

Product datasheet for **RC205856**

DBPA (YBX3) (NM_003651) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBPA (YBX3) (NM_003651) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DBPA
Synonyms:	CSDA; CSDA1; DBPA; ZONAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205856 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGGGCGGGCAGGCCACCACCACCACCACCACCACCCTCCCGCAGGCTCCGACGGAGGGCGCCG
CCGCGGCTCCCCAGGACCCCGCGCCAAGAGCCCGGTGGGACGCGGCCCCCGCAGCCACGGGCACCGGGCCG
GCCCGCCGCCACGTCGAGGAAACCCCGGTGGGACGCGGCCCCCGCAGCCACGGGCACCGGGCCGCGCC
GCCTCTTAGCCCGCCCGCCGCGCAGCGAAGACGCGGAGAAAAAGTTCTCGCCACCAAAGTCCTTGGA
CTGTCAAATGGTTCAACGTCAGAAATGGATATGGATTTATAAATCGAAATGACACCAAAGAAGATGTATT
TGTACATCAGACTGCCATCAAGAAGAATAACCCACGGAATATCTGCGCAGTGTAGGAGATGGAGAACT
GTAGAGTTTGATGTGGTTGAAGGAGAGAAGGTTGCAAGCTGCCAATGTGACTGGCCCGGATGGAGTTC
CTGTGGAAGGGAGTCGTTACGCTGCAGATCGGCGCCGTTACAGACGTGGCTACTATGGAAGGCGCCGTGG
CCCTCCCCGGAATTACGCTGGGAGGAGGAGGAGGAAGGGAGCGGCAGCAGTGAAGGATTTGACCCCTT
GCCACTGATAGGCAGTTCTTGGGGCCCGAATCAGCTGCGCCGCCCCAGTATCGCCCTCAGTACCGGC
AGCGGCGGTTCCCGCCTTACCACGTGGGACAGACCTTTGACCGTCGCTCACGGGCTTACCCCATCCAA
CAGAATACAGGCTGGTGAGATTGGAGAGATGAAGGATGGAGTCCAGAGGGAGCACAACCTCAGGGACCG
GTTTCATCGAAATCCAACCTTACCGCCAAGGTACCGTAGCAGGGACCTCCTCGCCACGACCTGCCCGC
CAGTTGGAGAGGCTGAAGATAAAGAAAATCAGCAAGCCACAGTGGTCCAACCAGCCGTCTGTTGCGCCG
TGGATATCGGCGTCCCTACAATTACCGCGTCGCCCGCTCCTCCTAACGCTCCTTCACAAGATGGCAAA
GAGGCCAAGGCAGGTGAAGCACCAACTGAGAACCCTGCTCCACCCACCCAGCAGAGCAGTGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC205856 protein sequence
Red=Cloning site Green=Tags(s)

MSEAGEATTTTTTLQPAPTEAAAAAPQDPAPKSPVGSQAPQAAAPAPAAHVAGNPGGDAAPATGTAAA
 ASLAAAAGSEDAEKKVLATKVLGTVKWFNVRNGYGF INRNDTKEDVFVHQTAIKKNPRKYLRSVGDGET
 VEFDVVEGEKGAEANVTGPDGVPVEGSRYAADRRRYRRGYRRRRGPPRNYAGEEEEEEGSGSEGFDDP
 ATDRQFSGARNQLRRPQYRQYRQRRFPYHVQTFDRRSRVLPHPNRIQAGEIGEMKDGVPGEAQLQGP
 VHRNPTYRPRYRSRGP RPAPAVGEAEDKENQQATSGPNQPSVRRGYRRPYNYRRRPPRPNAPSQDGK
 EAKAGEAPTENPAPPTQSSAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6176_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003651

ORF Size: 1116 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_003651.3](#), [NP_003642.2](#)

RefSeq Size: 1976 bp

RefSeq ORF: 1119 bp

Locus ID: 8531

UniProt ID: [P16989](#)

Cytogenetics: 12p13.2

Domains: CSD

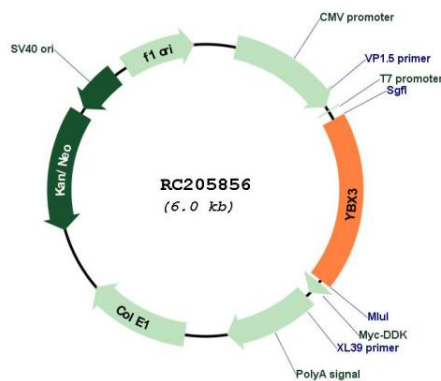
Protein Families: Transcription Factors

Protein Pathways: Tight junction

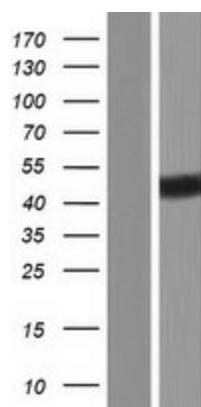
MW: 40.1 kDa

Gene Summary: Binds to the GM-CSF promoter. Seems to act as a repressor. Binds also to full-length mRNA and to short RNA sequences containing the consensus site 5'-UCCAUCA-3'. May have a role in translation repression (By similarity).[UniProtKB/Swiss-Prot Function]

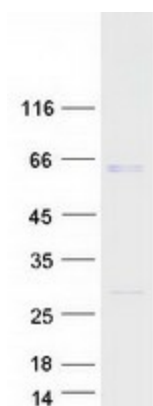
Product images:



Circular map for RC205856



Western blot validation of overexpression lysate (Cat# [LY401208]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205856 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified YBX3 protein (Cat# [TP305856]). The protein was produced from HEK293T cells transfected with YBX3 cDNA clone (Cat# RC205856) using MegaTran 2.0 (Cat# [TT210002]).