

Product datasheet for **RC218002**

CDX4 (NM_005193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDX4 (NM_005193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDX4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218002 representing NM_005193 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACGGAAGCTGTCTTTGGAGAAAGAAGCAGGCATGTACCCGGGCACTCTCATGAGCCCTGGGGCG
ACGGCACAGCTGGGACAGGCGGCACAGGGGGCGGTGGGAGTCCGATGCCAGCCTCCAATTCGCTGCGGC
ACCGGCTTTCTCGCACTATATGGGGTATCCTCATATGCCAGCATGGATCCTCACTGGCCGTCTCTGGGA
GTCTGGGGCTCACCTACAGTCCCCCGGAGAAGACTGGAGCGTATCCTGGGCCGTCTAGTACAATGG
GCACAGTGCCGGTGAACGACGTGACCTTAGCCCCGCGCTTTCTGCTCGACCGACTACAGCAACTTGGG
CCCTGTGGGCGGTGGAAGTACGCGCAGCAGCCTACCAGGCCAGGCTGGCGGGTTCGCTTGTCCCAGCGGAC
GCAGGCGCCGCCAAGGCCAGTTCCCCCAGCAGGAGCCGCCACAGCCCTATGCATGGATGCGCAAGACGG
TGCAGGTGACGGGAAAACCAGGACAAAAGAAAGTATCGTGTAGTTTACTGATCATCAAAGATTGGA
GCTGAAAAGGAGTTCCATTGCAATAGATATATCACCATCCAGAGAAAATCAGAGCTGGCAGTTAACCTG
GGCCTTTCCGAGAGACAGGTGAAAATCTGGTTTCAGAATCGCAGAGCCAAGGAGAGAAAAGATGATCAAAA
AGAAAATCTCCAGTTTGAAGTGTGGAGGCTCGGTGCAAAGTGACTCTGACTCCATCAGCCCTGGGGA
ACTACCTAACACTTTTTTACCACACCATCTGCTGTTTCGTTGATTCAACCTATTGAGATACAGCAGGTT
ATAGTCTCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218002 representing NM_005193
Red=Cloning site Green=Tags(s)

MYGSCLEKEAGMYPGTLMSPPGGDTAGTGGTGGGGSPMPASNFAAAPAFSHYMGYPHMPSMDPHWPSLG
 VWGSPYSPPREDWSVYPGPSSTMGTVPVNDVTSSPA AFCSTDYSNLGPVGGTSGSSLPGQAGGSLVPTD
 AGAAKASSPSRSRHSPIAWMRKTVQVTGKTRTKEKYRVVYTDHQRLLELEKEFHCRNYITIQRKSELAVNL
 GLSERQVKIWFQNRRAKERKMIKKKISQFENSGGVSQSDSDSISPGE L PNTFFFTPSAVRGFQPIEIQQV
 IVSE

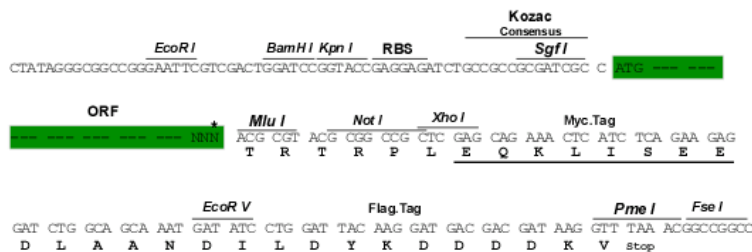
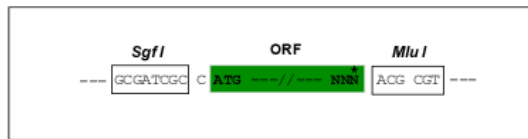
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6114_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005193

ORF Size: 852 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_005193.1](#), [NP_005184.1](#)

RefSeq Size: 855 bp

RefSeq ORF: 855 bp

Locus ID: 1046

UniProt ID: [O14627](#)

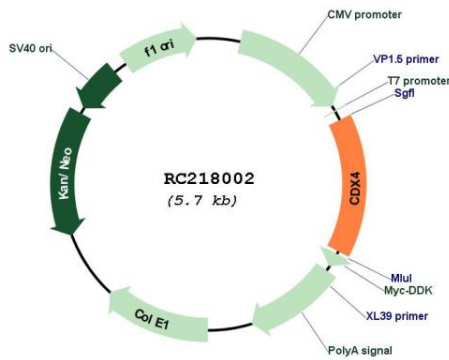
Cytogenetics: Xq13.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

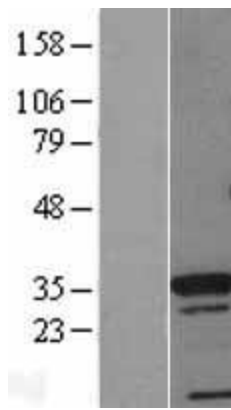
MW: 30.3 kDa

Gene Summary: This gene encodes a member of a small subfamily of homeobox containing transcription factors. The encoded protein may regulate homeobox gene expression during anteroposterior patterning and hematopoiesis. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RC218002



Western blot validation of overexpression lysate (Cat# [LY401589]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218002 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).