

## Product datasheet for **MG210376**

### **Mtap7 (BC052637) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | Mtap7 (BC052637) Mouse Tagged ORF Clone          |
| Tag:                      | TurboGFP                                         |
| Symbol:                   | Mtap7                                            |
| Synonyms:                 | E-MAP-115; MAP-7; mshi; 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:**

>MG210376 representing BC052637  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGCAGGGAGCTGGCGGCGACGGCCACAGGGCGGCGACGGCGCTACGCACAGCGACCCAGCGT  
 CTGATGGCTATAAAGTACAAGAGAAGAGAACTGCCCCAGCCGCCCACTTCTACAGTTTCAGGACAAAC  
 TAGCAACCACTCAGGAAACAAACCAGATCCCCACCTGTGCTACGGTTGATGACCGGCAGCGGCTAGCC  
 AGAGAACGCCGAGAGGAACGAGAAAAACAGCTAGCTGCACGAGAAACCGTCTGGCTAGAGAGAGAAGAAC  
 GAGCCCGGCAGCACTATGAGAGACATCTGGAGGCGAGGAAGAAGAAGCTGGAGGACCAACGGCTGAAGGA  
 GGAGCGGAGGAGGGCTGCGGTGGAGGAGAAGCGGAGGCAGAGGCTGGAGGAGGACAAGGAGCGCCATGAA  
 GCTGTTGCCGACGACGATGGAAGGAGCCAGAAGCCAAGGCAGAACTTAACCGCTGGTCTGGGGAA  
 GCCCTCTCCATGGGAGCTCGAGCATCCACAGTGGAGATCCAGACAGGCGCTCAGTTTCCACCATGAATCT  
 TTCGAAACATGTTGATCCTGTCTTAGCAAGCGGCTCTCTCTCGTCTGCAACTTGTCTAACTCTCCA  
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 AAATCTTTTGAACACCGCTGAGGGCTCTGCACGAAGGAGGACCATTCATGGACTAGCGAGCCATAAAA  
 GAGAGCGAGAAAGAGAACACGTTCCCTTCCACGTTTCCCGGGCGCCCGCAGGACTCTGTCTCCATCTAA  
 TCTCAAAGCGAGGTCACCGGCTCCAGCCGCTTTGGCTCCCATCCAAGTCCATGCCTCATCTGCCTGGT  
 ACTCCCGGCTGCATCCTCCTTGCTCCCGGCTCAGTCAGAGCTGCTTCCGCTCAGGCCCTCCTCCT  
 CTCCTGGCAACATCCGGCTGTCAAGAGAGAAGTGAAGTGGAGCCTGAGAAGAAAGACCTTTACCCGC  
 AGTAAAGAGCAGGGTGCCATTAGTGAAGGTAGAGGAGGTCACAGTCGAAGAGGGGACACCCGTGAAGCCA  
 CCTGAGCCTGCTGCTCCAGCCTCGGCCCCATTGCAACCCAGCCCTGCTCCAGCTACGGACCCGGCCC  
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 ACAAATGAAAATTTTGAAGAAGTTATAAACTTACCTGTTGGATCAAAAGCGTCCAGATTAGATGTCACC  
 AATGAGAACCAGAAATTCCTTTGAAACCAATTTGGCCTTTAATGATGAAGGGACACTTGGGCCCTAC  
 CTCAGTGGATGGTGTGCAGACACAACAGACCGCAGAAGTTATA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

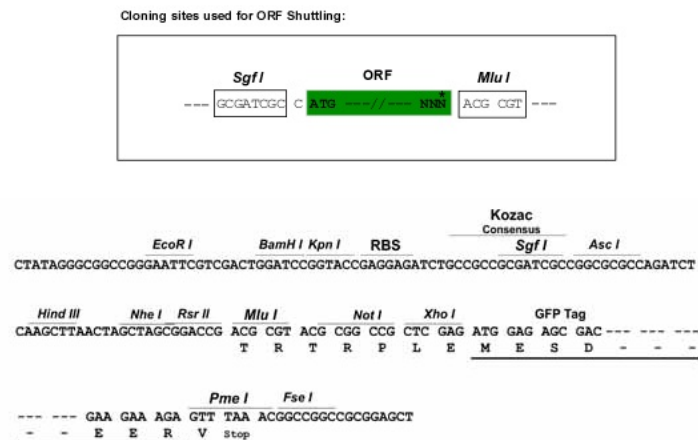
**Protein Sequence:** >MG210376 representing BC052637  
 Red=Cloning site Green=Tags(s)

MAEQGAGDGHRRGGDATHSDPASDGYKVEKRTAPSRPTSTVSGQTSNHSGNKPDPVLRVDDRQRLA  
 RERREEREKQLAARETVWLEREERARQHYERHLEARKKKLEDQRLKEERRRAAVEEKRRQRLLEEDKERHE  
 AVVRRTMERSQKPRQKSNRWSWGSPLHGSSSIHSGDPDRRSVSTMNLSKHVDPVISKRLSSSSATLLNSP  
 DRARRQLSPWESSVVSRLLTPTHSFLARSKSTAALSGDTVIPICPRSASCSPIMPFFKAAHSRNPVDRP  
 KLFVTPPEGSARRRTIHGLASHKREREREHVFPFHVSPGARRTLSPSNLKARSPAPARLWLPKSMPLPG  
 TPRPASSLPGPSVRAASAQAPSSSPGNIRPVKREVKVEPEKKDPLPAVKSRVPLVKVEEVTVEEGTPVKP  
 PEPAAPASAPIATPAPAPATDPAPVPAPSSTVTVGVPKTSAGTTDPEEATRLLAEKRRLLAREQREKEER  
 ERKEKEELERQKIEELARRVAEERSRREEEARRLEEEQAREKEELALRLAEEERERWEREEVERVQKQKE  
 EEARAREEAERARQEREKHQKEEQERLERKKRLEEIMRRTTRTETADKKTTEQRNGDIAGVLTGEPEV  
 PALPCMASSNGESAESPHGVALQQSEVTTESSPDLEKQPNENGMSIQNENFEEVINLPVGSKASRLDVT  
 NENPEIPLKPILAFNDEGTLGPLQVDGVQTQQTAEVI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [BC052637.1](#)

**RefSeq Size:** 3888 bp

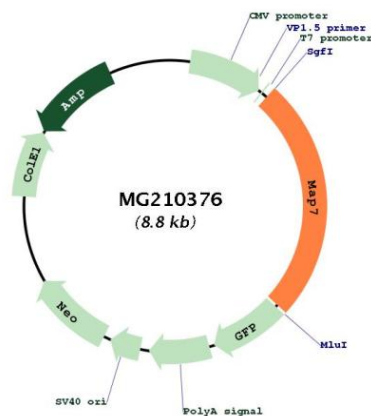
**RefSeq ORF:** 2216 bp

**Locus ID:** 17761

**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 MG210376