

Product datasheet for **SC304406**

CENPF (NM_016343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPF (NM_016343) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPF
Synonyms:	CENF; CILD31; hcp-1; PRO1779; STROMS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016343 edited
 GCCCGCCGAAGCCGCGCCAGAAGTGTACTCTCCGAGAGGTCGTTTTCCCGTCCCCGAGAG
 CAAGTTTTTACAAATGTTGGAGTAATAAAGAAGGCAGAACAAAATGAGCTGGGCTTTG
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 TAAAATAGTCGCCTTCGTTTTCTGTAAAAAAGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_016343
Insert Size: 10000 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by 3 amino acids. These are deemed polymorphisms.

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:

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_016343.3](#), [NP_057427.3](#)

RefSeq Size: 10316 bp

RefSeq ORF: 9345 bp

Locus ID: 1063

UniProt ID: [P49454](#)

Cytogenetics: 1q41

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that associates with the centromere-kinetochore complex. The protein is a component of the nuclear matrix during the G2 phase of interphase. In late G2 the protein associates with the kinetochore and maintains this association through early anaphase. It localizes to the spindle midzone and the intracellular bridge in late anaphase and telophase, respectively, and is thought to be subsequently degraded. The localization of this protein suggests that it may play a role in chromosome segregation during mitosis. It is thought to form either a homodimer or heterodimer. Autoantibodies against this protein have been found in patients with cancer or graft versus host disease. [provided by RefSeq, Jul 2008]