

## Product datasheet for **MC206962**

### 1700028K03Rik (BC106106) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	1700028K03Rik (BC106106) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	1700028K03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206962 representing BC106106. Blue=ORF Red=Cloning site Green=Tag(s)

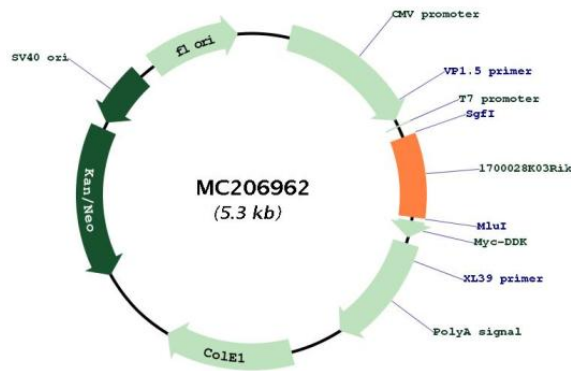
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAATGGATGAGCGTAGAGGAAAAGAAAGAGTACAGTGGACAACCACCATTATTATCAGCTCATCT
CTTAAGAGTTACGAAATTGCAACTGCCCTAGAAAATCGAAGCCACAAGGTTCCGGTATTCTGATACTG
GAAAGTGGATCGATTGTATTTCTCTGTCTGGAGTTGCATTCTTGTGATGGATGCTAAGGAGTGTATG
ACATCGGCTGAGGAAATATTTGTAACAAAATTGAGAAGTTTATTAACATTCACCAAAATAGTTTCTTG
GTTCTATTTGCTCCACTCCATGGGCCTGAAGAATGGAGTCTCATGTTCCAGGATACATCAGAGGTTCTTG
GGCAGTAACTTACGAATACTTCTGTACACAACACAGTAAACGCTCTTGACCTTATGTGCACTATAGCC
AAGAGGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



**ACCN:** BC106106

**Insert Size:** 423 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.

RefSeq: BC106106

RefSeq Size: 3105 bp

RefSeq ORF: 422 bp

Locus ID: 76421

Cytogenetics: 5 F

MW: 16 kDa

**Gene Summary:** Plays a key role in reinforcing the integrity of the central element of the synaptonemal complex (SC) thereby stabilizing SC, ensuring progression of meiotic prophase I in male and female germ cells (PubMed:30949703). Promotes homologous recombination and crossing-over in meiotic prophase I via its association with SHOC1 (PubMed:30746471). Required for the localization of TEX11 and MSH4 to recombination intermediates (PubMed:30746471). [UniProtKB/Swiss-Prot Function]