

Product datasheet for **MC200615**

Cnp (NM_009923) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnp (NM_009923) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cnp
Synonyms:	Cnp-1; Cnp1; CNPase
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005544 sequence for NM_009923
CGCCCGTGTCCCTCACGCAGGCGGGCGGCCCGGAGACATAGTACCCGCAAAGGCGGTGACGGCGGTGCG
CCCCTCATCATGAACACAAGCTTTACCCGCAAAGCCACACATTCCTGCCCAAGCTCTTCTCAGGAAA
ATGTCATCCTCAGGAGCAAAGGAGAAGCCAGAGCTGCAGTTCCCTTTCTTCAAGATGAGGACACGGTGG
CTACCTCCACGAGTGAAGACGCTATTCATCCTGCGCGGCTGCCGGCAGCGGCAAGTCCACTGGC
GGCTCTCGGGCAGACTTCTCCGAGGCGTACAAGCGTCTAGACGAGGACCTGGCTGGCTACTGCCCGGGG
ACATCAGGGTTCTTGCTTGATGATACCAACCAGGAGCGGGAGCGGCTGGATCAGCTTTTTGAAATGGC
AGACCAGTATCAGTACCAGGTGGTGTGGTGGAGCCCAAGACAGCGTGGCGACTAGACTGTGCCAGCTC
AAGGAGAAGAACCAATGGCAGCTGTGCGCCGATGACCTGAAGAAGCTGAAGCCCGGGCTGGAGAAGGACT
TTCTGCCACTCTACTTTGGCTGGTTCCTGACCAAAAAGAGTTCTGAGACCCTCCGAAAAGCTGGCCAGGT
CTTTCTGGAGGAGCTGGGAATCACAAGGCCTCAAGAAAGAGCTTCGACACTTTATTTCTGGAGATGAA
CCCAAGGAGAAGCTTGAGCTGGTCACTTTGGAAAGAGACCTCCAGGTGTGCTGCACGTACAACCA
AATTCTGTGACTACGGGAAGGCCGCTGGGGCAGAAGAATACGCCAGCAGGAGGTGGTGAAGAGATCGTA
TGCAAGGCCTTCAAACGTCCATCTCTGCTCTTTGTGACACCAAGACAGCTGGGGCCAGGTGGT
CTGACCGATCAGGAGCTGCAGTTGTGGCCAGTATCTGACAAGCCATCTGCCTCCGAGGGCTGCCCC
CAGGGAGCCGAGCTCACGTCACCCTAGGCTGTGCGGCCGACGTGCAGCCAGTGCAGACGGGTCTTGACCT
CTTAGATATTTTACAACAGGTGAAGGGGGCAGCCAAGGTGAGGCGGTGGGTGAGCTCCCCGGGGCAAG
CTCTATTCCTGGGCAAAGGGCGATGGATGCTGAGCCTGACTAAGAAGATGGAGGTCAAGGCCATCTTCA
CGGGTACTATGGGAAGGGCAAACCTGTGCCATACATGGCAGCCGGAAGGGGGTGGCATGCAGATCTG
CACCATCATCTGAGGGTTCACACCGCTGTACCACTGTACCACTGCTGTGGTGGACACAGCAACATGCCT
TCCACCTGATTTTTAAGATTTTTTTTTTTTTTTTACTCAAAGCTAACGTACCTGTAACCTTTTTAGGAGTCT
ATAAAATAACTACAGTTCCTTTGTCGCCACCTTTCTTTTCTTAATACTCAGCTCTCAACACAGGGC
GGTGGGCAGAGGAAGATACCATTACAGGAACCTGGACCAGAGGTGTAATAAAAGGGCTGGGTCATTGGGC
CTGCAGCAGCATCTGCCAGATGCATCCAAGAACTTGTTAACCTCCCTTAGCCCTGCCATCCAAGC
TGGGCACACGCCTCAGAGCTGCCACATGCTAGGGACAAACGCTACTGCCACAGGAAAACAGTGGTAGCTT
AGAGAGGGCTCAGATCCCTGGGTGCCAGTTTTTAACTACTATAGCCCTTGGGAAGGCTTGGGCTATTTA
CTGGGCGGTAAGGGGTTTACCTCTCACCTTTGGTATTCTTAAGTTCCTATCTCTTCACTGTACC
TAGGGTGTGGTTTCGGTCAGGCCATCTCCAGCAGCATGTCTCTGCTGTGGTGGAGGCAAGGTGAG
AAAGATGCCCCGAGAAGCTCCAGCTTTGCTTTCTGCCAGCCATCTTGCTGCATGGTGCCTCTGGGTC
TTTAAAGGAGGGTGGTAGGTACCAAGAACCAGTGGAGGGGACCCTGAGCTGGCAAGAGTAAGCCCCATCT
CCTGCTCTGGCAAAGCCTGGCTCCTGGAGTACCTCACTCTGCCTTCTGCTCAGTAACAGGACCTTGCTAA
TTGGGTTGTACCCGAGAATCTGGGATGTATGCTCCTACCTCACCTGTGTGGCCACCTCAGCCACCA
CTAAGACTGATACTGAAATAATCATGTTAATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009923

Insert Size: 1263 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).

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: [BC005544](#), [AAH05544](#)

RefSeq Size: 2301 bp

RefSeq ORF: 1263 bp

Locus ID: 12799

UniProt ID: [P16330](#)

Cytogenetics: 11 63.47 cM

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]
Transcript Variant: This variant (2) has multiple differences in the presence and absence of exons at its 5' end, compared to variant 1. These differences produce a unique 5' UTR and cause translation initiation at an upstream start codon, compared to variant 1. The encoded protein (isoform 2) is 20 aa longer at the N-terminus, compared to isoform 1. This isoform is also known as CNP2.