

Product datasheet for **MG208323**

Cbx2 (NM_007623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbx2 (NM_007623) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cbx2
Synonyms:	M33; MOD2; pc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208323 representing NM_007623
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGCTGAGCAGCGTGGGCGAGCAGGTCTTCGCCGCCGAGTGCATCCTGAGCAAGCGGCTCCGCA
 AGGGCAAGCTGGAGTACCTGGTCAAGTGGCGCGGCTGGTCTCCAACACAAACAGCTGGGAGCCAGAAGA
 GAACATTTTGGACCCGAGGCTGCTCCTAGCCTTCCAGAAGAAGGAACATGAGAAGGAGGTTCCAGAACCGG
 AAGAGAGGCAAGAGACCCAGGGGCGAGGCCAGGAAACACACAGTACATCCTCCTGCAGCCGGCGCTCCA
 AGCTCAAGGAACAGATGCGCCATCCAATCCAATCCAGCAGTTCGTCCTTCTCCTCCACATCTTCTCCT
 CTCTTCTCGGACGAAGAGGAAGACGACAGCGACCTAGACTCCAAGAGAGGCCCGGGGCGTGAACC
 CATCCAGTGCCTCAGAAAAAGCCAGATCCTGGTAGCCAAGCCAGAGCTGAAGGATCCCATTAGAAAGA
 AACGGGGACGCAAGCCTCTACCCCAAGACAGAAGGCAGCTCGGAGACCCGTGAGCTGGCCAAGGTGCT
 AAAGACCACAGGAAGGATCTGGGGACCTCAGCCGCAAGCTGCCCTCCACTCAGCGCTCCGGTGGCA
 GGCTGGCTGCCCTGAAGGCCACACCAAGAGGCCTGTGGTGGCCCCAGCACTATGGCGACCCAGAGA
 ACCTGGCCAGTCTGATGAAAGGCATGGCCGGGAGCCCCAGCAGAGGCGGCATCTGGCAGAGCTCCATCGT
 AACTACATGAACCGCATGAGCCAGAGTCAAGTTCAGGCTGCCAGCCGACTGGCACTCAAGGCCAGGCC
 ACCAACAAAGTGGGTCTCGGGCTAGACCTGAAAGTGAGGACGACAGAGGGGGGTGAGTAGGGGGAGCC
 CCGCAGGAGGCAAGGTCCCGAAGGCCCGGTGGCGGAGCTGCAGAGCAGCAGAGAGGGAACCATTCGGG
 GAGCCAGGTGCTCAGCTGGCACCCACTCAGGAGTTGAGCCTTCAGTCTTGACTTGCAAAGCGTCAAG
 AACGGTGTGCCTGGTGTGGCCTGCTTGCCTGCCATGCCAGCCAAGGCTATTCCTGCTACCAACCCAG
 CCACAGGAAAGTCTGGGAGCGGCCACAGGAGCAACATGACCAACGCTCCACAGCAACAAACA
 AGGGGAAAAGCTGACTTGCAAGGCAACGGCTCTGCCTGCCCTTCCGTCAAGCGGACACCGTTAAAAGC
 GTCGCTGCCTCCGGCGGCGAGGAGGCCACACAGCCCCGGGAGAAGGCCGAAAGCCACTGCGCTGTCTG
 AGCTGAGCACGGGAGAGGAGAATAGTAGCTCTGACTCGGACCCTGACTCGACCTCGCTTCCAGTGTGC
 GCAGAACCTATCTGTAGCTATCCAGACCAGCCAGGACTGGAAACCTACCCGACGTCTCATCGAACACGTC
 TTTGTCACGGATGTCACAGCCAACCTCATCTGTCCCGTGAAGGAGTCGCCACCAGCGTGGGCTTCT
 TCAACTTGAGGCATTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208323 representing NM_007623
 Red=Cloning site Green=Tags(s)

MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLLAFQKKEHEKEVQNR
 KRGRPRGRPRKHTVTSSCSRSLKKEPDAPSKSSSSSSSTSSSSSDEEEDSDLDKRGPRGRET
 HPVPQKKAQILVAKPELKDPIRKKRGRKPLPPEQKAARRPVSLAKVLKTRKDLGTSAAKLPPPLSAPVA
 GLAALKAHTKEACGGPSTMATPENLASLMKGMAGSPSRGGIWQSSIVHYMNRMSQSQVQAASRLALKAQA
 TNKCGGLDLKVRTQKGGELGGSPAGGKVPKAPGGGAAEQQRGNHSGSPGALAPTQELSLQVLDLQSVK
 NGVPGVLLARHAPAKAIPATNPATGKPGSGPTGANMTNAPTDNNKGEKLTCKATALPAPSVKRDVTKS
 VAASGGQEGHTAPGEGRPALSELSTGEENSSSDPDSTSLPSAAQNLVIAIQTSDWKPTRSLIEHV
 FVTDVTANLITVTKESPTSVGFFNLRHY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_007623
ORF Size:	1557 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.
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:	<ol style="list-style-type: none">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_007623.3
RefSeq Size:	3754 bp
RefSeq ORF:	1560 bp
Locus ID:	12416
UniProt ID:	P30658
Cytogenetics:	11 83.33 cM
Gene Summary:	This gene encodes a component of the polycomb multiprotein complex, which is required to maintain the transcriptionally repressive state of many genes throughout development via chromatin remodeling and modification of histones. Disruption of this gene in results in male-to-female gonadal sex reversal. [provided by RefSeq, Sep 2015]