

Product datasheet for **RC216313**

CBX2 (NM_032647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBX2 (NM_032647) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CBX2
Synonyms:	CDCA6; M33; SRXY5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216313 representing NM_032647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCTGAGCAGCGTGGGCGAGCAGGTCTTCGCCCGGAGTGCATCCTGAGCAAGCGGCTCCGCA
AGGGCAAGCTGGAGTACCTGGTCAAGTGGCGGGCTGGTCTCCAACATAACAGCTGGGAGCCGGAGGA
GAACATCCTGGACCCGAGGCTGCTCCTGGCCTCCAGAAGAAGGAACATGAGAAGGAGGTGCAGAACCGG
AAGAGAGGCAAGAGGCCGAGAGGCCGCAAGGAAGCTCACTGCCATGTCCTCCTGCAGCCGGCGCTCCA
AGCTCAAGGTGGGTGGCTGCGCTGGGTATGCTGACCCACCTCCAGCACCCCTTGGCGTAGGGGGCAG
GCAGAGGGAGGGTTTGGGGCCCTCAGGAAGGGGTGGCACTTCTGCCAACAGTCTGTCCCTACTCGGA
AAACAGGAGCCCCCTTCTCCTGTCTCTCAGCTTCTGCTGCCAGGGGCCCCAGCCGGCTGAGAGTTCCT
CCCCGCCCTCCAGGGCTTCTGCTTCAAGCTGCTGCTGACGCCTCTCTGCTGGGTGGCAGGGTCAAA
CTGCTGCAGACAAGCACTTCCCTCCAGGGGTCTTGGGGGACGAAAGGAACAGGAAGCATGCGTA
CAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC216313 representing NM_032647
Red=Cloning site Green=Tags(s)

MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLAFQKKEHEKEVQNR
 KRGRPRGRPRKLTAMSSCSRSLKLVGGCAGYADPTSQHPLGVGGRQREGLGPSGRGWHFQQSVPLLG
 KQEPFFLSLFFCCQGPQPAESSPPPLPGASCFSLSCTPLCWVAGSNCCRQALFPPRGS�GDGKEQEACV
 Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6122_b12.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_032647

ORF Size: 633 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_032647.3](#)

RefSeq Size: 1061 bp

RefSeq ORF: 636 bp

Locus ID: 84733

UniProt ID: [Q14781](#)

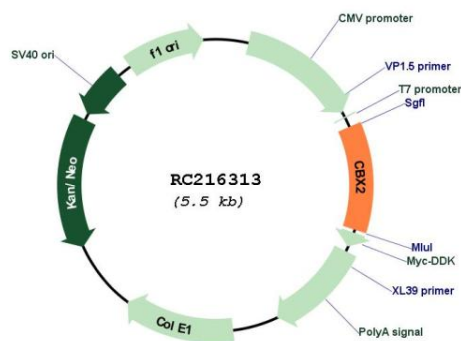
Cytogenetics: 17q25.3

Protein Families: Transcription Factors

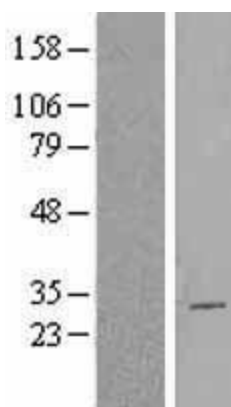
MW: 23.1 kDa

Gene Summary: This gene encodes a component of the polycomb multiprotein complex, which is required to maintain the transcriptionally repressive state of many genes throughout development via chromatin remodeling and modification of histones. Disruption of this gene in mice results in male-to-female gonadal sex reversal. Mutations in this gene are also associated with gonadal dysgenesis in humans. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2010]

Product images:



Circular map for RC216313



Western blot validation of overexpression lysate (Cat# [LY403188]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216313 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).