

Product datasheet for **RC205733**

DR1 (NM_001938) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DR1 (NM_001938) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DR1
Synonyms: NC2; NC2-BETA; NC2B; NCB2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205733 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCTCGTCTGGCAACGATGATGATCTCACTATCCCCAGAGCTGCTATCAATAAAATGATCAAAG
AGACTTTCCTAATGTCCGGGTGGCCAACGATGCTCGAGAGCTGGTGGTGAAGTCTGCACTGAATTCAT
TCACCTTATATCTTCTGAAGCCAATGAGATTTGTAACAAATCGGAAAAGAAGACCATCTCACCAGAGCAT
GTCATACAAGCACTAGAAAGTTGGGATTTGGCTTTACATCAGTGAAGTAAAAGAAGTCTTGAAGAGT
GTAAAACAGTAGCATTAAAAGAAGAAAGGCCAGTTCTCGTTTGGAAAACCTTGGCATTCTGAAGAAGA
GTTATTGAGACAGCAACAAGAATTATTTGCAAAAAGCTAGACAGCAACAAGCAGAATTGGCCCAACAGGAA
TGGCTTCAAATGCAAGCTGCCCAACAAGCCAGCTTGTCTGCCTCAGCCAGTGCATCTAATCAGG
CGGGATCTTCTCAGGATGAAGAAGATGATGATGATATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205733 protein sequence
Red=Cloning site Green=Tags(s)

MASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNKSEKKTISPEH
VIQALESLGFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLRQQQLFAKARQQQAELAQQE
WLQMQAAQQAQLAAASASASNQAGSSQDEEDDDDI

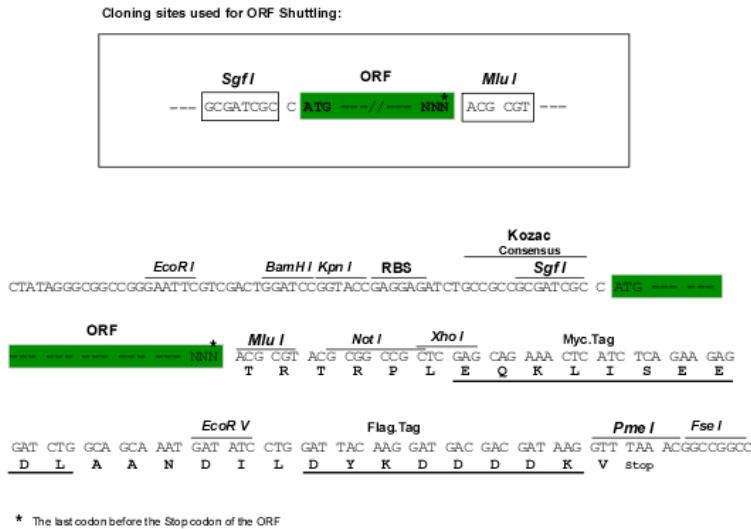
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6557_e02.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001938

ORF Size: 528 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_001938.3](#)

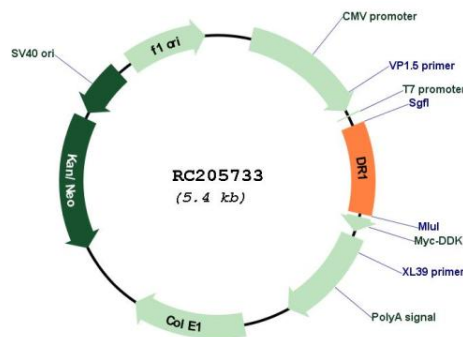
RefSeq Size: 3222 bp

RefSeq ORF: 531 bp

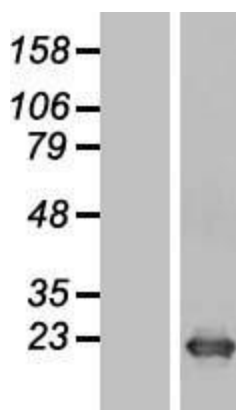
Locus ID: 1810
UniProt ID: [Q01658](#)
Cytogenetics: 1p22.1
Domains: Cbfd_nfyb_hmf
Protein Families: Transcription Factors
MW: 19.4 kDa

Gene Summary: This gene encodes a TBP- (TATA box-binding protein) associated phosphoprotein that represses both basal and activated levels of transcription. The encoded 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. The binding of DR1 repressor complexes to TBP-promoter complexes may establish a mechanism in which an altered DNA conformation, together with the formation of higher order complexes, inhibits the assembly of the preinitiation complex and controls the rate of RNA polymerase II transcription. [provided by RefSeq, Jul 2008]

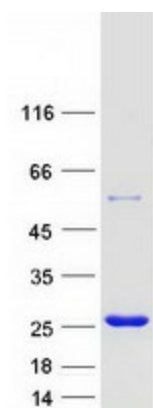
Product images:



Circular map for RC205733



Western blot validation of overexpression lysate (Cat# [LY419640]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205733 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DR1 protein (Cat# [TP305733]). The protein was produced from HEK293T cells transfected with DR1 cDNA clone (Cat# RC205733) using MegaTran 2.0 (Cat# [TT210002]).