

Product datasheet for **SC121879**

CENPA (NM_001809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPA (NM_001809) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPA
Synonyms:	CenH3; CENP-A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121879 sequence for NM_001809 edited (data generated by NextGen Sequencing)

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ATGGGCCCGCGCCGCGGAGCCGAAAGCCCGAGGCCCGAGGAGCGCAGCCCGAGCCCG  
ACCCCGACCCCGGCCCTCCCGCGGGGCCCTCCTTAGGCGCTTCTCCCATCAACAC  
AGTCGGCGGAGACAAGGTTGGCTAAAGGAGATCCGAAAGCTTCAGAAGAGCACACCTC  
TTGATAAGGAAGCTGCCCTTCAGCCGCTGGCAAGAGAAATATGTGTTAAATCACTCGT  
GGTGTGGACTTCAATTGGCAAGCCAGGCCCTATTGGCCCTACAAGAGGCAGCAGAAGCA  
TTTCTAGTTCATCTTTGAGGACGCCTATCTCCTCACCTTACATGCAGGCCGAGTTACT  
CTCTTCCAAAGGATGTGCAACTGGCCCGGAGGATCCGGGCCTTGAGGAGGGACTCGGC  
TGA
```

Clone variation with respect to NM_001809.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001809 unedited
 NAACGTTTTGATTTGTAACGACTTATATAGGCGGCCGACGAATTCGCACGAGGGCAGCC
 CGAGCAGGAGCCGTGGGACCGGGCGCCGGCACCCTCTGCGGCGTGTATGGGCCCGCGCC
 GCCGGAGCCGAAAGCCCGAGGCCCGAGGAGGCGCAGCCCGAGCCCGACCCCGACCCCGG
 GCCCTCCCGGCGGGGCCCTCCTTAGGCGCTTCTCCCATCAACACAGTCGGCGGAGAC
 AAGTTGGCTAAAGGAGATCCGAAAGCTTCAGAAGAGCACACACCTCTTGATAAGGAAGC
 TGCCCTTCAGCCGCTGGCAAGAGAAATATGTGTTAAATTCACCTGTTGGTGTGGACTTCA
 ATTGGCAAGCCAGGCCCTATTGGCCCTACAAGAGGCAGCAGAAGCATTCTAGTTCATC
 TCTTTGAGGACGCTATCTCTCACCTTACATGCAGGCCGAGTTACTCTCTTCCCAAAGG
 ATGTGCAACTGGCCCGGAGGATCCGGGGCCTTGAGGAGGACTCGGCTGAGCTCTGCAC
 CCAGTGTCTGTGAGTCTTCTGCTCAGCCAGGGGGATGATACCGGGGACTCTCCAG
 AGCCATGACTAGATCCAATGGATTCTGCGATGCTGTCTGGACTTTGCTGTCTCTGAACAG
 CTGGAGTGCAGCAGCAGATCTCGGCTCACTGGCACCTCCAACCTCCAAGTCAAGCGATT
 CTCCTGCCTCAGCCTCTCGGACCCTGTCTATTTTTTTTTTAATAAAGAAATAAAATGC
 TGTGTAATTCATAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGGGCCCGGTCATAGC
 TGTTCCCTGACAGATCCCGGTGGCATCCCTGTGACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001809 unedited
 GGCCCATGGCGATGGTCACTTGCCAGGTCCAGNATAGCACTGGGGNAGGGTCACAGGGC
 TGCCACCCGGGTATCTGTTGAGGAAAACAGCTATGACCGCGCCGCAATCTATAGTCGAG
 TTTTTTTTTTTTTTTTATGAAGTTACACAGAATTTTTATTTCTTATTTAAAAAAAAT
 AGAGACAGGGTCCGAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGTTGGAGTTG
 CAGTGAGCCGATATCGTGTCTGCCTCCAGCTGTTCCAGAGACAGCAAAGTCCAGACAG
 CATCGCAGAATCCATTGGATCTAGTCATGGCTCTGGAGAGTCCCGGTATCATCCCCCT
 GGCTGAGCAGGAAAGACTGACAGAAACTGGGTGCAGGAGCTCAGCCGAGTCCCTCCTC
 AAGGCCCGGATCCTCCGGGCCAGTTGCACATCCTTTGGGAAGAGAGTAACTCGGCCTGC
 ATGTAAGTGAGGAGATAGGCGTCTCAAAGAGATGAACTAGAAATGCTTCTGCTGCCTC
 TTGTAGGGCCAATAGGGCCTGGGCTTGCCAATTGAAGTCCACACCAGAGTGAATTTAAC
 ACATATTTCTCTGCCAGGCGGTGAAGGCAGCTTCTTATCAAGAGGTGTGTGCTCTT
 CTGAAGCTTTCGGATCTCCTTTAGCCAACCTTGTCTCCGCCGACTGTGTTGATGGGAGGA
 AGCCCTAAAGAGGGGCCCGCCGGGAGGGCCGGGGTCCGGGTCGGGCTCGGGCTCGGCTGCG
 CCTCCTCGGGCCCTCGGACTTTCGGCTNCGGGGGCGCGGGCCATGACACGCCGCATAGGG
 TGCCGGGCGCCGTTCAAACGCTTCTGCTCGGGCTGCCCTCGTGCCGAATTCGCGCCGCC
 TATAATGAGTCGTATTACAAATGCTGGA

Restriction Sites:

Please inquire

ACCN:

NM_001809

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_001809.2](#), [NP_001800.1](#)

RefSeq Size: 1389 bp

RefSeq ORF: 423 bp

Locus ID: 1058

UniProt ID: [P49450](#)

Cytogenetics: 2p23.3

Gene Summary: Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. This gene encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the centromere. Centromere protein A is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4)₂ tetrameric core of the nucleosome particle. The protein is a replication-independent histone that is a member of the histone H3 family. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).