

Product datasheet for **MG227468**

Map6 (NM_010837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map6 (NM_010837) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map6
Synonyms:	2810411E12Rik; Map-6; Mtap6; STOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227468 representing NM_010837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGGCCGTGCATCACAAGGGCCTGCTGCATCGCCCGTTCTGGAACCAGTGGACAAGGCGGACA
 TTGCGGTGCCGCTGGTTTTACCAAGTACTCGGAGGCCACCGAACCCAGGCGCCCTCCGAGCCGCC
 AGCTCCGCTGCAGCCCGGTTAGCGCCCCCTCGCGTGTGTGCGCATAGAGACGACCCAGCCAGCCAGGGA
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 GGTGATGCGACAGGACTACCGCGCTGAAAAGTGCAGCGGCCGAGCCAAAGTCCCGGCCGCGCAGCGAG
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 CCGGCGCGGGGACCATCCCTGGATCCCAAGCCGGTGCAATCCCTGCGACTTCGACGCTTCCCAACC
 TGTTCTCGGGGTGCCAAGCGTCGGCCTCAGAGCCAAGAGCGCGGCCCATGCAACTTTCTGCTGATGCC
 CGGACCCCGAGGGTGTGGAGGAGCCGGGTGTGGCGGAGGAAAGGCGTCCGGTGTAGACCAGCGCG
 ACACACGTAGGAAGGCAGGGCCAGCATGGATGGTACTCGCAACGAAGGGCACGAAGAGAAGCCTCTGCC
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 AATCAAGACCCTATAATCCAGTACCTTTGAAGGGTCAAGGATCCCTGGTCCAGCCCCAACAAAGGACC
 AAGGTCCTACAGCCCTGACCCTCTGAAGACTCAAGGTCCCAAGGCACTCAACTGCCACAGTCTCACC
 TTCACCCAGTCATGATCCCAACAGTTCCCATACGGAATATATTGAGGGATCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG227468 representing NM_010837
 Red=Cloning site Green=Tags(s)

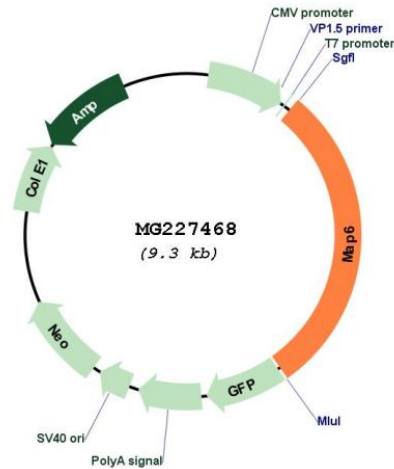
MAWPCITRACCIARFWNLQDKADIAVPLVFTKYSEATEHPGAPPQPPAPLQPALAPPSRAVAIETQPAQG
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 AQSQTQEGGPAAGKASGADERDTRRKAGPAWMVRRSEGHEQTAAHAQGTGPEGGKRAVADALNRQIRE
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 NKLAEAKESRVKPTSDASKNRGPVTKEPHKDQGSVAPGLPKGQEPLKDQGPVVVGLPKDQVVPVGLSKG
 QSPTAPGPTKDQGAVLLGPVKDLGPVAPAPIKVQDHIASELLKNKDSVPLAPAKAQSPLLPEPLKNQSPV
 VPASTKDQSFPTAPRKDPGPVPEPEKDRAPTVPERRKDQHVSIMASLKNEAPMVPESVKNQGLAGPEL
 VKDTGTDTTAPRYLKGHDSVVFVAPVKNQGPVPEPVKSQDPIIPALAKDQGPMLPEPPKNQSPVVLGPIK
 NQDPIIPVPLKGQDPLVPAPTKDQGPTAPDPLKTQGPKGTLPTVSPSPVMIPTVPHTIEYIEGSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_010837

ORF Size: 2718 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_010837.3](#), [NP_034967.2](#)

RefSeq Size: 3447 bp

RefSeq ORF: 2721 bp

Locus ID: 17760

UniProt ID: [Q7TSJ2](#)

Cytogenetics: 7 E1

Gene Summary:

Involved in microtubule stabilization in many cell types, including neuronal cells (PubMed:9600916). Specifically has microtubule cold stabilizing activity (PubMed:9600916). Involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking via its interaction with TMEM106B (By similarity). Regulates KIF5A-mediated axonal cargo transport (By similarity). Regulates axonal growth during neuron polarization (PubMed:28521134).[UniProtKB/Swiss-Prot Function]