

## Product datasheet for **MR231030**

### Map7 (NM\_001198635) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map7 (NM_001198635) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map7
Synonyms:	E-MAP-115; MAP-7; mshj; mste; Mtap7; R75000; ste
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR231030 representing NM\_001198635  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGCAGGGAGCTGGCGGACGGCCACAGGGCGGCGACGGCGTACGCACAGCGACCCAGCGT  
 CTGATGGCTATAAAGTACAAGAGAAGAGAAGTGCCTCCAGCCGCCCACTTCTACAGTTTCAGGACAAAC  
 TAGCAACCACTCAGGAAACAAACAGATCCCCACCTGTGCTACGGTTGATGACCGGCAGCGGCTAGCC  
 AGAGAACGCCGAGAGAACGAGAAAAACAGCTAGCTGCACGAGAAACCGTCTGGCTAGAGAGAGAAGAAC  
 GAGCCCGCAGCACTATGAGAGACATCTGGAGGCGAGGAAGAAGAAGCTGGAGGACCAACGGCTGAAGGA  
 GGAGCGGAGGAGGCTGCGGTGGAGGAGAAGCGGAGGCAGAGGCTGGAGGAGGACAAGGAGCGCCATGAA  
 GCTGTTGCCGACGACGATGAAAGGAGCCAGAAGCCAAGGCAGAAGTCTAACCGCTGGTCTGGGAA  
 GCCCTCTCCATGGGAGCTCGAGCATCCACAGTGGAGATCCAGACAGGCGCTCAGTTTCCACCATGAATCT  
 TTCGAAACATGTTGATCCTGTCTTAGCAAGCGGCTCTCCTCCTCGTCTGCAACTTTGCTAAACTCTCCA  
 GATAGAGCTCGCCGCTGACGCTCAGCCCTGGGAGAGCAGCGTTGTTAGCAGACTTCTGACGCCACAC  
 ATTCGTTCTGGCCAGAAGCAAAAGCACGGCCGCTTGTCTGGAGACACAGTTATCCCCATTTGTCCTCG  
 TTCAGCATCTTGACGCCCATCATGATGCCCTTCAAAGCTGCACACTCTAGAAACCCAGTGGACCGACCA  
 AAAGCTTTTGAACACCGCCTGAGGGCTCTGCACGAAGGAGGACCATTCATGGACTAGCGAGCCATAAAA  
 GAGAGCGAGAAAGAGAACACGTTCCCTTCCACGTTTCCCCGGGCGCCCGCAGGACTCTGTCTCCATCTAA  
 TCTCAAAGCGAGGTCACCGGCTCCAGCCCGCTTTGGCTCCCATCCAAGTCCATGCCTCATCTGCCTGGT  
 ACTCCCCGGCTGCATCCTCCTTGCTCCCGCTCAGTCAGAGCTGCTTCCGCTCAGGCCCCCTCCTCCT  
 CTCTCGCAACATCCGGCTGTCAAGAGAGAAGTGAAGTGGAGCCTGAGAAGAAAGACCTTTACCCGC  
 AGTAAAGAGCAGGGTGCCATTAGTGAAGGTAGAGGAGGTCACAGTCGAAGAGGGGACACCCGTGAAGCCA  
 CCTGAGCCTGCTGCTCCAGCCTCGGCCCCATTGCAACCCAGCCCTGCTCCAGCTACGGACCCGGCCC  
 CAGTCCCTGCACCATCATCCACTGTGACTGTGCGTGTAGTTTCTAAGACTTCTGCAGGCACCACCGACCC  
 AGAGGAGGCTACGAGTTGCTGGCTGAGAAGAGGCGTCTAGCCAGAGAGCAGAGGGAGAAGGAGGAACGG  
 GAGAGGAAGGAAAAGGAAGAGCTGGAGAGACAAAAGATAGAGGAATTGGCCCGTAGGGTGGCTGAAGAGC  
 GAAGTCGACAGGGAAGAAGAAGCCCGCAGGCTGGAAGAGGAGCAGGCTCGAGAGAAAGAGGAGCTGGCGCT  
 GCGTCTGGCTGAGGAGGAGCGGGAGCGGTGGGAGAGGAGGAGGTGGAGCGCTGCAGAAGCAGAAAGAA  
 GAAGAAGCCCGAGCCCGGAGGAGGCAGAGAGGCTCGGCAGGAACGAGAGAAGCATTTCAGAAAGAAG  
 AGCAGGAACGGCTGGAGAGGAAGAAGCGACTTGAAGAGATTATGAGAAGAACCAGGAGGACAGAGACCGC  
 TGATAAGAAAACCACTGAGCAAAGAAATGGTGACATAGCCAAAGGAGTTCTCACTGGAGAGCCAGAAGTA  
 CCTGCACTGCCGTGTATGGCCTTCTCAGAAAACGGAGAGTCTGCAGAGAGCCACATGGAGTCGCTTTAC  
 AGCAATCAGAAGTGACCACAGAGAGTTCTCCAGATTTGGAAAAACAGCCAAATGAAAACGGAAATGTCCAT  
 ACAAAATGAAAATTTTGAAGAAGTTATAAACTTACCTGTTGGATCAAAGCGTCCAGATTAGATGTCACC  
 AATGAGAACCAGAAATTCCTTTGAAACCAATTTGGCCTTTAATGATGAAGGGACACTTGGGCCCTAC  
 CTCAGTGGATGGTGTGCAGACACAACAGACCCGAGAAGTTATA

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231030 representing NM\_001198635  
Red=Cloning site Green=Tags(s)

MAEQGAGDGDHRRGGDATHSDPASDGYKVQEKRTAPSRPTSTVSGQTSNHSGNKPDPVLRVDDRQRLA  
 RERREEREKQLAARETVWLEREERARQHYERHLEARKKLEDQRLKEERRRAAVEEKRRQRLLEEDKERHE  
 AVVRRTMERSQKPRQKSNRWSWGSPLHGSSSIHSGDPDRRSVSTMNLSKHVDPVLSKRLSSSSATLLNSP  
 DRARRLQLSPWESSVVSRLLTPTHSFLARSKSTAALSGDTVIPICPRSASCSPIMPFKAAHSRNPVDRP  
 KLFVTPPEGSARRRTIHGLASHKREREREHVFPFHVSPGARRTLSPSNLKARSPAPARLWLPKSMPLPG  
 TPRPASSLPPGSVRAASAQAPSSSPGNIRPVKREVKVEPEKKDPLPAVKSRVPLVKVEEVTVEEGTPVKP  
 PEPAAPASAPIATPAPAPATDPAPVPAPSSTVTVGVPKTSAGTTDPEEATRLLAEKRRLLAREQREKEER  
 ERKEKEELERQKIEELARRVAEERSRREEEARLEEEQAREKEELALRLAEEERERWEREEVERVQKQKE  
 EEARAREEAERARQEREKHFQKEEQERLERKKRLEEIMRRTTRTETADKKTTEQRNGDIAGVLTGEPEV  
 PALPCMASSNGESAESPHGVALQQSEVTTESSPDLEKQPNENGMISIQNENFEVINLPVGSKASRLDVT  
 NENPEIPLKPILAFNDEGTLGPLQVDGVQTQQTAEVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001198635

**ORF Size:** 2214 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\\_001198635.1](#), [NP\\_001185564.1](#)

**RefSeq Size:** 3951 bp

**RefSeq ORF:** 2217 bp

**Locus ID:** 17761

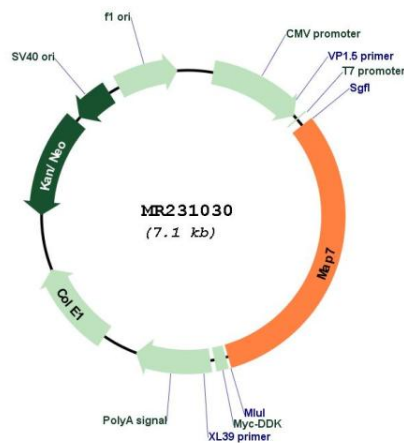
**UniProt ID:** [O88735](#)

**Cytogenetics:** 10 9.75 cM

**MW:** 82.8 kDa

**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 MR231030