

## Product datasheet for **RG201045**

### PSMC3IP (NM\_013290) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSMC3IP (NM\_013290) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PSMC3IP  
**Synonyms:** GT198; HOP2; HUMGT198A; ODG3; TBPIP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201045 representing NM\_013290  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTAAAGGCCGGCAGAAGCTGCGCGGGAGCCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGA  
 ACCGGCCCTACAGCTCCCAGGATGTGTTTCGGGAACCTACAGCGGGAACACGGACTGGCAAGGCGGTGGT  
 GGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAGAGAAGATGTACGGCAAGCAGAAGATC  
 TATTTTGGGATCAGGACCAGTTTACATGGTGTAGTGCTGACCTCAAGTCCAGTACGATGGCAAAATCG  
 TGGCCCTCACTGCTAAGGTGCAGAGCTTGACGAGAGCTGCCGCTACATGGAGGCTGAGATGCAGAAAGA  
 AATCCAGGAGTTAAAGAAGGAATGCGCTGGCTACAGAGAGAGATTGAAGAACATTAAGCAGCTACCAAT  
 CATGTGACTCCAGAAGAGAAAGAGCAGGTGTACAGAGAGAGGCAGAACTGTAAAGGAGTGAGGAAGA  
 GGAAGAGGATGGCTACAGAGCTGTCTGATGCAATACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTT  
 TGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACGTCACACTCCAGACCCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG201045 representing NM\_013290  
 Red=Cloning site Green=Tags(s)

MSKGRAEAAAGAAGILLRYLQEQRNPYSSQDVFQNLQREHGLGKAVVVKTLQLAQQGKIKEKMYGKQKI  
 YFADQDQFDMVSDADLQVLDGKIIVALAKVQSLQQSCRYMEAEMQKEIQELKKECAGYRERLKNIAATN  
 HVTPEEKEQVYRERQKYCKEWRKRKRMATELSDAILEGYPKSKKQFFEEVGIETDEDYNTLPDP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

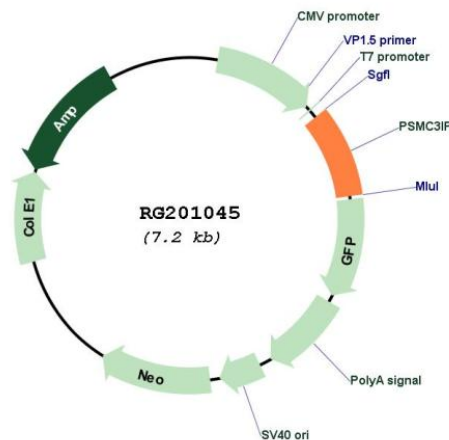


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_013290

ORF Size: 615 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:** [NM\\_013290.6](#), [NP\\_037422.2](#)

**RefSeq Size:** 1418 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 29893

**UniProt ID:** [Q9P2W1](#)

**Cytogenetics:** 17q21.2

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a protein that functions in meiotic recombination. It is a subunit of the PSMC3IP/MND1 complex, which interacts with PSMC3/TBP1 to stimulate DMC1- and RAD51-mediated strand exchange during meiosis. The protein encoded by this gene can also co-activate ligand-driven transcription mediated by estrogen, androgen, glucocorticoid, progesterone, and thyroid nuclear receptors. Mutations in this gene cause XX female gonadal dysgenesis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2011]