

Product datasheet for SC127765

MAP4 (NM_030885) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MAP4 (NM_030885) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAP4 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_030885, the custom clone sequence may differ by one or more nucleotides |

ATGGCTGACCTCAGTCTTGCAGATGCATTAACAGAACCATCTCCAGACATTGAGGGAGAGATAAAGCGGG
ACTTCATTGCCACACTAGAGGCAGAGGCCCTTTGATGATGTTGTGGGAGAACTGTTGGAAAAACAGACTA
TATTCCTCTCCTGGATGTTGATGAGAAAACCGGAACTCAGAGTCAAAGAAGAAACCGTGCTCAGAACT
AGCCAGATTGAAGATACTCCATCTTCTAAACCAACTCCTAGCCAATGGTGGTCATGGAGTAGAAGGGA
CGGATACTACAGAAGCCTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030885 unedited
AATACGACTCACTATAGGGCGGCCGCAATTTCGGCACGAGGCCGTCTCGGCGGGCGGG
CAGTTGCAGTGGTGCAGAATGGCTGACCTCAGTCTTGCAGATGCATTAACAGAACCATCT
CCAGACATTGAGGGAGAGATAAAGCGGGACTTCATTGCCACACTAGAGGCAGAGGCCCTTT
GATGATGTTGTGGGAGAACTGTTGGAAAAACAGACTATATTCCTCTCCTGGATGTTGAT
GAGAAAACCGGAACTCAGAGTCAAAGAAGAAACCGTGCTCAGAACTAGCCAGATTGAA
GATACTCCATCTTCTAAACCAACTCCTAGCCAATGGTGGTCATGGAGTAGAAGGGAGC
GATACTACAGAAGCCTAGCGTGTCTCTCAACACTGGGGCTGCTGCAACACCAAGACCAAGT
ATCTTTCTAAGCATCGTTATACTTCTAAAACCTTCAGCATTTCAGAGCTTTGCTTTT
CATTCTGGACATGATGTAGAAGAACTGAGGGTAGTTCTTCGGGGCCTATTTCTGCTGA
TGCCTGAGCAAACAACCTGCTTCTCTTGTGCTCTGCAGGGTTTATGGAGCCTCATTTT
CCTTTGTGAACACAAAGTCAAATGAATCTTTTTAATTTTAGTAATTTTACAAAGGT
TATCTAATGTCTTTTATTTCTTTTCTTTATGATTNTATCATTGATTCATTCTCACA
TTNTTTCTTTAATATTTNTAGTTGACCTTTTCTTTGGGTTTCAATGTTACATGAA
TCAGATAGTGACACCAATGAGACATGTGTTTCATAAGGGTTGAGCCACCATACTGCGC
GAATTCCTTTCTCCTCTCTTTCTGAGCTGCTTTAGGGAGGTATCTACAGCTACT
AGTTCTCTCACTACAACTATATGAA



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| Restriction Sites: | NotI-NotI |
| ACCN: | NM_030885 |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p> |
| 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: | <ol style="list-style-type: none"> 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_030885.2 , NP_112147.2 |
| RefSeq Size: | 3155 bp |
| RefSeq ORF: | 300 bp |
| Locus ID: | 4134 |
| UniProt ID: | P27816 |
| Cytogenetics: | 3p21.31 |
| Domains: | tubulin-binding |

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]

Transcript Variant: This variant (3) lacks multiple exons in the 3' region and uses an unique splice site at the 3' end-exon compared to variant 1. The resulting isoform (3) has a distinct and shorter C-terminus, as compared to isoform 1.