

Product datasheet for **RG220984**

PSMC3IP (NM_016556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMC3IP (NM_016556) 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:	>RG220984 representing NM_016556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAAAGGCCGGCAGAAGCTGCGGCGGGAGCCGCCGGATCCTCCTGAGGTACCTGCAGGAGCAGA
ACCGGCCCTACAGCTCCCAGGATGTGTTTCGGGAACCTACAGCGGGAACACGGACTGGCAAGGCGGTGGT
GGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAGAGAAGATGTACGGCAAGCAGAAGATC
TATTTTGGGATCAGGACCAGTTTACATGGTGTAGTGCTGACCTTCAAGTCCAGTACAGTGGCAAAATCG
TGGCCCTCACTGCTAAGGTGCAGAGCTTGCAGCAGAGCTGCCGCTACATGGAGGCTGAGCTCAAGGAATT
ATCTAGTGCCCTGACCACACCAGAGATGCAGAAAGAAATCCAGGAGTTAAGAAGGAATGCGCTGGCTAC
AGAGAGAGATTGAAGAACATTAAGCAGCTACCAATCATGTGACTCCAGAAGAGAAAGAGCAGGTGTACA
GAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAAGAGGATGGCTACAGAGCTGTCTGATGCAAT
ACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGGATAGAGACGGATGAAGATTAC
AACGTCACACTCCCAGACCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220984 representing NM_016556
 Red=Cloning site Green=Tags(s)

MSKGRAEAAAGAAGILLRYLQEQRNPYSSQDVFQNLQREHGLGKAVVVKLEQLAQQGKIKEKMYGKQKI
 YFADQDQFDMVSDADLQVLDGKI VAL TAKVQSLQQSCRYEAE LKELSSAL TTPEMQKEIQELKKECAGY
 RERLKNIKAATNHVTPEEKEQVYRERQKYCKEWRKRKRMATELSAILEGYPKSKKQFFEEVGIETDEDY
 NVTLPDP

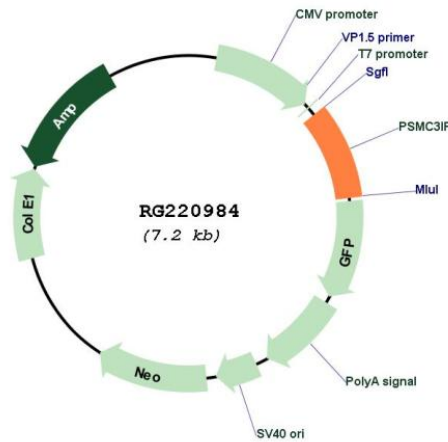
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016556

ORF Size: 651 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:	<ol style="list-style-type: none"> 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_016556.4
RefSeq Size:	1476 bp
RefSeq ORF:	654 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]