

Product datasheet for MR206670

Cnp (NM_001146318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnp (NM_001146318) 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:	>MR206670 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACACAAGCTTTACCCGAAAAGCCACACATTCTGCCAAAGCTCTTCTTCAGGAAAATGTCATCCT
CAGGAGCAAAGGAGAAGCCAGAGCTGCAGTTCCTTTCTTCAAGATGAGGACACGGTGGCTACCTCCA
CGAGTGAAGACGCTATTCATCTGCGCGGCTGCCGGGACGGCAAGTCCACTGGCTCGGCTCATC
CTGGAGAAGTACCACGACGGCACCAAGATGGTGTCCGCTGATGCTTACAAGATCATCCTGGCTCTCGG
CAGACTTCTCCGAGGCGTACAAGCGTCTAGACGAGGACCTGGCTGGCTACTGCCCGGGACATCAGGGT
TCTTGTGCTTGATGATACCAACCACGAGCGGGAGCGGCTGGATCAGCTTTTTGAAATGGCAGACCAGTAT
CAGTACCAGGTGGTGGTGGAGCCAAAGACAGCGTGGCGACTAGACTGTGCCAGCTCAAGGAGAAGA
ACCAATGGCAGCTGTCGGCCGATGACCTGAAGAAGCTGAAGCCCGGGCTGGAGAAGGACTTTCTGCCACT
CTACTTTGGCTGGTTCCTGACAAAAAGAGTTCTGAGACCCTCCGAAAAGCTGGCCAGGTCTTTCTGGAG
GAGCTGGGGAATCACAAGCCTTCAAGAAAGAGCTTCGACACTTATTTCTGGAGATGAACCAAGGAGA
AGCTTGAGCTGGTCAGCTACTTTGGAAAGAGACCTCCAGGTGTGCTGCACTGTACAACAAATTCTGTGA
CTACGGGAAGGCCGCTGGGGCAGAAGAATACGCCAGCAGGAGGTGGTGAAGAGATCGTATGGCAAGGCC
TTCAAAGTGTCCATCTCTGCTCTTTGTGACACCAAGACAGCTGGGGCCAGGTGGTGTGCTGACCGATC
AGGAGCTGCAGTTGTGGCCAGTGATCTGGACAAGCCATCTGCCTCCGAGGGCCTGCCCCAGGGAGCCG
AGCTCACGTCACCTAGGCTGTGCGGCCAGCTGCAGCCAGTGCAGACGGGTCTTGACCTCTTAGATATT
TTACAACAGGTGAAGGGGGCAGCAAGGTGAGCGGTGGGTGAGCTCCCCGGGGCAAGCTCTATTCCC
TGGGCAAAGGGCGATGGATGCTGAGCCTGACTAAGAAGATGGAGGTCAAGGCCATCTTACGGGGTACTA
TGGGAAGGGCAAACCTGTGCCATACATGGCAGCCGGAAGGGGGTGCCATGCAGATCTGCACCATCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206670 protein sequence
Red=Cloning site Green=Tags(s)

MNTSFTRKSHTFLPKLFFRKMSSSGAKEKPELQFPFLQDEDTVATLHECKTLFILRGLPGSGKSTLARLI
 LEKYHDGTMVSADAYKIIPGSRADFSEAYKRLDEDLAGYCRDIRVLVLDNTNHERERLDQLFEMADQY
 QYQVVLVEPKTAWRLDCAQLKEKNQWQLSADDLKKLKPGLKDFLPLYFGWFLTKKSSSETLRKAGQVFLE
 ELGNHKAFKKELRHFISGDEPKKLELVSYFGKRPPGVHLHCTTKFCDYGKAAGAEYAAQQEVVKRSYGKA
 FKLISALFVTPKTAGAQVVLTDQELQLWPSDLDKPSASEGLPPGSRHVTLGCAADVQPVTGLDLLDI
 LQQVKGGSQGEAVGELPRGKLYSLGKGRWMLSLTKKMEVKAIFTGYYGKGPVPIHGSRKGAMQICTII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146318

ORF Size: 1263 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 Size: 2548 bp

RefSeq ORF: 1203 bp

Locus ID: 12799

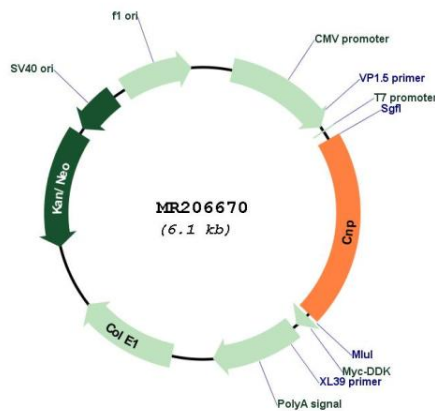
UniProt ID: [P16330](#)

Cytogenetics: 11 63.47 cM

MW: 47.1 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 MR206670