

## Product datasheet for **RG222700**

### **CBX2 (NM\_005189) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CBX2 (NM_005189) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CBX2
Synonyms:	CDCA6; M33; SRXY5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222700 representing NM\_005189  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGCTGAGCAGCGTGGGCGAGCAGGTCTTCGCCGCCAGTGCATCCTGAGCAAGCGGCTCCGCA  
 AGGGCAAGCTGGAGTACCTGGTCAAGTGGCGCGGCTGGTCTCCAACATAACAGCTGGGAGCCGAGGA  
 GAACATCTGGACCCGAGGCTGCTCCTGGCCTCCAGAAGAAGGAACATGAGAAGGAGGTGACAGAACCGG  
 AAGAGAGGCAAGAGGCCGAGAGGCCGCAAGGAAGCTACTGCCATGTCTCCTGCAGCCGGCGTCCA  
 AGCTCAAGGAACCCGATGCTCCCTCCAATCCAAGTCCAGCAGTTCCTCCTTCTCCACGTATCCTC  
 CTCTTCTCAGATGAAGAGGATGACAGTGACTTAGATGCTAAGAGGGTCCCCGGGGCCGCGAGACCCAC  
 CCAGTGCCGCAGAAGAAGGCCAGATCCTGGTGGCCAAACCCGAGCTGAAGGATCCCATCCGGAAGAAGC  
 GGGGACGAAAGCCCTGCCCCAGAGCAAAGGCAACCCGAAGACCCGTGAGCCTGGCCAAGGTGCTGAA  
 GACCGCCCGAAGGATCTGGGGGCCCGCCAGCAAGCTGCCCTCCACTCAGCGCCCGTTGCAGGC  
 CTGGCAGCTCTGAAGGCCACGCCAAGGAGCCTGTGGCGGCCAGTGCATGGCCACCCAGAGAACC  
 TGGCCAGCCTAATGAAGGGCATGGCCAGTAGCCCCGGCCGGGTGGCATCAGCTGGCAGAGCTCCATCGT  
 GCACTACATGAACCGGATGACCCAGAGCCAGGCCAGGCTGCCAGCAGGTTGGCGCTGAAGGCCAGGCC  
 ACCAACAAAGTGGGCCTCGGGCTGGACCTGAAGGTGAGGACGCAGAAAGGGGAGCTGGGAATGAGCCCTC  
 CAGGAAGCAAATCCCGAAGGCCCCAGCGGTGGGGCTGTGGAGCAGAAAGTGGGGAACACAGGGGGCCC  
 CCCGCACACCCATGGTGCCAGCAGGGTGCCTGCTGGGTGCCAGGCCCCAGCCAGCACCCACCCAGGAG  
 CTGAGCCTCCAGGTCTTGACTTGACAGTGTCAAGAATGGCATGCCCGGGTGGGTCTCCTTGCCCGCC  
 ACGCCACCGCCACCAAGGTGTCCCGGCCACCAACCCAGCCCTGGGAAGGGCACTGGGAGTGGCCTCAT  
 TGGGGCCAGCGGGGCCACCATGCCACCCAGCACAAAGCAAAGTGAAGAAGCTGGCTTCCAGAGCAGTGGCG  
 CCACCCACCCCTGCCAGCAAGAGGGACTGTGTCAGGGCAGTGTACCCCAAGTGGGCAGGAGAGCCGCA  
 CAGCCCCCGAGAAGCCCGCAAGGCGGCCACACTGCCAGAGATGAGCGCAGGTGAGGAGAGTAGCAGCTC  
 GGACTCCGACCCCGACTCCGCTCGCCGCCAGCACTGGACAGAACCCGTGAGTGTCCGTTCCAGACCAGC  
 CAGGACTGGAAGCCACCCGACGCTCATCGAGCAGTATTTGTCACCGACGTCAGTGCACCACTCATCA  
 CCGTCACAGTGAAGGAGTCTCCACCCAGCGTGGGCTTCTCAACCTGAGGCATTAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222700 representing NM\_005189  
 Red=Cloning site Green=Tags(s)

MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLLAFQKKEHEKEVQNR  
 KRGRPRGRPRKLTAMSSCSRSLKKEPDAPSKSSSSSSSTSSSSSDEEDSDLDKRGPRGRETH  
 PVPQKKAQILVAKPELKDPIRKKRGRKPLPPEQKATRRPVSLAKVLKTARKDLGAPASKLPPPLSAPVAG  
 LAALKAHAKEACGGPSAMATPENLASLMKGMASPPGRGGISWQSSIVHYMNRMTQSQQAASRLALKAQA  
 TNKCGLGLDLKVRTQKGEELGMSPPGSKIPKAPSGGAVEQKVGNTGGPPHGHASRVAPAGCPQPAPTQE  
 LSLQVLDLQSVKNGMPGVLLARHATATKGVNPNPAPGKGTGSLIGASGATMPTDTSKELASRAVA  
 PPTPASKRDCVKGSATPSGQESRTAPGEARKAATLPEMSAGESSSSSDPDSASPPSTGQNPVSVQTS  
 QDWKPTRSLIEHVFVTDVTANLITVTVKESPTVSGFFNLRHY

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

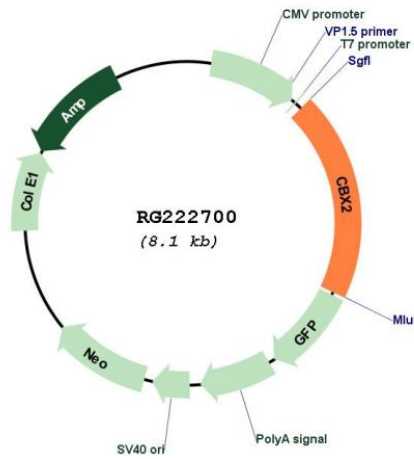
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_005189
<b>ORF Size:</b>	1596 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_005189.3</a>
<b>RefSeq Size:</b>	4192 bp
<b>RefSeq ORF:</b>	1599 bp
<b>Locus ID:</b>	84733
<b>UniProt ID:</b>	<a href="#">Q14781</a>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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 mice results in male-to-female gonadal sex reversal. Mutations in this gene are also associated with gonadal dysgenesis in humans. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2010]