

Product datasheet for RC224983

CENPM (NM 001110215) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CENPM (NM_001110215) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CENPM

Synonyms: C22orf18; CENP-M; PANE1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC224983 representing NM_001110215
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCCGAGTGTGGGACTTGCCTGGTGTGCTCAAGGTGGAAGGCTTTAGGGCCACCATGGCGCAGCGCC TGGTGCGCGTGCTGCAGATCTGTGCTGGCCACGTGCCCGGTGTCTCAGCTCTGAACCTGCTGTCCCTGCT

GAGAAGCTCTGAGGGCCCCTCCCTGGAGGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224983 representing NM_001110215

Red=Cloning site Green=Tags(s)

 ${\tt MGRVWDLPGVLKVEGFRATMAQRLVRVLQICAGHVPGVSALNLLSLLRSSEGPSLEDL}$

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3454 h01.zip

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

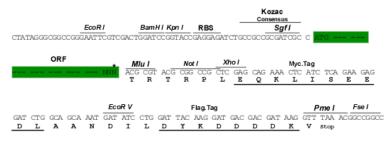
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001110215

ORF Size: 174 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 001110215.2, NP 001103685.1



 RefSeq ORF:
 177 bp

 Locus ID:
 79019

 UniProt ID:
 Q9NSP4

 Cytogenetics:
 22q13.2

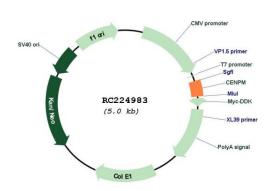
Protein Families: Druggable Genome

MW: 6.1 kDa

Gene Summary: The protein encoded by this gene is an inner protein of the kinetochore, the multi-protein

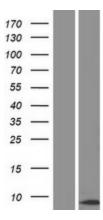
complex that binds spindle microtubules to regulate chromosome segregation during cell division. It belongs to the constitutive centromere-associated network protein group, whose members interact with outer kinetochore proteins and help to maintain centromere identity at each cell division cycle. The protein is structurally related to GTPases but cannot bind guanosine triphosphate. A point mutation that affects interaction with another constitutive centromere-associated network protein, CENP-I, impairs kinetochore assembly and chromosome alignment, suggesting that it is required for kinetochore formation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RC224983





Western blot validation of overexpression lysate (Cat# [LY426315]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).