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Product datasheet for RC240253

CENPE (NM_001286734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPE (NM_001286734) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENPE
Synonyms:	CENP-E; KIF10; MCPH13; PPP1R61
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240253 representing NM_001286734 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGAGGAAGGAGCCGTGGCCGTCTGCGTGCGAGTGCGGCCGCTGAACAGCAGAGAAGAATCACTTG GAGAAACTGCCCAAGTTTACTGGAAAACTGACAATAATGTCATTTATCAAGTTGATGGAAGTAAATCCTT CAATTTTGATCGTGTCTTTCATGGTAATGAAACTACCAAAAATGTGTATGAAGAAATAGCAGCACCAATC ATCGATTCTGCCATACAAGGCTACAATGGTACTATATTTGCCTATGGACAGACTGCTTCAGGAAAAACAT ATACCATGATGGGTTCAGAAGATCATTTGGGAGTTATACCCAGGGCAATTCATGACATTTTCCAAAAAAT TAAGAAGTTTCCTGATAGGGAATTTCTCTTACGTGTATCTTACATGGAAATATACAATGAAACCATTACA GATTTACTCTGTGGCACTCAAAAAATGAAACCTTTAATTATTCGAGAAGATGTCAATAGGAATGTGTATG TTGCTGATCTCACAGAAGAAGTTGTATATACATCAGAAATGGCTTTGAAATGGATTACAAAGGGAGAAAA GAGCAGGCATTATGGAGAAACAAAAATGAATCAAAGAAGCAGTCGTTCTCATACCATCTTTAGGATGATT TTGGAAAGCAGAGAGAAGGGTGAACCTTCTAATTGTGAAGGATCTGTTAAGGTATCCCATTTGAATTTGG TTGATCTTGCAGGCAGTGAAAGAGCTGCTCAAACAGGCGCTGCAGGTGTGCGGCTCAAGGAAGGCTGTAA TATAAATCGAAGCTTATTTATTTTGGGACAAGTGATCAAGAAACTTAGTGATGGACAAGTTGGTGGTTTC ATAAATTATCGAGATAGCAAGTTAACACGAATTCTCCAGAATTCCTTGGGAGGAAATGCAAAGACACGTA TTATCTGCACAATTACTCCAGTATCTTTTGATGAAACACTTACTGCTCTCCAGTTTGCCAGTACTGCTAA ATATATGAAGAATACTCCTTATGTTAATGAGGTATCAACTGATGAAGCTCTCCTGAAAAGGTATAGAAAA GAAATAATGGATCTTAAAAAACAATTAGAGGAGGTTTCTTTAGAGACGCGGGCTCAGGCAATGGAAAAAG ACCAATTGGCCCAACTTTTGGAAGAAAAAGATTTGCTTCAGAAAGTACAGAATGAGAAAATTGAAAACTT AACACGGATGCTGGTGACCTCTTCTTCCCTCACGTTGCAACAGGAATTAAAGGCTAAAAGAAAACGAAGA GTTACTTGGTGCCTTGGCAAAATTAACAAAATGAAGAACTCAAACTATGCAGATCAATTTAATATACCAA CAAATATAACAACAAAAACACATAAGCTTTCTATAAATTTATTACGAGAAATTGATGAATCTGTCTGTTC AGAGTCTGATGTTTTCAGTAACACTCTTGATACATTAAGTGAGATAGAATGGAATCCAGCAACAAAGCTA CTAAATCAGGAGAATATAGAAAGTGAGTTGAACTCACTTCGTGCTGACTATGATAATCTGGTATTAGACT

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Protein Sequence:

>RC240253 representing NM_001286734
Red=Cloning site Green=Tags(s)

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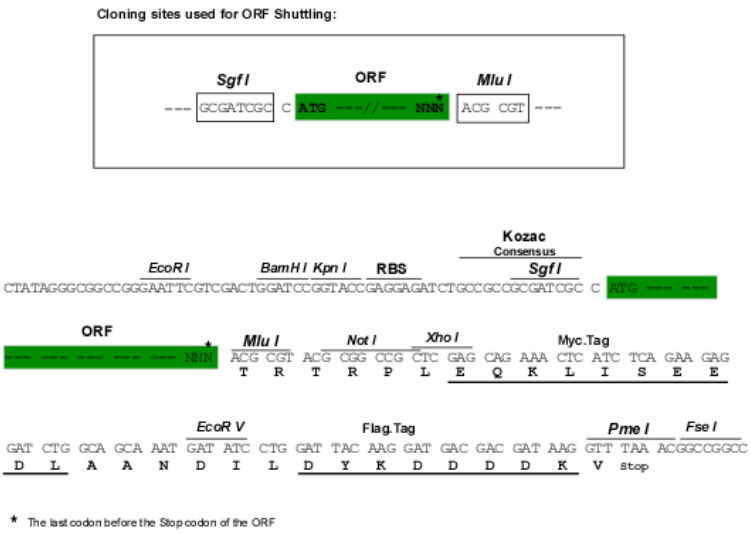
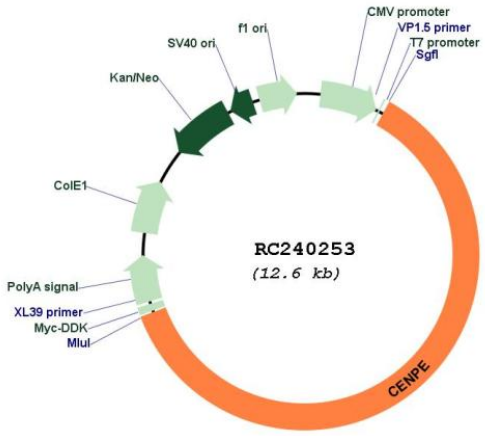
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]