

## Product datasheet for **SC107987**

### CENPO (NM\_024322) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CENPO (NM_024322) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPO
Synonyms:	CENP-O; ICEN-36; MCM21R
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024322, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGGCGAACCCCTTACGTCCAGATGGCGAGTCCAAGGAGGTGTTTTAGCTCACTTGAAAGGC
TAGAGACCCAAGTGAGCAGATCCCGTAAACAGTCTGAAGAGCTGCAGAGCGTGCAGGCCAGGAAGGTGC
TCTTGAAACCAAGATTCATAAACTAAGGCGTCTGCGAGATGAGCTGAGGGCTGTGGTGCGGCACCGCGA
GCCAGCGTGAAAGCATGTATTGCCAATGTAGAACCAACCAACAGTGGAGATCAATGAGCAAGAAGCAT
TGAAGAGAAATTGAAAATGTAAAGCCATTCTGCAGGCATATCATTTTACAGGCCTCAGTGGTAAACT
GACCAGCCGAGGAGTTTGTGTCTGCATCAGTACTGCTTTTGGAGGGAACCTATTGGATTCCTATTTGTG
GACCTTGTATACAGAAACCACTCCGGATACATACCATTTCAGTCCCAGTCTTCATTTCCCTGGAAGAGA
TAGCTGCAAAATATTTACAGACCAACATCCAGCACTTCTGTTTTCAGTCTCTGCGAGTACCTGAATGCTTA
CTCTGGGAGGAAGTACCAGGCAGACCGGCTTCAGAGTGACTTTGCAGCCCTCCTGACTGGGCCCTTGCGA
AGAAACCACTGTGTAACCTGCTGTCTTACTTACAACTGGATCCAGGGGTCAGTCTTCCCGTTCT
GTGCTAGATTGCTGTATAAGGACCTCACAGCACTTCCCACTGACGTACCCGTGACATGTCAAGGAGT
GGAAGTATTACCACTTCATGGGAGGAGCAACGAGCATCTCATGAACTCTGTTCTGTACGAAGCCCTTG
CATCAAGTGTTCCTCATTTACAAGAAAAGGAGAAAAGTTGGATATGAGTCTGGTCTCCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_024322 unedited TATAACCCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG CGAATTCGGCACGAGGGGATGGCGGAATTCTCGCTTCTGGCCTGGCAAGGACATTGGAG TCCCTATACCCGTTGCCTAGACAACTTCATGGGAAGGCCCTTGGGAATCTGAGATGGAG CAGGCGAACCCTTTACGTCCAGATGGCGAGTCCAAAGGAGGTGTTTTAGCTCACTTGGAA AGGCTAGAGACCCAAGTGAGCAGATCCCGTAAACAGTCTGAAGAGCTGCAGAGCGTGCAG GCCAGGAAGGTGCTCTTGGAAACCAAGATTCATAAACTAAGGCGTCTGCGAGATGAGCTG AGGGCTGTGGTGCGGCACCGCGAGCCAGCGTGAAGCATGTATTGCCAATGTAGAACCC AACCAAACAGTGGAGATCAATGAGCAAGAAGCATTGGAAGAGAAAATTGAAAAATGTGAAA GCCATTCTGCAGGCATATCATTTTACAGGCCTCAGTGGTAAACTGACCAGCCGAGGAGTT TGTGTCTGCATCAGTACTGCTTTTGGGGGAACCTATTGGATTCTATTTTGTGGACCTT GTCATACAGAAACCACTCCGGATACATCACCATTAGTCCAGTCTTCATTCCCCTGNA GAGATAGCTGCANAATATTTACAGACCAACATCCAGCACTTNCCTGTAGTCTCTGCGAG TACCTGAATGCTTACTCTNGGAGGAAGTACCCAGCAGACCGGCTTCAGGGGGTCACTCT TCCNGTCTGTGCTAGATTGCTGTATAAGGACCTNACCAGCACTTTNCCACTGACGTCC ACGTGACATGTCAGGGAGTGGGAGTATCATCCACTTCATGGGNAGAGCACG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024322
<b>Insert Size:</b>	4500 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_024322.1</a></u> , <u><a href="#">NP_077298.1</a></u>
<b>RefSeq Size:</b>	1665 bp
<b>RefSeq ORF:</b>	903 bp
<b>Locus ID:</b>	79172
<b>UniProt ID:</b>	<u><a href="#">Q9BU64</a></u>
<b>Cytogenetics:</b>	2p23.3

**Gene Summary:**

This gene encodes a component of the interphase centromere complex. The encoded protein is localized to the centromere throughout the cell cycle and is required for bipolar spindle assembly, chromosome segregation and checkpoint signaling during mitosis. Alternatively spliced transcript variants encoding multiple protein isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1 and 3 both encode isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.