

## Product datasheet for **MG202419**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc3ip (NM_008949) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmc3ip
Synonyms:	C79099; GT198; HOP2; Tbpip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202419 representing NM_008949 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAAAAGCCGGGCCGAGGCTGCGGCTGGAGCCCCGGGATCATCCTGAGGTACCTGCAAGAACAAA  
ACCGGCCCTACAGCGCCAGGACGTGTTTCGAAACCTACAGAAGGAACATGGACTGGCAAGGCGGCGGT  
AGTGAAGCGCTGGATCAGCTGGCCAGGAAGCAAGATCAAAGAGAAGACCTACGGCAAGCAGAAAATT  
TATTTTGGCGATCAGAACCAGTTTGACACAGTGAGTGATGCGGACCTCCACGGCCTGGATGCCAGTATCG  
TGCCCTCACTGCCAAGGTGCAGAGCTTACAGCAGAGCTGCCGACACATGGAGGCCGAGTGAAGGAATT  
AACAAAGTGCCTGACCACTCCTGAGATGCAGAAAGAGATTTCAGGAGTTAAGAAGGAGTGTGCTCAATAC  
ACAGAGAGACTGAAGAACATCAAAGCAGCTACCAACCATGCTCACTCCAGAAGAGAAGGAGAAGGTGTACA  
GAGACAGACAGAAGTACTGTAAAGAGTGGAGGAAGCGGAAGAGGATGACCACAGAGCTGTGTGATGCGAT  
CCTTGAAGGCTACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGAATAGAGACAGATGAAGATCAT  
AATGTTTTGCTCCCCGACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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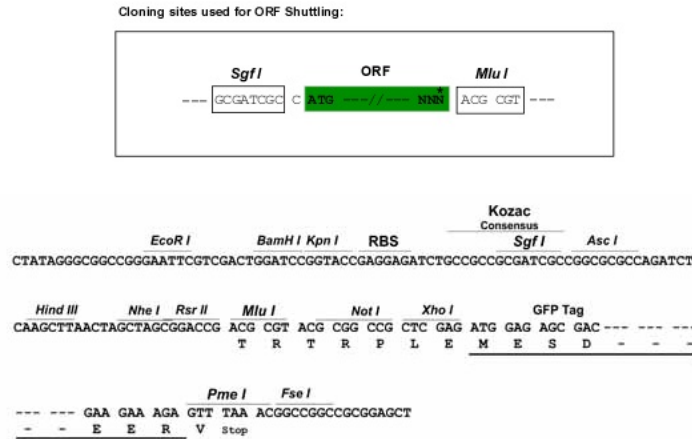
**Protein Sequence:** >MG202419 representing NM\_008949  
 Red=Cloning site Green=Tags(s)

MSKSRAEAAAGAPGIILRYLQEQRNPYSAQDVFQNLQKEHGLGKAAVVKALDQLAQEGKIKEKTYGKQKI  
 YFADQNQFDTVSDADLHGLDASIVAL TAKVQSLQQSCRHMEAELEKELTSALTPPEMQKEIQELKKECAQY  
 TERLKNIKAATNHVTPPEEKEKVYRDRQKYCKEWRKRKRMTTELCDAILLEGYPKSKKQFFEEVGIETDEDH  
 NVLLPDP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008949

**ORF Size:** 651 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_008949.3</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]