

## Product datasheet for SC116082

### MAP126 (SPAG5) (NM\_006461) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP126 (SPAG5) (NM_006461) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP126
Synonyms:	DEEPEST; hMAP126; MAP126
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116082 sequence for NM_006461 edited (data generated by NextGen Sequencing)

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ATGTGGCGAGTGAAAAACTGAGCCTCAGCCTGTGCGCTTCGCCCCAGACGGGAAAAACCA
TCTATGAGAACTCCTCTCCGTGAACTTACCCTGCAGCCCGGTGCCCTCACCAACTCTGGA
AAAAGATCCCCCGCTTGCTCCTCGCTGACCCCATCACTGTGCAAGCTGGGGCTGCAGGAA
GGCAGCAACAACCTCATCTCCAGTGGATTTGTAAATAACAAGAGGACAGACTTATCTTCA
GAACATTTCAATCATTCCCAAAGTGGCTAGAACTTGTGAGCATGAATCAGATGAGCAG
CCTCTAGATCCAATTCGCCAAATTAGCTCTACTCCTAAAACGTCTGAGGAAGCAGTAGAC
CCACTGGGCAATTATATGGTAAAACCATCGTCTTGTACCATCTCCACTGGGGCAGCAA
CAAGACATGATATTTGAGGCCGTTTAGATACCATGGCAGAGACAAACAGCATATCTTTA
AATGGACCTTTGAGAACAGACGATCTGGTGAGAGAGGAGGTGGCACCCCTGCATGGGAGAC
AGGTTTTTCAGAAGTTGCTGCTGTATCTGAGAAACCTATCTTTAGGAATCTCCGTCCCAT
CTCTTAGAGGAGTCTCCACCAAATCCCTGTTCTGAACAACTACATTGCTCCAAGGAAAGC
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GAAGATATTCTGTCCACATGCCTGACACCAAATCTAGTAGAAATGGAATCCCAAGAAGCT
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TCCCAGACAGGCCTGGTTGGCACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGT
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GTCCCTCACCCAGAAACCAGGACAGTAGCACACAGACTGACACATCTCACAGTGGGATA
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AGAAATGTCATGCAATCATGGGTGCTTATCTCTAAAGAGCTGATATCCTTGCTTCACCTA  
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TGCCAGCCTATGGCCACCAATTGGATCCAGGAGAAAGTGTGGCTCTCTCAGGAGGTGGAC  
AAACTGAGAGTGATGTTCTGGAGATGAAAAATGAGAAGGAAAACTCATGATCAAGTTC  
CAGAGCCATAGAAATATCCTAGAGGAGAACCTTCGGCGCTCTGACAAGGAGTTAGAAAAA  
CTAGATGACATTGTTAGCATATTTATAAGACCCTGCTCTCTATTCCAGAGGTGGTGAGG  
GGATGCAAAAGAACTACAGGGATTGCTGGAATTTCTGAGCTAA

Clone variation with respect to NM\_006461.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006461 unedited  
 GTCACGATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGTGAACATGGC  
 GTCCTCGACTTGGTCTGAGACGTGATAGGCCTGCCTTCTGGTTGAAGATGTGGCGAGTGA  
 AAAAACTGAGCCTCAGCCTGTGCGCTTCGCCCCAGACGGGAAAACCATCTATGAGAACTC  
 CTCTCCGTGAACCTACCCTGCAGCCCGTGCCTCACCAACTCTGGAAAAAGATCCCCCG  
 CTTGCTCCTCGCTGACCCCATCACTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAAC  
 CATCTCCAGTGGATTTTGTAAATAACAAGAGGACAGACTTATCTTCAGAACATTTCACTC  
 ATTCTCAAAGTGGCTAGAAAATTGTGACGATGAATCAGATGAGCAGCCTCTAGATCCAA  
 TTCCCCAAATTAGCTCTACTCCTAAAACGCTCTGAGGAAGCAGTAGACCCACTGGGCAATT  
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 TTGAGGCCCGTTTAGATACCATGGCAGAGACAAACAGCATATCTTTAAATGGACCTTTGA  
 GAACAGACGATCTGGTGAGAGAGGAGGTGGCACCTGCATGGGAGACAGGTTTTTCAGAAG  
 TTGCTGCTGTATCTGAGAAACCTATCTTTCAGGAATCTNCGTCCCATCTCTTAGAGGAGT  
 CTCACCAAAATCCCTGTTCTGAACAACACATTGCTCCCAGGAAAGCCTGAGCAGTAGAA  
 CTGGAGCTGTGCGTGAGGACTTAGTACCTTCTGAAAAGTACGCCCTCTTGCCTTCTCTG  
 TNCTCTGGCTNTCCCCTTCACTGCCTTGGCAGCAAATTCGTGTCAATCATGTGACCCAG  
 NNAGAGAAATTGTAGACATGGAGCTATGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006461 unedited  
 CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCATTAATACACTTTATTTAAATAG  
 CATTTATCTCAGTTGGCTCTATGCCAGTTGGTCTTGGTATTGGGGTAAGGGGTATTGCA  
 GGTAAAAAGAGGTGAAGCAGATTCTGGCTTTCAGTTTCTTAGCTCAGAAATTCAGCAAT  
 CCCTGTAGTTCTTTGCATCCCCTCACCACCTCTGGAATAGAGAGCAGGGTCTTATAAATA  
 TGCTGAACAATGTCATCTAGTTTTTCTAACTCCTTGTGAGAGCGCCGAAGGTTCTCCTCT  
 AGGATATTTCTATGGCTCTGGAACCTTGATCATGAGTTTTTCTTCTCATTTTTTCATCTCC  
 AGGAACATCACTCTCAGTTTGTCCACCTCCTGAGAGAGCCACACTTTCTCCTGGATCCAA  
 TTGGTGGCCATAGGCTGGCAGTTGGAGTCCAGCTGGCCTGCCAGGGCCTCCTGGAGCACT  
 TTGGTCTGTCTCCGCACCCCGAAGCGAGCGGGTAAGGTGGGCCACCTTCTCTAAGG  
 CTTATGAGCTCGCCACTTTGCCTATCTGTTCTAGGATCTTCTCATTCTGCTGCTGTATC  
 ACTTNCTGGAGCTCCTTTTCATTCTTGACCCGCAAGCCCAAGGGCCTGGCTCAGTACCT  
 TTATGCCTTGTTCTTTTGCCTTCTGGACCTCCTGAAGCTGGTCCCTCCTGGGTCTGAAC  
 CCAGCTTGCAGNTCACAAAATTTTCGCTGCAAATCCCTGAGGCTCTCTTCAAACCTTC  
 GCCGAGGGAACCCAGAACCCGAACCTCCNGCTCTCACATCCATTTTGCACGCTCTCCCCT  
 TGCCCGGGGCTTCCGGGGCGAGGGAAACCTTTGTGGTTTTCCGGGTAACCCCTCCTCTC  
 CTTTTCCCATGGCCCGGAGTTATTCTTGCCTCTCCGCCCTGCTACAATCCCCTCAATA  
 CCCTTGCCTTCGACAGGGATATCGCGGGCGCCGCTCCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006461

**Insert Size:**

4130 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_006461.3](#), [NP\\_006452.3](#)

**RefSeq Size:** 3824 bp

**RefSeq ORF:** 3582 bp

**Locus ID:** 10615

**UniProt ID:** [Q96R06](#)

**Cytogenetics:** 17q11.2

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Gene Summary:** This gene encodes a protein associated with the mitotic spindle apparatus. The encoded protein may be involved in the functional and dynamic regulation of mitotic spindles. [provided by RefSeq, Jul 2008]