

## Product datasheet for MC211297

### Cenpn (NM\_028131) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cenpn (NM\_028131) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cenpn  
**Synonyms:** 2610510J17Rik; AI426416; AW545024  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211297 representing NM\_028131  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGAGAATGTTGCCGAGTTTCTCCGAGGACCATCCTGAAAATCCCTCTGAGTGAGATGAAGAGCA  
 TCCTAGAAGCCTGGGACTTTTTGTCTGAAGACCAACTACAACCATAAACCTGAAGCAGAGAAAGGACTA  
 TCTAGCCAGGAAGTGATTCTGCTATGTGAGGACAAGCGTGCAAGTCTTGATGACGTGGTCTTTTAGAC  
 ATCGTGTATACTCAATTCATCGGCACCAGAAGCTTTGGAATGTTTTTCAGATGAGTAAGGAACAGGTG  
 AAGATGTCGACCTTTTTGATATGGAACAGTTCCAAAGTTCCTTTAAGAGAATTCTTCAGAGAGCATTAAA  
 AAACGTTACAGTCAGCTCAGAGTCTATGAGAAGGATTCGGTGTGGATCCGAGTTGCCTGGGGAACACAG  
 TATTCACAGCCAAACAGTACAAGCCACGTTCTGTTGATTATCCCCAGACTCCGTATGCCTTCATTT  
 CTTCCTGCCATCTGAAGAACACTGTGCCCTTCTCCATCAGGCACTGAAAGTCGCCAGCAAAACCATCA  
 GATTGTGCATTTGGATCTGAGGAGCAGGCACCTGGACTCACTCAAGGCAATTGTTTTAGAGAGTATAAT  
 CAGACCTGTGAAAATTACAGCTCCACAACGTCTCTGCAGGAAGCGAGCCTTTCTATGTGTTGGATTCAA  
 AGATCACTCAGAAAACACAGAAGAAAAGTGAGGGTCCACCGAGTCACTCAAGAGACCTTTGGGACCTA  
 CCCTCAGCCACAGCTAGAGTTCGCACAGTATAAGCTGGAACCAAGTTCAAGAGTAACATAGGTGGGGGC  
 CTCTTGCCGACAGGAAAGAGCCCTTCCGGTGCCTTGTAAAGTCTCCAGTCCACATCTTTTGAAGCCT  
 TGAAATCCTTAGCTCCAGCCGGAATTGCAGATGCACCCTTTCTCCCTGCTCACCTGCATACCGAGCAA  
 GAAAATGAATTATTTAAAATTAGAGATAAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_028131



<b>Insert Size:</b>	1014 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_028131.3</a> , <a href="#">NP_082407.1</a>
<b>RefSeq Size:</b>	1768 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	72155
<b>UniProt ID:</b>	<a href="#">Q9CZW2</a>
<b>Cytogenetics:</b>	8 E1
<b>Gene Summary:</b>	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]