

## Product datasheet for **MG205544**

### **Cbx8 (NM\_013926) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cbx8 (NM\_013926) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cbx8  
**Synonyms:** Pc3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205544 representing NM\_013926  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTCTCGGCGGTGGGGGAGCGGGTGTTCGCGGCCGAAGCCCTCCTGAAGCGGCGCATTTCGAAAG  
GACGCATGGAATATCTCGTGAAATGGAAGGGCTGGTCGCAGAAGTACAGCACGTGGGAGCCCGAAGAAAA  
TATTCTGGATGCTCGCCTCCTTGCAGCCTTTGAGGAAAGGGAACGGGAGATGGAGCTCTATGGCCCCAAA  
AAGCGAGGACCCAAGCCTAAAACCTTCTTCTCAAGGCCAGGCCAAGGCAAAGGCCAAAACCTATGAAT  
TCAGAAGTGACTCTACCAGAGGCATCCGGATCCCTTACCAGGCCGCTCACCCAGGATTTGGCGTCTAC  
TTCCAGGGCCCGAGAGGGCTGCGGAACACGGGGCTACCCACCAGGGAGCAGCACCAAGTACCTGCAGG  
GCAGACCCACCTCGGACCGGGACCGAGAGAGGGACAGGGGTACCAGCCGTGTAGACGACAAGCCAGCT  
CACCGGGGACAGCTCCAAGAAACGAGGACCGAAACCCAGGAAGGAGCCCTGGACCCCTTACAGAGACC  
TTTGGGAGAGCCAGTGCAGGCTTGGAGAGTACCTGAAAGGCAGGAAGCTGGATGAGACCTCTTCTGGG  
ACAGGAAAGTTCCAGCTGGCCACAGTGTGATCCAGCTTGTCTGAAGGCAGGACTCAGACCTGGTGAAT  
ATGGTGTGACCAAGTCTAGCTCAGCAGAGGCCTCGAGCAAGTTGGCTGTGGACACCTTCCAGCCAGGGT  
AATAAAGCACAGGGCTGCTTCTGAGGCCAAAGGCCAAGGTGCCCTGGACCTGGTGGTGCCAGGGTT  
CGACATAGTTCAGGCACCCAGCCTCAGTGGGAAGCCTGTATCGGACATGGGGCGCAAGGGGGAAGGC  
CCTCCCTCATCGCCAGGATCCCAGTGGCCAGGATCCTGGGGACCCAGAGGAAGAGTCTGGAGCCCTC  
TCTGACTAACCTGGAGAAAGTGGTCTGTTACAGATGTGACCTCAAACCTTTTGGACGTCACCATTAAGGAG  
AGCAACACGGACCAAGGATTCTTTAAGGAAAAAAGA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205544 representing NM\_013926  
 Red=Cloning site Green=Tags(s)

MELSAVGERVFAAEALLKRRIRKGRMEYLVKWKGWSQKYSTWEPEENILDARLLAAFEEREREMELYGPK  
 KRGPKPKTFLLKAQAKAKAKTYEFRSDSTRGIRIPYGRSPQDLASTSRAREGLRNTGLPPPSTSTCR  
 ADPPRRDRERDRGT SRVDDKPPSPGSDSSKRRGPKRKEPLDPSQRPLGEP SAGLGEYLKGRKLDETSSG  
 TGKFPAGHSVIQLARRQSDLVQYGVTSPPSSAEASSKLAVDTFFPARVIKHRAAFLEAKGQGALDPGGARV  
 RHSSGTPASVGSLYRDMGAQGGRRPSLIARIPVARILGDPEEESWSPSLTNLEKVVVTDVTSNFLTVTIKE  
 SNTDQGFKEKR

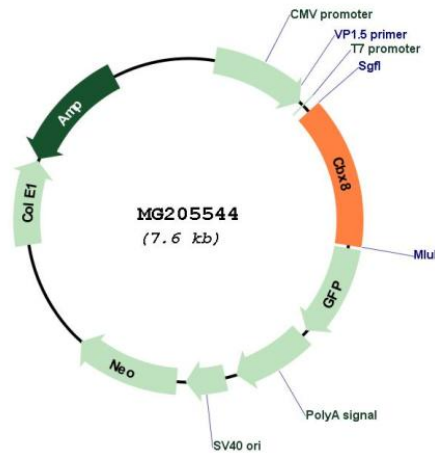
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_013926

<b>ORF Size:</b>	1086 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="#">NM_013926.1</a> , <a href="#">NP_038954.1</a>
<b>RefSeq Size:</b>	1413 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	30951
<b>UniProt ID:</b>	<a href="#">Q9QXV1</a>
<b>Cytogenetics:</b>	11 E2
<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 (By similarity).[UniProtKB/Swiss-Prot Function]