

## DR1 cDNA

Catalog Number: ATGD0030

### PRODUCT INFORMATION

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**Catalog number**

ATGD0030

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_001929.1

**Alternative Names**

NC2, NC2-BETA

**mRNA Refseq**

NM\_001938.2

**OMIM**

601482

**Chromosome location**

1p22.1

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

531bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted Nde I to BamH I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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DR1, also known as NC2-beta, is a TBP (TATA box-binding protein) associated phosphoprotein that represses both basal and activated levels of transcription. The protein is phosphorylated in vivo and this phosphorylation affects its interaction with TBP. This protein contains a histone fold motif at the amino terminus, a TBP-binding domain, and a glutamine- and alanine-rich region. By selectively repressing polymerases II and III, DR1 may shift the physiological balance of transcriptional output in favor of polymerase I.

### DATA

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#### Sequence nucleotides

```
ATGGCTTCCT CGTCTGGCAA CGATGATGAT CTCACTATCC CCAGAGCTGC TATCAATAAA ATGATCAAAG
AGACTCTTCC TAATGTCCGG GTGGCCAACG ATGCTCGAGA GCTGGTGGTG AACTGCTGCA CTGAATTCAT
TCACCTTATA TCTTCTGAAG CCAATGAGAT TTGTAACAAA TCGGAAAAGA AGACCATCTC ACCAGAGCAT
GTCATACAAG CACTAGAAAAG TTTGGGATTT GGCTCTTACA TCAGTGAAGT AAAAGAAGTC TTGCAAGAGT
GTAAAACAGT AGCATTAAAA AGAAGAAAGG CCAGTTCTCG TTTGGAAAAC CTTGGCATTCTG CTGAAGAAGA
GTTATTGAGA CAGCAACAAG AATTATTTGC AAAAGCTAGA CAGCAACAAG CAGAATTGGC CCAACAGGAA
TGGCTTCAA TGCAGCAAGC TGCCCAACAA GCCCAGCTTG CTGCTGCCTC AGCCAGTGCA TCTAATCAGG
CGGGATCTTC TCAGGATGAA GAAGATGATG ATGATATCTG A
```

#### Transaction Sequence

```
MASSSGNDDD LTIPRAAIINK MIKETLPNVR VANDARELVV NCCTEFIHLI SSEANEICNK SEKKTISPEH VIQALES LGF
GSYISEVKEV LQECKTVALK RRKASSRLEN LGIPEEELLR QQQLFAKAR QQQAELAQQE WLQMQQAAQQ AQLAAASASA
SNQAGSSQDE EDDDDI
```