

Product datasheet for **RR212283**

Cbx2 (NM_001107071) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbx2 (NM_001107071) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbx2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212283 representing NM_001107071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGCTGAGCAGCGTGGGCGAGCAGGTCTTCGCCGCCGAGTGCATCCTGAGCAAGAGGCTCCGCA
 AGGGCAAGCTGGAGTACCTGGTCAAGTGGCGCGGCTGGTCTCCAACACAAACAGCTGGGAGCCGAAGA
 GAACATCTTGGACCCGAGGCTGCTCCTGGCCTTCCAGAAGAAGGAACATGAGAAGGAGGTGCAGAACCGG
 AAAAGAGGCAAGAGGCCAGGGGCGAGGCAAGGAAGCACACAGTCATGTCCTCCTGCAGCCGGCGCTCCA
 AGCTCAAGGAACAGATGCACCGTCCAAGTCCAATCCAGCAGTTCATCCTCCTCCACATCTTCCTC
 CTCTTCTCAGATGAAGAAGAAGAAGACGACGACAGTGCACCTGGACTCCAAGAGGGGATCCCGGGGC
 CGTGAAACCCACCGGTCCCTCAGAAAAAGCCAGATCCTGGTAGCCAAGCCAGAGCTGAAGGATCCCA
 TCCGAAAGAAGCGCGGACGCAAGCCTTACCCCGGAACAGAAGGCAGCTCGGAGACCGGTAAGCCTGGC
 CAAGGTGCTAAAGACCACAGGAAGGACCTGGTGCCTCAGCCCCAAGCTGCCCTCCACTCAGTGCT
 CCTGTGGCAGGCTGGTGCCTTGAAAGCCACACAAAGAGGCTGTGGCGGCCCCAGCACTATGGCAA
 CCCAGAGAACCTGGCCAGTCTGATGAAAGGCATGGCCGGGAGCCCCAGCCGAGGCGGCATCAGCTGGCA
 GAGTTCTATCGTACACTACATGAACCGCATGAGCCAGAGTCAGGCTCAGGCCGCCAGCCGGCTGGCGCTC
 AAGGCCAGGCTGCCAACAAGTGCAGCCTCGGGCCGACTGAAAGTGGCGACGCAAGAGGGGAGCTAG
 GGGTGAACCCCGCAGGAAGCAAGGTTCCCAAGGCCCTGGCAGTGTGCTGCAGAGCAGCAGAGAGGGAA
 TAATTCGGGGAGTCCAGGTTCCAGCTGCCACCACTCAGGAGTTGAGCCTTCAGTCTTACTTACAG
 AGCGTCAAGAACGGTGTGCCCGGTGTGGCCTGCCTGCTGCCATGCCACAGCCACCAAGGCTATTCTGT
 CCACCAACACAGCCACGGGAAAGTCTGGGAGCGGCCCCACAGGAGTAAACGTGACCAACGCTCCAC
 AGACACCAGCAAAGGGGAAAAACTGACTTGCAAGACAGCGGCTCTGCCTGCCCTTCTGTCAAGAGGGAC
 GCCGCTAAAAGCATTGCTGCCTCTGGTGGCAGGAGGGCCACACAGTCCCGGAGAAGGTGAGAAGCCAC
 CTGCACGTGTGAACTGAGCACAGGAGAGGAGAACAGCAGTTCTGACTCAGACCCCGACTCATCCTCGCT
 GCCTAGTGTGGCAGAACCTGTCGGTAGCTGTCCAGACCAGCCAGGACTGGAAACCTACCCGAAGTCTC
 ATCGAGCAGTCTTCGTACGGATGTCACAGCCAACTCATCACTGTCACCGTGAAGGAGTCCCCACCA
 GTGTGGGCTTCTCAACTGAAGCATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212283 representing NM_001107071
 Red=Cloning site Green=Tags(s)

MEELSSVGEQVFAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLAFQKKEHEKEVQNR
 KRGRPRGRPRKHTVMSSCSRSLKEPDAPSKSSSSSSSTSSSSSDEEEEDDDSDLSKRGRG
 RETHPVQKKAQILVAKPELKDPKIRKKRGRKPLPPEQKAARRPVSLAKVLKTRKDLVTSAPKLPPLSA
 PVAGLAALKAHTKEACGGPSTMATPENLASLMKGMAGSPSRGGISWQSSI VHYMNRMSQSQAQAASRLAL
 KAQAANKCSLGPDLKVRTQKQKELGVNPAKSKVPKAPGSVAAEQQRGNNSGSPGSQLPPTQELSLQVLDLQ
 SVKNGVPGVGLPARHATATKAIPATNTATGKPGSGPTGVNVTNAPTDTSKGEKLTCKTAALPAPSVKRD
 AAKSIAASGGQEGHTVPGEGQKPPALCELSTGEENSSSSDSDPSSSLPSAGQNL SVAVQTSQDWKPTRSL
 IEHVFVDVTANLITVTVKESPTSVGFFNLKHY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

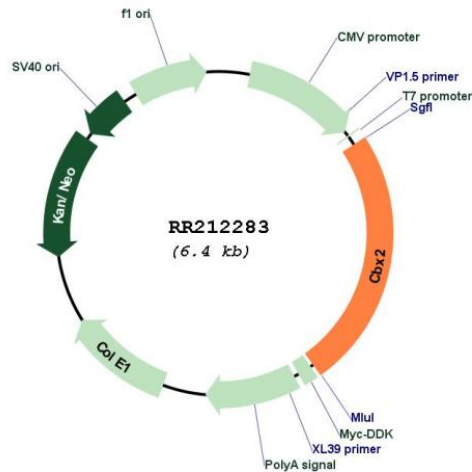
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN:	NM_001107071
ORF Size:	1569 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:

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_001107071.1](#), [NP_001100541.1](#)

RefSeq Size: 3750 bp

RefSeq ORF: 1572 bp

Locus ID: 303730

Cytogenetics: 10q32.3

MW: 55.5 kDa