

## Product datasheet for **MG206529**

### **Cbx6 (BC048240) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cbx6 (BC048240) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cbx6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206529 representing BC048240 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGTCTGCAGTAGGGGAGCGGGTCTTCGCGGCCGAATCCATCATTAAACGCCGGATCCGCAAGG  
GACGCATCGAGTACCTGGTGAATGAAAGGGTGGGCGATCAAGTACAGCACTTGGGAGCCAGAGGAGAA  
CATTCTGGATTCGAGGCTCATCGAGCCTTCGAGCAGAAGGAAAGGGAACGTGAGCTGTATGGGCCAAG  
AAGAGGGGACCTAAACCCAAAACCTTTCCTCCTAAAGCCCCGGGCCAGGGCGAGGCCCTCCGCATCAGTG  
ATGTGCATTTCTGTCAAGCCGAGCGCCAGCCTCTCGCCCAAGCTGCACTCCAGCGTGGGTGCA  
CCGGCTCAAGAAAAGACATCCGCCGCTGCCACCGTATGTCTCGCCGTCCTCCGACGACCCAGACCCACAA  
GGGGGTAGCCCTGGCCTACGCCACCCATCTCGCCCTTTTCTGAGACCGTGCGCATCATCAACCGTAAGG  
TGAAGCCCCGGGAGCCCAAGCGGAACCGCATCATCCTGAACCTGAAGGTGATTGACAAGGGTCCGGGAGG  
TGGCAGCACTGCGCAGGGCACCAGGGCACTGGCCCGCCGAAAGTCCCCTCGCGGAACCGGGTATTGGG  
AAGAGCAAGAAGTTCAGCGAGAGCATGCTCCGTACCCAGATCCGCCACATGAAGTTTGGCACATTTGCGC  
TCTACAAGCCCCCTCTGCCCTCTGGCGCCCTACTGCGGGCAAAGCCGATGTGGCTCTCGGGGCC  
TGGGCTGCTCTGGCCACCCAGCTGCTGCCCTTTGACGCACACAGCTCCAGCTCTTCGGCTGCCCC  
TACCCCACTGCAGTCTCTGACCCAGACGATGCACCACCAAGCTACTCCCGGAGACCCTGAGCCGAT  
CTGTGCCCAACTGGCGAGAGTCAGAGGTGCTCGATCTGTCCATCCCTCCTGAGGGGCTGCCACCGGCCA  
GCGGGTGCTCCTGATGTCACTGGTGTGCGGACCAGGCGCTACATACAGCTCTGGAGCCACAGGTGCT  
GGCTCCTCCGAGCCTGAGGCTGGGGACTGGCGCCCGAGATGTCGCCATGCTCCAATGTAGTTGTACAG  
ATGTCACCAGCAACCTCTGACCGTGACCATCAAGGAATCTGCAGCCCGGAGGATTTTGAGAAGGTGGC  
CGCTGGGTGGCAGGTGCTACAGGGGGCGGGGTGGCACTGGCCAAGTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206529 representing BC048240  
 Red=Cloning site Green=Tags(s)

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPK  
 KRGPKPKTFLLKARAQAEALRISDVHFSVKPSSASASSPKLHSSAAVHRLKKDIRRCHRMSRRPLRPDPQ  
 GGSPGLRPPISPFSETVRIINRKYKPREPKRNRRIILNLKVIDKPGGGSTAQGTGALARPKVPSRNRVIG  
 KSKKFSESMRLRTQIRHMKFGTFALYKPPAPLAPSTAGKADVASSGPGLLLLATPAAAPFDAHSSSSSGCP  
 SPTLQSSDPDDAPPKLLPETLSRSVFNWRESEVLDL.SIPPEAAATGQRVPPDVTGAADQALHTALEPTGA  
 GSSEPEAGDWRPEMSPCSNVVVTDVTSNLLTVTIKFCSPEDFEKVAAGVAGATGGGGGTGPSK

TRTRPLE - GFP Tag - V

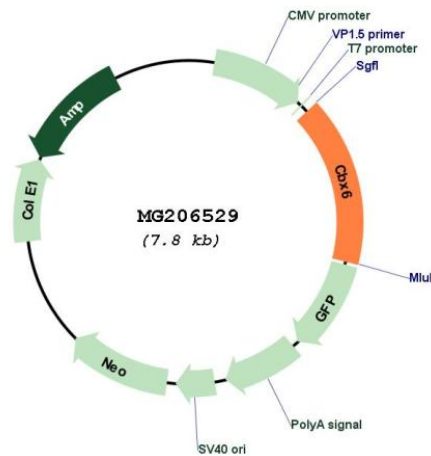
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC048240

<b>ORF Size:</b>	1244 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">BC048240</a> , <a href="#">AAH48240</a>
<b>RefSeq Size:</b>	3124 bp
<b>RefSeq ORF:</b>	1244 bp
<b>Locus ID:</b>	494448
<b>Cytogenetics:</b>	15 E1
<b>Gene Summary:</b>	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. 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 (By similarity). Recruitment to chromatin might occur in an H3K27me3-independent fashion (PubMed:22226355, PubMed:16537902). May have a PRC1-independent function in embryonic stem cells (PubMed:22226355).[UniProtKB/Swiss-Prot Function]