

Product datasheet for **SC303073**

CENPB (NM_001810) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CENPB (NM_001810) Human Untagged Clone
Tag: Tag Free
Symbol: CENPB
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC303073 representing NM_001810.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAAT
CCGGACCTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTG
AAGAACAAGCGCGCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAAC
AAGCTGTCTCCCTACGACAAGCTCGAGGGCTTGTCTATCGCTGGTTCAGCAGATCCGCGCCGCCGGC
CTGCCGGTCAAGGGCATCATCTCAAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGAC
TTCACCGCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCACGGCGTGGTGTCTGCAGCGGCGTG
GCCCGCGCCCGCGCGAAACGCTGCCCGCCGACCCCGCGGCGCCCTGCCAGTCCGGCCGCGGTGCC
TCGGAGGGCAGTGGCGGGAGCACTACTGTTGGCGCGCTCGGGAGGAGCAGCCGCGCTCGTGGCCGAG
GGCTACGCTCGCAGGACGTGTTTCAGCGCCACCGAGACCAGTCTATGGTACGACTTCTGCCCGACCAG
GCCCGGGGCTGTGCGGAGGCGACGGACGGCCGCTCAAGCCACCCAGCGCTGAGCGTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCGCGCAGGC
CAAGCCGCGCTGCCCTGCGACTACACCGCAACTCCAAGGGTGGTGTACCACCCAGGCCCTGGCCAAG
TACTTGAAGGCCCTGGACACCCGAATGGCTGCAGAGTCTCGCCGGTCTGCTGTTGCCCGCCGCTTG
GCTGCCAGTCTTGGACACCTCGGGCTGCGGCATGTGCAGCTGGCCTTCTCCCTCCCGCACCGTG
CATCCGCTGGAGAGGGGAGTGGTCCAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCC
ATGGCCGCGCTAGAGGGCCAGGATCCCTCAGGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACTTTGTG
GCTGCCGCTGGCAGGCACTGGAGCCTTCGGACATAGCCGCTGCTTTCGTGAGGCTGGCTTTGGGGGT
GGCCCTAATGCCACCATCACCATTCCCTCAAGAGTGAGGGAGAGGAAGAGGAGGAGGAGGAGGAAGAA
GAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAGGAGGAGGAGGAGGAAGGGGG
GAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGTGTTGATAGTGTGAAGAAGAG
GAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCAGGGAGTGTGGAGGCC
GGTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCTACTCTGCATTTCTGAAAGGT
GGGAGGACTCTGATTCAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGAC
GATGATGATGAGGAGGATGGTGTGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCC
ATGGTCAAGAGGTACCTGACCTCCTTCCCATTGATGACCGCGTGACAGGCCACATCCTCCACTTGAA
CACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGGACATCAA
AGCTGA
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Restriction Sites: ECoRI-NOT



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Plasmid Map:	□
ACCN:	NM_001810
Insert Size:	1800 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001810.5
RefSeq Size:	2856 bp
RefSeq ORF:	1800 bp
Locus ID:	1059
UniProt ID:	P07199
Cytogenetics:	20p13
Protein Families:	Druggable Genome
MW:	65.2 kDa

Gene Summary:

This gene product is a highly conserved protein that facilitates centromere formation. It is a DNA-binding protein that is derived from transposases of the pogo DNA transposon family. It contains a helix-loop-helix DNA binding motif at the N-terminus, and a dimerization domain at the C-terminus. The DNA binding domain recognizes and binds a 17-bp sequence (CENP-B box) in the centromeric alpha satellite DNA. This protein is proposed to play an important role in the assembly of specific centromere structures in interphase nuclei and on mitotic chromosomes. It is also considered a major centromere autoantigen recognized by sera from patients with anti-centromere antibodies. [provided by RefSeq, Jul 2008]