

Product datasheet for **RC233703**

CENPN (NM_001270474) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CENPN (NM_001270474) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CENPN
Synonyms: BM039; C16orf60; CENP-N; ICEN32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233703 representing NM_001270474
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGAAAATCCCATGAATGAAGTACAAACA
TCCTGAAGGCCTGGGATTTTTGTCTGAAAATCAACTGCAGACTGTAATTTCCGACAGAGAAAGGAATC
TGATGTTGAGCACTTGTCCATCTGTGTGAGGAAAAGCGTCAAGTATCAGTGATGCTGCCCTGTTAGAC
ATCATTATATGCAATTCATCAGCACCAGAAAGTTGGGAAGTTTTTCAGATGAGTAAAGGACCAGGTG
AAGATGTTGACCTTTTTGATATGAAACAATTTAAAAATTCGTTCAAGAAAATTCCTCAGAGAGCATTAAA
AAATGTGACAGTCAGCTCAGAGAAACTGAGGAGAATGCAGTCTGGATTGCAATTCCTGGGAACACAG
TACACAAAGCCAAACAGTACAAACCTACCTACGTGGTGTACTACTCCCAGACTCCGTACGCCCTTACGT
CCTCCTCCATGCTGAGGCGCAATACACCGCTTCTGGGTGACACCTTTGAAACTCACAACCTACGACACC
TCTACAGGAAAGAAGCCTTGGACTAGATATAAATATGGATTCAAGGATCATTATGAAAACATAGTAGAA
AAAGAGAGAGTCCAACGAATAACTCAAGAAACATTTGGAGATTATCCTCAACCACAACCTAGAAATTTGCAC
AATATAAGCTTGAACGAAATTCAAAAGTGGTTTAAATGGGAGCATCTTGGCTGAGAGGGAAGAACCCCT
CCGATGCCTAATAAAGTTCTCTAGCCCACATCTTCTGGAAGCATTGAAATCCTTAGCACCAGCGGTATT
GCAGATGCTCCACTTTCTCCACTGCTCACTTGCATACCCAACAAGAGAATGAATATTTTTAAATTAGAG
ATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233703 representing NM_001270474
Red=Cloning site Green=Tags(s)

MDETVAEFIKRTILKIPMNELTTILKAWDFLSENQLQTVNFRQRKESVVQHLIHLCEEKRASISDAALLD
 I IYMQFHQHQKQVWEVFMQSKGPGEDVDLFDKQFKNSFKKILQRALKNVTVSFRETEENAVWIRIAWGTQ
 YTKPNQYKPTYVVVYSQTPYAFTSSSMLRRNTPLLQGTFFETHNSTTPLLQERSLGLDINMDSRIIHENIVE
 KERVQRITQETFGDYPQPQLEFAQYKLETKFKSGLNGSILAEREEPLRCLIKFSSPHLLEALKSLAPAGI
 ADAPLSPLLTCIPNKRMYFKIRDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001270474

ORF Size: 915 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_001270474.1](#), [NP_001257403.1](#)

RefSeq Size: 4561 bp

RefSeq ORF: 918 bp

Locus ID: 55839

UniProt ID: [Q96H22](#)

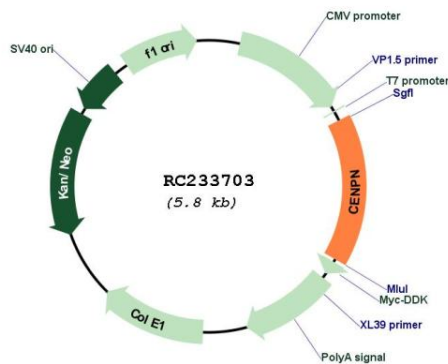
Cytogenetics: 16q23.2

Protein Families: Druggable Genome

MW: 36 kDa

Gene Summary: The protein encoded by this gene forms part of the nucleosome-associated complex and is important for kinetochore assembly. It is bound to kinetochores during S phase and G2 and recruits other proteins to the centromere. Pseudogenes of this gene are located on chromosome 2. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC233703