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# Product datasheet for SC310767

## MAP2 (NM_001039538) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | MAP2 (NM_001039538) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | MAP2 |
| **Synonyms:** | MAP-2; MAP2A; MAP2B; MAP2C |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**Fully Sequenced ORF:**

```
>SC310767 representing NM_001039538.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGATGAACGGAAAGATGAAGCAAAGGCACCTCACTGGACCTCAGCACCGCTAACAGAGGCATCT
GCACACTCACATCCACCTGAGATTAAGGATCAAGGCGGAGCAGGGGAAGGACTTGTCCGAAGCGCCAAT
GGATTCCCATACAGGGAGGATGAAGAGGGTGCCTTTGGAGAGCATGGGTCACAGGGCACCTATTCAAAT
ACCAAAGAGAATGGGATCAACGGAGAGCTGACCTCAGCTGACAGAGAAACAGCAGAGGAGGTGTCTGCA
AGGATAGTTCAAGTAGTCACTGCTGAGGCTGTAGCAGTCCTGAAAGGTGAACAAGAGAAAGAAGCTCAA
CATAAAGACCAGACTGCAGCTCTGCCTTTAGCAGCTGAAGAAACAGCTAATCTGCCTCCTTCTCCACCC
CCATCACCTGCCTCAGAACAGACTGTCACAGTGGAGGAAGCAGCAGGTGGGGAATCAGCTCTGGCTCCC
AGTGTATTTAAACAGGCAAAGGACAAAGTCTCTAATTCTACCTTGTCAAAGATTCCTGCTTTACAGGGT
AGCACAAAGTCCCCAAGATACAGCTCAGCCTGCCCTAGCACGACTAAAAGGGCTACATTTTCTGACAGT
TTATTAATACAGCCCACCTCAGCAGGCTCCACAGACCGTTTGCCATACTCAAAATCAGGGAACAAGGAC
GGAGTAACCAAGAGCCCAGAAAAGCGCTCTTCTCTCCCAAGACCTTCCTCCATTCTCCCTCCTCGGCGA
GGTGTGTCAGGAGACAGAGATGAGAATTCCTTCTCTCTCAACAGTTCTATCTCTTCTTCAGCACGGCGG
ACCACCAGGTCAGAGCCAATTCGCAGAGCAGGGAAGAGTGGTACCTCAACACCCACTACCCCTGGGTCT
ACTGCCATCACTCCTGGCACCCCACCAAGTTATTCTTCACGCACACCAGGCACTCCTGGAACCCCTAGC
TATCCCAGGACCCCTCACACACCAGGAACCCCCAAGTCTGCCATCTTGGTGCCGAGTGAGAAGAAGGTC
GCCATCATACGTACTCCTCCAAAATCTCCTGCGACTCCCAAGCAGCTTCGGCTTATTAACCAACCACTG
CCAGACCTGAAGAATGTCAAATCCAAAATCGGATCAACAGACAACATCAAATACCAGCCTAAAGGGGGG
CAGGTTAGGATTTTAAACAAGAAGATCGATTTTAGCAAAGTTCAGTCCAGATGTGGTTCCAAGGATAAC
ATCAAACATTCGGCTGGGGGCGGAAATGTACAAATTGTTACCAAGAAAATAGACCTAAGCCATGTGACA
TCCAAATGTGGCTCTCTGAAGAACATCCGCCACAGGCCAGGTGGCGGACGTGTGAAAATTGAGAGTGTA
AAACTAGATTTCAAAGAAAAGGCCCAAGCTAAAGTTGGTTCTCTTGATAATGCTCATCATGTACCTGGA
GGTGGTAATGTCAAGATTGACAGCCAAAAGTTGAACTTCAGAGAGCATGCTAAAGCCCGTGTGGACCAT
GGGGCTGAGATCATTACACAGTCCCCAGGCAGATCCAGCGTGGCATCACCCCGACGACTCAGCAATGTC
TCCTCGTCTGGAAGCATCAACCTGCTCGAATCTCCTCAGCTTGCCACTTTGGCTGAGGATGTCACTGCT
GCACTCGCTAAGCAGGGCTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001039538

**Insert Size:** 1680 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001039538.1 |
| **RefSeq Size:** | 5844 bp |
| **RefSeq ORF:** | 1680 bp |
| **Locus ID:** | 4133 |
| **UniProt ID:** | P11137 |
| **Cytogenetics:** | 2q34 |
| **Protein Families:** | Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS |
| **MW:** | 59 kDa |
| **Gene Summary:** | This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010]<br>Transcript Variant: This variant (5) differs in the 5' UTR and includes an alternate in-frame exon, compared to variant 2, resulting in a longer protein (isoform 5), compared to isoform 2. |

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