

Product datasheet for **MC217378**

Cenpt (NM_177150) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpt (NM_177150) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cenpt
Synonyms:	G630055P03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217378 representing NM_177150
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGGACCTCAGCTTTTCTGACGGCGATCCTACTGTACGCACGCTTTTGCGGCGGTGCTGGAGACGG
 CGGATTTCGCGCACTCCGATGAGACGCCGAGCACTCGGATCAATGCACAAAGAAGACGGTCTCAAACGCC
 ATACTCTAACAGGCAGGGTAGCCAAACAAAGACAAGTGCTAGGAAGCAATCCCATGGAGCTAGGTCAGTT
 GGCAGATCGACTCGTGTTCAAGGTCTGGGGCGCTGGAGGAACAGACACCCCGACTCTGCTAAGGAATA
 TCTTACTAACTGCCCCAGAATCGTCCACTGTGATGCCAGACCCAGTGGTGAAGCCAGCACAAGTACCAGA
 AGTGGCCCGTCTCCAGACGGGAGAGCAGTCGGGGAAGCCTGGAGCTACACCTTCTGAACTGGAGCCC
 CCCTCAACCTGGCTCCGGGTCTAACAGCCCTGGCAAAAGGAAGCAGAACTGAGATTATCAGTATTTTC
 AGCAGGAAGTGGACAGGGGTTGCCTCTCTCCCAAGAGCCACGTAGGAGTAGGAGTGTGATGTTTCATC
 CTTGGCTAGCTCCTTCAATCTTACCTTTGTTCTACCTGGTCAGCCAGAGACAGTGGAGAGACCTGGTCTG
 GCTCGAAGACGTCCCATCCGCCAGCTTGTGAATGCTGGTGTCTTTTGCAGGATCTGGAAGACAATTCCT
 TAGCCTCTGCTCTTCCAGGTGACAGTCACAGAACCTGTTGCTGCTCTGCCGATGGATGTAGGCTTGGA
 AGACACACAGCCTTTCTCACAGTCCTTGCTGCCTTTTCCCTTAGTGGGAAACATTCTCTGCCAGCCCT
 TCTCGCCTGGGTTGAAGATGTTGAAAGAGTTATGGGCCACCAAGCTCGGGGACCAGGCTGCAAGGCC
 GGATGAGCAGATCTGGCCTGCTGCCTCTCCTTCCCCCTTCTGGAGCCACAGCCTCCGCTGCAGAACC
 GAGAGAAGCAGTAGGATCCAACGAGGCTGCGGAGCCCAAGGATCAAGAAGGATCTTCAGGGTATGAGGAA
 ACTTCTGCTAGGCCAGCAAGTGGAGAATTATCTCCAGCACACATGACTCACTCCAGCTGAACAGCCAC
 CCCCCTACCTGGAGTTGCAGTCCTATCTTCAGAGCCCCTGGAGTCTGTGACAGCTAAGTCCCCATCCAG
 GACCCAACTGCAGGTCTTAGGCGCCGCCAAGACCCCAAGGCTGGACTGAGCCCTATGTGAAGTTC
 TTCAGCTTCTGTACTAAGATGCCGTGGAGAAGACGGCTCTTGAGATAGTAGAGAAGTGCCTAGACAAGT
 ATTTCCAGCACCTTTGCAATGACCTGGAGGTATTTGCTTCTCATGCTGGCCGTAAGATTGTGAAGCCAGA
 GGACTTATTGCTGCTGATGCGACGGCAGGGACTAGTACTGATCAAGTCTCGCAGCATGTGCTCGTGGAG
 CGGTACCTGCCCTGGAGTACCGGCAACAATTATCCCTGTGCATTAGTGGCAATTCTGTCTTCCCTG
 CACAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177150

Insert Size: 1548 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_177150.2</u> , <u>NP_796124.1</u>
RefSeq Size:	1767 bp
RefSeq ORF:	1548 bp
Locus ID:	320394
UniProt ID:	<u>Q3TJM4</u>
Cytogenetics:	8 D3
Gene Summary:	Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPT has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis.[UniProtKB/Swiss-Prot Function]