

Product datasheet for **SC112402**

CENPH (NM_022909) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CENPH (NM_022909) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CENPH |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC112402 sequence for NM_022909 edited (data generated by NextGen Sequencing) |

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ATGGAGGAGCAGCCCCAGATGCAAGACGCCGACGAGCCCGGGACTCCGGAGGGGAAGGC
CGGGCAGGCGGGCCACCGCAGGTCGCCGCGCCAGGCGGCGTGCAGCGAGGACCGCATG
ACCCTGCTCCTCAGGCTGAGAGCACAGACAAAACAACAACCTTTAGAATATAAATCAATG
GTTGATGCAAGTGAAGAAAAAATCCAGAACAAATTATGCAAGAAAAGCAAATCGAAGCT
AAAATTGAAGACCTGGAAAAATGAAATTGAAGAGGTAAAAGTTGCTTTTGAGATAAAAAAG
CTTGCATTAGACAGGATGAGACTTTCAACTGCACTTAAAAAACCTGGAGAAAATTAGC
AGACAGTCTAGTGTGCTCATGGATAACATGAAACACCTATTAGAGCTAAATAAATTAATA
ATGAAATCACAGCAGGAATCTTGGGATTTAGAGGAAAAACTGCTTGATATTAGAAAAGAG
AGATTGCAATTAACAAGCTTCAGAAAGTAAGCTTTTAGAAATACAGACTGAAAAGAAC
AAACAGAAGATTGATTTGGACAGTATGGAAAACTCAGAGAGGATAAAGATCATACGACAA
AACCTACAGATGGAGATAAAAAATTAATACTGTTATTCAACATGTGTTCCAGAACCCTATT
TTGGGGAGTAAAGTCAATTGGGCAGAGGATCCTGCCCTTAAGGAAATTGTTCTGCAGCTT
GAGAAGAATGTTGACATGATGTAA
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Clone variation with respect to NM_022909.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022909 unedited
 GTATACGACTTTTATGGGCGGCCGCAATTCGGCACCAGGCTGTTGAGTGTTCCTTT
 CCCCTCAACCAGCAATGGAGGAGCAGCCCCAGATGCAAGACGCCGACGAGCCCGGGACT
 CCGGAGGGGAAGGCCGGGAGGCCGGCCACCGCAGGTCGCCGGCGCCAGGCGGCGTGCA
 GCGAGGACCGCATGACCTGCTCCTCAGGCTGAGAGCACAGACAAAACAACAACCTTTAG
 AATATAAATCAATGGTTGATGCAAGTGAAGAAAAAACCAGAACAAATTATGCAAGAAA
 AGCAAATCGAAGCTAAAATTGAAGACCTGGAAAATGAAAATTGAAGAGTAAAAGTTGCTT
 TTGAGATAAAAAAGCTTGCAATTAGACAGGATGAGACTTTCAACTGCACCTAAAAAAACC
 TGGAGAAAATTAGCAGACAGTCTAGTGTCTCATTGGATAACATGAAACACCTATTAGAGC
 TAAATAAATTAATAATGAAATCACAGCAGGAATCTTGGGATTTAGAGGAAAAACTGCTTG
 ATATTAGAAAGAAAGAGATTGCATTAACAAGCTTCAGAAAAGTAAGCTTTTAGAAATAC
 AGACTGAAAAGAANACAGAAAGATTGATTTGGACAGTATGGAANACTCAGAGAGGGATA
 AGATCATACGACANNACCTACAGATGGAGATAAAATTACTACTGTTATTCAACATGTGTT
 CCAGAACCTTTATTTGGNNGAGTAAGTCANTTGGGCAGAGGATCCCTGCCCTTAAGGAAA
 TTGNTCTGCAGCTTGAGAAAGATGGTGACATGATGTANNTAGAANTCATTCTGACANN
 ATTACATTNCTGGGCATCTCAACTCTTATTTGGGATACTNCTGTGCATTTGNCCTCCCA
 CCGTTATTTTAGAAAAGCTATNCCATACCGTTTTCAGTTGGTAGTACAGTTGTGGGTTAGT
 ATTTNGCAGGGGGATNGAANGNNNATTTTTCTTTTAAATNCTAAATTAAGNTGGNTTTT
 GGGTGGGCTGGTTTTGAGAGGAGGCCGCTTTGTGCCAGATGCNAGCAGTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022909 unedited
 GGGGCACAGACCCAACCTATANNNNNNNGGTCGTGNACCGCGCCGATTTTANGATCG
 GTTTTTTTTTTTTTTTTTTTTTTAAACATTAATTCCTTTTATTTCTTAACTTATAAACTG
 ATAGAAAAAATGCAAACTAGACCAGGCTCGGTGGCTTACGTCTGTAATCCTAGCACTTC
 GGTAGGCCGAGGCGGTGACTGCCTGAGCTCAGGAGTTCTGAGAGCAGCCTGGGCAACAC
 GGTGAAACCCCGTCTCTACTAAAATACAAAAAATTAGCTGGGCATGGCGGCTGCACCTT
 TAGTCACAGCTACTTGGGAGGCTGAGGCAGAACTGCTTGAACCCGGGAGGCAGAGTTGC
 AGTGAGCCGAGATCGCGCCACTGCCCTCCAGTCTGGGCAACAAAGCGAGACTCCATCTCA
 AAAAAACAACAACAAAAAACAACAACTAAATATAGAAATATAAAAAGAAAAAATTACT
 TTCAATCCCACTACAATAACTAACCACAAGTACTACAAGTAAACGTTATGGATAT
 GCTTTTCTAAAATTACGGTGGACAGACAAATGCACAGAAGTATCCAAAATAGAGTTGAG
 ATTGCCAGAAATGTAATATGTCAGAAATGAATTCCTTATACATCATGTCAACATTTCTTT
 CAAGCTGCAGAACATTTCTAAGGGCANGATCCCTCTGCCATTGACTTTTACTCCCC
 AAATAAAGTTTCTGGAACACATTGTTGAATAACAGGAGTAAATTTTTATCTCCATCTGAA
 GGTTTTGGCCAATGAACTTTATCCCCTCTGGAGTTCCATACTTGCCAAAAAAACTTCT
 GGTTGTTCTTTCAGCNCCAATTCCTAAAGCCAACCTTTTGAACCCGGGTTAAATGCAACC
 CTTTTTTTTAAATTAAGCAGATTTCTTTAAACCCAAAATCCGGCGGGAATTCATTATA
 ATTAATTAACCCAAAAGGGTTCATGTTTCCCTGGACCCCTCAA

Restriction Sites:

NotI-NotI

ACCN:

NM_022909

Insert Size:

980 bp

OTI Disclaimer:

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).

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_022909.3](#), [NP_075060.1](#)

RefSeq Size: 1405 bp

RefSeq ORF: 744 bp

Locus ID: 64946

UniProt ID: [Q9H3R5](#)

Cytogenetics: 5q13.2

Protein Families: Druggable Genome

Gene Summary: Centromere and kinetochore proteins play a critical role in centromere structure, kinetochore formation, and sister chromatid separation. The protein encoded by this gene colocalizes with inner kinetochore plate proteins CENP-A and CENP-C in both interphase and metaphase. It localizes outside of centromeric heterochromatin, where CENP-B is localized, and inside the kinetochore corona, where CENP-E is localized during prometaphase. It is thought that this protein can bind to itself, as well as to CENP-A, CENP-B or CENP-C. Multimers of the protein localize constitutively to the inner kinetochore plate and play an important role in the organization and function of the active centromere-kinetochore complex. [provided by RefSeq, Jul 2008]