

Product datasheet for **RG216313**

CBX2 (NM_032647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBX2 (NM_032647) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CBX2
Synonyms:	CDCA6; M33; SRXY5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216313 representing NM_032647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCTGAGCAGCGTGGGCGAGCAGGTCTCGCCCGGAGTGCATCCTGAGCAAGCGGCTCCGCA
AGGGCAAGCTGGAGTACCTGGTCAAGTGGCGGGCTGGTCTCCAACATAACAGCTGGGAGCCGGAGGA
GAACATCCTGGACCCGAGGCTGCTCCTGGCCTCCAGAAGAAGGAACATGAGAAGGAGGTGCAGAACCGG
AAGAGAGGCAAGAGGCCGAGAGGCCGCAAGGAAGCTCACTGCCATGTCCTCCTGCAGCCGGCGCTCCA
AGCTCAAGGTGGGTGGCTGCGCTGGGTATGCTGACCCACCTCCAGCACCCCTTGCGTGGGGGCGAG
GCAGAGGGAGGGTTTGGGGCCCTCAGGAAGGGGTGGCACTTCTGCCAACAGTCTGTCCCTACTCGGA
AAACAGGAGCCCCCTTCTCCTGTCTCTCAGCTTCTGCTGCCAGGGGCCCCAGCCGGCTGAGAGTTCCT
CCCCGCCCTCCAGGGGCTTCTGCTTCAAGCTGCTGCTGACGCCTCTCTGCTGGGTGGCAGGGTCAAA
CTGCTGCAGACAAGCACTTCCCTCCAGGGGTCTTGGGGGACGAAAGGAACAGGAAGCATGCGTA
CAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216313 representing NM_032647
Red=Cloning site Green=Tags(s)

MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLAFQKKEHEKEVQNR
 KRGRPRGRPRKLTAMSSCSRSLKLVGGCAGYADPTSQHPPLGVGGRQREGLGPSGRGWHFQQSVPLLG
 KQEPFFLSLSFCCQGPQPAESSPPLPGASCFLSCTPLCWVAGSNCCRQALFPPRGS LGDGKEQEACV
 Q

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_032647.3](#)

RefSeq Size: 1061 bp

RefSeq ORF: 636 bp

Locus ID: 84733

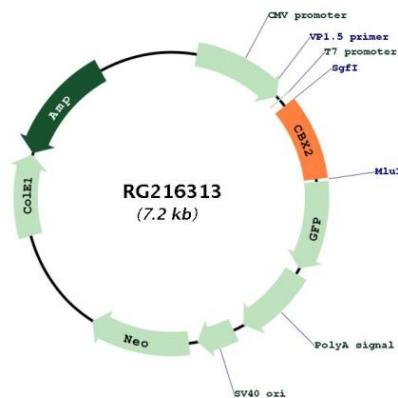
UniProt ID: [Q14781](#)

Cytogenetics: 17q25.3

Protein Families: Transcription Factors

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 RG216313