

## Product datasheet for **RC204883**

### CDX2 (NM\_001265) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDX2 (NM_001265) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDX2
Synonyms:	CDX-3; CDX2/AS; CDX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204883 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACGTGAGCTACCTCCTGGACAAGGACGTGAGCATGTACCCTAGCTCCGTGCGCCACTCTGGCGGCC  
TCAACCTGGCGCCGAGAACTTCGTGAGCCCCCGCAGTACCCGGACTACGGCGGTTACCACGTGGCGGC  
CGCAGCTGCAGCGGCAGCGAACTTGGACAGCGCGCAGTCCCCGGGGCCATCCTGGCCGGCAGCGTATGGC  
GCCCCACTCCGGGAGGACTGGAATGGCTACGCGCCCGGAGGCGCCGCGGCCGCCCAACGCCGTGGCTC  
ACGGCCTCAACGGTGGCTCCCCGGCCGAGCCATGGGCTACAGCAGCCCCGAGACTACCATCCGCACCA  
CCACCCGATCACCACCCGACCAACCCGGCCGCCGCGCCTTCTGCGCTTCTGGGCTGCTGCAAACGCTC  
AACCCCGGCCCTCCTGGGCCCGCCGACCCGCTGCCGCCGAGCAGCTGTCTCCCGCGGCCAGCGCGCGGA  
ACCTGTGCGAGTGGATGCGGAAGCCGGCGCAGCAGTCCCTCGGCAGCCAAGTAAAAACAGGACGAAAGA  
CAAATATCGAGTGGTGTACACGGACCACAGCGGCTGGAGCTGGAGAAGGAGTTTCACTACAGTCGCTAC  
ATCACCATCCGGAGGAAAGCCGAGCTAGCCGCCACGCTGGGGCTCTGTGAGAGGCAGGTTAAATCTGGT  
TTCAGAACCGCAGAGCAAAGGAGAGGAAAATCAACAAGAAGAAGTGCAGCAGCAACAGCAGCAGCAGCC  
ACCACAGCCGCTCCGCCGCCACCACAGCCTCCCAGCCTCAGCCAGGTCCTCTGAGAAGTGTCCAGAG  
CCCTTGAGTCCGGTGTCTCCCTGCAAGCCTCAGTGTCTGGCTCTGTCCCTGGGTTCTGGGGCCAACTG  
GGGGGTGCTAAACCCACCGTCACCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC204883 protein sequence  
Red=Cloning site Green=Tags(s)

MYVSYLLDKDVSMPSSVRHSGGLNLPQNFVSPQYDPDYGGYHVAAAAAAAAANLDSAQSPGPSWPAAYG  
 APLREDWNGYAPGGAAAAANAVAHGLNNGGSPAAAMGYSSPADYHPHHHPHHHPAAAPSCASGLLQTL  
 NPGPPGPAATAAAEQLSPGGQRRNLCEWMRKPAQQSLGSQVKTRTKDKYRVVYTDHQRLLEKEFHYSRY  
 ITIRRAELAATLGLSERQVKIWFQNRRAKERKINKKKLQQQQQQPPPPPPPPPPQPPQPGPLRSVPE  
 PLSPVSSLQASVSGSVPGVLGPTGGVLNPTVTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6063\\_d01.zip](https://cdn.origene.com/chromatograms/mk6063_d01.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\_001265

**ORF Size:** 939 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\\_001265.5](#)

**RefSeq Size:** 2370 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 1045

**UniProt ID:** [Q99626](#)

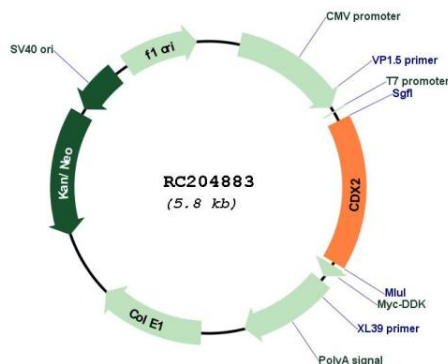
**Cytogenetics:** 13q12.2

**Protein Families:** Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

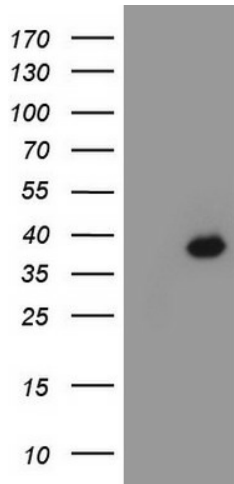
**MW:** 33.5 kDa

**Gene Summary:** This gene is a member of the caudal-related homeobox transcription factor gene family. The encoded protein is a major regulator of intestine-specific genes involved in cell growth and differentiation. This protein also plays a role in early embryonic development of the intestinal tract. Aberrant expression of this gene is associated with intestinal inflammation and tumorigenesis. [provided by RefSeq, Jan 2012]

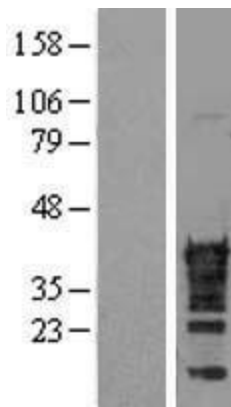
## Product images:



Circular map for RC204883



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CDX2 (Cat# RC204883, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDX2 (Cat# [TA802666]). Positive lysates [LY420044] (100ug) and [LC420044] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420044]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204883 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).