

Product datasheet for **MR221009**

Cbx4 (NM_007625) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cbx4 (NM_007625) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cbx4 |
| Synonyms: | MPc2; PC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR221009 representing NM_007625
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTGCCAGCTGTTGGCGAGCACGTCTTCGCGGTGGAGAGCATCGAAAAGAAGCGGATACGCAAGG
 GCAGAGTGGAGTATCTGGTGAAATGGAGAGGCTGGTCCCCAAATATAACACGTGGGAACAGAGGAGAA
 CATCTTGATCCCCGGCTGCTGATCGCCTTCCAGAACAGGAAAGGCAGGAGCAGCTGATGGGATATCGC
 AAGAGAGGGCCCAAGCCAAACCGCTGGTGGTGCAGGTGCCACCTTTGCCCGACGCTCCAATGTTCTGA
 CTGGGCTTCAAGACTCCTCCGCTGACAACCGTGCCAAGCTGGAGTTGGGCACACAGGGCAAGGGCCAGGG
 GCACCAGTATGAGCTCAACAGCAAGAAGCACCATCAGTACCAGCCACATAGCAAGGAGAGGTCCGGTAAG
 CCGCCCCGCCAGGGAAGAGCGGCAAGTATTATTATCAGCTAAATAGCAAAAAGCACCACCCTACCAGC
 CAGACCCCAAAATGTACGACCTGCAGTACCAGGGCGGCCACAAGGAGGCACCCAGCCCCACCTGCCAGA
 CCTGGGCACCAAGAGCCACCCTCCTGACAAGTGGGCCACGGAGCTGCAGCCAAAGGCTACCTCGGGGCC
 GTGAAGCCCTTGGGGGGAGGGGCAGGAGCTCCAGGCAAGGGCTCGGAAAAGGGCCCCCAATGGCATGA
 CACCAGCCCTAAGGAGGCAGTGACCGGTAAATGGTATTGGGGCAAGATGAAAATCGTCAAGAACAAGAA
 CAAGAATGGGCGCATCGTGATCGTTATGAGCAAGTACATGGAGAACGGCATGCAGGCAGTGAAAAACAAG
 TCGGGCGAGGCCCGGAGGGCGAGGCGCGCTCCCCAGCCACAAGAAACGTGCTGCCGAGGAGCGCCATC
 CCCAGGGCGACAGGACTTTTAAAAGGCAGCCGGTGCCTCTGAGGAGAAGAAAGCCGAAGTGCCCTGCAA
 ACGCAGGGAGGAGGAGGCTCTGGTGTGGGGGACGCGCAGCCCCAGGACCTAGGGTCTCGAAAGCTCTCC
 CCGACCAAGGAGGCTTTGGTGAGCAACCGCTACAGCTCACCACCAAGCCAGACCTGCTGGCCTGGGACC
 CAGCCAGGAGCTCGACCCCGCCGCCACCACCACCATCACCACCACCATCACCACCACCACCATACGGT
 GGGCCTGAACCTCTCCATGCGCGCAAGCGCTGCCTCTCCGAGACCCATGGGGAGCGTGAGCCCTGTAAG
 AAGCGTTGACCGCCCGCAGCATCAGCACGCGACCTGCCTGGGGGCGAGCCGGTCTCCGAGCACCCCTG
 CCAACGTATCCCCACCAGCGCCTCTCTGCCGAGCCGAGGTCACTCTTTAGACTCAGACCTGGATGA
 ACCCATAGACTTGCCTGTGTCAAGATGCGCAGCGACGCCGGGAACCGCCAGCACCCCTCCAGGTGAAG
 CCCGAGGCTCCAGCTGTGGCGGAGTGGTGGCGCCGGCCCTGCCTCAGAGAAGCCTCCCGCTGAGGCC
 AGGAGGAGCCAGTGGAGCCCTTGAGTGTGAGTTCAAGCCCTCTTTGGGAATATAATTACTACTGACGTAC
 GGCGAACTGCCTACCGTCACTTCAAGGAATACGTGACGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_007625

ORF Size: 1653 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_007625.2](#), [NP_031651.2](#)

RefSeq Size: 5213 bp

RefSeq ORF: 1656 bp

Locus ID: 12418

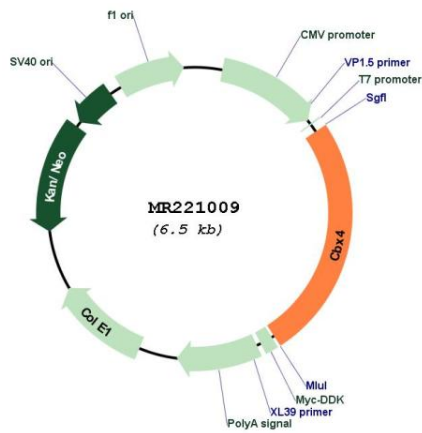
UniProt ID: [O55187](#)

Cytogenetics: 11 83.34 cM

MW: 61 kDa

Gene Summary: E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221009