

## **Product datasheet for RG201519**

## NCBP2 (NM 007362) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** NCBP2 (NM\_007362) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: NCBP2

Synonyms: CBC2; CBP20; NIP1; PIG55

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG201519 representing NM\_007362

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCGGGTGGCCTCCTGAAGGCGCTGCGCAGCGACTCCTACGTGGAGCTGAGCCAGTACCGGGACCAGC ACTTCCGGGGTGACAATGAAGAACAAGAAAAATTACTGAAGAAAAGCTGTACGTTATATGTTGGAAATCT TTCTTTTTACACAACTGAAGAACAAATCTATGAACTCTTCAGCAAAAGTGGTGACATAAAGAAAATCATT ATGGGTCTGGATAAAATGAAGAAAACAGCATGTGGATTCTGTTTTTGTGGAATATTACTCACGCGCAGATG CGGAAAACGCCATGCGGTACATAAATGGGACGCGTCTGGATGACCGAATCATTCGCACAGACTGGGACGC AGGCTTTAAGGAGGGCAGGCAATACGGCCGTGGGCGATCTGGGGCCAGGTTCGGGATGACTATCGGCAG

GACTACGATGCTGGGAGAGGAGGCTATGGAAAACTGGCACAGAACCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201519 representing NM\_007362

Red=Cloning site Green=Tags(s)

MSGGLLKALRSDSYVELSQYRDQHFRGDNEEQEKLLKKSCTLYVGNLSFYTTEEQIYELFSKSGDIKKII MGLDKMKKTACGFCFVEYYSRADAENAMRYINGTRLDDRIIRTDWDAGFKEGRQYGRGRSGGQVRDEYRQ

DYDAGRGGYGKLAQNQ

SGPTRTRRLE - GFP Tag - V

**Restriction Sites:** Sgfl-Rsrll



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

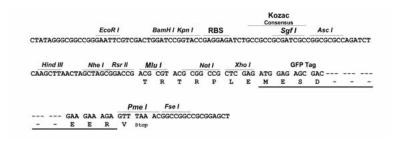
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## **Cloning Scheme:**





**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:** <u>NM 007362.5</u>

RefSeq Size: 2120 bp
RefSeq ORF: 471 bp
Locus ID: 22916
UniProt ID: P52298



Cytogenetics: 3q29

Domains: RRM

**Protein Families:** Druggable Genome

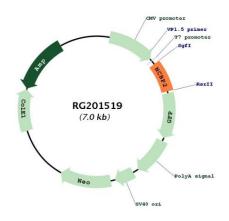
**Protein Pathways:** Spliceosome

**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 RG201519