

Product datasheet for MR204145

Cenpo (NM_134046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpo (NM_134046) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cenpo
Synonyms:	2810429O05Rik; 8430427C03Rik; D12Ert482e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204145 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTGCAAATACTTTGTGTCCAGGCAGGAAGTGCAAAGGAGGTGTTTTAGCTCACCTGGAAAGAC
TAGAGGCTCAAACGAACGTATCGAATAGAAAGTCTGAAGAACCAACAGTTCGTAAGGAAAGTTCTCT
TAGAACCAAGATTCGCGAACTGCGGCAACAACGAGATAAGCTGAGGGCAGAAGTGAAGCAGTGGGAGCC
AGAGTTAAGAACCTCTGCCAAAGAAGACCAAGCAGAACCGTGATCAGTGAACAGGAAGTTCTGGAAA
GGGAGTGGAGAAATGTGGACGCCATTCTGGAGGCATATCGCTTACGGGGCTCAGCGGGAAGTTGACCAG
TCGTGGCGTCTGCATGTGCATCAGCACAGCCTTTGAGGGGAACCTACTAGATTCTACTTTGTGGACCTT
GTCATAGAGAAACCACTCCGGATTATCACCATTCCGTCCAGTCTTCATCCCTCTGGAAAAGATAGCCG
CAGCACACCTACAGACTGATGTTTCAGCGCTTCTGTTAGTCTCTGGGCATACCTAAATGCCTACCGGG
GAGGAAGTACCAGGCAGACCAACTTGAGAGTGACTTCTGCGATGTCCTCACGGGACCTTTGCAGAGAAA
GCCCTGTGCAACTTGCTGTGTTACCTATAAAGTGGAACAGAGATGCCAGACCTTCTCCTTCAGTGCCA
GGTTGCTGTATGAGGACCCACAGCAGCTTCCCACGAATGTCAGTGTGACAAGGCCAGGTGTGGAGGC
ATCATCCCCTCCTTGGGAAGAGCACAGAGCATCCCATCAGATGCTTCCGTACCAAGCCCTGCACAAG
GTGTTTGCTTCATTTTCAAAGAAACCGAAAAGCTGCATTTGAACCTGGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204145 protein sequence
Red=Cloning site Green=Tags(s)

MESANTLCPGRKCKGGVLAHLERLEAQTNVSNRKSEPTVRKKESLRTKIRELRQQRDKLRAEVKQWGA
RVKEPPAKEDPSRTVISEQEVLEREWNVDAILEAYRFTGLSGKLT SRGVCMCISTAFEGNLLDSYFVDL
VIEKPLRIHHHSVPVFIPEKIAAAHLQTDVQRFLFSLWAYLNAYAGRKYQADQLESDFCDVLTGPLQRN
ALCNLLSFTYKVEQRCQTF SFSARLLYEDPTAALPTNVTVTRPGVEASSPPWEEHRASHQMLFRTKPLHK
VFASFSKETEKHLHLNLVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134046

ORF Size: 897 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_134046.1](#)

RefSeq Size: 4343 bp

RefSeq ORF: 897 bp

Locus ID: 52504

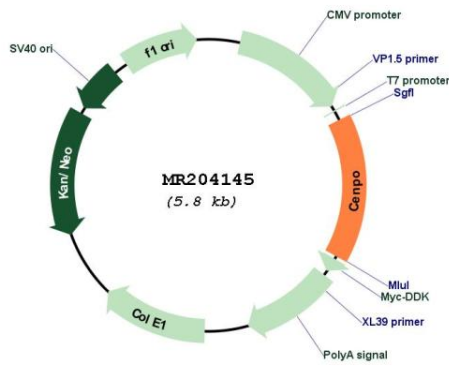
UniProt ID: [Q8K015](#)

Cytogenetics: 12 2.02 cM

MW: 34 kDa

Gene Summary: Component of the CENPA-CAD (nucleosome distal) complex, a complex recruited to centromeres which is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex. Modulates the kinetochore-bound levels of NDC80 complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204145