

Product datasheet for **MG217450**

Map7 (NM_008635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map7 (NM_008635) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map7
Synonyms:	E-MAP-115; MAP-7; mshj; mste; Mtap7; R75000; ste
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217450 representing NM_008635
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGCAGGGAGCTGGCGGACGGCCACAGGGCGGCGACGGCGTACGCACAGCGACCCAGCGT
 CTGATGGCTATAAAGTACAAGAGAAGAGAAGTGCCTCCAGCCGCCACTTCTACAGTTTCAGGACAAAC
 TAGCAACCACTCAGGAAACAAACAGATCCCCACCTGTGCTACGGTTGATGACCGGCAGCGGCTAGCC
 AGAGAACGCCAGAGGAACGAGAAAAACAGCTAGCTGCACGAGAAACCGTCTGGCTAGAGAGAGAAGAAC
 GAGCCCGCAGCACTATGAGAGACATCTGGAGGCGAGGAAGAAGAAGCTGGAGGACCAACGGCTGAAGGA
 GGAGCGGAGGAGGCTGCGGTGGAGGAGAAGCGGAGGCAGAGGCTGGAGGAGGACAAGGAGCGCCATGAA
 GCTGTTGCCGACGACGATGAAAGGAGCCAGAAGCCAAGGCAGAAGTCTAACCGCTGGTCTGGGAA
 GCCCTCCATGGGAGCTCGAGCATCCACAGTGGAGATCCAGACAGGCGCTCAGTTCCACCATGAATCT
 TTCGAAACATGTTGATCCTGTCTTAGCAAGCGGCTCTCCTCCTCGTCTGCAACTTGTCTAACTCTCCA
 GATAGAGCTCGCCGCTCGAGCTCAGCCCTGGGAGAGCAGCGTTGTTAGCAGACTTCTGACGCCACAC
 ATTCGTTCTGGCCAGAAGCAAAAGCACGGCCGCTTGTCTGGAGACACAGCATCTTGCAGCCCCATCAT
 CATGCCCTTCAAAGCTGCACACTCTAGAAACCCAGTGGACCGACCAAACTCTTTGTAACACCGCCTGAG
 GGCTCTGCACGAAGGAGGACCATTCATGGACTAGCGAGCCATAAAGAGAGCGGAGAAAGAGAACACGTTT
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 GCGGTGGGAGAGGAGGAGGTGGAGCGCTGCAGAAGCAGAAAGAAGAAGCCCGAGCCCGGAGGAG
 GCAGAGAGGGCTCGGCAGGAACGAGAGAAGCATTTCAGAAAGAAGAGCAGGAACGGCTGGAGAGGAAGA
 AGCGACTTGAAGAGATTATGAGAAGAACCAGGAGGACAGAGACCGCTGATAAGAAAACCACTGAGCAAAG
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 TCAGGAAACGGAGAGTCTGCAGAGAGCCACATGGAGTCGCTTTACAGCAATCAGAAGTGACCACAGAGA
 GTTCTCCAGATTTGAAAAACAGCCAAATGAAAACGGAATGTCCATACAAAATGAAAATTTGAAGAAGT
 TATAAACTTACCTGTTGGATCAAAGCGTCCAGATTAGATGTCACCAATGAGAACCAGAAATTCCTTTG
 AAACCAATTTGGCCTTTAATGATGAAGGGACACTTGGGCCCTACCTCAGGTGGATGGTGTGCAGACAC
 AACAGACCGCAGAAGTTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217450 representing NM_008635
 Red=Cloning site Green=Tags(s)

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MAEQGAGGDGHRGGDGATHSDPASDGYKVQEKRTAPSRPTSTVSGQTSNHSGNKPDPVLRVDDRQRLA
RERREEREKQLAARETVWLEREERARQHYERHLEARKKLEDQRLKEERRRAAVEEKRRQRL EEDKERHE
AVVVRTMERSQKPRQKSNRWSWGSPLHGSSSIHSGDPDRRSVSTMNLSKHVDPVISKRLSSSSATLLNSP
DRARRRLQLSPWESSVVSRLLLTPTHSFLARSKSTAALSGDTASCSP IIMPFKAAHSRNPVDRPKLFVTPPE
GSARRRTIHGLASHKREREREHVPFHVSPGARRTLSPSNLKARSPAPARLWLPKSMPHLPGTTPRASSL
PPGSVRAASAQAPSSSPGNIRPVKREVKVEPEKKDPLPAVKSRVPLVKVEEVTVEEGTPVKPPEPAPAS
APIATPAPAPATDPAPVPAPSSTVTGVVPKTSAGTTDPEEATRLLAEKRRLLAREQREKEERERKEEEL
ERQKIEELARRVAEERSRREEEARL EEEQAREKEELALRLAEEERERWEREEVERVQKQKEEARAREE
AERARQEREKHFQKEEQERLERKKRLEEIMRTRRTTETADKKTTEQRNGDIAKGVLTGEPEVPALPCMAS
SGNGESAESPHGVALQQSEVTTESSPDLEKQPNENGMISIQNENFEEVINLPVGSKASRLDVTNENPEIPL
KPILAFNDEGTLGPLPQVDGVQTQQTAEVI
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008635

ORF Size: 2190 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_008635.2](#), [NP_032661.2](#)

RefSeq Size: 3891 bp

RefSeq ORF: 2193 bp

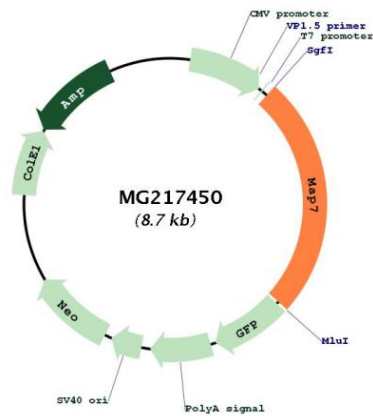
Locus ID: 17761

UniProt ID: [O88735](#)

Cytogenetics: 10 9.75 cM

Gene Summary: Microtubule-stabilizing protein that may play an important role during reorganization of microtubules during polarization and differentiation of epithelial cells. Associates with microtubules in a dynamic manner. May play a role in the formation of intercellular contacts. Colocalization with TRPV4 results in the redistribution of TRPV4 toward the membrane and may link cytoskeletal microfilaments.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217450