

## Product datasheet for **RG224761**

### CENPA (NM\_001809) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CENPA (NM\_001809) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CENPA  
**Synonyms:** CenH3; CENP-A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224761 representing NM\_001809  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCCCGCGCCGGAGCCGAAAGCCCGAGGCCCGAGGAGGCGCAGCCGAGCCCGACCCGACCC  
 CCGGCCCTCCCGCGGGGCCCTCCTTAGGCGCTTCTCCCATCAACACAGTCGGCGGAGACAAGTTG  
 GCTAAAGGAGATCCGAAAGCTTCAGAAGGCACACACCTTTGATAAGGAAGCTGCCCTTACGCCGCTG  
 GCAAGAGAAATATGTGTTAAATCACTCGTGGTGTGGACTTCAATTGGCAAGCCAGGCCCTATTGGCC  
 TACAAGAGGCAGCAGAAGCATTCTAGTTCATCTTTGAGGACGCTATCTCTCACCTTACATGCAGG  
 CCGAGTACTCTTCCAAAGGATGTGCAACTGGCCCGAGGATCCGGGCCTTGAGGAGGACTCGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG224761 representing NM\_001809  
 Red=Cloning site Green=Tags(s)  
 MGPRRRSRKPEAPRRRSPPTPGPSRRGPSLGASSHQHSRRRQWLKEIRKLQKSTHLLIRKLPFSRL  
 AREICVKFTRGVDFNWQAQALLALQEAFAFLVHLFEDAYLLTLHAGRVTLFPKDVQLARRIRGLEEGLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001809

**ORF Size:** 420 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.

**RefSeq:** [NM\\_001809.4](#)

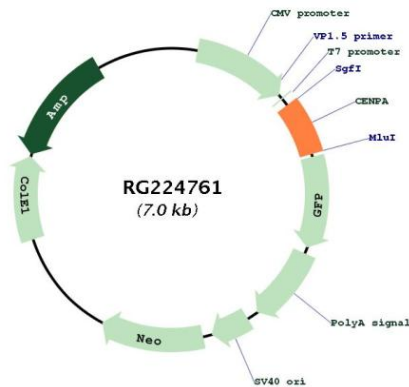
**RefSeq Size:** 1389 bp

**RefSeq ORF:** 423 bp

**Locus ID:** 1058  
**UniProt ID:** [P49450](#)  
**Cytogenetics:** 2p23.3  
**Gene Summary:**

Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. This gene encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the centromere. Centromere protein A is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4)<sub>2</sub> tetrameric core of the nucleosome particle. The protein is a replication-independent histone that is a member of the histone H3 family. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2015]

**Product images:**



Circular map for RG224761