

## Product datasheet for **RG226339**

### MAP4 (NM\_001134364) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4 (NM_001134364) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226339 representing NM_001134364 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGACCTCAGTCTTGCAGATGCATTAACAGAACCATCTCCAGACATTGAGGGAGAGATAAAGCGGG  
ACTTCATTGCCACACTAGAGGCAGAGGCCCTTTGATGATGTTGTGGGAGAACTGTTGGAAAAACAGACTA  
TATTCCTCTCCTGGATGTTGATGAGAAAACCGGAACTCAGAGTCAAAGAAGAAACCGTGCTCAGAACT  
AGCCAGATTGAAGATACTCCATCTTCTAAACCAACACTCCTAGCCAATGGTGGTCATGGAGTAGAAGGGA  
GCGATACTACAGGGTCTCCAACGAATTCCTTGAAGAGAAAATGGCCTACCAGGAATACCCAAATAGCCA  
GAACTGGCCAGAAGATACCAACTTTTGTTCACCTGAGCAAGTGGTCGATCCTATCCAGACTGATCCC  
TTTAAGATGTACCATGATGATGACCTGGCAGATTTGGTCTTCCCTCCAGTGCGACAGCTGATACTTCAA  
TATTTGCAGGACAAAATGATCCCTTGAAGACAGTTACGGTATGTCTCCCTGCAACACAGCTGTTGTACC  
TCAGGGGTGGTCTGTGGAAGCCTTAAACTCTCCACTCAGAGTCCTTTGTTTCCCAGAGGCTGTTGCA  
GAACTCCTCAGCCAACGGCAGTTCCTTAGAGCTAGCCAAGGAGATAGAAATGGCATCAGAAGAGAGGC  
CACCAGCACAAGCATTGGAATAATGATGGGACTGAAGACTACTGACATGGCACCATCTAAAGAAACAGA  
GATGGCCCTCGCCAAGGACATGGCACTAGCTACAAAACCGAGGTGGCATTGGCTAAAGATATGGAATCA  
CCCACCAATTAGATGTGACTGGCCAAGGACATGCAGCCATCCATGGAATCAGATATGGCCCTAGTCA  
AGGACATGGAACACCCACAGAAAAGAAGTGGCCCTGGTTAAGGATGTCAGATGGCCCACAGAAAACAGA  
TGTATCTTCAGCCAAGAATGTGGTACTGCCACAGAAAACAGAGGTAGCCCCAGCCAAGGATGTGACTGT  
TTGAAAGAAAACAGAGAGGGCATCTCCTATAAAAAATGGACTTAGCCCTTCCAAGGACATGGGACCACCCA  
AAGAAAACAAGAAAAGAAACAGAGAGGGCATCTCCTATAAAAAATGGACTTGGCTCCTTCCAAGGACATGGG  
ACCACCCAAGAAAACAAGATAGTCCCAGCCAAGGATTTGGTATTACTCTCAGAAATAGAGGTGGCACAG  
GCTAATGACATTATATCCACAGAAATATCCTCTGCTGAGAAGGTGGCTTTGCTCCTCAGAAAACAGAGG  
TAGCCCTGGCCAGGGACATGACTGCCCCGAAACCAACGTGATCTTGACCAAGGATAAAGCACTACC  
TTTGAAGCAGAGGTGGCCCCAGTCAAGGACATGGCTCACTCCAGAAAACAGAAATAGCCCCGGCCAAG  
GATGTGGCTCCGTCCACAGTAAAAGAAGTGGGCTTGTGAAGGACATGTCTCCACTATCAGAAAACAGAAA  
TGCTCTGGGCAAGGATGTGACTCCACCTCCAGAAAACAGAAGTAGTTCTCATCAAGAACGTATGTCTGCC



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TCCAGAAATGGAGGTGGCCCTGACTGAGGATCAGGTCCCAGCCCTCAAAACAGAAGCACCCTGGCTAAG  
 GATGGGGTTCTGACCCTGGCCAACAATGTGACTCCAGCCAAAGATGTTCCACCCTCTCAGAAACAGAGG  
 CAACACCAGTTCCAATTAAGACATGAAATTCACAAACACAAAAAGGAATAAGTGAGGATTCCCATTT  
 AGAATCTCTGCAGGATGTGGGCAGTCACTGCACCTACTTTCATGATTTACCAGAAACCGTCACAGGA  
 ACGGGGAAAAAGTGCAGCTTGCCGGCCGAGGAGGATTCTGTGTTAGAAAACTAGGGGAAAGGAAACCAT  
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 ACAAAGCCTTTGGCCACCCTCAACCTGCAAAGACTTCAACATCGAAAGCCAAAAACAGCCACTTCTC  
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 AGTGCCAGCTGCCCCACCAACGCCCTGCCGTCGCTCTGCCAGGCTTCCATTTACCTTCAAAAGAC  
 GTGAAGCCAAAGCCATTGCAGATGCAAAGGCTCTGAGAAGCGGGCCTCACCATCCAAGCCAGCTTCTG  
 CCCCAGCTCCAGATCTGGGTCCAAGAGCACTCAGACTGTTGCAAAAACCACAACAGCTGCTGCTGTTGC  
 CTAAGTGGCCAAAGCAGTAGGAGCCCTCCACGCTCTGCCAAGAAGCCCACTGCCATTAAGACTGAG  
 GAAAAACCTGCAGAAGTCAAGAAGATGACTGCAAAGTCTGTACCAGCTGACTTGTGAGTCCGCAAGAGCA  
 CCTCCACCAGTTCATGAAGAAAACCACCTCTCAGTGGGACAGCCCCGCTGCAGGGGTGGTTCACAG  
 CCGAGTCAAGGCCACCCATGCCTCCCGGCCCTCCACAACCTTTTATAGACAAGAAGCCACCTCG  
 GCCAAACCAGCTCCACCACCCCGGCTCAGCCGCTGGCCACCAATACTTCTGCTCTGATCTGAAGA  
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 GAAAAAACAGAGGCAGCTGCTACAACCCGAAAGCCTGAATCTAATGCAGTCACTAAAACAGCCGCCCA  
 ATTGCAAGTGCACAGAAACAACCTGCGGGGAAAGTCCAGATAGTCTCAAAAAAGTGAGCTACAGCCATA  
 TTCAGTCCAAGTGTGGTCCAAGGACAATTAAGCATGTCCCTGGAGGTGGTAAATGTTTCAGATTCAGAA  
 CAAGAAAGTGGACATCTAAGGTCTCCTCAAGTGTGGTCTAAGGCTAACATCAAGCACAAGCCGCTGGT  
 GGAGGAGATGCAAGATTGAAAGTCAGAAGTTGAACTTCAAGGAGAAGGCCAGGCCAAGTGGGATCCC  
 TCGATAATGTGGCCACCTACCTGCAGGAGGTGCTGTGAAGATTGAGACCTACAGGCTCAGCTTCCGGGC  
 AAATGCCAGGGCCGACCCGACCACGGGCGGACATTGTCTCCGCCCCCACTTCCCTGGCGGCCCC  
 AACTCGGGCTCCCGGCTTGGCCCTTCCCGGGCTGTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226339 representing NM\_001134364

Red=Cloning site Green=Tags(s)

MADLSLADALTEPSPDIEGEIKRDFIATLEAEAFDDVVGETVVGKTDYIPLLDVDEKTNSESKKKPCSET  
 SQIEDTPSSKPTLLANGGHGVEGSDTTGSPTFLEEKMAQYEPNSQNWPEDTNFCFQPEQVVDPIQTD  
 FKMYHDDDLADLVFPSSATADTSIFAGQNDPLKDSYGMSPCNTAVVPQGWSEALNSPHSEFVSPEAVA  
 EPPQPTAVPLELAKEIEMASEERPPAQALEIMMGLKTTDMAPSKETEMALAKDMALATKTEVALAKDMES  
 PTKLDVTLAKDMQPSMESDMALVKDMELPTEKEVALVKDVRWPTEITDVSSAKNVVLPTEVEVAPAKDVT  
 LKETERASPIKMDLAPSKDMGPPKENKETERASPIKMDLAPSKDMGPPKENKIVPAKDLVLLSEIEVAQ  
 ANDIISSTEISSAEKVALSSETEVALARDMTLPPETNVILTKDKALPLEAEVAPVKDMAQLPETEIPAK  
 DVAPSTVKEVGLLKDMSPLESETEVALGKDVTPPETEVVLIKVNCLPPEMEVALTEDQVPALKTEAPLAK  
 DGVLTLANNVTPAKDVPPLSETEATPVPKIDMEIAQTQKGISSESHLESLQDVGGSAAPTFMISPETVTG  
 TGKKCSLPAEEDSVLEKLGKPKPCNSQPSSESGIARPEEGRPVVSGTGNDIITPPNKELPPSPEKK  
 TKPLATTQPAKTSTSKAKTQPTSLPKQAPATTIGGLNKKPMSLASGLVPAAPPKRPASARPSILPSKD  
 VKPKPIADAKAPEKRASPSKASAPASRSGSKSTQTVAKTTTAAAVASTGPSSRSPSTLLPKKPTAIKTE  
 GKPAEVKKMTAKSVPADLSRPKSTSTSSMKKTTLSGTAPAAGVVPVSRVKATPMPSPSTTFIDKKPTS  
 AKPSSTTPRLSRLATNTSAPDLKNVRSKVGSTENIKHQPGGGRKVEKTEAAATTRKPESNAVTKTAGP  
 IASAQKQPAGKVQIVSKKVSYSYSHIQSKCGSKDNKHKVPGGGNVQIQNKKVDISKVSSCKGSKANIKHKPG  
 GGDVKIESQKLNFKKAQAKVGLSDNVGHLPAAGAVKIETYRLTFRANARARTDHGADIVSRPPHFGPGP  
 NSGSRVLGPLSRAVH

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



**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\\_001134364.2](#)

**RefSeq Size:** 6046 bp

**RefSeq ORF:** 3408 bp

**Locus ID:** 4134

**UniProt ID:** [P27816](#)

**Cytogenetics:** 3p21.31

**Gene Summary:** The protein encoded by this gene is a major non-neuronal microtubule-associated protein. This protein contains a domain similar to the microtubule-binding domains of neuronal microtubule-associated protein (MAP2) and microtubule-associated protein tau (MAPT/TAU). This protein promotes microtubule assembly, and has been shown to counteract destabilization of interphase microtubule catastrophe promotion. Cyclin B was found to interact with this protein, which targets cell division cycle 2 (CDC2) kinase to microtubules. The phosphorylation of this protein affects microtubule properties and cell cycle progression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]