

## Product datasheet for **MR209297**

### Cenpb (NM\_007682) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpb (NM_007682) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cenpb
Synonyms:	CENP-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209297 representing NM\_007682, codon optimized.  
 Due to the complexity of NM\_007682, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCCTAAAAGGAGACAACCTACCTTCAGAGAGAAGTCTAGGATCATTAGGAGGTTGAGGAGAACC  
 CTGACCTCGCAAGGGTGAGATCGCTAGACGATTTAATATCCCACCCTCCACCCTGAGCACTATACTCAA  
 AAATAAGCGGGCAATTCTGGCTCCGAGCGCAAGTACGGAGTTGCTAGTACGTGTCGGAAGCAACAAG  
 CTGAGCCATACGACAACTGGAGGGGCTGTTGATCGCCTGGTTCAACAGATTCGGGCTGCTGGACTTC  
 CAGTTAAGGGAATTTATTTGAAGGAAAAGGCACCTGCGCATCGCTGAGGAGCTCGGGATGGATGACTTAC  
 AGCCAGCAACGGTTGGCTGGATAGATTTAGGAGAAGGCACGGCGTGGTGGCTTGCTCAGGCGTGACTAGG  
 AGTAGGGCACGGTCTAGCGCTCCGCGCGCTCCTGCTGCCCGGGCCGACCCGCAACTGTCCCATCAGAAG  
 GGTCCGGCGGGTCTACCCGGGGTGGCATACCCGCGAGGAACAGCCTCCGTCAAGTGGCAGAGGGGTATGC  
 ATCTCAAGATGTGTTTTAGCCACCGAGACATCTTTGTGGTACGATTTTCTGTCTGACCAAGCTTCAGGC  
 CTCTGGGGCGGTGACGGCCCGCCAGACAGGCTACTCAGAGACTGTCTGTCTTGTGTTGTGCAATGCAG  
 ACGGGAGCGAGAAGTTGCCTCCACTGGTGGCCGTAAGAGTGCAAACCAAGGGCAGGGCAAGCGGGGT  
 CCCATGTGACTACACCGCAATTCCAAAGGGGGTGTACCACGCAGGCTCTCGCTAAGTACTTGAAGGCG  
 CTGACACTAGAATGGCAGCTGAGTCCAGGAGAGTCTGTGCTGCTGGCTGGACGCCTGGCAGCCAGAGTT  
 TGGATACAAGTGGACTCAGACACGTCCAGCTCGCGTTTTTTCCCGCCGGCACGGTTCACCCCTTGAACG  
 GGGGTGGTTCAACAGGTCAAAGGGCACTACCGCAGGCAATGCTCTTGAAGGCCATGGCCGCACTGGAG  
 GGGCAGGATCCTTCAGGACTCCAGCTGGGATTGGTTGAGGCCCTCACTTTGTGGCAGCAGCCTGGCAGG  
 CCGTGGAGCCATCTGATATTGCAACATGTTTTCGCGAGGCCGGCTTCGGAGGAGGCCTAACCGGACAAT  
 TACCACCAGTTTTAAGTCCGAAGGAGAGGAGGAAGAGGAGGAGGAGGAGGAGGAAGGAAGAAGAAGAG  
 GAGGAAGGTGAAGGAGAGGAAGAGGAGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 AAGAGGGCGAGGAAGAGGTGCAAGAAGAGGGTGAAGTTGACGACAGTACGAGGAAGAGGAGGAGAGCAG  
 CAGTGAGGGCCTGGAGGCAGAGGATTGGGCTCAGGGCGTGGTTCGAGGCAAGCGGTGGGTTTCGGGGCTAT  
 AGTGTCCAAGAGGAGGCCAGTTCCCAACCCTGCACCTTCTCGAGGGCGGCGAGGATTCTGATTCAGATT  
 CAGATGAGGAAGAGGATGATGAGGAAGAGGATGAAGAGGATGAGGATGAGGAGGATGATGAGGATGGAGA  
 TGAGGTTCCAGTCCCAGCTTCGGAGAGGGCATGGCATACTTCGCTATGGTGAAGCGCTATCTCACCAGC  
 TTCCCAATAGATGACCGGGTGCAGTCTCACATCTGCACCTCGAGCACGACCTGGTCCACGTGACTAGGA  
 AGAACCATGCCCGCAAGCAGGCGTACGCGGGCTGGTTCATCAGAGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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:** [NM\\_007682.1](#), [NM\\_007682.2](#), [NM\\_007682.3](#), [NP\\_031708.2](#)

**RefSeq Size:** 2827 bp

**RefSeq ORF:** 1800 bp

**Locus ID:** 12616

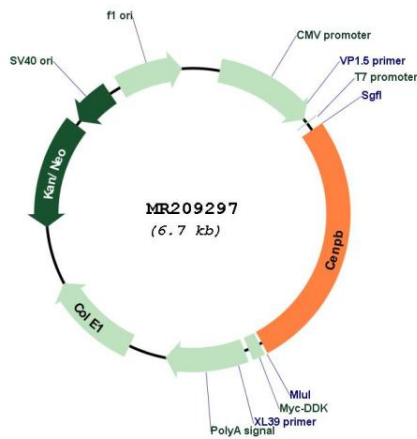
**UniProt ID:** [P27790](#)

**Cytogenetics:** 2 63.29 cM

**MW:** 65.4 kDa

**Gene Summary:** Interacts with centromeric heterochromatin in chromosomes and binds to a specific 17 bp subset of alphoid satellite DNA, called the CENP-B box. May organize arrays of centromere satellite DNA into a higher-order structure which then directs centromere formation and kinetochore assembly in mammalian chromosomes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209297