

Product datasheet for MR203193

Cenpn (BC058243) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cenpn (BC058243) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cenpn
Synonyms: 2610510J17Rik; AI426416; AW545024
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR203193 representing BC058243
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTAAGGAACCAGGTGAAGATGTCGACCTTTTGGATATGGAACAGTCCAAAGTTCCTTTAAGAGAA
 TTCTTCAGAGAGCATTAAAAACGTTACAGTCAGCTTCAGAGTCTATGAGAAGGATTCGGTGTGGATCCG
 AGTTGCCGTTGGGAACACAGTATTCACAGCCAAACAGTACAAGCCACGTTTCGGTGTATTATCCCCAG
 ACTCCGTATGCCTTCATTTCTTCCCTGCCATCTGAAGAACACTGTGCCCTTCTCCATCAGGCACTGAAAG
 TCGCCAGCAAACACCATCAGATTGTGCATTTGGATCTGAGGAGCAGGCACCTGGACTCACTCAAGGCAAT
 TGTTTTAGAGAGTATAATCAGACCTGTGAAAATTACAGTCCACAACGCTCTGCAGGAAGCGAGCCTT
 TCTATGTGTTGGATTCAAAGATCACTCACGAAAAACAGAAAGAAAGTGAAGGTTCCACCGAGTCACTC
 AAGAGACCTTTGGGACCTACCCTCAGCCACAGCTAGAGTTCGCACAGTATAAGCTGGAAACCAAGTTCAA
 GAGTAACATAGGTGGGGCCTCTGGCCGACAGGAAAGAGCCCTCCGGTGCCTTGTAAGTTCTCCAGT
 CCACATCTTTGGAAGCCTTGAATCCTTAGCTCCAGCCGGAATTGCAGATGCACCACCTTCTCCCTGC
 TCACCTGCATACCGAGCAAGAAAATGAATTATTTAAAAATTAGAGATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203193 representing BC058243
 Red=Cloning site Green=Tags(s)

MSKEPGEDVDLFDMEQFQSSFKRILQRALKNVTVSFRVYEKDSVWIRVAWGTQYSQPQNYKPTFVVYPQ
 TPYAFISSCHLKNTVPLLHQALKVASKHHQIVHLDLRSRHLDSLKAIVFREYNQTCENYSSTTSLQEASL
 SMCLDSKITHENTEEKVRVHRVTQETFGTYPQPQLEFAQYKLETKFKSNIGGGLADRKEPFRCLVKFSS
 PHLLEALKSLAPAGIADAPLSPLLTICIPSKMNYFKIRDK

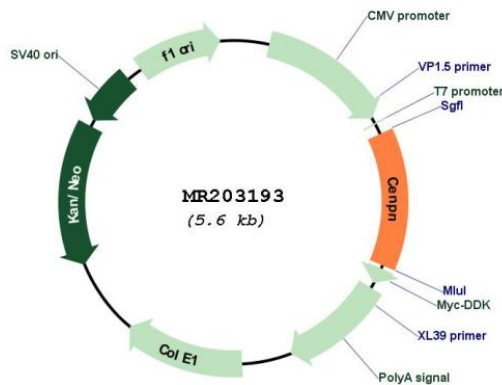
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC058243
ORF Size: 750 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:	<ol style="list-style-type: none">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:	BC058243.1
RefSeq Size:	1740 bp
RefSeq ORF:	752 bp
Locus ID:	72155
Cytogenetics:	8 E1
MW:	63.8 kDa
Gene Summary:	Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. CENPN is the first protein to bind specifically to CENPA nucleosomes and the direct binding of CENPA nucleosomes by CENPN is required for centromere assembly. Required for chromosome congression and efficiently align the chromosomes on a metaphase plate.[UniProtKB/Swiss-Prot Function]