

Product datasheet for **RN215768**

Cenpw (NM_001246319) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cenpw (NM_001246319) Rat Untagged Clone

Tag: Tag Free

Symbol: Cenpw

Synonyms: CENP-W

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN215768 representing NM_001246319
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGCTCTCCACCACAGTCTGTAGGCGGATAAGGCGCAAGGCGCCCTGCGCCTTCCTCAAGCGCACCT
 TAAAGCAGAAGAAGCCGCGGCTCAGTCTGGAGAAGCGCTGCGATCTCCTGATCCATTGAATTGCCTACT
 CTTTGTTCAAAATTGGCAGAAGAGTCTAGGACAAATGCTTGTAAGTAAATCTGGAGTTATCAAAAAG
 GATCATGTACAGGCGGCAGCAAAGGTAATTCTGAAGAAGAGCAGAGGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001246319

Insert Size: 261 bp

OTI Disclaimer: 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<ol style="list-style-type: none"> 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_001246319.1, NP_001233248.1</u>
RefSeq Size:	1636 bp
RefSeq ORF:	261 bp
Locus ID:	689399
UniProt ID:	<u>A1L1L1</u>
Cytogenetics:	1p11
Gene Summary:	<p>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 (By similarity). The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres (By similarity). Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPW has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis (By similarity).[UniProtKB/Swiss-Prot Function]</p>