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Product datasheet for MR219678

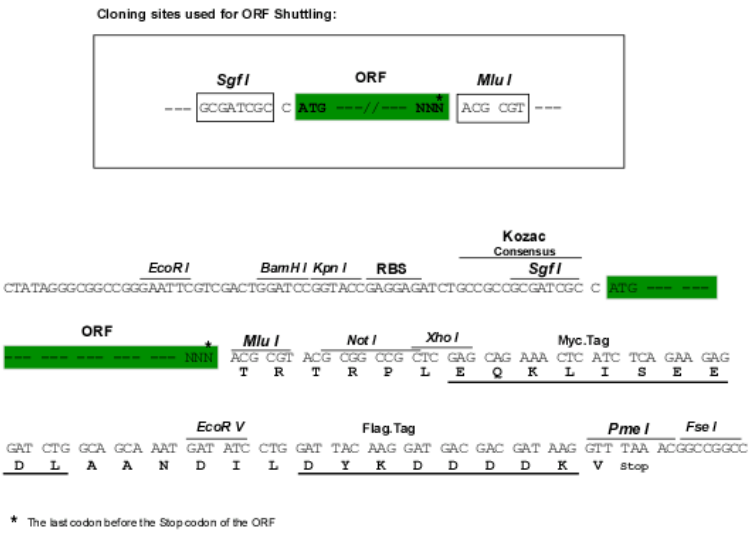
Cbx5 (NM_007626) Mouse Tagged ORF Clone

Product data:

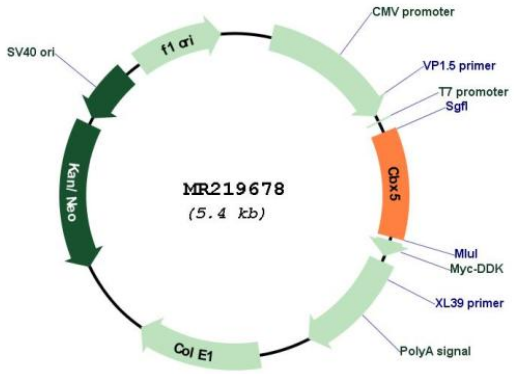
Product Type:	Expression Plasmids
Product Name:	Cbx5 (NM_007626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbx5
Synonyms:	2610029O15Rik; C75991; HP1; Hp1a; Hp1alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR219678 representing NM_007626 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGAAAGAAGACCAAGAGGACAGCCGACAGCTCTTCTTCAGAGGATGAGGAGGAATATGTGGTGGAAA AGGTGTTGGACAGGCGCATGGTTAAGGGGCAAGTGGAATATCTGTTGAAGTGGAAAGGCTTTTCTGAGGA GCACAATACTTGGGAACCTGAGAAGAACTTGGATTGTCCTGAACTAATTTCTGAGTTTATGAAAAAGTAT AAGAAGATGAAGGAGGGTGAAAACAATAAGCCCAGGGAGAAATCAGAAGGAAACAAGAGGAAATCCAGTT TCTCCAACAGCGCTGATGATATTAAATCTAAAAAAAAGAGAGAGCAAAGCAATGATATCGCTCGGGGCTT TGAGAGAGGACTGGAACCAGAAAAGATCATCGGAGCAACAGATTCCTGCGGTGACTTAATGTTCTTAATG AAATGGAAAGACACAGATGAAGCTGACCTGGTTCTTGCAAAAGAAGCTAACGTGAAGTGTCCACAGATTG TGATAGCATTTTATGAAGAGAGACTGACGTGGCACGCATATCCAGAGGATGCGGAAAACAAAGAAAAAGA AAGCGCGAAGAGC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR219678 representing NM_007626 Red=Cloning site Green=Tags(s) MGKKTKRTADSSSSEDEEEYVVEKVLDRRMVKGQVEYLLKWKGFSEEHNTWEPEKNLDCPELISEFMKKY KKMKEGENNKPREKSEGNKRKSSFSNSADDIKSKKKREQSNDIARGFERGLEPEKIIGATDSCGDLMFLM KWKDTDEADLVLAKEANVKCPQIVIAFYEERLTWHAYPEDAENKEKESAKS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_007626

ORF Size: 573 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_007626.3, NP_031652.1
RefSeq Size:	8802 bp
RefSeq ORF:	576 bp
Locus ID:	12419
UniProt ID:	Q61686
Cytogenetics:	15 F3
MW:	22.6 kDa
Gene Summary:	Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins (By similarity).[UniProtKB/Swiss-Prot Function]