

## Product datasheet for **RG225198**

### **CBX1 (NM\_001127228) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CBX1 (NM\_001127228) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CBX1  
**Synonyms:** CBX; HP1-BETA; HP1Hs-beta; HP1Hsbeta; M31; MOD1; p25beta  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225198 representing NM\_001127228  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAAAAACAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGG  
AAAAAGTTCTCGACCGTCGAGTGGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGAAGGGATTCTCAGA  
TGAGGACAACACATGGGAGCCAGAAGAGAACCTGGATTGCCCGACCTCATTGCTGAGTTTCTGCAGTCA  
CAGAAAACAGCACATGAGACAGATAAATCAGAGGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATA  
AGGGAGAGGAGAGCAAACCAAGAAGAAGAAGAGAGTCAAAAAGCCACGAGGCTTTGCTCGAGGTTT  
GGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGAGCTCATGTTCTGATGAAATGGAAAAAC  
TCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGCAAGTGCCACAGGTTGTCATATCCTTCT  
ATGAGGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAAAAAGATGACAAGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG225198 representing NM\_001127228  
Red=Cloning site Green=Tags(s)

MGKKQNKKKVEEVLEEEEEYVVEKVLDRRVVKGKVEYLLKWKGFSDENTWEPEENLDCPDLIAEFLQS  
QKTAHETDKSEGGKRKADSDSEDKGEESKPKKKKEESEKPRGFARGLEPERIIGATDSSGELMFLMKWKN  
SDEADLVAKEANVKCPQVVISFYEERLTWHSYPSEDDDKDDKN

**TRTRPLE** - GFP Tag - V

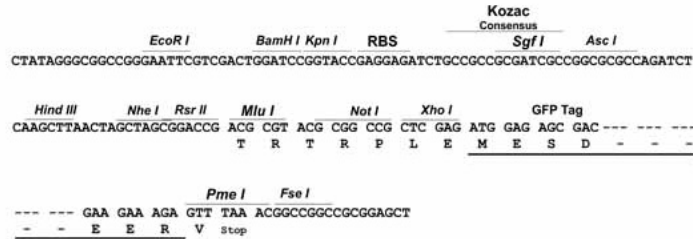
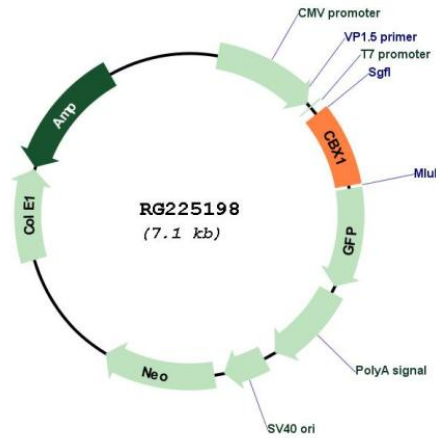
**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


**ACCN:** NM\_001127228

**ORF Size:** 555 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001127228.2</a></u>
<b>RefSeq Size:</b>	2253 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	10951
<b>UniProt ID:</b>	<u><a href="#">P83916</a></u>
<b>Cytogenetics:</b>	17q21.32
<b>Gene Summary:</b>	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]