

OriGene Technologies, Inc.

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Product datasheet for RC225208

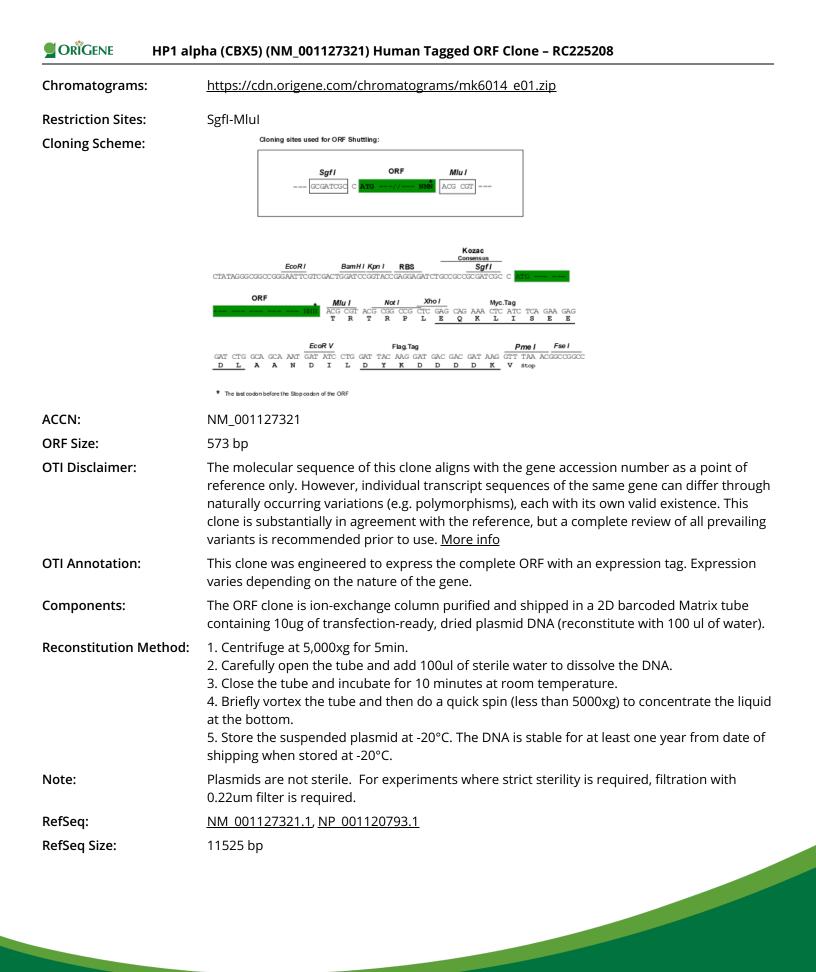
HP1 alpha (CBX5) (NM_001127321) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HP1 alpha (CBX5) (NM_001127321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HP1 alpha
Synonyms:	HEL25; HP1; HP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC225208 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGAAAGAAAACCAAGCCGGACAGCTGACAGTTCTTCTTCAGAGGATGAGGAGGAGTATGTTGTGGAGA AGGTGCTAGACAGGCGCGTGGTTAAGGGACAAGTGGAATATCTACTGAAGTGGAAAGGCTTTTCTGAGGA GCACAATACTTGGGAACCTGAGAAAAACTTGGATTGCCCTGAGCTAATTTCTGAATTTATGAAAAAGTAT AAGAAGATGAAGGAGGGTGAAAATAATAAACCCAGGGAGAAGTCAGAAAGTAACAAGAGGAAATCCAATT TCTCAAACAGTGCCGATGACATCAAATCTAAAAAAAAGAGAGAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC225208 protein sequence Red=Cloning site Green=Tags(s)
	MGKKTKRTADSSSSEDEEEYVVEKVLDRRVVKGQVEYLLKWKGFSEEHNTWEPEKNLDCPELISEFMKKY KKMKEGENNKPREKSESNKRKSNFSNSADDIKSKKKREQSNDIARGFERGLEPEKIIGATDSCGDLMFLM KWKDTDEADLVLAKEANVKCPQIVIAFYEERLTWHAYPEDAENKEKETAKS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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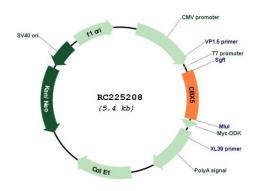


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	HP1 alpha (CBX5) (NM_001127321) Human Tagged ORF Clone – RC225208
RefSeq ORF:	576 bp
Locus ID:	23468
UniProt ID:	<u>P45973</u>
Cytogenetics:	12q13.13
MW:	22.2 kDa
Gene Summary:	This gene encodes a highly conserved nonhistone protein, which is a member 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,

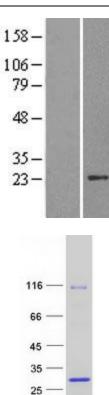
encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225208

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18 14 Western blot validation of overexpression lysate (Cat# [LY426745]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225209] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified CBX5 protein (Cat# [TP325208]). The protein was produced from HEK293T cells transfected with CBX5 cDNA clone (Cat# RC225208) using MegaTran 2.0 (Cat# [TT210002]).

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