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Product datasheet for MR217450

Map7 (NM_008635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map7 (NM_008635) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map7
Synonyms:	E-MAP-115; MAP-7; mshi; mste; Mtap7; R75000; ste
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR217450 representing NM_008635
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCAGGGAGCTGGCGGCGACGGCCACAGGGGCGGCGACGGCGCTACGCACAGCGACCCAGCGT
CTGATGGCTATAAAGTACAAGAGAAGAGAACTGCCCCCAGCCGCCCCACTTCTACAGTTTCAGGACAAAC
TAGCAACCACTCAGGAAACAAACCAGATCCCCCACCTGTGCTACGGGTTGATGACCGGCAGCGGCTAGCC
AGAGAACGCCGAGAGGAACGAGAAAAACAGCTAGCTGCACGAGAAACCGTCTGGCTAGAGAGAGAAGAAC
GAGCCCGGCAGCACTATGAGAGACATCTGGAGGCGAGGAAGAAGAAGCTGGAGGACCAACGGCTGAAGGA
GGAGCGGAGGAGGGCTGCGGTGGAGGAGAAGCGGAGGCAGAGGCTGGAGGAGGACAAGGAGCGCCATGAA
GCTGTTGTCCGACGGACGATGGAAAGGAGCCAGAAGCCAAGGCAGAAGTCTAACCGCTGGTCCTGGGGAA
GCCCTCTCCATGGGAGCTCGAGCATCCACAGTGGAGATCCAGACAGGCGCTCAGTTTCCACCATGAATCT
TTCGAAACATGTTGATCCTGTCATTAGCAAGCGGCTCTCCTCCTCGTCTGCAACTTTGCTAAACTCTCCA
GATAGAGCTCGCCGCCTGCAGCTCAGCCCCTGGGAGAGCAGCGTTGTTAGCAGACTTCTGACGCCCACAC
ATTCGTTCCTGGCCAGAAGCAAAAGCACGGCCGCCTTGTCTGGAGACACAGCATCTTGCAGCCCCATCAT
CATGCCCTTCAAAGCTGCACACTCTAGAAACCCAGTGGACCGACCAAAACTCTTTGTAACACCGCCTGAG
GGCTCTGCACGAAGGAGGACCATTCATGGACTAGCGAGCCATAAAAGAGAGCGAGAAAGAGAACACGTTC
CCTTCCACGTTTCCCCGGGCGCCCGCAGGACTCTGTCTCCATCTAATCTCAAAGCGAGGTCACCGGCTCC
AGCCCGCCTTTGGCTCCCATCCAAGTCCATGCCTCATCTGCCTGGTACTCCCCGGCCTGCATCCTCCTTG
CCTCCCGGCTCAGTCAGAGCTGCTTCCGCTCAGGCCCCCTCCTCCTCTCCTGGCAACATCCGGCCTGTCA
AGAGAGAAGTGAAAGTGGAGCCTGAGAAGAAAGACCCTTTACCCGCAGTAAAGAGCAGGGTGCCATTAGT
GAAGGTAGAGGAGGTCACAGTCGAAGAGGGGACACCCGTGAAGCCACCTGAGCCTGCTGCTCCAGCCTCG
GCCCCCATTGCAACCCCAGCCCCTGCTCCAGCTACGGACCCGGCCCCAGTCCCTGCACCATCATCCACTG
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GCAGAGAGGGCTCGGCAGGAACGAGAGAAGCATTTCCAGAAAGAAGAGCAGGAACGGCTGGAGAGGAAGA
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AAATGGTGACATAGCCAAAGGAGTTCTCACTGGAGAGCCAGAAGTACCTGCACTGCCGTGTATGGCCTCT
TCAGGAAACGGAGAGTCTGCAGAGAGCCCACATGGAGTCGCTTTACAGCAATCAGAAGTGACCACAGAGA
GTTCTCCAGATTTGGAAAAACAGCCAAATGAAAACGGAATGTCCATACAAAATGAAAATTTTGAAGAAGT
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AAACCAATTTTGGCCTTTAATGATGAAGGGACACTTGGGCCCCTACCTCAGGTGGATGGTGTGCAGACAC
AACAGACCGCAGAAGTTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217450 representing NM_008635
Red=Cloning site Green=Tags(s)

MAEQGAGGDGHRGGDGATHSDPASDGYKVQEKRTAPSRPTSTVSGQTSNHSGNKPDPPPVLRVDDRQRLA
RERREEREKQLAARETVWLEREERARQHYERHLEARKKKLEDQRLKEERRRAAVEEKRRQRLEEDKERHE
AVVRRTMERSQKPRQKSNRWSWGSPLHGSSSIHSGDPDRRSVSTMNLSKHVDPVISKRLSSSSATLLNSP
DRARRLQLSPWESSVVSRLLTPTHSFLARSKSTAALSGDTASCSPIIMPFKAAHSRNPVDRPKLFVTPPE
GSARRRTIHGLASHKRERERERHVPFHVSPGARRTLSPSNLKARSPAPARLWLPSKSMPHLPGTPRPASSL
PPGSVRAASAQAPSSSPGNIRPVKREVKVEPEKKDPLPAVKSRVPLVKVEEVTVEEGTPVKPPEPAAPAS
APIATPAPAPATDPAPVPAPSSTVTVGVVPKTSAGTTDPEEATRLLAEKRRLAREQREKEERERKEKEEL
ERQKIEELARRVAEERSRREEEARRLEEEQAREKEELALRLAEEERERWEREEVERVQKQKEEEARAREE
AERARQEREKHFQKEEQERLERKKRLEEIMRRTRRTETADKKTTEQRNGDIAKGVLTGEPEVPALPCMAS
SGNGESAESPHGVALQQSEVTTESSPDLEKQPNENGMSIQNENFEEVINLPVGSKASRLDVTNENPEIPL
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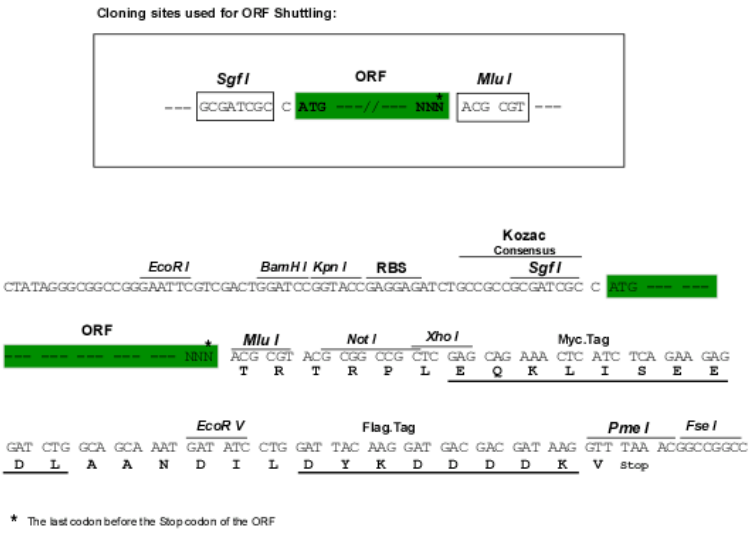
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

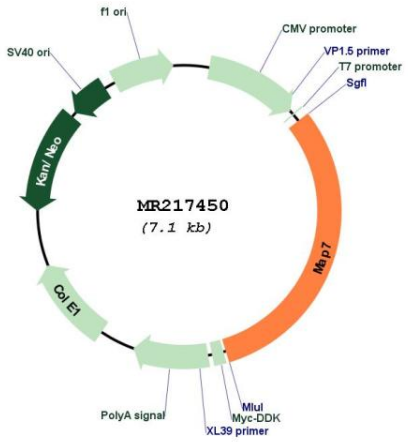
UniProt ID: O88735

Cytogenetics: 10 9.75 cM

MW: 82.4 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 MR217450