

## Product datasheet for MR202419

### Psmc3ip (NM\_008949) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc3ip (NM_008949) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc3ip
Synonyms:	C79099; GT198; HOP2; Tbpip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202419 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGAGTAAAAGCCGGGCCGAGGCTGCGGCTGGAGCCCCGGGATCATCCTGAGGTACCTGCAAGAACAAA  
ACCGGCCCTACAGCGCCAGGACGTGTTTCGAAACCTACAGAAGGAACATGGACTGGCAAGGCGGCGGT  
AGTGAAGGCGCTGGATCAGCTGGCCAGGAAGGCAAGATCAAAGAGAAGACCTACGGCAAGCAGAAAATT  
TATTTTGGCGATCAGAACCAGTTTGACACAGTGAGTGATGCGGACCTCCACGGCCTGGATGCCAGTATCG  
TGGCCCTCACTGCCAAGGTGCAGAGCTTACAGCAGAGCTGCCGACACATGGAGGCCGAGTGAAGGAATT  
AACAAAGTGCCTGACCACTCCTGAGATGCAGAAAGAGATTTCAGGAGTTAAGAAGGAGTGTGCTCAATAC  
ACAGAGAGACTGAAGAACATCAAAGCAGCTACCAACCATGTCCTCCAGAAGAGAAGGAGAAGGTGTACA  
GAGACAGACAGAAGTACTGTAAAGAGTGGAGGAAGCGGAAGAGGATGACCACAGAGCTGTGTGATGCGAT  
CCTTGAAGGCTACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGAATAGAGACAGATGAAGATCAT  
AATGTTTTGCTCCCCGACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_008949.3](#)

**RefSeq Size:** 984 bp

**RefSeq ORF:** 654 bp

**Locus ID:** 19183

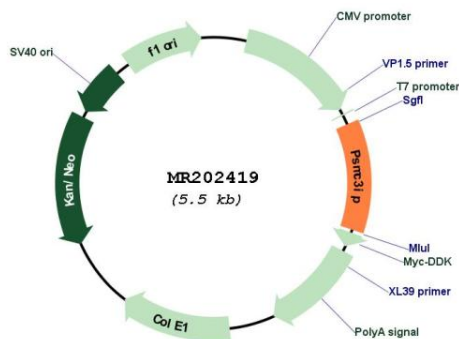
**UniProt ID:** [O35047](#)

**Cytogenetics:** 11 D

**MW:** 24.7 kDa

**Gene Summary:** Plays an important role in meiotic recombination. Stimulates DMC1-mediated strand exchange required for pairing homologous chromosomes during meiosis. The complex PSMC3IP/MND1 binds DNA, stimulates the recombinase activity of DMC1 as well as DMC1 D-loop formation from double-strand DNA. This complex stabilizes presynaptic RAD51 and DMC1 filaments formed on single strand DNA to capture double-strand DNA. This complex stimulates both synaptic and presynaptic critical steps in RAD51 and DMC1-promoted homologous pairing. May inhibit HIV-1 viral protein TAT activity and modulate the activity of proteasomes through association with PSMC3.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202419