

Product datasheet for RC201519

NCBP2 (NM_007362) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NCBP2 (NM_007362) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NCBP2
Synonyms: CBC2; CBP20; NIP1; PIG55
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201519 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGTGGCCTCCTGAAGGCGCTGCGCAGCGACTCCTACGTGGAGCTGAGCCAGTACCGGGACCAGC
ACTTCCGGGTGACAATGAAGAACAAGAAAATTACTGAAGAAAAGCTGTACGTTATATGTTGAAATCT
TTCTTTTACACAACGAAGAACAATCTATGAACCTTCAGCAAAAGTGGTACATAAAGAAAATCATT
ATGGGTCTGGATAAAATGAAGAAAACAGCATGTGGATTCTGTTTTGTGGAATATTACTCACGCGCAGATG
CGGAAAACGCCATGCGGTACATAAATGGGACGCGTCTGGATGACCGAATCATTCCGCACAGACTGGGACGC
AGGCTTTAAGGAGGGCAGGCAATACGGCCGTGGCGCATCTGGGGCCAGGTTCCGGATGAGTATCGGCAG
GACTACGATGCTGGGAGAGGAGGCTATGAAAACCTGGCACAGAACCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201519 protein sequence
Red=Cloning site Green=Tags(s)

MSGLLKALRSDSYVELSQYRDQHFGRDNEEQEKLLKKSCTLYVGNLSFYTTEEQIYELFSKSGDIKKII
MGLDKMKKTACGFCFVEYYSRADAENAMRYINGTRLDDRIIRTDWDAGFKEGRQYGRGRSGGQVRDEYRQ
DYDAGRGGYGKLAQNQ

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

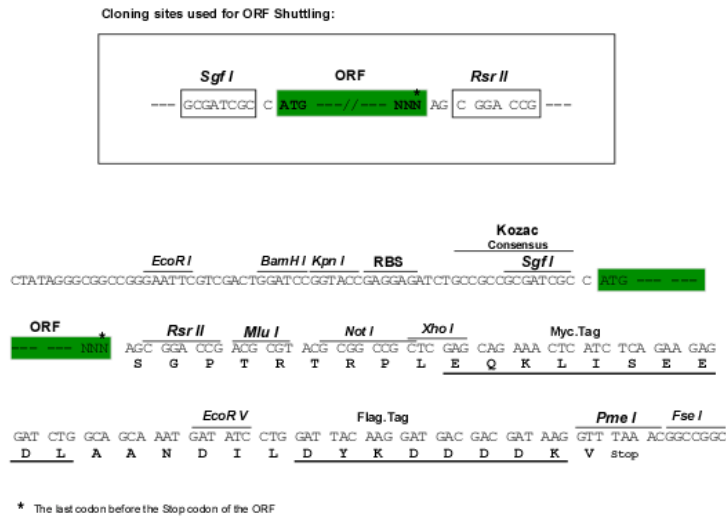
Chromatograms: https://cdn.origene.com/chromatograms/mk6188_h10.zip



[View online >](#)

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_007362

ORF Size: 468 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: [NM_007362.5](#)

RefSeq Size: 2175 bp

RefSeq ORF: 471 bp

Locus ID: 22916

UniProt ID: [P52298](#)

Cytogenetics: 3q29

Domains: RRM

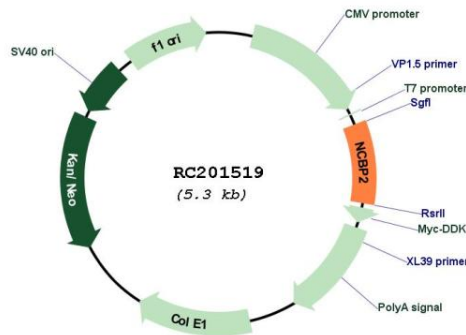
Protein Families: Druggable Genome

Protein Pathways: Spliceosome

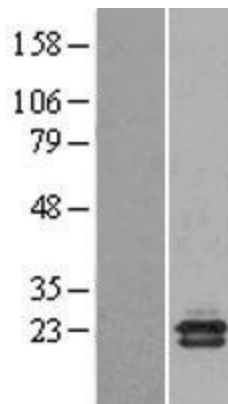
MW: 18 kDa

Gene Summary: The product of this gene is a component of the nuclear cap-binding protein complex (CBC), which binds to the monomethylated 5' cap of nascent pre-mRNA in the nucleoplasm. The encoded protein has an RNP domain commonly found in RNA binding proteins, and contains the cap-binding activity. The CBC promotes pre-mRNA splicing, 3'-end processing, RNA nuclear export, and nonsense-mediated mRNA decay. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

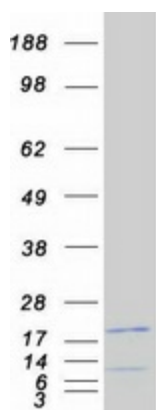
Product images:



Circular map for RC201519



Western blot validation of overexpression lysate (Cat# [LY402134]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201519 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NCBP2 protein (Cat# [TP301519]). The protein was produced from HEK293T cells transfected with NCBP2 cDNA clone (Cat# RC201519) using MegaTran 2.0 (Cat# [TT210002]).