

## Product datasheet for **MC229351**

### Map4 (NM\_001205332) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Map4 (NM\_001205332) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Map4  
**Synonyms:** AA407148; MAP-4; Mtap-4; Mtap4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229351 representing NM\_001205332  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGACCTCAGTCTTGTGGATGCGTTGACAGAACCACCTCCAGAAATTGAGGGAGAAATAAAGCGAG  
ACTTCATGGCTGCGCTGGAGGCAGAGCCCTATGATGACATCGTGGGAGAACTGTGGAGAAAAGTGGT  
TATTCCTCTCCTGGATGGTATGAGAAAACCGGAACTCAGAGTCCAAAAAGAAACCTGCTTAGACACT  
AGCCAGGTTGAAGGTATCCCATCTTCTAAACCAACTCCTAGCCAATGGTGATCATGGAATGGAGGGGA  
ATAACTGCAGGGTCTCCAAGTACTTCTTGAAGAGAGAGTGGACTATCCGGATTATCAGAGCAGCCA  
GAACTGGCCAGAAGATGCAAGCTTTTGTTCAGCCTCAGCAAGTGTAGATACTGACCAGGCTGAGCCC  
TTTAACGAGCACCAGTATGATGGTTTGGCAGATCTGCTCTTTGTCTCCAGTGGACCCACGAACGCTTCTG  
CATTTACAGAGCGAGACAATCCTTCAGAAGACAGTTACGGTATGCTTCCCTGTGACTCATTGCTTCCAC  
GGCTGTTGTATCTCAGGAGTGGTCTGTGGGAGCCCAACTCTCCATGTTTCAGAGTCTGTGTCTCCCA  
GAGGTTACTATAGAAACCCTACAGCCAGCAACAGAGCTCTCCAAGGCAGCAGAAGTGAATCAGTGAAG  
AGCAGTCCAGCTAAAGCATTGGAACGATGGCAGAGCAGACCACTGATGTGGTGCACCTCCATCCAC  
AGACACAACACCAGGCCAGACACAGAGGAGCAGTGGCTAAAGACATAGAAGAGATCAGCAAGCAGAT  
GTGATATTGGCAATGTACGCAGCCATCTACTGAATCGGATATGTTCTGGCCAGGACATGGAATAC  
TCACAGGAACAGAGGCAGCCACGCTAACAAATATCATATTGCCTACAGAACCAGACGAATCTTCAACCA  
GGATGTAGCACCCTATGGAAGAAGAAATGTCCAGGCAATGATACGACATCCCCAAAGAAACAGAG  
ACAACACTTCCAATAAAAATGGACTTGGCACCCTGAGGATGTGTTACTTACCAAGAAACAGAAGTAG  
CCCCAGCAAGGGCATGGTTTCACTCTCAGAAATAGAAGAGGCTCTGGCAAGAATGATGAGTCTCTGC  
AGAAATACCTGTGGCTCAGGAGACAGTGGTCTCAGAAACAGAGGTGGTCTGGCAACAGAAGTGGTACTG  
CCCTCAGATCCCATAACAACATTGACAAAGGATGTGACTCCCTTAGAAGCAGAGAGACCGTTGGTGA  
CGGACATGACTCCATCTCTGAAACAGAAATGACCCTAGGCAAGAGACAGCTCCACCCACAGAAACAAA  
TTTGGGATGGCCAAAGACATGTCTCACTCCAGAAATCAGAAGTACTCTGGGCAAGGACGTGGTTATA  
CTTCCAGAAACAAAGGTGGCTGAGTTTAACAATGTGACTCCACTTTCAGAAGAAGAGGTAACCTCAGTCA



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AGGACATGTCTCCGCTCTGCAGAAACAGAGGCTCCCTGGCTAAGAATGCTGATCTGCACTCAGGAACAGA
GCTGATTGTGGACAACAGCATGGCTCCAGCCTCCGATCTTGCACTGCCCTTGAAACAAAAGTAGCAACA
GTTCCAATTAAGACAAAGGAAGTACAGACTGAAGAAAACACGCTGAAGACTCCCAGTTAGCATCTA
TGCAGCACAAGGGACAGTCAACAGTACCTCCTTGACACGGCTTACCAGAACAGTCAAAGCTGCAGAAC
AATGTCTACCTTACCAATAGATGCACCTTCTCCATTAGAGAACTTAGAGCAGAAGGAAACGCCTGGCAGC
CAGCCTTCTGAGCCTTGCTCAGGAGTATCCCGCAAGAAGAAGCAAAGGCTGCTGTAGGTGTGACTGGAA
ATGACATCACTACCCCGCAAACAAGGAGCCACCACCAAGCCAGAAAAGAAAGCAAAGCCTTTGGCCAC
CACTCAACCTGCAAAGACTTCAACATCGAAAGCCAAAACACAGCCCACTTCTCTCCCTAAGCAACCAGT
CCCACCACCTCTGGTGGGTTGAATAAAAAACCCATGAGCCTCGCCTCAGGCTCAGTGCCAGCTGCCCCAC
ACAAACGCCTGCTGCTGCCACTGCTACTGCCAGGCTTCCACCCTACCTGCCAGAGACGTGAAGCCAAA
GCCAATTACAGAAGCTAAGGTTGCCGAAAAGCGGACCTTCCATCCAAGCCTTCACTGCCCCAGCCCTC
AAACCTGGACCTAAAACACCCCAACCGTTTCAAAGCCACATCTCCCTCAACTTTGTTTCCACTGGAC
CAAGTAGTAGAAGTCCAGCTACAACCTGCCTAAGAGGCCAACAGCATCAAGACTGAGGGGAAACCTGC
TGATGTCAAAGGATGACTGCTAAGTCTGCCTCAGCTGACTTGAGTCGCTCAAAGACCACCTCTGCCAGT
TCTGTGAAGAGAAACACCACTCCACTGGGGCAGCACCCAGCAGGGATGACTTCCACTCGAGTCAAGC
CCATGTCTGCACCTAGCCGCTTCTTCTGGGGCTTTCTGTGGACAAGAAGCCCACTTCCACTAAGCCTAG
CTCCTCTGCTCCCAGGTGAGCCGCTGGCCACAACCTGTTTCTGCCCCTGACCTGAAGAGTGTTCGCTCC
AAGGTCGGCTCTACAGAAAACATCAAACACCAGCCTGGAGGAGCCGGTCCAGATAGTATCAAAAAAG
TGAGCTACAGCCATATCAATCCAAGTGTGGTTCCAAGGACAATATTAAGCATGTCCCTGGAGGTGGCAA
TGTTTCAGATTCAGAACAGAAAGTGACATATCCAAGTCTCCTCAAGTGTGGGTCAAAGCTAATATC
AAGCACAAGCCTGGTGGAGGAGATGTCAAGATTGAAAGTCAGAAGTTGAACCTCAAGGAGAAGGCCCAAG
CCAAAGTGGATCCCTTGATAACGTGGGCCACTGCCTGCAGGAGGTGCCGTGAAGACTGAGGGCGGTGG
CAGTGAGGCCCTTCCGTGTCCAGGCCCCCGCTGGGGAGGAGCCAGTCACTCCCTGAGGCTGCGCCTGAC
GCTGGCGCCCTACTTCAGCCAGTGGCCTCAGTGGCCACACCACCTGTCAAGGGGTGGTACCAAGGG
AGCCCCAGACCTTGACAGCCAGATCCAGGAGACAAATGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001205332
- Insert Size:** 3261 bp
- OTI Disclaimer:** 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001205332.1](#), [NP\\_001192261.1](#)

RefSeq Size: 5556 bp

RefSeq ORF: 3261 bp

Locus ID: 17758

UniProt ID: [P27546](#)

Cytogenetics: 9 59.83 cM

Gene Summary: Non-neuronal microtubule-associated protein. Promotes microtubule assembly.  
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) differs in the 3' UTR and has multiple coding region differences, compared to variant 1, one of which results in a frameshift. The resulting protein (isoform 4) has a distinct C-terminus and is shorter than 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.