

## Product datasheet for **SC323710**

### **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: | Neomycin                               |
| Vector:                   | pCMV6-AC (PS100020)                    |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene sequence for NM\_025082.3  
 ATGGCTGACCACAACCTTGACAGCGACTCCACGCCGCGCACGCTGCTGCGACGCGTGCTG  
 GATACAGCGGACCCGCGCACCCCGCGGCGACCCCGGAGTGCTCGGGCTGGAGCCCGGAGA  
 GCCCTGCTTGAACCGGCTTCCCCAGGAAGTTGAGTGGCCAAACAAGGACGATAGCCAGA  
 GGGCGTTCCTATGGAGCCAGGTCTGTTGGCAGATCGGCCCATATTCAGGCCAGTGGGCAC  
 TTGGAGGAACAGACACCTCGGACGCTGCTGAAGAATCCTACTAACTGCCCCAGAATCT  
 TCCATCCTGATGCCTGAGTCGGTAGTGAAGCCAGTGCCAGCACCGCAGGCGGTCCAACCC  
 TCCAGACAAGAGAGCAGTTGCGGCAGCCTGGAGCTGCAACTTCCTGAGCTCGAGCCCCC  
 ACAACCTGGCTCCAGGTCTGCTGGCCCCCTGGCAGGAGGAAACAGAGGCTGAGACTGTCA  
 GTGTTTCAGCAGGGAGTGGACCAGGGGCTGTCTCTCTCCCAAGAGCCTCAAGGAATGCT  
 GATGCCTCTTCCCTACCCAGATCCCTCAACCTGACCTTTGCCACACCTCTTCAGCCACAG  
 TCAGTGCAGAGGCTGGCTTGGCCCGCAGACCTCCAGCCCGCGGAGCTGTAGACGTGGGT  
 GCCTTTTTGCGGGATCTGCGAGATACTTCCTGGCTCCTCCAAACATTGTGTTGGAGGAC  
 ACCCAGCCGTTCTCTAGCCCATGGTTGGCTCCCCAACGTGTATCACTCCCTGCCCTGC  
 ACGCCTCACACTGGGGCTGAAGACGCTGAGCAGGCTGCCGTCGCAAGACACAGAGCAGT  
 GGGCCTGGGCTGCAGAAGATAGCCTGGGAAACAGCCAGTTTCTGGCAGGAGAGGCA  
 GAGGAGGTCAATGCCTTTGCTCTGGGCTTCTGAGCACCAGCAGTGGTGTCTCTGGAGAA  
 GATGAAGTAGAGCCCTTACACGATGGAGTTGAAGAGGCAGAGAAAAAGATGGAAGAAGAA  
 GGTGTGAGTGTGAGTGAATGGAGGCAACAGGAGCACAAGGACCCAGCAGGAGTAGAAGAG  
 GCTGAGGGACACAGAGGTGACAGAAGCAGAGGGATCCAGGGGACTGCTGAGGCTGAC  
 GGGCCAGGAGCATCTTCAAGGGATGAGGATGCCTCTGGCAGGGCAGCAAGTCCAGAGTCG  
 GCCTCCAGCACCCTGAGTCTCTCCAGGCCAGGCGACATCATGTTTCTTGAGCCAGCC  
 CCAGCGCCTGGTGTGAGTCTTATCTTCAAGCCTGCAGAGCCTCTGTTGGTCAGGCAT  
 CCCCCTAGGCCCGGACACCGGCCCGGCAAGATCCCAAGGCTGGAGTGGAGTGGAGTGGAGT  
 AGCCACTATGTGAACTCTTTAGCTTCTATGCCAAGATGCCCATGGAGAGGAAGGCTCTT  
 GAGATGGTGGAGAAGTGCTAGATAAATATTTCCAGCATCTTTGTGATGATCTGGAGGTA  
 TTTGCTGCTCATGCTGGCCGCAAGACTGTGAAGCCAGAGGACCTGGAGCTGCTGATGCGG  
 CGGCAGGGCCTGGTCACTGACCAAGTCTCACTGCACGTGCTAGTGGAGCGGCACCTGCC  
 CTGGAGTACCGGAGCTGCTCATCCCTGTGCATACAGTGGCAACTCTGTCTTCCCTGCC  
 CAGTAGTGGCCAGGCTTCAACACTTTCCCTGTCCCACTGGGGACTCTTGCCCCACAT  
 ATTTCTCAGGTCTCTCCCCACCCCCCAGCATCAATAAAGTGCATAAACAGAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_025082

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>NM_025082.3, NP_079358.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2360 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1686 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 80152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q96BT3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 16q22.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Summary:</b>          | <p>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]</p>                               |