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Product datasheet for RC207038

CNPase (CNP) (NM_033133) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNPase (CNP) (NM_033133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNPase
Synonyms:	CNP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC207038 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAGAGGCTTCTCCCGAAAAAGCCACACATTCCTGCCCAAGATCTTCTTCCGCAAGATGTCATCCT
CAGGGGCCAAGGACAAGCCTGAGCTGCAGTTTCCCTTCCTTCAGGATGAGGACACAGTGGCCACGCTGCT
AGAGTGCAAGACGCTCTTCATCTTGCGCGGCCTGCCAGGAAGCGGCAAGTCCACGCTGGCACGGGTCATC
GTGGACAAGTACCGTGATGGCACCAAGATGGTGTCGGCTGACGCTTACAAGATCACCCCCGGCGCTCGAG
GAGCCTTCTCCGAGGAGTACAAGCGGCTCGATGAGGACCTGGCTGCCTACTGCCGCCGCCGGGACATCAG
AATTCTTGTGCTTGATGACACCAACCACGAACGGGAACGGCTGGAGCAGCTCTTTGAAATGGCCGACCAG
TACCAGTACCAGGTGGTGCTGGTGGAGCCCAAGACGGCGTGGCGGCTGGACTGTGCCCAGCTCAAGGAGA
AGAACCAGTGGCAGCTGTCGGCTGATGACCTGAAGAAGCTGAAGCCTGGGCTGGAGAAGGACTTCCTGCC
GCTCTACTTCGGCTGGTTCCTGACCAAGAAGAGCTCTGAGACCCTCCGCAAAGCCGGCCAGGTCTTCCTG
GAAGAGCTGGGGAACCACAAGGCCTTCAAGAAGGAGCTGCGACAATTCGTCCCTGGGGATGAGCCCAGGG
AGAAGATGGACTTGGTCACCTACTTTGGAAAGAGACCCCCAGGCGTGCTGCATTGCACAACCAAGTTTTG
TGACTACGGGAAGGCTCCCGGGGCAGAGGAGTACGCTCAACAAGATGTGTTAAAGAAATCTTACTCCAAG
GCCTTCACGCTGACCATCTCTGCCCTCTTTGTGACACCCAAGACGACTGGGGCCCGGGTGGAGTTAAGCG
AGCAGCAACTGCAGTTGTGGCCGAGTGATGTGGACAAGCTGTCACCCACTGACAACCTGCCGCGGGGGAG
CCGCGCCCACATCACCCTCGGCTGTGCAGCTGACGTAGAGGCCGTGCAGACGGGCCTTGACCTCTTAGAG
ATTCTGCGGCAGGAGAAGGGGGGCAGCCGAGGCGAGGAGGTGGGCGAGCTAAGCCGGGGCAAGCTCTATT
CCTTGGGCAATGGGCGCTGGATGCTGACCCTGGCCAAGAACATGGAGGTCAGGGCCATCTTCACGGGGTA
CTACGGGAAAGGCAAACCTGTGCCCACGCAAGGTAGCCGGAAGGGGGGCGCCTTGCAGTCCTGCACCATC
ATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207038 protein sequence
Red=Cloning site Green=Tags(s)

MNRGFSRKSHTFLPKIFFRKMSSSGAKDKPELQFPFLQDEDTVATLLECKTLFILRGLPGSGKSTLARVI
VDKYRDGTKMVSADAYKITPGARGAFSEEYKRLDEDLAAYCRRRDIRILVLDDTNHERERLEQLFEMADQ
YQYQVVLVEPKTAWRLDCAQLKEKNQWQLSADDLKKLKPGLEKDFLPLYFGWFLTKKSSETLRKAGQVFL
EELGNHKAFKKELRQFVPGDEPREKMDLVTYFGKRPPGVLHCTTKFCDYGKAPGAEEYAQQDVLKKSYSK
AFTLTISALFVTPKTTGARVELSEQQLQLWPSDVDKLSPTDNLPRGSRAHITLGCAADVEAVQTGLDLLE
ILRQEKGGSRGEEVGELSRGKLYSLGNGRWMLTLAKNMEVRAIFTGYYGKGKPVPTQGSRKGGALQSCTI
I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6333_e07.zip

Restriction Sites: SgfI-MluI

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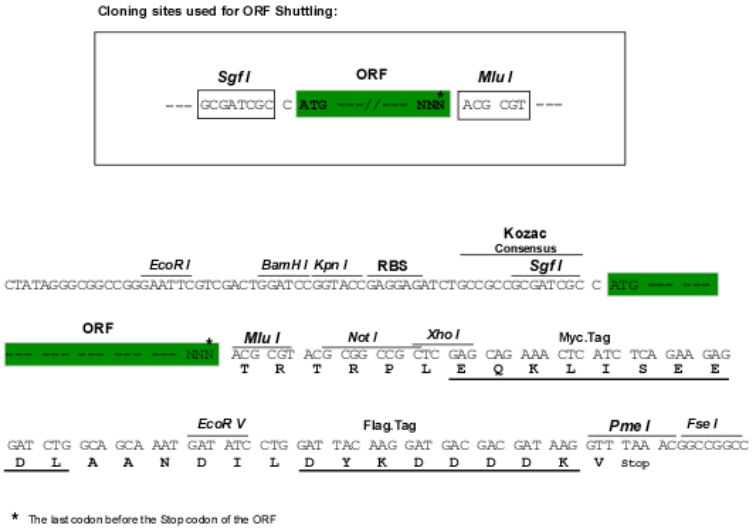
Cloning Scheme:



ACCN: NM_033133

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_033133.5

RefSeq Size: 5222 bp

RefSeq ORF: 1266 bp

Locus ID: 1267

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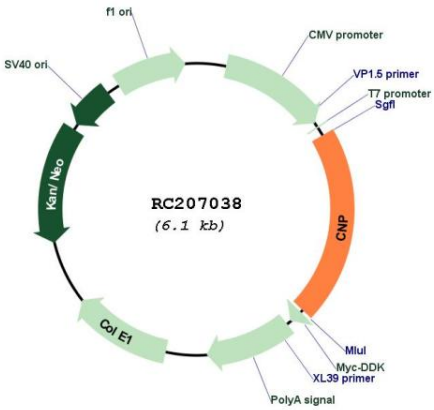
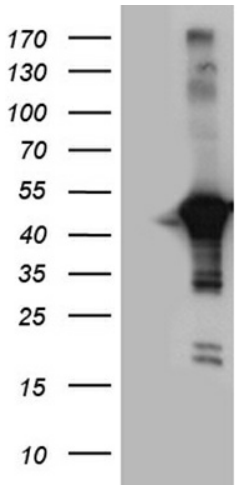
UniProt ID:	P09543
Cytogenetics:	17q21.2
MW:	47.6 kDa
Gene Summary:	May participate in RNA metabolism in the myelinating cell, CNP is the third most abundant protein in central nervous system myelin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207038



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CNP (Cat# RC207038, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CNP (1:2000) (Cat# [TA811100]). Positive lysates [LY409699] (100ug) and [LC409699] (20ug) can be purchased separately from OriGene.

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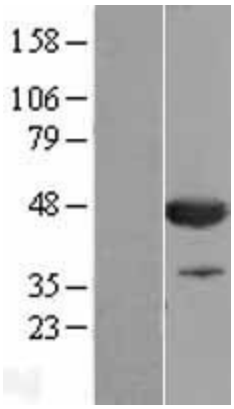
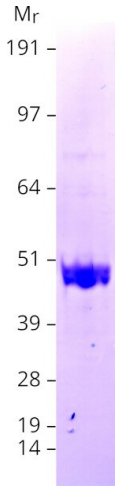


Western blot validation of overexpression lysate (Cat# [LY409699]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207038 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNP protein (Cat# [TP307038]). The protein was produced from HEK293T cells transfected with CNP cDNA clone (Cat# RC207038) using MegaTran 2.0 (Cat# [TT210002]).

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