

## Product datasheet for **MC209476**

### Cenpx (NM\_016665) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpx (NM_016665) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cenpx
Synonyms:	Stra13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209476 representing NM_016665 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAAACAGTGGCTTCCGGAAGGAAGTGGTGAGCAGACTACTCCATTTGCACTTCAGGGATTGCA  
AGACCAAAGTCAGCGGGGATGCACTGCAGCTCATGGCGGAGTTCTGAGGATCTTCGACTAGAGGCTGC  
TGTCGGTGGGTCTGGCAGGCCAGGCAGAAGACCTGGATGTTGTGGAAGTGGATCAGCTGGAGAAAGTG  
CTCCCTCAGCTGCTCCTGGACTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja3266\\_e05.zip](https://cdn.origene.com/chromatograms/ja3266_e05.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_016665

Insert Size: 237 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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<b>Components:</b>	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><a href="#">NM_016665.2</a></u> , <u><a href="#">NP_057874.2</a></u>
<b>RefSeq Size:</b>	655 bp
<b>RefSeq ORF:</b>	237 bp
<b>Locus ID:</b>	20892
<b>UniProt ID:</b>	<u><a href="#">Q8C4X1</a></u>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	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 CENPS (MHF heterodimer), crucial cofactor for FANCM in both binding and ATP-dependent remodeling of DNA. Stabilizes FANCM. In complex with CENPS and FANCM (but not other FANCD proteins), rapidly recruited to blocked forks and promotes gene conversion at blocked replication forks. In complex with CENPS, CENPT and CENPW (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 CENPS, 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]