

## Product datasheet for **SC112131**

### CENPU (NM\_024629) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CENPU (NM_024629) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPU
Synonyms:	CENP50; CENPU50; KLIP1; MLF1IP; PBIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024629, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCCGGGGGGCGGCGGCGGCGGCGGCGCTCACAGGTCTGAGGGCGCAAGACGTTCAAAGAACACTT
TAGAAAGAACACATTCCATGAAAGATAAAGCTGGTCAAAAGTGCAAGCCTATTGACGTGTTGCGACTTTCC
TGATAATTCTGATGTCTCAAGCATTGGCAGGCTGGGTGAAAATGAGAAAGATGAAGAACTTATGAGACC
TTTGATCCTCCTTACATAGCACAGCTATATATGCTGATGAAGAAGAATTCTCCAACATTGTGGACTGT
CTCTCTTCAACTCCTCCAGGAAAAGAAGCAAAAAGAAGTTCAGACACTTCTGGAAATGAAGCAAGTGA
AATCGAATCTGTAAAAATTAGTCAAAAAGCCAGGAAGAAAGCTCAGGCCATTAGTGACTCTGAA
AGCATTGAAGAAAGTGATACAAGGAGAAAAGTTAAATCAGCAGAGAAAATAAGTACACAACGTCATGAGG
TTATTCGAACCACAGCGTCTTCAGAACTTCAGAGAAACCAGCTGAGTCTGTCACTTCTAAAAAGACAGG
ACCCCTTAGTGCCAGCCCTCTGTTGAAAAGAGAAGTGGCAATAGAAAGTCAATCGAAAACCTCAGAAA
AAAGGGAAGATATCTCATGACAAAAGGAAGAAATCAAGAAGTAAAGCCATAGGCTCAGATACTTCTGACA
TTGTGCACATTTGGTGTCCAGAAGGAATGAAAACCAGTGACATCAAGGAGTTGAATATTGTTTTGCCTGA
ATTTGAGAAAACCCACCTAGAGCATCAACAAAGAATAGAATCTAAAGTTTGTAAAGCAGCCATCGCCACA
TTTTATGTTAATGTTAAGAACAATTCATCAAAATGCTTAAAGAAAGCCAGATGTTGACAAATCTGAAA
GGAAGAATGCTAAGATGATTTTCAGATATCGAAAAGAAAAGGCAGCGTATGATTGAAGTCCAGGATGAAC
GCTTCGGTTAGAGCCACAGCTGAAACAACACTACAAACAAAATATGATGAACCTTAAAGAGAGAAAAGTCTCC
CTTAGGAATGCAGCATATTTCTTATCTAATTTAAACAGCTTTATCAAGATTATTCAGATGTTCAAGCTC
AAGAACCAAACGTAAGGAAACGTATGATTCATCCAGCCTTCCAGCTCTGTTATTTAAAGCAAGAACACT
TCTGGGAGCCGAAAGCCATCTGCGAAATATCAACCATCAGTTAGAGAAGCTCCTTGACCAGGGATGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_024629 unedited            GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTTGGCGGGAGCTTCC            AGTCGCTCGAGAGCGGAGAGCGGCACCATGGCCCCGCGGGGGCGCGGCCGCCCGGCT            CACAGGCTGAGAGCGCAAGACGTTCAAAGAACAATTTAGAAAGAACACATTCCATGAAA            GATAAAGCTGGTCAAAAGTGCAAGCCTATTGACGTGTTGACTTTCTGATAATTCTGAT            GTCTCAAGCATTGGCAGGCTGGGTGAAAATGAGAAAGATGAAGAACTTATGAGACCTTT            GATCCTCCTTTACATAGCACAGCTATATATGCTGATGAAGAAGAATTCTCAAACATTGT            GGATGTCTCTCTTCAACTCCTCCAGGAAAAGAAGCAAAAAGAAGTTCAGACACTTCT            GGAAATGAAGCAAGTGAATCGAATCTGTAAAAATTAGTGCAAAAAGCCAGGAAGAAAG            CTCAGGCCATTAGTGATGACTCTGAAAGCATTGAAGAAAGTGATACAAGGAGAAAAGTT            AAATCAGCAGAGAAAATAAGTACACAACGTCATGAGGTTATTCGAACCACAGCGTCTTCA            GAACTTTCAGAGAAACCAGCTGAGTCTGTCACTTCTAANAAGACAGGACCTTTAGTGCC            CAGCCCTCTGTTGAAAAAGAGACTTGGGCATAGAAAGTCATCGAAAACAGAAAAGGG            AAGATATCTCATGACAAAAGGAAGAAATCCAGAAAGTAAGCCATAGGCTCAGATACTTCT            GACATTNGCACATTTGGTGTCCAGAGGAATGAAACCCAGTGACATCAAGGAGTGAATA            TGGGTTTGCCATTTGAGAAACCCACCTAAAGCATACCAAAGAATAGAATCTAAAG            TTTGTAAGCAGCCCTCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_024629 unedited            TCTTTGNNACCGCGCCGAATCTAGNATCGAGTCTTTTTTTTTTTTTTTTTTTTTTTTTT            TTTTTTTATTTGGCAACTGTTTTTAATCTTTTTTCAATCCATGTTTACGATTTGCTAA            ATACTTTAAAATTTAAAGCATGGGTAAGTCCATTGTCAAGATAGCAAATTTATCTTC            TGATTTGTCTTCAGCTGGACTGTCCACTTGTTAAAAAATTAATCCACCCTTGCTCTTCC            GTCGGGGAGTATTGAAAAGTATGTGCACAGAAGTGTAGGTAATTTCAAATTTGGAGTTTC            AAGTGTGTCTGAGCTTCAAGTGCAGCAACGTTTGAATCAGTGCACCTATCCACGGTGAG            ATATCGGAGACAGCATTCTCCTGCATATTCACCTTAGTATCTATCTGTCACTTAATACC            TTACTTCAACATAGAGTATAAGGTTAAATCACATATCCTGAGTAAATATTTTCTATCCC            ACTCTCTATCCCTTACCAGTAAATAAGGAAGAAGAGTTTACAACAGATGAAGCCGAT            GAAACTAGGAGCAATGAAACCCAGAATCCTCATAAACCATCACCTAGCAGGCTGTCAACA            GGTGCATCTGCTGATGCTGTCTGGGATAATGGGATTGATGATGCTTATTTTTTTGAAAGC            TACTTGAGATGCTGAATTACCTGAAGCTGCAGAGAACAGTCTTTCTCAGTTTTAACAGGG            GAAGGGGATGAAATATCCTGGCTGAACTAATTATAGAAGTTTTACCAGAAGTACCTATTC            CCTTTTGACCCCTTTTGTCAACCAGGCTATAATTTGCCTGGAGTCTGGGAAATTTGAAAT            ATATCCATCCACCCGTTTATTAACCAAAGTTTAAACCTTCGCTTCCCATTTTGGGTTTT            ACTTTTGGAAACCCATTAATTAATTAACCTTGGGGAGAAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024629
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_024629.2](#), [NP\\_078905.2](#)

**RefSeq Size:** 2547 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 79682

**UniProt ID:** [Q71F23](#)

**Cytogenetics:** 4q35.1

**Protein Families:** Druggable Genome

**Gene Summary:** The centromere is a specialized chromatin domain, present throughout the cell cycle, that acts as a platform on which the transient assembly of the kinetochore occurs during mitosis. All active centromeres are characterized by the presence of long arrays of nucleosomes in which CENPA (MIM 117139) replaces histone H3 (see MIM 601128). MLF1IP, or CENPU, is an additional factor required for centromere assembly (Foltz et al., 2006 [PubMed 16622419]). [supplied by OMIM, Mar 2008]  
Transcript Variant: This variant (1) represents the protein-coding transcript.