

Product datasheet for RC224983L3

OriGene Technologies, Inc.

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CENPM (NM_001110215) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CENPM (NM_001110215) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CENPM

Synonyms: C22orf18; CENP-M; PANE1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC224983).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_001110215

ORF Size: 174 bp





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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: <u>NM 001110215.1</u>, <u>NP 001103685.1</u>

 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

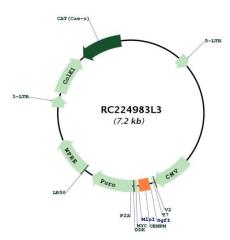
centromere-associated network protein, CENP-I, impairs kinetochore assembly and

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 RC224983L3