

## Product datasheet for **SC115861**

### **CBX1 (NM\_006807) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CBX1 (NM_006807) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBX1
Synonyms:	CBX; HP1-BETA; HP1Hs-beta; HP1Hsbeta; M31; MOD1; p25beta
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115861 sequence for NM_006807 edited (data generated by NextGen Sequencing)

```
ATGGGGAAAAACAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAA
TATGTGGTGGAAAAAGTTCTCGACCGTCGAGTGGTAAAGGGCAAAGTGGAGTACCTCCTA
AAGTGGAAAGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGAGAACCTGGATTGC
CCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAATCA
GAGGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCA
AAGAAGAAGAAAGAGTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAG
CGGATTATTGGAGCTACAGACTCCAGTGGAGAGCTCATGTTCTGATGAAATGGAAAAAC
TCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTGCCACAGGTTGTC
ATATCCTTCTATGAGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAA
AAAGATGACAAGAACTAA
```

Clone variation with respect to NM\_006807.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006807 unedited  
 GTCAGCAATTGTATACGACTCATATAGGGCGGCCGCAATCGGCACGAGGCCTCGTGCCG  
 AATTCCGGCAGCAGGGCAGCGCAGACTGCGAGGCTCTTTTGTTCGGCTGAGGGGAGGGCCG  
 TTGTCCGGGGCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGCCACCCGGCTTG  
 CTGCCTTCTCGGGCCACTCCCCAGGGCAGCCGACGCGACGCGCCAGTAGCGCAGCAC  
 CGATTCCTCTCGGGCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCTTTACACCAGAAAGC  
 TGGCGGGCACTATGGGGAAAAACAACAAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGG  
 AGGAAGAGGAATATGTGGTGAAAAAGTTCTCGACCGTCGAGTGGTAAAGGGCAAAGTGG  
 AGTACCTCCTAAAGTGAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGAGA  
 ACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTACAGAAAACAGCACATGAGA  
 CAGATAAATCAGAGGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGG  
 AGAGCAAACAAAGAAGAAGAAAGAGTCAGAAAAGCCACGAGGCTTTGCTCGAGGTT  
 TGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGAGCTCATGTTCTGATGA  
 AATGGAANAACCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTGCC  
 CACAGTTGTATATCCTTCTATGAGGAAGGNTGACGTGGCATTCTACCCCTCGGAGA  
 TGATGACAANAAGATGACAGAACTACGCTCCTGAGTACCAGCCCTGTACATCTGAC  
 TGTGGGTTTCAAAGTGAAGGAAAGAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006807 unedited  
 GCTATGAACCGCGGGCCGCATNCTAATGTCGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTATAAATCTATAGTTTTATTAACAAAAAACTGACAATGGAGTATGAAGT  
 TTACATTTAAACAAGTTTACACAGAAATTTAACACATGCCTAAAAAAATTTTACAACGT  
 AGCTTTAGATGCAAGTTTAGACAATATCAAGAAGTGGGGTCTTATGACTCAAGACAGA  
 GCATTTTGGGTATGTTACTTATTAGGATTTCTTAAAAAATGTTTTGGGGGGTATGGGT  
 GGGTTTTAAAGGGAACCACTGCCAATATGAAAGTTAATCTTCTCCTGAGACCAAGGCT  
 TTTGAAATCACTAACTTTTGGATCAATTCAGGGAACCTGGGCTGTCAGTGAACCAAGC  
 CTGCCAACAAATGGTTTTCAGGGTTCAAAGCTCAAAGTAAACGGGTCCAAGAGTTTTCCCA  
 CTAAGCATGGGCCCTTGGCTTCCCTACTGGCTTACCTTCTCTACCACCCTTTTTTCGT  
 TTCCTAACACCTAAGCCAGTGGTTTGGATGAAAAAGCTGATTTTTATATACTTCGTTACT  
 GGAAAAAAGGGTCTTTAATTTCCGGAATTAGCCCTTTTTAAGCGGAATGACCTGGT  
 TGGACTGGAACCTTTCCAAAAAAGACCTTCCCTCCTCGTCAATTTCCATTTCCCAAGA  
 GGGCCCTTTTCGTAACCTTTGAATAGGGTTAGTCTTTTGGGGGAAACCCCTATATCTC  
 AGGCAGGGACACCTTGGGCTTTAAGGTTTAAAGCTTTCACAGCTTTTCAACAGGACCT  
 CCACGGCCCTATTTTGTGGGCCAAGGCTCTTTTTTATAAGGTAAATTTTTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006807

**Insert Size:**

2150 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_006807.3](#), [NP\\_006798.1](#)

**RefSeq Size:** 2233 bp

**RefSeq ORF:** 558 bp

**Locus ID:** 10951

**UniProt ID:** [P83916](#)

**Cytogenetics:** 17q21.32

**Domains:** CHROMO

**Gene Summary:** This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The protein may play an important role in the epigenetic control of chromatin structure and gene expression. Several related pseudogenes are located on chromosomes 1, 3, and X. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.