

Product datasheet for **RG201783**

MAP126 (SPAG5) (NM_006461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP126 (SPAG5) (NM_006461) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP126
Synonyms:	DEEPEST; hMAP126; MAP126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201783 representing NM_006461 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCGAGTGAAAAACTGAGCCTCAGCCTGTCGCCTTCGCCCAGACGGGAAAACCATCTATGAGAA
CTCCTCTCCGTGAACTTACCCTGCAGCCCGGTGCCCTCACCAACTCTGGAAAAAGATCCCCCGCTTGCTC
CTCGTGACCCCATCACTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAACATCTCCAGTGGATTTT
GTAATAACAAGAGGACAGACTTATCTTCAGAACATTTAGTCATTCCTCAAAGTGGCTAGAAAATTGTC
AGCATGAATCAGATGAGCAGCCTCTAGATCCAATTCGCCAAATTAGCTCTACTCCTAAAAGTCTGAGGA
AGCAGTAGACCCACTGGGCAATTATATGGTTAAAACCATCGTCCTGTACCATCTCCACTGGGGCAGCAA
CAAGACATGATATTTGAGGCCGTTTAGATACCATGGCAGAGACAACAGCATATCTTTAAATGGACCTT
TGAGAACAGACGATCTGGTGAGAGAGGAGGTGGCACCCCTGCATGGGAGACAGGTTTTTTCAGAAATTGCTGC
TGTATCTGAGAAACCTATCTTTTCAGGAATCTCCGTCCCATCTCTTAGAGGAGTCTCCACCAAAATCCCTGT
TCTGAACAACATACATTGCTCCAAGGAAAGCCTGAGCAGTAGAACTGAGGCTGTGCGTGAGGACTTAGTAC
CTTCTGAAAGTAAACGCTTCTTGCCTTCTCTGTTCTCTGGCTTTCCCTTCAACTGCCTTGGCAGCAGA
TTTCCGTGTCAATCATGTGGACCCAGAGGAGGAAATGTAGAGCATGGAGCTATGGAGGAAAGAGAAATG
AGGTTTCCACACATCCTAAGGAGTCTGAAACAGAAGATCAAGCACTTGTCTCAAGTGTGGAAGATATTC
TGTCACATGCCTGACACCAAACTAGTAGAAATGGAATCCCAAGAAGCTCCAGGCCAGCAGTAGAAGA
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AATACCTCCGTATGCTGAAAAATCTCCGCCAAAGCTTATCCCTCCCTCGATGCTTCGGGATGCTGCAA
TTGGCACTACCCCTTCTACTTGCTCGGTGGGACTTGGTTTACTCCTTCAGCACCACAGGAAAAGAG
TACAAACACATCCAGACAGGCCTGGTTGGACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGT
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GGACAGTAGCACAGACTGACACATCTCACAGTGGGATAACTAATAAATTCAGCATCTTAAGGAGAGC



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CATGAGATGGGACAGGCCCTACAGCAGGCCAGAAATGTCATGCAATCATGGGTGCTTATCTCTAAAGAGC
TGATATCCTTGCTTACCTATCCCTGTTGCATTTAGAAGAAGATAAGACTACTGTGAGTCAGGAGTCTCG
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GAAATATCCTAGAGGAGAACCTTCGGCGCTCTGACAAGGAGTTAGAAAAACTAGATGACATTGTTTCAGCA
TATTTATAAGACCCTGCTCTCTATTCCAGAGGTGGTAGGGGATGCAAAGAACTACAGGGATTGCTGGAA
TTTCTGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201783 representing NM_006461
 Red=Cloning site Green=Tags(s)

MWRVKKLSLSLSPSPQTGKPSMRTPLRELTLQPGALTNSGKRSPACSSLTPSLCKLGLQEGSNSSPVDF
 VNNKRTDLSSEHFSHSSKWLETQCHEDEQPLDPIQIISSTPKTSEEAVDPLGNMVKTIIVLVPSPGQQ
 QDMIFEARLDTMAETNSISLNGPLRTDDLVREEVAPCMGDRFSEVAAVSEKPIFQE SP SHLLEESPPNPC
 SEQLHCSKESLSSRTEAVREDLVPSSENAFLPSSVLWLSPTALAADFRVNHVDPEEEIVEHGAMEEREM
 RFPTHPKESSETEDQALVSSVEDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGV
 NTSVMLENLRQSLSLPSMLRDAAI GTTPFSTCSVGTWFTPSAPQEKTSTNTSQTGLVGTKHSTSETEQLLC
 GRPPDLTALSRHLEDNLLSSLVILEVLSRQLRDWKSQAVPHPETQDSSTQTDTS HSGITNKLQHLKES
 HEMGQALQQARNVMQSWVLSKELISLLHL SLLHLEEDKTTVSQESRRAETLVCCCFD L LKLR AKLQSL
 KAEREEARHREEMALRGKDAAEIVLEAFCAHASQRI SQLEQDLASMPREFRGLLKDAQTQLVGLHAKQEEL
 VQQTVSLTSTLQQDWRSMLDYTTWTALLSRSRQLTEKLVKSSQALQERDVAIEEKQEVSRVLEQVSAQ
 LEECKGQTEQLELENSRLATDLRAQLQILANMDSQLKELQSQHTHCAQDLAMKDELLCQLTQSNEEQAAQ
 WQKEEMALKHMQAELQQQAVLAKEVRDLKETLEFADQENQVAHLELGGVEQQLKTTLEVL RERSLQCEN
 LKDTVENLTAKLASTIADNQEQLDLEKTRQYSQKLG L L T E Q L S L T L F L Q T K L K E K T E Q E T L L L S T A C P P T
 QEHLPLNDRTFLGSILTAVADEEPESTPVLLGSDKSAFTRVASMVSLQPAETPGMEESLAEMSIMTTEL
 QSLCSLLQESKEEAIRTLQRKICELQARLQAQEEQHVEVQKAKEADIEKLNQALCLRYKNEKELQEVIQQ
 QNEKILEQIDKSGELISLREEVTHLTRSLRRAETETKVLQEALAGQLD S N C Q P M A T N W I Q E K V W L S Q E V D
 KLRVMFLEMKNEKELMIKFQSHRNILEENLRSDKELEKLDDIVQHIYKTLLSIPEVVRGCKELQGLLE
 FLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006461

ORF Size: 3579 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006461.4](#)

RefSeq Size: 3824 bp

RefSeq ORF: 3582 bp

Locus ID: 10615

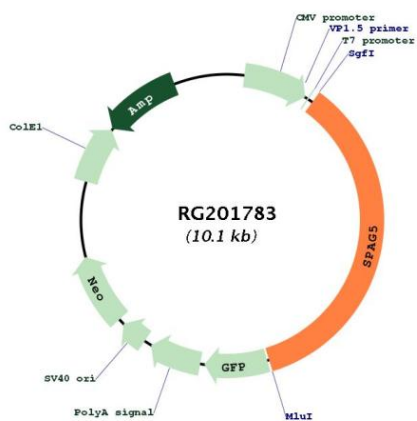
UniProt ID: [Q96R06](#)

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]

Product images:



Circular map for RG201783