

Product datasheet for RC220821

NAP1L1 (NM_004537) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAP1L1 (NM_004537) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAP1L1
Synonyms:	NAP1; NAP1L; NRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220821 representing NM_004537 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAGACATTGACAACAAAGAACAGTCTGAACCTTGATCAAGATTTGGATGATGTTGAAGAAGTAGAAG
AAGAGGAACTGGTGAAGAAACAACTCAAAGCACGTCAGCTAACTGTTTCAGATGATGCAAAATCCTCA
GATTCCTGCAGCCCTTCAAGAAAGACTTGATGGTCTGGTAGAAACACCAACAGGATACATTGAAAGCCTG
CCTAGGAGTAAAGACGAGTGAATGCTCTCAAAACCTGCAAGTTAAATGTGCACAGATAGAAGCCA
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ATTTGAAATTATTAATGCAATTTATGAACCTACGGAAGAAGAATGTGAATGGAAACAGATGAAGAAGAT
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CCAAAGGAATTCCTGAATTTTGGTTAACTGTTTTTAAGAATGTTGACTTGCTCAGTGATATGGTTCAGGA
ACACGATGAACCTATTCTGAAGCACTTGAAAGATATTAAGTGAAGTTCTCAGATGCTGGCCAGCCTATG
AGTTTTGTCTTAGAATTTCACTTTGAACCAATGAATATTTTACAAATGAAGTGTGACAAAGACATACA
GGATGAGGTCAGAACCAGATGATTCTGATCCCTTTTCTTTGATGGACCAGAAATATGGGTTGTACAGG
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GGACGTGGGACAGTTCGTAAGTGTGACTAAACAGTTTCCAATGACTCTTTCTTTAACTTTTTGCCCCCTC
CTGAAGTTCTGAGAGTGGAGATCTGGATGATGCTGAAGCTATCCTTGCTGCAGACTTCGAAATTGG
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GATGATGATTATGATGAAGAAGGTGAAGAAGCGGATGAGGAAGGGAAGAAGAAGGAGATGAGGAAAATG
ATCCAGACTATGACCCAAAGAAGGATCAAAACCCAGCAGAGTGCAAGCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC220821 representing NM_004537
 Red=Cloning site Green=Tags(s)

MADIDNKEQSELDQDLDVVEVEEEETGEETKLKARQLTVQMMQNPQILAAALQERLDGLVETPTGYIESL
 PRVVKRRVNALKNLQVKCAQIEAKFYEEVHDLERKYAVLYQPLFDKRFEIINAIYEPTEECEWKPDEED
 EISEELKEKAKIEDEKKDEEKEDPKGIPEFWLTVFKNVDLLSDMVQEHDPEILKHLKDIKVFSDAGQPM
 SFVLEFHFEPNEYFTNEVLTKTYMRSEPDDSDPFSFDGPEIMGCTGCQIDWKKGNVTLTKTIKKKQKHK
 GRGTVRVTYTKTVSNDFFNFAPPEVPESGDLDDDAEAILAADFEIGHFLRERIIPRSVLYFTGEAIEDD
 DDDYDEEGEEADEEGEEGDEENDPDYDPKKDQNPACCKQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2798_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004537

ORF Size: 1173 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_004537.3](#), [NP_004528.1](#)

RefSeq Size: 2908 bp

RefSeq ORF: 1176 bp

Locus ID: 4673

UniProt ID: [P55209](#)

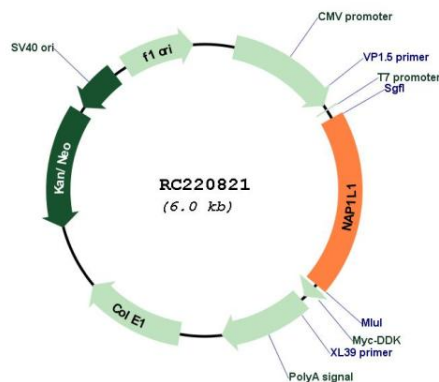
Cytogenetics: 12q21.2

Domains: NAP

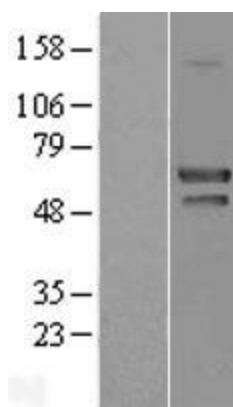
MW: 45.2 kDa

Gene Summary: This gene encodes a member of the nucleosome assembly protein (NAP) family. This protein participates in DNA replication and may play a role in modulating chromatin formation and contribute to the regulation of cell proliferation. Alternative splicing results in multiple transcript variants encoding different isoforms; however, not all have been fully described. [provided by RefSeq, Apr 2015]

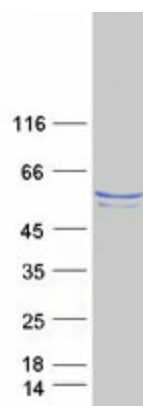
Product images:



Circular map for RC220821



Western blot validation of overexpression lysate (Cat# [LY417929]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220821 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NAP1L1 protein (Cat# [TP320821]). The protein was produced from HEK293T cells transfected with NAP1L1 cDNA clone (Cat# RC220821) using MegaTran 2.0 (Cat# [TT210002]).