

## Product datasheet for RC224375

### CENPE (NM\_001813) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CENPE (NM_001813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENPE
Synonyms:	CENP-E; KIF10; MCPH13; PPP1R61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224375 representing NM_001813 Red=Cloning site Blue=ORF Green=Tags(s)

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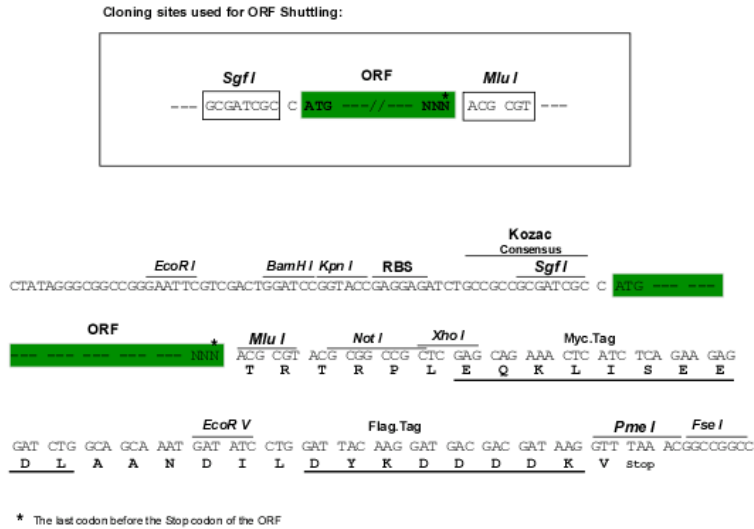
**Protein Sequence:** >RC224375 representing NM\_001813  
 Red=Cloning site Green=Tags(s)

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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8043\\_g12.zip](https://cdn.origene.com/chromatograms/mk8043_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001813

**ORF Size:** 8103 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\\_001813.3](#)

**RefSeq Size:** 8630 bp

**RefSeq ORF:** 8106 bp

**Locus ID:** 1062

**UniProt ID:** [Q02224](#)

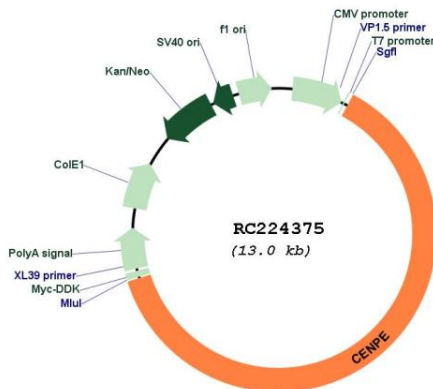
**Cytogenetics:** 4q24

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**MW:** 316.2 kDa

**Gene Summary:** Centrosome-associated protein E (CENPE) is a kinesin-like motor protein that accumulates in the G2 phase of the cell cycle. Unlike other centrosome-associated proteins, it is not present during interphase and first appears at the centromere region of chromosomes during prometaphase. This protein is required for stable spindle microtubule capture at kinetochores which is a necessary step in chromosome alignment during prometaphase. This protein also couples chromosome position to microtubule depolymerizing activity. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms. [provided by RefSeq, Nov 2014]

### Product images:



Circular map for RC224375