

Product datasheet for **RG215240**

CENPU (NM_024629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPU (NM_024629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENPU
Synonyms:	CENP50; CENPU50; KLIP1; MLF1IP; PBIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215240 representing NM_024629 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCCCGCGGGGCGGCGCGCGCGCCTCACAGGTCTGAGGGCGCAAGACGTTCAAAGAACA
TTAGAAAGAACACATTCCATGAAAGATAAAGCTGGTCAAAAGTGCAAGCCTATTGACGTGTT
CGACTTTCC
TGATAATTCTGATGTCTCAAGCATTGGCAGGCTGGGTGAAATGAGAAAGATGAAGAACTT
ATGAGACC
TTTGATCCTCCTTACATAGCACAGCTATATATGCTGATGAAGAAGAATTCTCAAACATTGT
GGACTGT
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AGCAAGTGA
AATCGAATCTGTAAAAATTAGTGCAAAAAAGCCAGGAAGAAAGCTCAGGCCATTAGTGATG
ACTCTGAA
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ACGTCATGAGG
TTATTTCGAACACAGCGTCTTCAGAACTTTTCAGAGAAACCAGCTGAGTCTGTCACTTCTA
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ACTCAGAAA
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TTTTGGCTGA
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GGAAGAATGCTAAGATGATTTTCAGATATCGAAAAGAAAAGGCAGCGTATGATTGAAGTCC
AGGATGAAT
GCTTCGGTTAGAGCCACAGCTGAAACAACCTACAAACAAAATATGATGAACCTAAAGAGAG
AAAGTCTTCC
CTTAGGAATGCAGCATATTTCTTATCTAATTTAAACAGCTTTATCAAGATTATTCAGATG
TTCAAGCTC
AAGAACCAACGTAAAGGAAACGTATGATTTCAGCCTTCCAGCTCTGTTATTTAAAGCAAG
AACACT
TCTGGGAGCCGAAAGCCATCTGCGAAATATCAACCATCAGTTAGAGAAGCTCCTTGACCAGGGA

ACGCGTACGCGGCGCGCTCGAG - GFP Tag - GTTTAA



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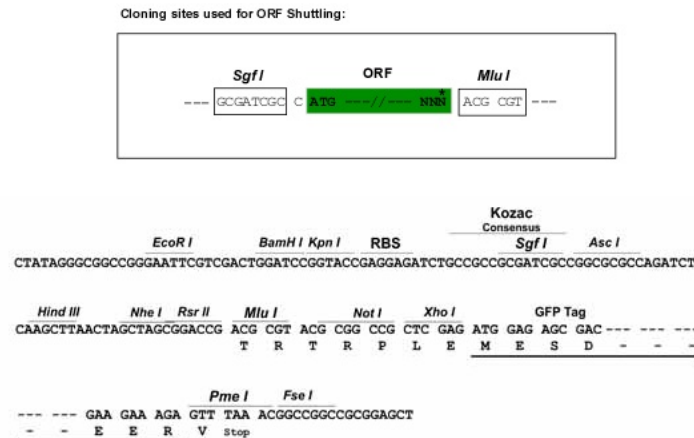
Protein Sequence: >RG215240 representing NM_024629
 Red=Cloning site Green=Tags(s)

MAPRGRRRPRPHRSEGARRSKNTLERTHSMKDKAGQCKPIDVDFDPNSDVSSIGRLGENEKDEETYET
 FDPPLHSTAIYADEEEFSKHGCLSLSTPPGKEAKRSSDTSGNEASEIESVKISAKKPGKLRPISDDSE
 SIEESDTRRKVKSAEKISTQRHEVIRTTASSELSEKPAESVTSKKTGPLSAQPSVEKENLAIESQSKTQK
 KGKISHDKRKKSRKAIGSDTSDIVHIWCPEGMKTS DIKELNIVLPEFEKTHLEHQRIESKVCKAAIAT
 FYVNVKEQFIKMLKESQMLTNLKRKNAKMISDIEKKRQRMIEVQDELLRLEPQLKQLQTKYDELKERKSS
 LRNAAYFLSNLKQLYQDYSDVQAQEPNVKETYDSSSLPALLFKARTLLGAESHLRNINHQLLEKLLDQG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024629

ORF Size: 1254 bp

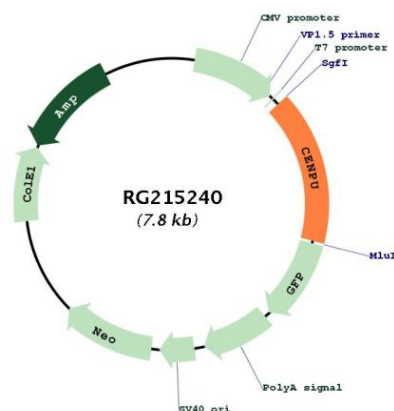
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<u>NM_024629.4</u>
RefSeq Size:	2547 bp
RefSeq ORF:	1257 bp
Locus ID:	79682
UniProt ID:	<u>Q71F23</u>
Cytogenetics:	4q35.1
Protein Families:	Druggable Genome
Gene Summary:	The centromere is a specialized chromatin domain, present throughout the cell cycle, that acts as a platform on which the transient assembly of the kinetochore occurs during mitosis. All active centromeres are characterized by the presence of long arrays of nucleosomes in which CENPA (MIM 117139) replaces histone H3 (see MIM 601128). MLF1IP, or CENPU, is an additional factor required for centromere assembly (Foltz et al., 2006 [PubMed 16622419]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RG215240