

Product datasheet for **RC216414**

CBX4 (NM_003655) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBX4 (NM_003655) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CBX4
Synonyms:	NBP16; PC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216414 representing NM_003655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTGCCAGCTGTTGGCGAGCACGTCTTCGCGGTGGAGAGCATCGAGAAGAAGCGGATCCGCAAGG
 GCAGAGTGGAGTATCTGGTGAATGGAGAGGCTGGTCGCCAAATATAACACGTGGGAACCGGAGGAGAA
 CATCTGGACCCAGGCTGCTGATCGCCTTCCAGAACAGGGAACGGCAGGAGCAGCTGATGGGATATCGG
 AAGAGAGGGCCGAAGCCCAAACCGCTAGTGGTGCAGGTGCCTACCTTTGCCCGTCGTTCCAATGTCTGA
 CCGGCCTCCAGGACTCTCCACTGACAACCGTGCCAAGCTGGATTTGGCGCGCAGGGGAAGGGCCAGGG
 GCATCAGTACGAGCTCAACAGCAAGAAGCACCACCAGTACCAGCCGCACAGCAAGGAGCGGGCGGGCAAG
 CCCCCCGCCGGCAAGAGCGGCAAGTACTACTACCAGCTCAACAGCAAGAAGCACCACCCTACCAGC
 CCGACCCAAAAATGTACGACTGCAGTACCAGGGCGGCCACAAGGAGGCGCCAGCCCCACCTGCCCGGA
 CCTGGGGGCCAAGAGCCACCCGCCGACAAGTGGGCGCAAGGTGCGGGGGCCAAAGGCTACTGGGGGCG
 GTGAAGCCCTTGCCCGGTGCGGCGGGTGCCTCAGGCAAAGGCTCCGAGAAGGGCCCCCAACGGAATGA
 TGCCGGCCCCCAAGAGGCTGTGACGGGCAACGGGATTGGGGCAAGATGAAGATAGTCAAGAACAAGAA
 CAAGAACGGACGCATCGTGATCGTGATGAGCAAATACATGGAGAACGGCATGCAGGCGGTGAAGTCAAG
 TCCGGCGAGGTGGCAGAGGGGGAGGCTCGCTCCCCAGCCACAAGAAGCGGGCAGCCGACGAGCGCCACC
 CTCCTGCCGACAGGACTTTTAAAAAGGCGGGCGGCGCAGAGGAGAAGAAGGTGGAGGCGCCGCCAAAGAG
 GAGGGAGGAGGAGGTGTCGGGGTTAGCGATCCGACGCCCCAGGATGCCGGCTCCCGAAGCTGTCCCCG
 ACCAAGGAGGCCTTTGGAGAGCAGCCCCGTCAGCTCACCACCAAGCCCGACCTGCTTGCCTGGGACCCGG
 CCGGGAACAGCACCCGCCCTCACACCACCCGACCCCGCACCCCATCACCACCACCACCACCACCACCA
 CCACCACCGCCGTCGGCTGAATCTCTCCAGGTGCGCAAGCGCTGCCTCTCCGAGACCCACGGCGAG
 CGCGAGCCCTGCAAGAAGCGGCTGACTGCGCGCAGCATCAGCACCCCCACCTGCCTGGGGGGCAGCCAG
 CCGCTGAGCGCCCGCCGACCTGCCACCAGCCGCGCCCTCCCGCAGCCGAGGTCATCCTGCTAGACTC
 AGACCTGGATGAACCCATAGACTTGCCTGCGTCAAGACGCGCAGCGAGGCGGGGAGCCGCCAGCTCC
 CTCCAGGTGAAGCCGAGACACCGCGTCCGGCGGCGTGGCGGTGGCGGCGCAGCGGCACCCACCACGA
 CGGCGGAGAAGCCTCCAGCCGAGGCCAGGACGAACCTGCAGAGTCGCTGAGCGAGTTCAAGCCCTTCTT
 TGGGAATATAATTATACCGACGTACCCGGAAGTGCCTACCGTACTTTCAAGGAGTACGTGACGGT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216414 representing NM_003655
 Red=Cloning site Green=Tags(s)

MELPAVGEHVFVAVESIEKKRIRKGRVEYLKWRGWSPKYNTWEPEENILDPRLLIAFQNRERQEQLMGYR
 KRGPKPKPLVVQVPTFARRSNVLTGLQDSSTDNRAKLDLGAQKGQGHQYELNSKKHHQYQPHSKERAGK
 PPPPGKSGKYYYQLNSKKHHPYQDPKMYDLQYQGGHKEAPSPTCPDLGAKSHPPDKWAQGAGAKGYLGA
 VKPLAGAAGAPGKSEKGPNGMMPAPKEAVTNGIGGKMKIVKNKNKNGRIVIVMSKYMENGMQAVKIK
 SGEVAEGEARSPSHKRAADERHPPADRTFKKAAGAEKKVEAPPKRREEEVSGVSDPQPQDAGSRKLS
 TKEAFGEQPLQLTTKPDLLAWDPARNTHPPSHHPHPHHHHHHHHHHHHAVGLNLSHVRKRCLSETHGE
 REPCKKRLTARISSTPTCLGGSPAERPADLPPAAALPQPEVILLDSLDLDEPIDLRCVKTRSEAGEPPSS
 LQVKPETPASA AVAAAAAPT TAEKPPAEAQDEPAESLSEFKPFFGNIIITDVTANCLTVTFKEYVTV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8120_e03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_003655

ORF Size: 1680 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

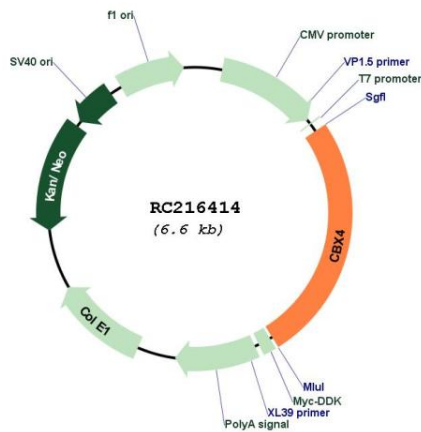
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_003655.3](#)

RefSeq Size:	2655 bp
RefSeq ORF:	1683 bp
Locus ID:	8535
UniProt ID:	<u>O00257</u>
Cytogenetics:	17q25.3
Domains:	CHROMO
Protein Families:	Druggable Genome, Transcription Factors
MW:	61.8 kDa
Gene Summary:	E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I (PubMed:12679040). Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. Monosumoylates ZNF131 (PubMed:22825850).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216414