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Product datasheet for RC202636

CENPO (NM_024322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPO (NM_024322) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENPO
Synonyms:	CENP-O; ICEN-36; MCM21R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202636 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGGCGAACCCTTTACGTCCAGATGGCGAGTCCAAAGGAGGTGTTTTAGCTCACTTGGAAAGGC
TAGAGACCCAAGTGAGCAGATCCCGTAAACAGTCTGAAGAGCTGCAGAGCGTGCAGGCCCAGGAAGGTGC
TCTTGGAACCAAGATTCATAAACTAAGGCGTCTGCGAGATGAGCTGAGGGCTGTGGTGCGGCACCGGCGA
GCCAGCGTGAAAGCATGTATTGCCAATGTAGAACCCAACCAAACAGTGGAGATCAATGAGCAAGAAGCAT
TGGAAGAGAAATTGGAAAATGTGAAAGCCATTCTGCAGGCATATCATTTTACAGGCCTCAGTGGTAAACT
GACCAGCCGAGGAGTTTGTGTCTGCATCAGTACTGCTTTTGAGGGGAACCTATTGGATTCCTATTTTGTG
GACCTTGTCATACAGAAACCACTCCGGATACATCACCATTCAGTCCCAGTCTTCATTCCCCTGGAAGAGA
TAGCTGCAAAATATTTACAGACCAACATCCAGCACTTCCTGTTCAGTCTCTGCGAGTACCTGAATGCTTA
CTCTGGGAGGAAGTACCAGGCAGACCGGCTTCAGAGTGACTTTGCAGCCCTCCTGACTGGGCCCTTGCAG
AGAAACCCACTGTGTAACTTGCTGTCATTTACTTACAAACTGGATCCAGGGGGTCAGTCCTTCCCGTTCT
GTGCTAGATTGCTGTATAAGGACCTCACAGCAACTCTTCCCACTGACGTCACCGTGACATGTCAAGGAGT
GGAAGTATTATCCACTTCATGGGAGGAGCAACGAGCATCTCATGAAACTCTGTTCTGTACGAAGCCCTTG
CATCAAGTGTTTGCCTCATTTACAAGAAAAGGAGAAAAGTTGGATATGAGTCTGGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202636 protein sequence
Red=Cloning site Green=Tags(s)

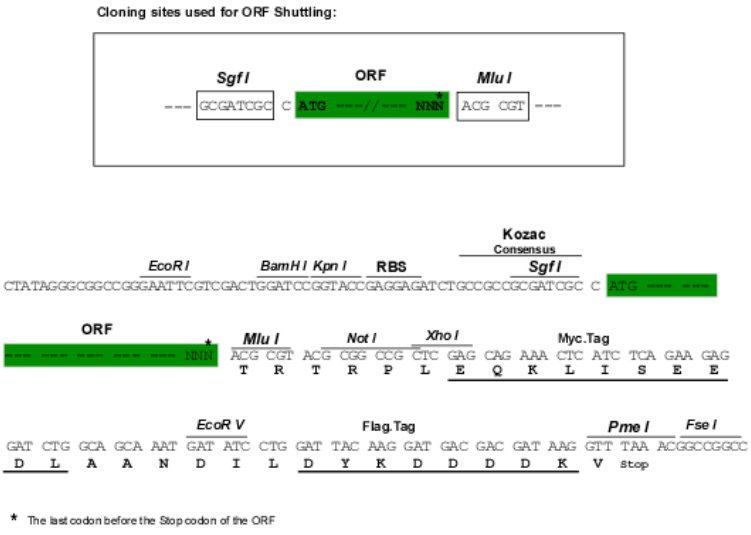
MEQANPLRPDGESKGGVLAHLERLETQVSRSRKQSEELQSVQAQEGALGTKIHKLRRLRDELRAVVRHRR
ASVKACIANVEPNQTVEINEQEALEEKLENVKAILQAYHFTGLSGKLTSRGVCVCISTAFEGNLLDSYFV
DLVIQKPLRIHHHSVPVFIPLEEIAAKYLQTNIQHFLFSLCEYLNAYSGRKYQADRLQSDFAALLTGPLQ
RNPLCNLLSFTYKLDPGGQSFPFCARLLYKDLTATLPTDVTVTCQGVEVLSTSWEEQRASHETLFCTKPL
HQVFASFTRKGEKLDMSLVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6391_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024322

ORF Size: 900 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).

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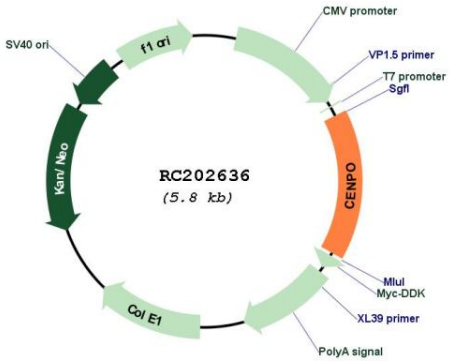
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_024322.3
RefSeq Size:	4102 bp
RefSeq ORF:	903 bp
Locus ID:	79172
UniProt ID:	Q9BU64
Cytogenetics:	2p23.3
MW:	33.8 kDa
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]

Product images:



Circular map for RC202636

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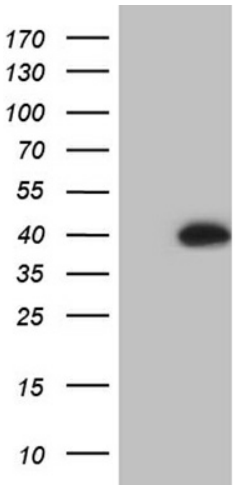
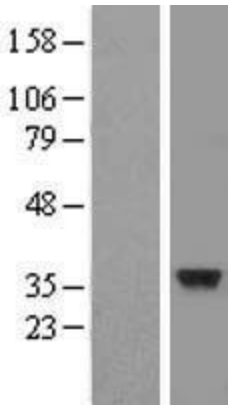


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CENPO (Cat# RC202636, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CENPO (Cat# [TA809481])(1:2000). Positive lysates [LY411302] (100ug) and [LC411302] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411302]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202636 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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