

## Product datasheet for **MC204035**

### Psmc3ip (NM\_008949) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc3ip (NM_008949) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Psmc3ip
Synonyms:	C79099; GT198; HOP2; Tbpip
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC030169 CCACGCGTCCGCTCGAGTTTGGTGGCGAGAAAGGCCATGAGTAAAAGCCGGGCCGAGGCTGCGGCTGGAG CCCCCGGATCATCCTGAGGTACCTGCAAGAACAAAACCGGCCCTACAGCGCCAGGACGTGTTTCGAAA CCTACAGAAGGAACATGGACTGGCAAGCGCGGTAGTGAAGGCGCTGGATCAGCTGGCCAGGAAGGC AAGATCAAAGAGAAGACCTACGGCAAGCAGAAAATTTATTTTGGCGATCAGAACCAGTTTACACAGTGA GTGATGCGGACCTCCACGGCCTGGATGCCAGTATCGTGGCCCTCACTGCCAAGGTGCAGAGCTTACAGCA GAGCTGCCGACACATGGAGGCCGAGCTGAAGGAATTAACAAGTGCCTGACCACTCCTGAGATGCAGAAA GAGATTCAGGAGTTAAGAAGGAGTGTGCTCAATACACAGAGAGACTGAAGAACATCAAAGCAGCTACCA ACCATGCTACTCCAGAAGAGAAGGAGAAGGTGTACAGAGACAGACAGAAGTACTGTTAAAGAGTGGAGGAA GCGGAAGAGGATGACCACAGAGCTGTGTGATGCGATCCTTGAAGGCTACCCCAAGAGCAAGAAGCAGTTC TTTGAGGAAGTTGGAATAGAGACAGATGAAGATCATAATGTTTTGCTCCCGACCCTGAGGGGCCCTTG GTGAGGTGGGAACAGAGCGTCTGCGCTGGCCACCTTACTTAGTGGCCTTTTTATTCTTGCTGTTCTCC ACCTTTGAGCAGTGGACGGAGCACAAGCCATAGTGTAGATAGAGGCTGGTGATCAGAAAAGGACGGTCA TGTCCGTTTTGTACAGGCCTCAACAAGGACTTAAAAAATCCTAAAAGAAAGTATTTGTAATATTTATTG TAATATAATTTGATATAAAAAATAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_008949
Insert Size:	654 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>	<a href="#">BC030169</a> , <a href="#">AAH30169</a>
<b>RefSeq Size:</b>	948 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	19183
<b>UniProt ID:</b>	<a href="#">O35047</a>
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	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]