

Product datasheet for **MR210376**

Mtap7 (BC052637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtap7 (BC052637) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtap7
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)



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ORF Nucleotide Sequence:

>MR210376 representing BC052637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCAGGGAGCTGGCGGCGACGGCCACAGGGGCGGCGACGGCGCTACGCACAGCGACCCAGCGT
 CTGATGGCTATAAAGTACAAGAGAAGAGAAGTGCCTCCAGCCGCCCACTTCTACAGTTTCAGGACAAAC
 TAGCAACCACTCAGGAAACAAACAGATCCCCACCTGTGCTACGGTTGATGACCGGCAGCGGCTAGCC
 AGAGAACGCCGAGAGAACGAGAAAAACAGCTAGCTGCACGAGAAACCGTCTGGCTAGAGAGAGAAGAAC
 GAGCCCGCAGCACTATGAGAGACATCTGGAGGCGAGGAAGAAGAAGCTGGAGGACCAACGGCTGAAGGA
 GGAGCGGAGGAGGCTGCGGTGGAGGAGAAGCGGAGGCAGAGGCTGGAGGAGGACAAGGAGCGCCATGAA
 GCTGTTGCCGACGACGATGAAAGGAGCCAGAAGCCAAGGCAGAAGTCTAACCCGCTGGTCTGGGAA
 GCCCTCTCCATGGGAGCTCGAGCATCCACAGTGGAGATCCAGACAGGCGCTCAGTTTCCACCATGAATCT
 TTCGAAACATGTTGATCCTGTCTTAGCAAGCGGCTCTCCTCCTCGTCTGCAACTTTGCTAAACTCTCCA
 GATAGAGCTCGCCGCTGACGCTCAGCCCTGGGAGAGCAGCGTTGTTAGCAGACTTCTGACGCCACAC
 ATTCGTTCTGGCCAGAAGCAAAAGCACGGCCGCTTGTCTGGAGACACAGTTATCCCCATTTGTCCTCG
 TTCAGCATCTTGACGCCCATCATGACCTTCAAAGCTGCACACTCTAGAAACCCAGTGGACCGACCA
 AAACCTTTTGAACACCGCCTGAGGGCTCTGCACGAAGGAGGACCATTCATGGACTAGCGAGCCATAAAA
 GAGAGCGAGAAAGAGAACACGTTCCCTTCCACGTTTCCCCGGGCGCCCGCAGGACTCTGTCTCCATCTAA
 TCTCAAAGCGAGGTCACCGGCTCCAGCCCGCTTTGGCTCCCATCCAAGTCCATGCCTCATCTGCCTGGT
 ACTCCCCGGCCTGCATCCTCCTTGCTCCCGCTCAGTCAGAGCTGCTTCCGCTCAGGCCCCCTCCTCCT
 CTCTCGCAACATCCGGCTGTCAAGAGAGAAGTGAAGTGGAGCCTGAGAAGAAAGACCTTTACCCGC
 AGTAAAGAGCAGGGTGCCATTAGTGAAGTAGAGGAGGTCACAGTCGAAGAGGGGACACCCGTGAAGCCA
 CCTGAGCCTGCTGCTCCAGCCTCGGCCCCATTGCAACCCAGCCCTGCTCCAGCTACGGACCCGGCCC
 CAGTCCCTGCACCATCATCCACTGTGACTGTGCGTGTAGTTTCTAAGACTTCTGCAGGCACCACCGACCC
 AGAGGAGGCTACGAGTTGCTGGCTGAGAAGAGGCGTCTAGCCAGAGAGCAGAGGGAGAAGGAGGAACGG
 GAGAGGAAGGAAAAGGAAGACTGGAGAGACAAAAGATAGAGGAATTGGCCGTAGGGTGGCTGAAGAGC
 GAAGTCGAGGGAAGAAGAAGCCCGCAGGCTGGAAGAGGAGCAGGCTCGAGAGAAAGAGGAGCTGGCGCT
 GCGTCTGGCTGAGGAGGAGCGGGAGCGGTGGGAGAGGAGGAGGTGGAGCGCTGCAGAAGCAGAAAGAA
 GAAGAAGCCCGAGCCCGGAGGAGGCAGAGAGGCTCGGCAGGAACGAGAGAAGCATTTCAGAAAGAAG
 AGCAGGAACGGCTGGAGAGGAAGAAGCGACTTGAAGAGATTATGAGAAGAACCAGGAGGACAGAGACCGC
 TGATAAGAAAACCACTGAGCAAAGAAATGGTGACATAGCCAAAGGAGTTCTCACTGGAGAGCCAGAAGTA
 CCTGCACTGCCGTGTATGGCCTTTCAGGAAACGGAGAGTCTGCAGAGAGCCACATGGAGTCGCTTTAC
 AGCAATCAGAAGTGACCACAGAGAGTTCTCCAGATTTGGAAAAACAGCCAAATGAAAACGGAAATGTCCAT
 ACAAAATGAAAATTTTGAAGAAGTTATAAACTTACCTGTTGGATCAAAGCGTCCAGATTAGATGTCACC
 AATGAGAACCAGAAATTCCTTTGAAACCAATTTGGCCTTAAATGATGAAGGGACACTTGGGCCCTAC
 CTCAGTGGATGGTGTGCAGACACAACAGACCCGAGAAGTTATA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210376 representing BC052637
Red=Cloning site Green=Tags(s)

MAEQGAGGDGHRGGDGATHSDPASDGYKVQEKRTAPSRPTSTVSGQTSNHSGNKPDPVLRVDDRQRLA
 RERREEREKQLAARETVWLEREERARQHYERHLEARKKLEDQRLKEERRRAAVEEKRRQRLLEEDKERHE
 AVVRRTMERSQKPRQKSNRWSWGSPLHGSSSIHSGDPDRRSVSTMNLSKHVDPVLSKRLSSSSATLLNSP
 DRARRLQLSPWESSVVSRLLTPTHSFLARSKSTAALSGDTVIPICPRSASCSPIMPFKAAHSRNPVDRP
 KLFVTPPEGSARRRTIHGLASHKRERERHVPFHVSPGARRTLSPSNLKARSPAPARLWLPKSMPLPG
 TPRPASSLPVGSVRAASAQAPSSSPGNIRPVKREVKVEPEKDPDPAVKSRVPLVKVEEVTVEEGTPVKP
 PEPAAPASAPIATPAPAPATDPAPVPAPSSTVTVGVPKTSAGTTDPEEATRLLAEKRLAREQREKEER
 ERKEKEELERQKIEELARRVAEERSRREEEARLEEEQAREKEELALRLAEEERERWEREEVERVQKQKE
 EEARAREEAERARQEREKHFQKEEQERLERKKRLEEIMRRTTRTETADKKTTEQRNGDIAGVLTGEPEV
 PALPCMASSNGESAESPHGVALQQSEVTTESSPDLEKQPNENGMISIQNENFEEVINLPVGSKASRLDVT
 NENPEIPLKPILAFNDEGTLGPLQVDGVQTQQTAEVI

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9043_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

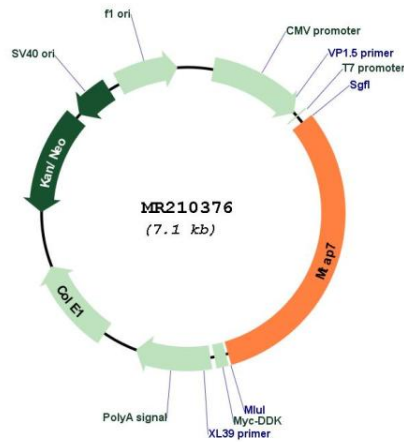
ACCN: BC052637

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:	<ol style="list-style-type: none"> 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:	<u>BC052637.1</u>
RefSeq Size:	3888 bp
RefSeq ORF:	2216 bp
Locus ID:	17761
Cytogenetics:	10 9.75 cM
MW:	142.6 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 MR210376