

Product datasheet for **SC115517**

HP1 alpha (CBX5) (NM_012117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HP1 alpha (CBX5) (NM_012117) Human Untagged Clone
Tag:	Tag Free
Symbol:	HP1 alpha
Synonyms:	HEL25; HP1; HP1A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_012117 edited ATGGGAAAGAAAACCAAGCGGACAGCTGACAGTTCTTCTTCAGAGGATGAGGAGGAGTAT GTTGTGGAGAAGGTGCTAGACAGGCGGTGTTAAGGGACAAGTGAATATCTACTGAAG TGGAAAGGCTTTTCTGAGGAGCACAATACTTGGGAACCTGAGAAAACTTGGATTGCCCT GAGCTAATTTCTGAATTTATGAAAAAGTATAAGAAGATGAAGGAGGGTAAAAATAATAAA CCCAGGGAGAAGTCAGAAAGTAACAAGAGGAAATCCAATTTCTCAACAGTGCCGATGAC ATCAAATCTAAAAAAGAGAGAGCAGAGCAATGATATCGCTCGGGGCTTTGAGAGAGGA CTGGAACCAGAAAAGATCATTGGGGCAACAGATTCCTGTGGTGATTTAATGTTCTAATG AAATGGAAAGACACAGATGAAGCTGACCTGGTTCTTGCAAAGAAGCTAATGTGAAATGT CCACAAATGTGATAGCATTTTATGAAGAGAGACTGACATGGCATGCATATCCTGAGGAT GCGGAAAACAAAGAGAAAGAAACAGCAAAGAGCTAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012117 unedited NTTGTCAAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGCTTG GTGCGGCCTCACCATACAGGAACAGGGCAGACGTTAGCGTGAGTGATCACTCTCAATCCC GGGGACCTGGTGGCCTTAGTCTTTCAGGTGGAACGGTGTGCGACATGGGAAAGAAAACCA AGCGGACAGCTGACAGTCTTCTTCAGAGGATGAGGAGGAGTATGTTGTGGAGAAGGTGC TAGACAGGCGCGTGGTTAAGGGACAAGTGAATATCTACTGAAGTGGAAAGGCTTTTCTG AGGAGCAACAATACTTGGGAACCTGAGAAAACTTGGATTGCCCTGAGCTAATTTCTGAAT TTATGAAAAAGTATAAGAAGATGAAGGAGGGTAAAAATAATAAACCCAGGAGAGAAGTCAG AAAGTAACAAGAGGAAATCCAATTTCTCAACAGTGCCGATGACATCAAACTAAAAAAA AGAGAGAGCAGAGCAATGATATCGCTCGGGCTTTGAGAGAGGACTGGAACCAGAAAAGA TCATTGGGGCAACAGATTCTGTGGTATTTAATGTTCTAATGAAATGGAAAGACACAG ATGAAGCTGACCTGGTTCTTGCAAAAGAAGCTAATGTGAAATGTCCACAAATTGTGATAG CATTTTATGAAGAGAGACTGACATGGCATGCATATCCTGAGGATGCGGAAAACAAAGAGA AAGAAACAGCAAAGAGCTAAAGGAGGGGATGGGTCTCTGTATTCTCTTTGTACATAAT ACATTCACCTCCCTGCCTTCTCTCTTTCTACCCACCCCTTTCTATCCTAACACATNCA TAAAAAATGTGCTTATCACTGTGCTCCACAGGAAAAGTTGGTATGNTTCTCTTGTACAT ACTGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_012117
Insert Size:	6200 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).
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:	<u>NM_012117.1</u> , <u>NP_036249.1</u>
RefSeq Size:	876 bp
RefSeq ORF:	576 bp
Locus ID:	23468
UniProt ID:	<u>P45973</u>
Cytogenetics:	12q13.13
Domains:	CHROMO

Gene Summary:

This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence and transcripts to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.