

Product datasheet for **RG211964**

CEP126 (NM_020802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CEP126
Synonyms:	KIAA1377
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211964 representing NM_020802
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGCGGGGAGGCCCGGAACCCGGAGCGCGGTGCGGGAACCTGGGCACTGAATCATCGGACAACCTCG
ACAGAGCCCCCTCGGCCCTCGGGAGAGCGGGCGGCATCACCGACCTGGCTCTTACCTAGATATGAAAT
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GAAGAGGCCCTCAACAAATTCAGGAATCCAATTTAAATCAGAAGTAAACCTTCCCTTTTCCCGTAGAC
CAACAATAAATGGAGAGCTATAGATTCTGCCTTGCCTTCCGATTATCAAAAAATGATCACAAGCATCA
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AGCAAAAAATGTGTTCCAGCTTAAATCGGAGGAACTCAGAACTCCTCGAAGATCAACATCTAAGCAATT
TGCAAAAAATTTGTGATGAAGTTAATCAGATAACCAATTCTGAAACCTCTCAAGTATAGACAGTCTTGA
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TCTGATAAGTTAGATGAATTGAAAGATGGTAAAGAAGAAGAGATAAAATATTTAATTGCAATAAGGAAG



AGTTGCCTTTATTTTCAGACAGTTTTCAAGATGCCTATATACCTCACAATCCTGATTCAAAAGATGAAAA
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ATGATCTCAATGAAAGACTACATTATATACAAGATCCATTGCAAAAACCCATCCATCAAAAATACTTT
ACAAATAATACCACTTCTGGAGAAGAGAGAAGATAGAACCAGCAGCTGCAGAGACAAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211964 representing NM_020802
Red=Cloning site Green=Tags(s)

MLAGRPGTRSAVGLGTESSDNLDRAPLGPRESGGHHRPGSYLDMKIHLEKNLEERQILLQQQKICRNR
ARKYFVESNRKKAFAEERKEQEEKEHQIREQILQQRKQKFEEVTEKFQRAHVPLSQRRAVSRKPVPL
EEALKQIQESNLKSEVNLPSRRPTINWRAIDSALPSALSKNDHKHQKQLLSKINCEKEMNENMRATLAT
SKNVFQLKLEETQKLLDQHLNLQKFCDEVNQTINSETLSSIDSLEATEHEEIIYLTNLKEHSTSIQRNT
ISLKPANMQSTNLSCFDEDKLAFSKTQHINNWLNLDAANTQNVTAFSILSKSNVLPWSWEYFNSKEQNP
SPLNGTVERATNTANNSVPFVSSPPMFVLDKKCEKTSETSTMRTDSTSGAFKRERPLVTEPTFKFSKS
QSTSDSLTQEVATFPDQEKYSELNQENGTTSIPTSCVPVATPLVLPSNIQSARPSAKNSIHIKEIDAVQC
SDKLDELKDGKEEIKYFNCNKEELPLFSDSFQDAYIPHNPDSDKDEKQLAETSSLSNVTSNYDFVGQHK
KMKYNIHERNGVRFLKSILKKESKYEHGYLKALIIINQSFKFGNQKAAAIRDSIELTKEKGAEIPKTIKKL
RWFDETSNIENNAENSHLKNKTGTTQQHSQQFHIQSGAGSNIISVSTCAVNSADTKKSREDSISENVTT
LGGSGADHMLNCFIPSGYNFAKHAWPASKKEESKIPVHDDSKTKQGPQRGRAKIIIRKPGSAKVQSGFI
CTNRKGAVIQPSASKVNIIFTQAQGLIIPCPPPQSTSNIRSGKNIQVSQCQPVTPENPQNIITHNSFNS
KHVLPTHESLNQWNQESSPLSNACSDLVTVIPSLPSYCSSECQTFKINHSNGTQAVARQDATLYCTQR
SPVCEESYPSVTLRTAEEESVPLWKRGNVHLHQNKRATGSTVMRRKRIAETKRRNILEQKRQNPQSVGQK
YSEQINNFQGSVLLSSSEPKQTTTRGTSYIEEVSDSTSEFLMAENLVKASVPEDEILTVLNSKQIQKSNLP
LNKTQQFNICTLSAEEQKILESNDLNERLHYIQESICKNPSIKNTLQIIPLEKREDRTSSCRDKR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_020802

ORF Size: 3351 bp

OTI Disclaimer: 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.

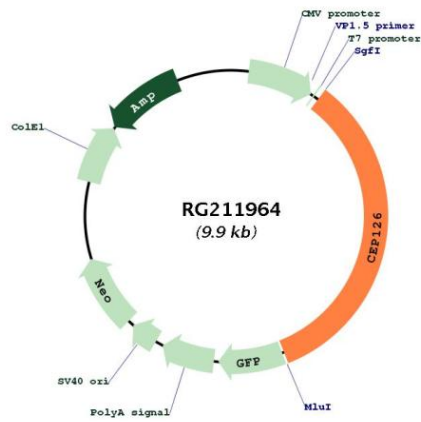
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_020802.1, NP_065853.1</u>
RefSeq Size:	7033 bp
RefSeq ORF:	3354 bp
Locus ID:	57562
UniProt ID:	<u>Q9P2H0</u>
Cytogenetics:	11q22.1
Gene Summary:	Participates in cytokinesis (PubMed:19799413). Necessary for microtubules and mitotic spindle organization (PubMed:24867236). Involved in primary cilium formation (PubMed:24867236). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211964