

Product datasheet for **SC110635**

CENPT (NM_025082) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPT (NM_025082) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPT
Synonyms:	C16orf56; CENP-T; SSMGA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110635 sequence for NM_025082 edited (data generated by NextGen Sequencing)

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ATGGCTGACCACAACCCTGACAGCGACTCCACGCCGCGCACGCTGCTGCGACGCGTGCTG
GATACAGCGGACCCGCGCACCCCGCGGCGACCCCGGAGTGTCTGGGCTGGAGCCCGGAGA
GCCCTGCTTGAACCGCTTCCCCAGGAAGTTGAGTGGCCAAACAAGGACGATAGCCAGA
GGGCGTTCCCATGGAGCCAGGTCTGTTGGCAGATCGGCCCATATTCAGGCCAGTGGGCAC
TTGGAGGAACAGACACCTCGGACGCTGCTGAAGAACATCTACTAACTGCCCCAGAACTCT
TCCATCCTGATGCCTGAGTCGGTAGTGAAGCCAGTGCCAGCACCCAGGCGGTCCAACCC
TCCAGACAAGAGAGCAGTTGCGGCAGCCTGGAGCTGCAACTTCCTGAGCTCGAGCCCCC
ACAACCCTGGCTCCAGGTCTGCTGGCCCCTGGCAGGAGGAAACAGAGGCTGAGACTGTCA
GTGTTTCAGCAGGGAGTGGACCAGGGGCTGTCTCTCTCCAAGAGCCTCAAGGGAATGCT
GATGCCTCTTCCCTACCCAGATCCCTCAACCTGACCTTTGCCACACCTCTTCAGCCACAG
TCAGTGCAGAGGCTGGCTTGGCCCGCAGACCTCCAGCCCAGGAGCTGTAGACGTGGGT
GCCTTTTTGCGGGATCTGCGAGATACTTCCCTGGCTCCTCCAAACATTGTGTTGGAGGAC
ACCCAGCCGTTCTCAGCCCATGGTTGGCTCCCCAACGTGTATCACTCCCTGCCCTGC
ACGCCTCACACTGGGGCTGAAGACGCTGAGCAGGCTGCCGGTCGAAGACACAGAGCAGT
GGGCTGGGCTGCAGAAGATAGCCCTGGGAAACCAGCCAGTTTCTGGCAGGAGAGGCA
GAGGAGGTCAATGCCTTTGCTCTGGGCTTCTGAGCACCAGCAGTGGTGTCTCTGGAGAA
GATGAAGTAGAGCCCTTACACGATGGAGTTGAAGAGGCAGAGAAAAGATGGAAGAAGAA
GGTGTGAGTGTGAGTGAATGGAGGCAACAGGAGCACAAGGACCCAGCAGGGTAGAAGAG
GCTGAGGGACACAGAGGTGACAGAAGCAGAGGGATCCCAGGGGACTGCTGAGGCTGAC
GGGCCAGGAGCATCTTCAGGGGATGAGGATGCCTCTGGCAGGGCAGCAAGTCCAGAGTCG
CCCTCCAGCACCCCTGAGTCTCTCCAGGCCAGGCAGCATCATCAGTTTCTTGAGCCAGCC
CCAGCGCTGGTGTGAGTCTTATCTTCAGAGCCTGCAGAGCCTCTGTTGGTCAGGCAT
CCCCCTAGGCCCGGACCCGCCCCAGGCCCGGCAAGATCCCCACAAGGCTGGACTG
AGCCACTATGTGAAACTCTTAGCTTCTATGCCAAGATGCCCATGGAGAGGAAGGCTCTT
GAGATGGTGGAGAAGTGCTAGATAAATATTTCCAGCATCTTTGTGATGATCTGGAGGTA
TTTGCTGCTCATGCTGGCCGCAAGACTGTGAAGCCAGAGGACCTGGAGCTGCTGATGCGG
CGGCAGGGCCTGGTCACTGACCAAGTCTCACTGCACGTGCTAGTGGAGCGGCACCTGCC
CTGGAGTACCGGCAGCTGCTCATCCCTGTGCATACAGTGGCAACTCTGTCTTCCCTGCC
CAGTAG
    
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Clone variation with respect to NM_025082.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_025082 unedited

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GAATTTGTAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGGNAGGGCCCCG
GGNGCCGAGACGATGGCTGACCACAACCCTGACAGCGACTCCACGCCGCGCACGCTGCTG
CGACGCGTGTGGATACAGCGGACCCGCGCACCCCGCGGCGACCCCGGAGTGTCTGGGCT
GGAGCCCGGAGAGCCCTGCTTGAACCGGCTTCCCCAGGAAGTTGAGTGGCCAAACAAGG
ACGATAGCCAGAGGGCGTTCATGGAGCCAGGTCTGTTGGCAGATCGGCCCATATTCAG
GCCAGTGGGCACTTGGAGGAACAGACACCTCGGACGCTGCTGAAGAACATCTACTAACT
GCCCCAGAATCTCCATCCTGATGCCTGAGTCGGTAGTGAAGCCAGTGCCAGCACCCGAG
GCGGTCCAACCCTCCAGACAAGAGAGCAGTTGCGGCAGCCTGGAGCTGCAACTTCTGAG
CTCGAGCCCCCAACCCTGGTCCAGGTCTGCTGGCCCCTGGCAGGAGGAAACAGAGG
CTGAGACTGTGAGTGTTCAGCAGGGAGTGGACCAGGGGCTGTCTCTCCCAAGAGCCT
CAAGGGAATGCTGATGCCTCTTCCCTCACAGATCCCTCAACCTGACCTTTGCCACACCT
TTTCAGCCACAGTCAGTCAGAGGCCTGGCTTGGCCCGCAGACCTCCAGCCCAGGAGCT
GTAGACGTGGGTGCCTTTNTGCGGGATCTGCGAGATACTTCCCTGGCTCCTCAAACATT
GTGNTTGGAGGACACCCAGCCGTTCTCTCAGCCCATGGGTTGGGCTCCCCAACGTGTATC
ACTCCCTGCCCTGCACGCTCAACTGGNGCTGAAGACGCTGAGCANGCTGCCGGTGCAG
ACCANNACAGTGGCCCTGGCTGCAAAGAATACCCTGGAAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_025082 unedited CCGCCTCCCATATACTTTTTTTTTCTTTTTTTTTTTCTGTTTATGACTCTTTATTGATG CTGTGGGGGTGGGGAGGAGACCTGGAGAAATTGTGGGGGCAAGATTCCCCAGGTGGGGAC AGGGAAAGTGTGCAATCCTCTCGCGCCCCCAACCTTTTATCTTTGGGTCCCTCCCCGG GGTCTACTCCCCCTTACCTTTTCTTTGGCCCCCCCCCTCTTTGGTTCTTTTTGCC TCCCCCCTCTTGTGGGTGTTCTTTTTCTCCTCCACCCTTCTATCCTACCCCTT CCCCCCCTGCCCTTCCCTATCCCTCCTCCTCCACAGGGGCCCCCTGTTCCCCC CCCCCCTCCCCCTTTTTTCCCCCTCTCCCACTGGAGAAATATCTTTTCTCCTCTTT GTAACCCACCCCCCTTTCTCCTTCCCTCCCTTTTTCCACTTCCCCCCTCTTCT TCTTTTCTTTTTTCTCCACCTTTTTCTTCGCGCCCCCTCTTTTTCTCCCCCAA ACTCTCTTCTTATCTTTTTCCCTACTCCTCCCTGAATTTTTTTTTTTTTCTCGGCC CTCTTCTCCTCCCTTTTAAAAAACCTTTCTTTTTCTTCGAGCGTCTTTTTCTC TCGTCCCACTCCACCCTACTTCACTCCCCATTTTTTTCTCCTCCCTCCCCCTCTC CCTCCCCTTGCCCTTTTTCTTCGGCCTCCCCCCTCCCCCCTTTCCCTTCCCC CTCTTTTCCCTTTTTTCCCCCCCCCCCCATATTATCTTTTTTTTTTCCCTCTC CCCTCTTTTTTTTCTNTTCTTACCCTCGCTCCCCCCCCCTTTCGTCGCCCTTTC TCTTTCTTCTTCCCTCTATAACTTTCTTCTTCTTTTCTTCTCCTCTCCTCCCTCT CTACCAACATCCATCATTCCGCTCTCTCCCCACCCTCTATCTTTTTTCACTC TTTCTCCCCCTTCCCTCTCTGCCTCACTCTCCCTTCTTCTTTTTCTCTCTCTCC TCTCCATCTCTCT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_025082
Insert Size:	1790 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:	<ol style="list-style-type: none"> 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:	<u>NM_025082.1</u> , <u>NP_079358.1</u>
RefSeq Size:	2133 bp
RefSeq ORF:	900 bp
Locus ID:	80152
UniProt ID:	<u>Q96BT3</u>
Cytogenetics:	16q22.1

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). CENPT is an additional factor required for centromere assembly (Foltz et al., 2006 [PubMed 16622419]).[supplied by OMIM, Mar 2008]