

## Recombinant Human CBX3

**Cat. No.** CBX3-27362TH **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human HP1 gamma protein, expressed in <i>Saccharomyces cerevisiae</i> . 183 amino acids, MW 20.7 kDa,
<b>Species</b>	Human
<b>Description</b>	At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino</b>	MASNKTTLQKMGKKQNGKSKKVEEAPEEFVVEKVLDRRV VNGKVEYFLKWKGFT

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<b>acids</b>	DADNTWEPEENLDCPELIEAFLN SQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAA DKPRG FARGLDPERIIGATDSSGELMFLMKWKDSDEADLV LAK EANMKCPQIVIAF YEERLTWHSCPEDEAQ
<b>Sequence Similarities</b>	Contains 2 chromo domains.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CBX3 chromobox homolog 3 [ Homo sapiens ]
<b>Official Symbol</b>	CBX3
<b>Synonyms</b>	CBX3; chromobox homolog 3; chromobox homolog 3 (Drosophila HP1 gamma); chromobox protein homolog 3; HP1 gamma homolog (Drosophila); HP1Hs gamma;
<b>Gene ID</b>	11335
<b>mRNA Refseq</b>	NM_007276
<b>Protein Refseq</b>	NP_009207
<b>MIM</b>	604477
<b>Uniprot ID</b>	Q13185
<b>Chromosome Location</b>	7p15.2
<b>Pathway</b>	Diurnally regulated genes with circadian orthologs, organism-specific biosystem; RNA

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Polymerase I Chain Elongation, organism-specific biosystem; RNA Polymerase I Transcription, organism-specific biosystem; RNA Polymerase I, RNA Polymerase III, and Mitochondrial Transcription, organism-specific biosystem; Transcription, organism-specific biosystem;

**Function**

enzyme binding; identical protein binding; protein binding; protein domain specific binding;

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