

Product datasheet for **RC204166**

CBX6 (NM_014292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	CBX6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204166 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGCTGTCTGCAGTGGGCGAGCGGGTCTTCGCGGCCGAATCCATCATCAAACGGCGGATCCGAAAGG
GACGCATCGAGTACCTGGTGAATGGAAGGGTGGGCGATCAAGTACAGCACTTGGGAGCCCGAGGAGAA
CATCCTGGACTCGCGGCTCATTGCAGCCTTCGAACAAAAGGAGAGGGAGCGTGAGCTGTATGGGCCCAAG
AAGAGGGGACCCAAACCAAACTTTCTCCTGAAGGCGCGGGCCAGGCCGAGGCCCTCCGCATCAGTG
ATGTGCATTTCTGTCAAGCCGAGCGCCAGTGCCTCCTCGCCAAGCTGCACTCCAGCGCAGCCGTGCA
CCGGCTCAAGAAGGACATCCGCCGCTGCCACCGTATGTCCCGCCGTCCCTGCCCGCCCGACCCGACG
GGGGGCGAGCCCGGACTGCGCCCGCCCATTTCCGCCCTTCTCGGAGACGGTGCGCATCATCAACCGCAAGG
TGAAGCCGCGGGAGCCCAAGCGGAACCGCATCATCCTGAACCTGAAGGTGATCGACAAGGGCGCTGGCGG
CGGGGGCGCCGGGAGGGGGCGGGGCGCTGGCCCGCCCAAGTCCCTCGCGGAACCGCGTTATAGGC
AAGAGCAAGAAGTTCAGCGAGAGCGTCTGCGTACACAGATCCGCCACATGAAGTTCGGCGCCTTTGCGC
TGTACAAGCCTCCGCCCGCCCCCTGGTAGCCCGTCCCGGCAAGGCTGAGGCCTCAGCCCGGGGCC
TGGGCTACTTCTGGCCGCCCCCGCCGCCCTACGACGCCCGCAGCTCTGGCTCCTCCGGCTGCCCTCG
CCTACACCACAGTCTCTGACCCGACGACAGCTCCCAAGTCTCTCCCGAGACCGTGAGCCCATCCG
CCCCAGCTGGCGCGAGCCGAGGTGCTCGACCTGTCCCTCCCTCCCGAGTGGCAGCCACCAAGCG
GGCACCCTGAGGTACAGCTGCTGCCGGCCCGCACCTCCACGGCCCTGAGCCCGCGGTGCTCC
TCCGAGCCCGAGGCTGGGACTGGCGCCCGAGATGTACCCTGTCCAATGTGGTGTGTCACCGATGTCA
CCAGCAACCTCTGACGGTCAATCAAGGAATTCTGCAACCCTGAGGATTTGAGAAGGTGGTGTGCTGG
GGTAGCAGGCGCCGCTGGGGGCGGTGGCAGCATTGGGGCGAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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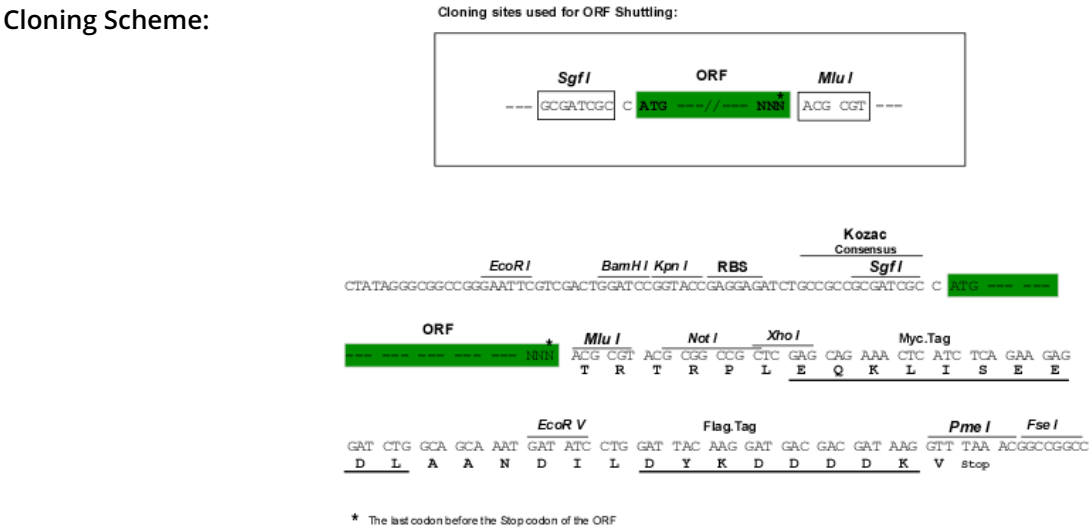
Protein Sequence: >RC204166 protein sequence
 Red=Cloning site Green=Tags(s)

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPK
 KRGPKPKTFLKKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLKKDIRRCHMSRRPLPRDPQ
 GGSPGLRPPISPFSETVRIINRKVKPREPKRNRIILNLKVIDKGAGGGGAGQGAGALARPKVPSRNRVIG
 KSKKFSSEVLRTQIRHMKFGAFALYKPPAPLVAPSPGKAEASAPGGLLLAAPAAPYDARSSGSGCPS
 PTPQSSDPDDTLPKLLPETVSPSPSWREPEVLDLSLPESAATSKRAPPEVTAAGPAPPTAPEPAGAS
 SEPEAGDWRPEMSPCSNVVVDVTSNLLTVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6729_h09.zip

Restriction Sites: SgfI-MluI



ACCN: NM_014292

ORF Size: 1236 bp

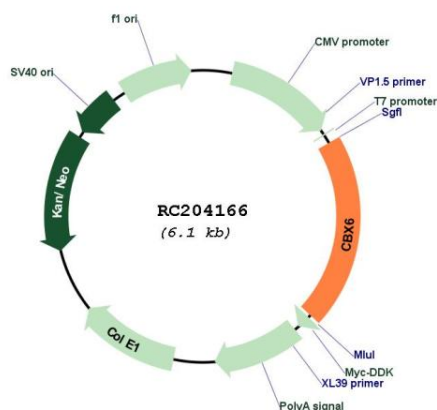
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

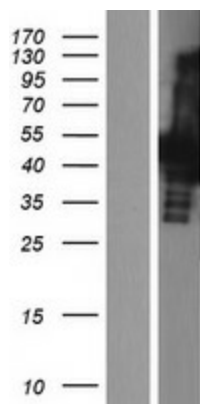
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_014292.2</u>
RefSeq Size:	3284 bp
RefSeq ORF:	1239 bp
Locus ID:	23466
UniProt ID:	<u>O95503</u>
Cytogenetics:	22q13.1
Protein Families:	Transcription Factors
MW:	43.9 kDa
Gene Summary:	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development (PubMed:21282530). PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. Possibly contributes to the target selectivity of the PRC1 complex by binding specific regions of chromatin (PubMed:18927235). Recruitment to chromatin might occur in an H3K27me3-independent fashion (By similarity). May have a PRC1-independent function in embryonic stem cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204166



Western blot validation of overexpression lysate (Cat# [LY415379]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204166 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).