

## Product datasheet for MR226217

### Cnp (NM\_009923) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cnp (NM_009923) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnp
Synonyms:	Cnp-1; Cnp1; CNPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226217 representing NM_009923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGAACACAAGCTTTACCCGCAAAGCCACACATTCTGCCAAGCTCTTCTTCAGGAAAATGTCATCCTCAGGAGCAAAGGAGAAGCCAGAGCTGCAGTTCCTTTCTTCAAGATGAGGACACGGTGGCTACCTCCA  
CGAGTGAAGACGCTATTCATCTGCGCGGCTGCCGGGACGGCAAGTCCACTGGCTCGGCTCATC  
CTGGAGAAGTACCAGACGGCACCAAGATGGTGTCCGCTGATGCTACAAGATCATCCTGGCTCTCGG  
CAGACTTCTCCGAGGCGTACAAGCGTCTAGACGAGGACCTGGCTGGCTACTGCCCGGGACATCAGGGT  
TCTTGTGCTTGATGATACCAACCACGAGCGGGAGCGGCTGGATCAGCTTTTTGAAATGGCAGACCAGTAT  
CAGTACCAGGTGGTGGTGGAGCCAAAGACAGCGTGGCGACTAGACTGTGCCAGCTCAAGGAGAAGA  
ACCAATGGCAGCTGTCGGCCGATGACCTGAAGAAGCTGAAGCCCGGGCTGGAGAAGGACTTTCTGCCACT  
CTACTTTGGTGGTTCCTGACCAAAAAGAGTTCTGAGACCCTCCGAAAAGCTGGCCAGGTCTTTCTGGAG  
GAGCTGGGGAATCACAAGCCTTCAAGAAAGAGCTTCGACACTTTATTTCTGGAGATGAACCAAGGAGA  
AGCTTGAGCTGGTCAGCTACTTTGAAAAGAGACCTCCAGGTGTGCTGCACTGTACAACCAATTCTGTGA  
CTACGGGAAGGCCGCTGGGGCAGAAGAATACGCCAGCAGGAGGTGGTGAAGAGATCGTATGGCAAGGCC  
TTCAAAGTGTCCATCTCTGCTCTTTGTGACACCAAGACAGCTGGGGCCAGGTGGTGTGCTGACCGATC  
AGGAGCTGCAGTTGTGGCCAGTGATCTGGACAAGCCATCTGCCTCCGAGGGCCTGCCCCAGGGAGCCG  
AGCTCACGTCACCTAGGCTGTGCGGCCAGCTGCAGCCAGTGCAGACGGGTCTTGACCTTTAGATATT  
TTACAACAGGTGAAGGGGGCAGCAAGGTGAGCGGTGGGTGAGCTCCCCGGGGCAAGCTCTATTCCC  
TGGGCAAAGGGCGATGGATGCTGAGCCTGACTAAGAAGATGGAGGTCAAGGCCATCTTACGGGGTACTA  
TGGGAAGGGCAAACCTGTGCCATACATGGCAGCCGGAAGGGGGTGCCATGCAGATCTGCACCATCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR226217 representing NM\_009923  
Red=Cloning site Green=Tags(s)

MNTSFTRKSHTFLPKLFFRKMSSSGAKEKPELQFPFLQDEDTVATLHECKTLFILRGLPGSGKSTLARLI  
 LEKYHDGTMVSADAYKIIPGSRADFSEAYKRLDEDLAGYCRDRIRVLVLDLDTNHERERLDQLFEMADQY  
 QYQVVLVEPKTAWRLDCAQLKEKNQWQLSADDLKKLKPGLKDFLPLYFGWFLTKKSSSETLRKAGQVFL  
 ELGNHKAFKKELRHFISGDEPKKLELVSYFGKRPPGVLHCTTKFCDYGKAAGAEEYAQQEVVKRSYGKA  
 FKLISALFVTPKTAGAVVLTQELQLWPSDLKPSASEGLPPGSRHVTLGCAADVQPVTGLDLLDI  
 LQQVKGGSQGEAVGELPRGKLYSLGKGRWMLSLTKKMEVKAIFTGYYGKGPVPIHGSRKGGAMQICTII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009923

**ORF Size:** 1260 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](#)

**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:** [NM\\_009923.2](#), [NP\\_034053.2](#)

**RefSeq Size:** 2333 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 12799

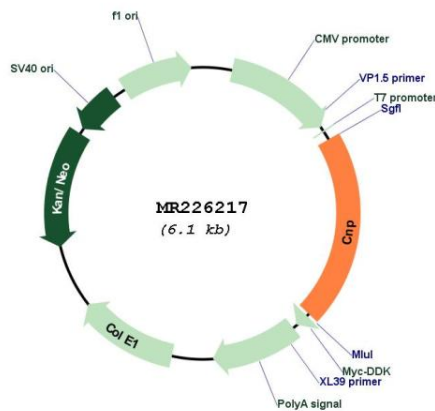
**UniProt ID:** [P16330](#)

**Cytogenetics:** 11 63.47 cM

**MW:** 47.6 kDa

**Gene Summary:** May participate in RNA metabolism in the myelinating cell, CNP is the third most abundant protein in central nervous system myelin.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR226217