

## Product datasheet for **RN204402**

### Map1a (NM\_030995) Rat Untagged Clone

#### Product data:

|                           |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                             |
| Product Name:             | Map1a (NM_030995) Rat Untagged Clone                                            |
| Tag:                      | Tag Free                                                                        |
| Symbol:                   | Map1a                                                                           |
| Synonyms:                 | Mtap1a                                                                          |
| Mammalian Cell Selection: | Neomycin                                                                        |
| Vector:                   | pCMV6-Entry (PS100001)                                                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                            |
| Fully Sequenced ORF:      | >RN204402 representing NM_030995<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGATGGTGTGGCTGAGTTCTCCGAGTATGTCTCTGAGACTGTGGATGTGCCATCCCCCTTTGACCTGC  
TTGAACCGCCACCTCAGGAGGCTTCTCAAGCTCTCTAAGCCTTGCTGCTACATCTTCTGGTGGCCG  
TGGGACTCTGCTCTTTGCTGTCAATGGCTTTAACATCCTGGTGGATGGCGTTCCGATCGCAAGTCC  
TGCTTCTGGAAGCTGGTGGCCACCTGGACCGCATCGACTCCGTGCTGCTCACACATTGGGGCTGACA  
ATCTGCCGGGCATCAACGGCCTCTGCAGCGCAAGGTGGCAGAGCTAGAGGAGGAGCAGTCCCAGGGCTC  
CAGCAGCTACAGCGACTGGGTGAAGAACCTCATCTCCCTGAGCTTGGAGTTGTGTTCTTCAACGTGCCT  
GATAAGCTCCGGCTGCCGACGCTCCCGCAAGGCCAAGCGCAGCATTGAAGAGGCTGTCTCACTCTTC  
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GACCCTCTTCCACAAATGGGTGTGGTAGGCTGGACATGTATGTCCTCAACCCCGTCAAGGACAGTAAG  
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CCCTACTGAGAAGATTGTGCGTGTCTTTTCCCGGAAATGCTCCCCAGAACAAAGATCTTGAGGGGCTTG  
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CAAGACAGCAGTGAGCAAGCTGGCCAAACGGGAGGAAGTGTGGAAGAGGGGCCAAGGAGGCCCTCA  
GAGCTGGCCAAGGAGTTAGCCAAGACAGAAAAGAAAGCAAAAGAACCGTCTGAGAAGCCCCAGAAAAAC  
CCTCCAAGTCCGAAAGGGTGAAGGGCGAGTCCAGCGAAGCGCTGAAGGCCGAGAAACGGAGGCTGATCAA  
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GCCGCCCCGTGGAGAAAAGGAGTTGTCTTCTGAGCCCCGGACACCCCCAGCCCAGAAGGGGGCTGCTCCG  
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 ACTACAGCAGGATGCATACTGGAGGGAGCTAAGCTGTGACAGGAAGGTCTGGTCCCCCATGAGCTAGAT  
 GGCCAAGGAGCCCGTCCACGGTACTGTGAGGAACGTGAAAGCACTTTCTTGATGAGGGGCCAGATGAAC

AAGAAATAACCCCCCTGCAGCAGCTCCCCGGAGTCCCTGGACCTCGGATTTCAAGGATTTCCAGGAGCC  
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 GAGGACAACTGACACGCTCGCCCTTTGAGATCATCTCCCTCCAGCATCCCCACCTGAGATGACTGGAC  
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 CCCCCTCGCGCCCTATCTCCCTGAGCAAAGACCTGAGTCCCCCTTTAATGGAAGCACTGTGAGCTGCA  
 GCCCGGACAGGAGGACCCATCCCCAAAGGAAACGGGCCGAGGTCACTGGGATGATGGTACCAATGACTC  
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 CTGGCCTTGGTTCCAGGAACCTCAACAGAACCCGACATGATGAGTACCTGGAAGTGACCAAGGCACCCA  
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 CAGACCTGCCTGCCAGCCTTGTCTGAAGGGTCTCTTCTGAGGCTACCACGCCTGTGATTTCAGTGTG  
 GCCGAACGCTTCCCTCCAGGTCTCGAGGCAGCTGAACAGAGTGCTGAAGGACTGGGCTCAGGAAAAGAGT  
 CGGCTGCCACAGCCTCTGGGACCTCACTCCCCTGAGCCAGCTCCCTCAGCTTCACTGGACTTGCTCC  
 AGCTCCAGCTCCAGCTCCAGCTCCAGCTCCAGGCTGCCTGGAGACTTGGGCGATGGTACCTGCCTGC  
 CGCCCTGAGTGACAGGGGAACCTACCAAGAAGCCAAGCCCTTCTGAGCCCTCTGGAGATCATGAAG  
 CCAATGGCCAGGAGAAACAGCCTTAATCCCCAGGGTTTGTACAGCCACGGCAGAAAAGAAGAGGC  
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 CCTGAACCCTCCTCTGCCTCCATCCACAGATGACAGTGACCTTTCCACGGAAGAAGCTCGGCTGGCAGGA  
 AAAGGAGGGAGGCGACGGGTAGGAGGCCAGGGGCCACGGGAGGTCCATGCCCTATGGCTGATGAGACAC  
 CCCCCACATCAGCCAGCGACTCAGGCTCCTCACAGTCAGATTCTGATGTCCCACCAGAACTGAGGAGTG  
 TCCATCCATCAGAGTGAGGCAGCCCTCGACTCAGATGAAGATGGGGACTTCTTGCTGTGGACAAAGCT  
 GGGGGAGTTAGCGGAACCTACCATCCCAGACCTGGCCATGACCCACCCCCAACCCCTACCAGACCCCC  
 GCCCATCCCCCTCACGACCGGATGTTTGCATGGCTGACCTGAGGGGCTCAGCTCAGAGTCGGGGAGGGT  
 TGAGAGACTACGAGAAAAGGACGACCTGGCCGTAGGGCCCTGGCCGGGCCAAGCCTGCATCTCTGCT  
 AGGCGGTTGGATATTCGGGGAAAACGGTCACCTACTCTGGCAAAGGGCCTGTAGATCGAACATCTCGTA  
 CTGTACCCCGACACGGAGCACTCCAAGCCAGGTCACTCAGCAGAAAGAAAGGATGGTCACAGTCCCAT  
 GTCCAAAGGCTTAGTCAATGGCCTCAAGGCAGGATCAACAGCCTTGGGCTCCAAGGTGGTTCGGCCCT  
 CCTGTGTATGTGGATCTTGCTATATCCAAATCACTGCAGCGGCAAGACTGCGGATCAGGACTTCTTCC  
 GCCGAGTACGTGCGTCTACTATGTGGTCAGTGGAATGACCCTGCCAATGGCGAGCCAAGCCGGGCTGT  
 GCTGGATGCCCTGCTGGAAGGCAAGGCCAGTGGGGGAGAACCTTCAGGTGACTCTGATTCCCACTCAT  
 GACACGGAGGTGACTCGTGAGTGGTATCAGCAGACATGAACAGCAGCAGCAGCTGAATGTCCTGGTCC  
 TGCGGAGCAGCAGCACTGTGGTATGCAGGACGAGTCCTTCCAGCCTGCAAGATTGAGTTC**GA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_030995

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Insert Size:</b>           | 8325 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>RefSeq:</b>                | <u><a href="#">NM_030995.1</a></u> , <u><a href="#">NP_112257.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>           | 10120 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq ORF:</b>            | 8325 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 25152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">P34926</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 3q35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | structural protein involved in the filamentous cross-bridging between microtubules and other cytoskeletal elements; may play a role in stabilizing the mature neuronal cytoskeleton [RGD, Feb 2006]                                                                                                                                                                                                                                                                                                                     |