](#)

RefSeq Size: 11852 bp

RefSeq ORF: 7395 bp

Locus ID: 17755

UniProt ID: [P14873](#)

Cytogenetics: 13 52.9 cM

Gene Summary: Phosphorylated MAP1B may play a role in the cytoskeletal changes that accompany neurite extension. Possibly MAP1B binds to at least two tubulin subunits in the polymer, and this bridging of subunits might be involved in nucleating microtubule polymerization and in stabilizing microtubules. Acts as a positive cofactor in DAPK1-mediated autophagic vesicle formation and membrane blebbing (By similarity). Facilitates tyrosination of alpha-tubulin in neuronal microtubules. Required for synaptic maturation.[UniProtKB/Swiss-Prot Function]