

Product datasheet for **RR207393**

Cnp (NM_012809) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnp (NM_012809) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnp
Synonyms:	Cnp1; CNPF; CNPI; CNPII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207393 representing NM_012809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCACAAGCTTTGCCGAAAAAGCCACACATTCTGCCCAAGATCTTCTTCAGAAAAATGTCATCCT
CAGGAGCTAAGGACAAGCCAGAGCTGCAGTTCCCTTTCCCTTCAAGATGAGGACACGGTGGCTACGCTGCA
CGAGTGAAGACGCTGTTTCATCCTGCGTGGCCTGCCGGCAGCGGCAAGTCCACTCTGGCTCGGCTCATC
GTGGAGAAGTACCACAACGGCACCAAGATGGTGTCTGCTGATGCTTACAAGATCATTCTGGCTCTCGGG
CAGACTTCTCCGAGGAGTACAAGCGTCTGGACGAGGACCTGGCTGGCTACTGCCGCCGGGACATCAGGGT
TCTTGTGCTCGATGACACCAACCATGAGCGGGAACGGCTGGACCAGCTTTTTGAAATGGCAGACCAGTAC
CAGTACCAGGTGGTGTGGTGGAGCCAAAGACGGCGTGGCGACTAGACTGTGCCAGCTCAAGGAGAAGA
ACCAATGGCAGCTGTGCTCGATGACCTGAAGAAGCTGAAGCCCGGGCTGGAGAAGGACTTCTGCCACT
TTACTTTGGCTGGTTCTGACCAAAAAGAGTTCGAGACCCTCCGAAAAGCCGGCCAGGTCTTTCTGGAG
GAGCTGGGAAATCACAAGCTTTCAAGAAAGAGCTTCGACACTTCATTTCTGGGGATGAACCAAGGAGA
AGCTTGACCTGGTCAGCTATTTTGGCAAGAGACCTCCAGGCGTGTGCTGACTGTACAACCAATTCGTGA
CTACGGGAAGGCCACCGGGCAGAAGAATATGCCCAACAGGATGTGGTGAAGGAGATCTTACGGCAAGGCC
TTCAAACGTCCATCTCTGCCCTTTTGTGACACCAAGACAGCTGGGGCCAGGTGGTGTAAATGAGC
AGGAGTGCAGTTGTGGCCAAGTGACCTGGACAAGCCCTCATCTCCGAGAGCTGCCCCAGGGAGCCG
AGCTCACGTCACCCTAGGCTGTGACGCCGACGTGCAGCCAGTGCAGACAGGCCTTGACCTTTAGAGATT
TTACAGCAGGTGAAGGGGGCAGCCAAGGTGAGGAGGTGGGTGAGCTCCCCGGGGCAAGCTCTATTCTT
TGGGCAAAGGGCCTTGGATGCTGAGCTTGGCGAAGAAGATGGAAGTCAAGGCCATCTTACGGGGTACTA
TGGGAAGGGCAAACCTGTACCCGTACACGGCAGCCGGAAGGGGGTGCCATGCAGATCTGCACCATCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR207393 representing NM_012809
 Red=Cloning site Green=Tags(s)

MSTSFARKSHTFLPKIFFRKMSSSGAKDKPELQFPFLQDEDTVATLHECKTLFILRGLPGSGKSTLARLI
 VEKYHNGTKMVSADAYKIIPGSRADFSEEYKRLDEDLAGYCRDRIRVLVLDLDTNHERERLDQLFEMADQY
 QYQVVLVEPKTAWRLDCAQLKEKNQWQLSLDDLKLLKPGLEKDFLPLYFGWFLTKKSSSETLRKAGQVFL
 ELGNHKAFKKELRHFISGDEPKKLDLVSFYFGRPPGVHLHCTTKFCDYGKATGAEEYAQQDVVRRSYGKA
 FKLISALFVTPKTAGAQQVVLNEQELQLWPSDLDPSSSESLPPGSRHVTLGCAADVQPVTGLDLLEI
 LQQVKGGSQGEVVELPRGKLYSLGKGRWMLSLAKKMEVKAIFTGYYGKGPVPHGSRKGGAMQICTII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

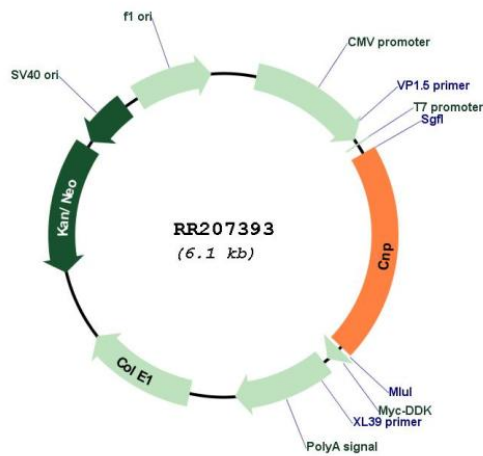
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012809

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:	<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:	NM_012809.2 , NP_036941.1
RefSeq Size:	2326 bp
RefSeq ORF:	1263 bp
Locus ID:	25275
UniProt ID:	P13233
Cytogenetics:	10q31
MW:	47.3 kDa
Gene Summary:	microtubule-binding protein that promotes microtubule assembly and may regulate cellular distribution of microtubules [RGD, Feb 2006]