

## Product datasheet for **RG204031**

### NC2 alpha (DRAP1) (NM\_006442) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NC2 alpha (DRAP1) (NM\_006442) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NC2 alpha  
**Synonyms:** NC2-alpha  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204031 representing NM\_006442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGAGCAAGAAGAAGTACAACGCGCGTTCCCGCCGCGCGGATCAAGAAGATCATGCAGACGG  
 ACGAAGAGATTGGGAAGGTGGCGCGCGGTGCCTGTTCATCATCTCCCGGCGCTCGAGCTTCTCTAGA  
 GTCGCTGTTGAAGAAGGCTGCCAGGTGACCCAGTCGCGGAACCGAAGACCATGACCACATCCACCTG  
 AAGCAGTGCATCGAGCTGGAGCAGCAGTTTACTTCTTGAAGGACCTGGTGGCATCTGTTCCCGACATGC  
 AGGGGGACGGGAAGACAACCACATGGATGGGGACAAGGGCGCCCGCAGGGGCGGAAGCCAGGCAGCGG  
 CGGCCGGAAGAACGGTGGGATGGGAACGAAAAGCAAGGACAAGAAGCTGTCCGGGACAGACTCGGAGCAG  
 GAGGATGAATCTGAGGACACAGATACTGATGGGGAAGAGGAGACATCACAAACCCCAACCCAGGCCAGCC  
 ACCCCTCTGCCCACTTTAGAGCCCCCGACACCTTCTCCTGCCCTTCGCCTCTACTCTGCCTTTGCCCC  
 AGCGCCCCCGGGCCCTCAGCACCTGATGAAGAGGACGAAGAAGATTACGACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204031 representing NM\_006442  
 Red=Cloning site Green=Tags(s)

MPSKKKKYNARFPARIKKIMQTDEEIGKVAAPVVIISRALELFLESLKACQVTSRNAKMTTSHL  
 KQCIIELEQQDFDLKDLVASVPDMQGDGEDNHMDGDKGARRGRKPGSGRKNMGMTKSKDKKLSGTDSEQ  
 EDESEDTDGEEETSQPPPQASHPSAHFQSPPTPFLPFASLPLPPAPPGPSAPDEEDEEDYDS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_006442

**ORF Size:** 615 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\\_006442.4](#)

**RefSeq Size:** 988 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 10589

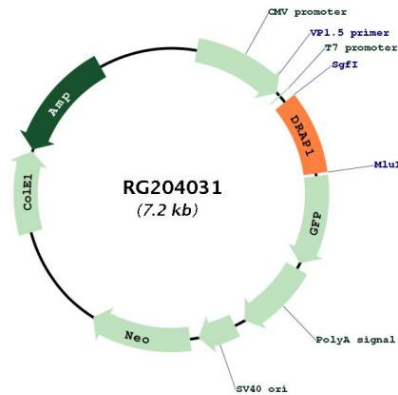
**UniProt ID:** [Q14919](#)

**Cytogenetics:** 11q13.1

**Protein Families:** Transcription Factors

**Gene Summary:** Transcriptional repression is a general mechanism for regulating transcriptional initiation in organisms ranging from yeast to humans. Accurate initiation of transcription from eukaryotic protein-encoding genes requires the assembly of a large multiprotein complex consisting of RNA polymerase II and general transcription factors such as TFIIA, TFIIB, and TFIID. DR1 is a repressor that interacts with the TATA-binding protein (TBP) of TFIID and prevents the formation of an active transcription complex by precluding the entry of TFIIA and/or TFIIB into the preinitiation complex. The protein encoded by this gene is a corepressor of transcription that interacts with DR1 to enhance DR1-mediated repression. The interaction between this corepressor and DR1 is required for corepressor function and appears to stabilize the TBP-DR1-DNA complex. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG204031