

## Product datasheet for RC212209

### CENPM (NM\_001002876) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CENPM (NM\_001002876) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CENPM  
**Synonyms:** C22orf18; CENP-M; PANE1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC212209 representing NM\_001002876  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGGTGTTGAGGCCCTGGACAAGCTGCCCGCCTGAACACGGCCACCATCTTGCTGGTGGGCACGG  
AGGATGCTCTTCTGCAGCAGCTGGCGGACTCGATGCTCAAAGAGGACTGCGCCTCCGAGCTGAAGGTCCA  
CTTGGCAAAGTCCCTCCCTTGGCCCTCCAGTGTGAATCGGCCCGAATTGACCTGATCGTGTGGTGGTT  
AATCTTCACAGCAAATACAGTCTCCAGAACACAGAGGAGTCCCTGCGCCATGTGGATGCCAGCTTCTCT  
TGGGAAGGTGTGTTCTCGCCACAGGTGGTGAAGGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212209 representing NM\_001002876  
Red=Cloning site Green=Tags(s)

MSVLRPLDKLPGLNTATILLVGTEDALLQQLADSMKEDCASELKVHLAKSLPLPSSVNRPRIDLIVFVV  
NLHSKYSLQNTTEESLRHVDASFFLGKVCFLATGGGRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

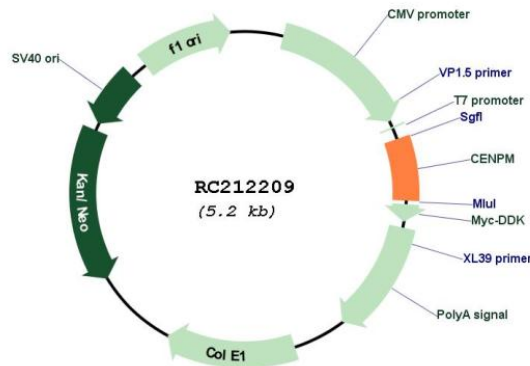


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001002876

ORF Size: 321 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001002876.2</a>
<b>RefSeq Size:</b>	855 bp
<b>RefSeq ORF:</b>	324 bp
<b>Locus ID:</b>	79019
<b>UniProt ID:</b>	<a href="#">Q9NSP4</a>
<b>Cytogenetics:</b>	22q13.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	11.5 kDa
<b>Gene Summary:</b>	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]