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Product datasheet for MC211020

Cenps (NM_027263) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenps (NM_027263) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cenps
Synonyms:	2610040C18Rik; 2810407L01Rik; CENP-S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211020 representing NM_027263 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGGAGGTGGAGGCTGAGGAGCCGCAGGAGTTCTCTCACCGGCAGAGGCTGAAGGCGGCAGTTCACT ACACGGTCGGCTGTCTCTGCCAGGAAGTCACGCTGAACAAACAGGTGAACTTCAGCAAACAGACCATCGC GGCGATCTCCGAGGTGACTTTTCGACAGTGCGAAAATTTTGCCAAAGACCTTGAAATGTTTGCCAGACAC GCGAAAAGAAGCACGGTCACCACTGAAGACGTGAAGCTCTTAGCCAGGCGAAATAATTCACTGCTAAAAT ACATTACAGAGAAGAATGAAGAGATTGCCCAGCTTAACCTGAAAGGAAAGGCCAAGAAGAAAAGAAAGCC GGAAGATGAAAGCAGGAGCTCTCGGGAGTCCATGGCTGAGGAGCTGGACGGGGCTGAGGAGCTGCAGAGC GAGAGCTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_027263
Insert Size:	429 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).

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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_027263.2, NP_081539.1
RefSeq Size:	930 bp
RefSeq ORF:	429 bp
Locus ID:	69928
UniProt ID:	Q9D084
Cytogenetics:	4 E2
Gene Summary:	DNA-binding component of the Fanconi anemia (FA) core complex. Required for the normal activation of the FA pathway, leading to monoubiquitination of the FANCI-FANCD2 complex in response to DNA damage, cellular resistance to DNA cross-linking drugs, and prevention of chromosomal breakage. In complex with CENPX (MHF heterodimer), crucial cofactor for FANCM in both binding and ATP-dependent remodeling of DNA. Stabilizes FANCM. In complex with CENPX and FANCM (but not other FANC proteins), rapidly recruited to blocked forks and promotes gene conversion at blocked replication forks. In complex with CENPT, CENPW and CENPX (CENP-T-W-S-X heterotetramer), involved in the formation of a functional kinetochore outer plate, which is essential for kinetochore-microtubule attachment and faithful mitotic progression. As a component of MHF and CENP-T-W-S-X complexes, binds DNA and bends it to form a nucleosome-like structure. DNA-binding function is fulfilled in the presence of CENPX, with the following preference for DNA substates: Holliday junction > double-stranded > splay arm > single-stranded. Does not bind DNA on its own. [UniProtKB/Swiss-Prot Function]

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