

Product datasheet for **MC226181**

Cbx5 (NM_001076789) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cbx5 (NM_001076789) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cbx5
Synonyms: 2610029O15Rik; C75991; HP1; Hp1a; Hp1alpha
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226181 representing NM_001076789
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGAAAGAAGACCAAGAGGACAGCCGACAGCTCTTCTTCAGAGGATGAGGAGGAATATGTGGTGGAAA
AGGTGTTGGACAGGCCATGGTTAAGGGCAAGTGAATATCTGTTGAAGTGGAAAGCCTTTCTGAGGA
GCACAATACTTGGAACCTGAGAAGAACTGGATTGTCCTGAACAAATTTCTGAGTTTATGAAAAAGTAT
AAGAAGATGAAGGAGGGTGAAAACAATAAGCCAGGGAGAAATCAGAAGGAAACAAGAGGAAATCCAGTT
TCTCCAACAGCGCTGATGATATAAATCTAAAAAAGAGAGAGCAAAGCAATGATATCGCTCGGGGCTT
TGAGAGAGGACTGGAACCAAGAAAGATCATCGGAGCAACAGATTCTGCGGTGACTTAATGTTCTTAATG
AAATGGAAAGACACAGATGAAGCTGACCTGGTTCTTGCAAAGAAGCTAACGTGAAGTGTCCACAGATTG
TGATAGCATTATGAAGAGAGACTGACGTGGCACGCATATCCAGAGGATGCGGAAAACAAGAAAAAGA
AAGCGGAAGAGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001076789
Insert Size: 576 bp
OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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_001076789.1 , NP_001070257.1 |
| RefSeq Size: | 8801 bp |
| RefSeq ORF: | 576 bp |
| Locus ID: | 12419 |
| UniProt ID: | Q61686 |
| Cytogenetics: | 15 F3 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |