

Product datasheet for **RG203417**

CBX8 (NM_020649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBX8 (NM_020649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CBX8
Synonyms:	PC3; RC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203417 representing NM_020649 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTTTAGCGGTGGGGAGCGGGTGTTCGCGGCCGAAGCCCTCCTGAAGCGGCGCATACGGAAAG
GACGCATGGAATACCTCGTAAATGGAAGGGATGGTCGAGAAGTACAGCACATGGGAACCGGAGGAAAA
CATCCTGGATGCTCGCTTCTCGCAGCCTTTGAGGAAAGGAAAGAGAGATGGAGCTCTATGGCCCCAAA
AAGCGTGGACCAAGCCAAAACCTTCTCCTCAAAGCGCAGGCCAAGGCAAAGGCCAAAACCTTACGAGT
TTCGAAGTGACTCAGCCAGGGGCATCCGGATCCCCTACCCTGGCCGCTCGCCCCAGGACCTGGCCTCCAC
TTCCCGGGCCCGGAGGGCCTTCGAAACATGGGTTTGTCCCGCCAGCGAGCAGCACCAGCACCAGCAGC
ACCTGCCGCGCAGAGGCCCTCGGGACCGGACCGAGACCGGGATAGGGACCGGGAGCGGGATCGAGAAA
GGGAGAGGGAGCGAGAGAGGGAGCGGGAACGTGAGAGGGAACGAGAGCGGGGTACCAGCAGAGTGGATGA
CAAGCCCAGCTCACCGGGGACAGCTCGAAGAAGCGAGGCCCAAGCCCCGGAAGGAGCTCCCGGACCCC
TCACAGAGGCCCTTAGGCGAACCCAGCGCCGGCCTCGGAGAGTACCTCAAGGGCAGGAAGCTGGACGACA
CCCCTTCCGGGGCAGGAAAGTTTCCAGCCGGCCACAGTGTGATCCAGCTGGCCCCAAGACAGGACTCGGA
CCTGGTGCAGTGTGGTGTGACCAGCCCTAGCTCAGCTGAGGCCACGGGCAAACCTGGCTGTGGACACCTTC
CCGGCCAGGGTGATAAAGCACAGGGCTGCCTTCTGGAGGCCAAAGGCCAGGGTGCCTAGATCCCAATG
GCACCCGGTCCGACATGGCTCAGGCCCCCCAGCTCTGGGGGGGCTGTACCGGACATGGGGGCCCA
GGGGGAAAGGCCCTCCCTCATCGCCAGGATCCCTGTGGCCAGAATCCTGGGGGACCCGGAGGAAGAGTCC
TGGAGCCCTCCCTGACTAACCTGGAGAAGGTGGTGGTACGGACGTGACCTCAAACCTTTTGGACCGTCA
CCATTAAGGAAAGTAACACGGACCAAGGCTTTTTTAAAGAGAAAAGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203417 representing NM_020649
Red=Cloning site Green=Tags(s)

MELSAVGERVFAAEALLKRRIRKGRMEYLKWKWGSQKYSTWEPEENILDARLLAAFEEREREMELYGPK
 KRGPKPKTFLLKAQAKAKAKTYEFRSDSARGIRIPYGRSPQDLASTSRAREGLRNMGLSPPASSTSTSS
 TCRAEAPRDRDRDRDRDRERERERERERERERERERERTSRVDDKPPSPGDSKKRGPKPKRELDPD
 SQRPLGEPASAGLGEYLKGRKLDPTPSGAGKFPAGHSVIQLARRQSDLVQCGVTSPPSSAEATGKLAVDTF
 PARVIKHRAAFLEAKGQGALDPNGTRVVRHSGPPSSGGGLYRDMGAQGGRPPLIARIPVARILGDPEEES
 WSPSLTNLEKVVVTDVTSNFLTVTIKESNTDQGGFFKEKR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020649

ORF Size: 1167 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_020649.3](#)

RefSeq Size: 1542 bp

RefSeq ORF: 1170 bp

Locus ID: 57332

UniProt ID: [Q9HC52](#)

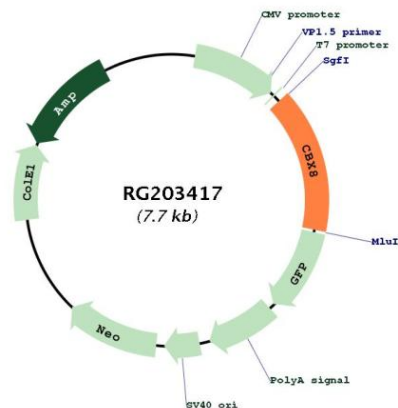
Cytogenetics: 17q25.3

Domains: CHROMO

Protein Families: Transcription Factors

Gene Summary: Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203417