

Product datasheet for **RG232393**

CENPO (NM_001199803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPO (NM_001199803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENPO
Synonyms:	CENP-O; ICEN-36; MCM21R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232393 representing NM_001199803 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGAATTCTCGCTTCTGGCCTGGGTGTTTTAGCTCACTTGGAAAGGCTAGAGACCCAAGTGAGCA
GATCCCGTAAACAGTCTGAAGAGCTGCAGAGCGTGCAGGCCAGGAAGGTGCTCTTGAACCAAGATTCA
TAAACTAAGGCGTCTGCGAGATGAGCTGAGGGCTGTGGTCCGGCACCGGCGAGCCAGCGTGAAAGCATGT
ATTGCCAATGTAGAACCAACCAACAGTGGAGATCAATGAGCAAGAAGCATTGGAAGAGAAATTGGAAA
ATGTGAAAGCCATTCTGCAGGCATATCATTTTACAGGCCTCAGTGGTAAACTGACCAGCCGAGGAGTTTG
TGTCTGCATCAGTACTGCTTTTGGAGGGAACCTATTGGATTCTATTTTGTGGACCTTGTCATACAGAAA
CCACTCCGGATACATCACCATTCCAGTCCCAGTCTTCATTTCCCTGGAAGAGATAGCTGCAAAATATTTAC
AGACCAACATCCAGCACTTCTGTTTCAGTCTCTGCGAGTACCTGAATGCTTACTCTGGGAGGAAGTACCA
GGCAGACCGGCTTCCAGAGTACTTTGCAGCCCTCCTGACTGGGCCCTTGCAGAGAAACCCACTGTGTAAC
TTGCTGTCACTTACTTACAACTGGATCCAGGGGGTCACTCCTCCCGTTCTGTGCTAGATTGCTGTATA
AGGACCTCACAGCAACTTCCCACTGACGTACCGTGACATGTCAAGGAGTGAAGTATTATCCACTTC
ATGGGAGGAGCAACGAGCATCTCATGAACTCTGTTCTGTACGAAGCCCTGCATCAAGTGTTTGCCTCA
TTTACAAGAAAAGGAGAAAAGTTGGATATGAGTCTGGTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232393 representing NM_001199803
Red=Cloning site Green=Tags(s)

MAGILASGLGVL AHLERLETQVSRSRKQSEELQSVQAQEGALGKTIHKLRRRLRDELRAVVRHRRASVKAC
 IANVEPNQTVEINEQEALEEKLNVKAILQAYHFTGLSGKLT SRGVCVCI STAFEGNLLDSYFVDLVIQK
 PLRIHHHSVPVFIPLLEEIAAKYLQTNIQHFLFSLCEYLNAYSGRKYQADRLQSDFAALLTGPLQRNPLCN
 LLSFTYKLDPPGGQSPFCARLLYKDLTATLPTDVTVCQGV EVLSTSWEEQRASHETLFC TKPLHQVFAS
 FTRKGEKLDMSLVS

TRTRPLE - GFP Tag - V

Restriction Sites:

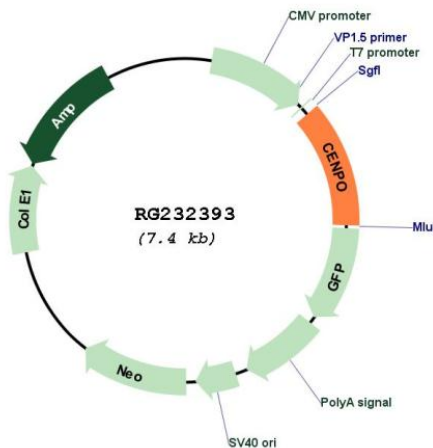
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001199803

ORF Size: 882 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:	<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_001199803.3
RefSeq Size:	4125 bp
RefSeq ORF:	885 bp
Locus ID:	79172
UniProt ID:	Q9BU64
Cytogenetics:	2p23.3
Gene Summary:	This gene encodes a component of the interphase centromere complex. The encoded protein is localized to the centromere throughout the cell cycle and is required for bipolar spindle assembly, chromosome segregation and checkpoint signaling during mitosis. Alternatively spliced transcript variants encoding multiple protein isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]