

## Product datasheet for MC225405

### Map1a (NM\_001173506) Mouse Untagged Clone

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Map1a (NM_001173506) Mouse Untagged Clone                                          |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | Map1a                                                                              |
| Synonyms:                 | 6330416M19Rik; AI853608; moth1; Mtap-1; Mtap1; Mtap1a                              |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |
| Fully Sequenced ORF:      | >MC225405 representing NM_001173506<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGATGGAGTGGCCGAGTTCTCCGAGTATGTCTCTGAGACGGTGGATGTGCCGTCCCCCTTTGACCTGC  
 TTGAGCCCCCACCTCAGGAGGCTTCTCAAGCTCTCCAAGCCTTGCTGTTACATCTTCCCTGGTGGCCG  
 TGGGACTCTGCTCTTTGCTGTCAATGGCTTTAACATCCTGGTGGACGGCGTTCTGACCGCAAGTCC  
 TGCTTCTGGAAGCTGGTGGCACCTGGACCGCATTGACTCGGTGCTGCTCAGCACATTGGGGCTGACA  
 ATCTGCCAGGCATCAATGGGCTCCTGCAGCGCAAGGTGGCAGAGCTAGAGGAGGAGCAGTCCCAGGGCTC  
 CAGCAGCTACAGCGACTGGGTGAAGAACCTCATCTCCCTGAGCTCGGAGTCGTGTTCTTCAATGTGCCT  
 GATAAGCTCCGGCTGCCGACGCTCCCGCAAGGCCAAGCGCAGCATCGAGGAGGCTGTCTCACCCCTTC  
 AGCACCTGAACCGCTCGGCATCCAAGCCGAGCCTCTGTACCGAGTGGTCAAGCAACCATCGAGCCGCT  
 GACCCCTTTCCACAAAATGGGTGTGGGAGGCTGGACATGTATGTCTCAACCCTGTCAAGGACAGTAAG  
 GAGATGCAGTTCTCATGCAGAAGTGGGAGGCAATAGTAAAGCCAAGACAGGCATAGTGTGGCCAATG  
 GGAAGGAGGCAGAGATCTCCGTCCCTACCTGACCTCCATCACTGCCTTGGTGGTATGGTCCCAGCCAA  
 CCCTACTGAGAAGATTGTGCGAGTGCTTTTCCCGGAAATGCTCCCCAGAACAAAGATCTTGAGGGGCTG  
 GAAAAGCTGCGGCACCTGGACTTCTGCGCTATCTGTGGCGACACAGAAGGACCTGGCTGCTGGGGCCG  
 TGCTTGCCCACTTGAAACCCAGCAAAATCAAACATCGGGCCGACAGCAAGGAGAGCCTCAAAGCTGCCCC  
 CAAGACAGCAATGAGCAAGCTAGCCAAACGGGAGGAGGTGTTAGAAGAGGAGGCAAGGAGGCCCCGCTCA  
 GAGCTGGCCAAGGAGTTAGCCAAGTCAGAAAAGAAAGCAAAAGAGCCGTCGAGAAGCCCCAGAAAAAC  
 CCTCCAAGCCAGAGAGGGTGAAGACAGAGTCCAGCGAAGCACTGAAGGCTGAGAAGCGGAAGCTGATCAA  
 GGATAAAGTGGGCAAGAAGCACCTGAAGGAAAAGATTTCAAAGCTGGAGGAGAAGAGGGAAGGAGAAG  
 AAGGAGATCAAGAAGGAAAGGAAGAACTCAAGAAGGAGGAGGGAAGGAAGGAGGAGAAAAAGGACGCCA  
 AGAAGGATGAAAAGAGGAAAGATACCAAGCCGGAAGTCAAGAAATTTCTAAACCAGACCTGAAGCCTTT  
 TACCCCTGAGGTCCGTAAGACCCTCTACAAAGCCAAGGCCCTGGAAGGCTCAAGGTGGACAAAGGCCGA


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GCTGCCCCGTTGGGAAAAAGAATTGTCTTCTGAGCCCCGGACACCCCCAGCCCAGAAAGGGGCTGCACCGC  
 CTCTGCTGCCAGTGGGCACAGAGATTGGCCTTGTCTTACCAGAGGACCTCACACAGGACTTTGAGGA  
 GTTGAAGCGTGAGGAGAGAGGTTTGTGGCTGAACCAAGGGACACGGAACCTGGGTGAGAAACCGCTCCCT  
 GCAGATGCCTCCGAGCAGGGACGCCAAGCACAGCCATCCAGGTGACCCAACCCCTGCTTCAGTGTTGG  
 AGCAAGAACAGGTAGAAAGGGAGAAAGAGTTGTCCCAGACTTTCCGAGGATAAAGGGAGCAAGAACAG  
 AGCCCCAGACTCAGGTGCTGAGGTAGAGAGAGAGAAAGAACTGGGAGGAAAGGAGCCGAGAGAAAGCA  
 GAGCTGACCCAGAGAACATTGCTGCGCCAGGGAGGAGAGTGAACTGAGGTAAAGGAGGATGTGATAG  
 AAAAGGCTGAGTTAGAGGAGATGGAGGAGTCCATCCCTCAGATGAGGAAGAGGAAGAGACAAAGGCTGA  
 GAGTTTTTATCAAAAACATATGCAGGAAGCCTTAAAGGTAATCCCAAAAGGCAGAGAGGCTCTTGCGGC  
 CGGAACTGGGATTCCAGGGCAAGGCGCCTGAAAAGGAGACAGCATCCTTCTGAGCAGCTTGCCACGC  
 CTGACAGGACCGCTGAGCATGTCTCTACATTACAGGATGAGACGATCCCTGGCTACTCAGAGACTGAGCA  
 GACTATCTCAGACGAGGAGATTCACGACGAGCCGACGAACGCCAGCCCCACCCGATTCCCCACGAGT  
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 GCTCCCTGTTGCTCGACACTGTCAAGTATTCCTCTTCCCGCACTGAAGCCACTCAGGCTTGAGCTA  
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 TGTGAGGATTTCTCTGTGACCGGGAGTCGGAGAAGAAAGGAGAGTCTGTGGGAGAGGTTTGACCGGG  
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 GTTTGGTGCCCTGGACATGCCCTACATCCGGGGAAACCGGCCCTCGGAGAAGTGAGGAACGGTGCCTC  
 AGCCCAGATGATGACCGTGAAGATGGCGTCTCTCCACCATCTGGCCACCCAGTGTGCCACACGC  
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 AAAGACGCTCCTGGTGTGAGCAAGGAAGATGCTGAAGAGCAGACAGTTAAGCCAGGGCTGAGGAGGCC  
 ATGTGAGAAGAGGGCAAAGTACCTCTTCCAGGAGCCCCAAGCCAGGACACACTTGGGAGCCTTGCTG  
 GGGGTGAGCTGGCTGTACTATTCAACTGTTGCCAGAACAAGACAAGCAGTAGTGTGAGACTGGAGA  
 GGCAGGCGCAGCTTCAGGAGCAGGCAGCCTTCTGGAGAAGTGAGGACTCAGGAGCCCGTGAGCCTCAG  
 AAAGATGAGCTGCTTGGGTTTACTGATCAAAGCTTTCCCTGAAGATGCAGAGTCCCTGTCTGTCTCA  
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 GCTACACAAAGACCTTTGGCCAATGGTGTCCCCAGAAGACACCCAGTCACTTTCTTCTCGGAAGAGAGT  
 CCTAGCAAGGAGACCTCTCTGGATATCTTCTAAGCAGCTCTCTCCAGAAAGCCTTGGCACCCTCAGT  
 TTGGAGAACTAAGCCTAGGAAAGGAAGAAAGGGCCTCTGGTGAAGGCAGAAGACAACCTTTGCCACCT  
 AGCTCCTGTGTCTATTCCAGAGCCCCACACAGCCACAGTGTACCTCCCACAGATGAGGCTGCTGGAGAG  
 GCAGGTCTCACAGATGAGAGCCCTGCTGGAATTTACCTGGCAGCTCTTCTCTCACTCTGCACTGTGAG  
 GTGACAGGAAACACTCACCTGGAGAGATCACGGGCCCTGGTGGACACTTATGACATCGGATAGCTCCCT  
 CACCAAGAGTCCCGAGTCTTGTCAAGTCCCGCATGGAGGACCTGGCCATGGAGTGGGGGGTAAAGCT  
 CCGGGGTGGAAGACAGAGCCACTGAACAGAAGGAGAAGGAACTCGAGCGAAAGAGTGAACCCCTACAGC  
 AGAAGGACCAGATTCTGTGGAAGAGGCTGCTCTTGTCCAGCGGACTCAGTCATGCATCAGAAGGACGA  
 GGCTCTAGATGAAGAGAAAGCCTGGAGGACAGCAGGATAAGACTTCAGAACAGAAAGGCAGAGACTTG  
 GACAAAAAAGACACGGCTGTGGAGCTGGGCAAGGCCCAAGCCAAAGGCAAGACTTATATCTGGAGG  
 ACCAGGGCTGGCAGAGAAGGACAAGGCCTTAGAACAAAGGGGTGAGCCCTGCAACAGACCCAGGCCCC  
 TGAACCAAGAGCCAGAGCACAAGAGCACAGAGATTTAGAACAAAGGACGAGCATTTAGAGCTGAGAGAT  
 AAGACTCTGAAGAGAAAGATAAAGTGTAGTACTGGAAGACAGGGCTCCAGAGCACATCATCCCCAAC  
 CAACACAGACAGACAGAGCTCCAGAACACAGAAGCAAGGTTGATAAAGAACAGAAGGATGAGGCCTCGGA  
 AGAGAAAGAACAGGTTTTAGAACAAAAGACTGGGCCCCGAGAAAAGAGGGTGTGCTTGGACCAAGAC  
 AACAGGGCTGCTGGACAGAAAGATGGGACCCTAAAAGAAGACAAAACCTCAGGGGCAGAAGAGCTCTTCC  
 TGAAGATAAAAGTACAACACCAAAAGAGATGACCCTTGACCAAAAGTCTCCAGAAAAGGCCAAAGGTGT  
 GGAGCAGCAGGATGGAGCTGTCCCGGAGAAGACCAGAGCTTTGGGGCTGGAAGAGAGCCAGAAAGGAG  
 GGCAAGGCTCGAGAGCAGGAAGAGAAATCTGGAAGGAGCAGGATGTGGTCCAGGGATGGCGAGAAACAT  
 CTCCAACCAGAGGAGAGCCTGTTCCAGCCTGGGAGGGCAAGTCTCCTGAGCAGGAAGTCAAGTATTGGAG  
 AGACAGAGACATAACCTACAGCAGGATGCATACTGGAAGGAGCTAAGCTGTGAGAGGAAGGTCTGGTTC  
 CCCCATGAGCTAGATGGACAAGGAGCCGTCCACGGTACTCTGAGGAACGTGAAAGTACGTTTCTTGATG

AGGGGCCAAATGAACAAGAAATAACCCCACTGCAGCACACTCCCCGGAGTCCCTGGGCCTCGGATTTC  
 GGATTTCCAGGAGCCCCTGCCACAGAAGGGGCTGGAAGTAGAGCGCTGGCTTGCTGAGTCGCCAGTTGGC  
 TTGCCACCAGAGGAGGAGGACAACTGACTCGCTCTCCCTTTGAGATCATCTCCCTCCAGCATCCCCAC  
 CTGAGATGACTGGACAGAGGGTTCCCTCAGCTCCAGGACAGGAAAGCCCTGTTCCAGACACTAAGTCCAC  
 ACCACCCACGAGGAATGAACCTACCACCCCATCATGGCTAGCTGAGATCCCACCATGGGTACCTAAGGAC  
 AGGCCCCTGCTCCTGCACCCCTCTCTCCAGCTCCAGCTCCCCGACCCCGCCCCAGACCCACATGCTC  
 CTGCGCCCTTCTCCTGGGGCATCGCTGAATATGACAGTGTGGTGGCTGCGGTGCAGGAGGGGCGAGCTGA  
 GTTGGAAGGTGGTCCATACTCCCCCTAGGGAAGGACTATCGCAAAGCTGAAGGGGAAAGGGAAGGAGAG  
 GGTGGGGCTGGAGCTCCTGACAGCAGCTCCTCAGTTCAAAGGTCCCAGAGGTTACGGAGAGTCACACCA  
 CCAGGGATGCTGAGCAGACTGAGCCAGAGCAGAGGGAGCCACACCCATATCCCGACGAGAGGAGCTTCA  
 GTATGCAGACATCTACGAACAGATGATGCTTACTGGGTGGGCTGCTTGCCCCACAGGAGCCTCCA  
 CTGGGGGCATCTGGGATTGGCCCCACACCTCTCAACCAAGGAGGAGGCTGCTGGCCGCAATAAGTCTG  
 CAGAGAAGGAGCTTTCATCCGTGTGTCGCCCCAAACCTCCACTCTGACACTCCAACGTTTAGCTATGC  
 ATCTCTGGCAGGACCCACTATACCTCCCAGGCAAGAACCTGAGCCAGGGCCCAATGTGGAGCCAGCTTC  
 ACCCTCTGCACTGCCCCCTCTGCCCCCTATCTCCCTGAGCCAAGACCAAGTCCCCCTCTTAATGGAA  
 GCACTACGAGCTGTGGCCAGACAGGAGGACCCATCCCCAAAGGAAGCAGGCCGAAGTCACTGGGATGA  
 TGGTACTAATGACTCAGACCTGGAGAAGGGGGCTCGGGAACAGCCGGAGAAAGAGACCCAGTCCCCAAGT  
 CCCCATACCCCCATGCCTGTGGGCCACCCCTTCACTGTGGCTGAAACTGAGGCGCATAGCAGCCTTCTCT  
 CAGACTCTACCTAGGACCTGTCCGACCAAGTTTGGACTTCCCTGCTTCAGCCTTTGGCTTCTCCTCCTT  
 GCAGCCTGCTCCCCCTCAGCTGCCCTCTCCGGCTGAACCCCGCTCCGACCCCTGTGGCTCTCTTGCTTC  
 TCTGGGACCGAGCTCTGGCCCTGGTTCAGGAACCTCAACCAAGAACCCGACATGATGAGTACTTGAAG  
 TGACCAAGGACCCAGCCTGGATTCTCACTGCCCAACTCCATCAGCCAGCTCGCCAGGGGCCCTCT  
 TCTCTCAATCTACCCGACCTGCCTGCCAGCCTTGTCTGAAGGTCCTTCTGAGGCTACCAGCCT  
 GTGATTTCAAGTGTGGCTGAACGCTTCCCTCCAGTCTAGAGGTGGCTGAACAGAGTTTCAAGGAAATTGG  
 GCCCAGGGAACGAGCAGCTGCCACAGCCTCTGGGACCTCACTCCTCTGAGCCAGCCCTTTAGCTTC  
 CCGGGACTTGGCTCCAGCTCCAGCTCCAGCTCCAAGCCTGCCTGGAACTTGGGTGACGGTACC  
 CTGTCTGCCGCCGGAGTGCTCAGGGAACTCACAAGAAGCCAAGCCCTTTCTGAGCCACTCTGGAG  
 ATCATGAAGCTAATGGCCCAGGAGAAACAGCCTTAATCCCCAGGGTTTGCCACAGCCACAGCAGAAAA  
 AGAAGAGGCTGAAGCCCTCATGCTTGGGAACGAGGCTCTGGCCGAGGGAGCGGAGAGGAGCTCCCGG  
 CCGGATACACTTCTCTCATCTGAGCAGCGTCTGGGAAGAGCTCCGGGGTCCACCTGCAGTCTTCTT  
 CTGAAGTCGAGGCTGGACCTCAGGGATGTGCTACAGACCCCGCCCCCACTGCGGGGAGCTTTCCCTTC  
 ATTCCTGAACCTCCTTTGCCCCATCCACAGATGACAGTGAACCTTTCAACGGAAGAGGCTCGGCTGGCA  
 GGAAAAGGAGGGCGGCGCGGGCAGGGAGGCCAGGGGCCACAGGAGGTCCATGCCCTATGGCTGATGAGA  
 CACCCCCACATCAGCCAGCAGCTCAGGCTCCTCACAATCAGATTCTGATGTCCACCAGAACTGAGGA  
 GTGTCCATCCATCAGCTGAGGAGCCCTTCACTCAGATGAAGATGGGACTTCTTGCTGTGGACAAA  
 GCTGGGGGAGTTAGTGGAACCTACACCCCAAGCTGGCCATGACCCACCCCAAGCCCTTACCGGACC  
 CCCGCCACCCCTCCCCGACCGGATGTTTGCATGGCTGACCCGAGGGGCTCAGCTCAGAGTCTGGGAG  
 AGTTGAGAGACTACGGGAAAAGGTGCAGGACGACCTGGCCGTAAAGCCCTGGACGGGCAAGCCTGCA  
 TCTCTGCTCGGCTCTGGATATTTCGGGAAAACGGTCACTACTCTGGCAAAGGGCTGTAGATCGAA  
 CATCCCGGGCCCTACCCGACCACGGAGCACCCCAAGCCAGGTACCTCAGAAGAAAAGGATGGTCACAG  
 CCCCATGTCTAAAGGCTTAGTCAATGGCTCAAGGCAGGATCCACAGCCTTGGGGTCAAGGGTAGCTCT  
 GGCCCTCCTGTGTATGTGGATCTTGCTATATCCCAATCACTGCAGCGCAAGACTGCTGATCAGGACT  
 TCTTCCGCCGAGTGCCTGCATCTACTATGTGGTCACTGGAATGACCTGCCAATGGCGAGCCAAAGCCG  
 GGCTGTGCTGGATGCCCTGCTGGAAGGCAAGGCCAATGGGGGAGAACCTTCAAGTGACTCTGATTCCC  
 ACTCATGATACGGAGGTGACTCGTGAGTGGTATCAGCAGACACAGCAACAGCAGCAACTGAACGTCC  
 TGGTCTGGCTAGCAGCAGCACTGTGGTATGCAGGACGAGTCTTTCCAGCCTGCAAGATTGAGTCTG  
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_001173506                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 8331 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                                                                                                                                             |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                    |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <u>NM_001173506.1, NP_001166977.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 11553 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq ORF:</b>            | 8331 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 17754                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>            | <u>Q9QYR6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cytogenetics:</b>          | 2 60.37 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Summary:</b>          | <p>Structural protein involved in the filamentous cross-bridging between microtubules and other skeletal elements.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate 5' sequence, resulting in a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |