

Product datasheet for **RG240253**

CENPE (NM_001286734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPE (NM_001286734) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENPE
Synonyms:	CENP-E; KIF10; MCPH13; PPP1R61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240253 representing NM_001286734. Blue=ORF Red=Cloning site Green=Tag(s)

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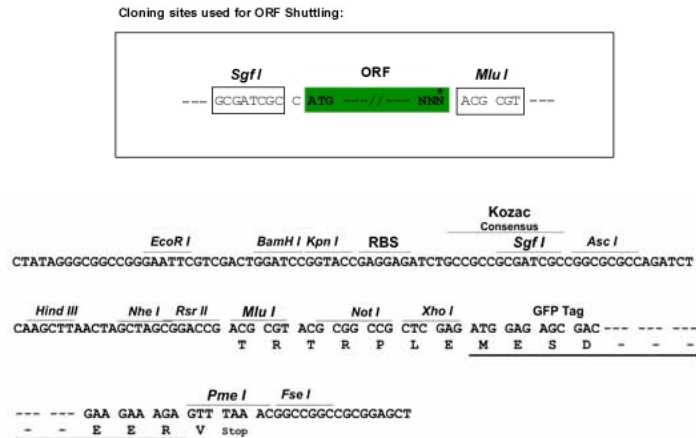
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Protein Sequence: >Peptide sequence encoded by RG240253
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001286734

ORF Size: 7740 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).

RefSeq: [NM_001286734.2](#)

RefSeq Size: 8267 bp

RefSeq ORF: 7743 bp

Locus ID: 1062

UniProt ID: [Q02224](#)

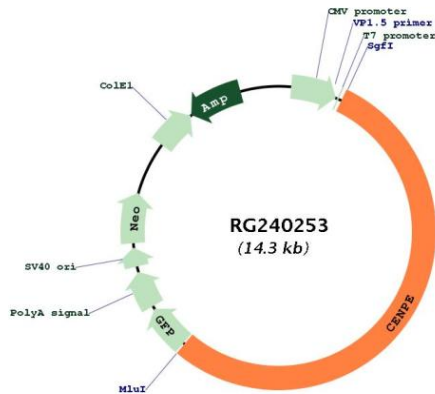
Cytogenetics: 4q24

Protein Families: Druggable Genome, Stem cell - Pluripotency

MW: 302.2 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 RG240253