

## Product datasheet for **RR205898**

### **Psmc5 (NM\_031149) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psmc5 (NM_031149) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psmc5
Synonyms:	Sug1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205898 representing NM_031149 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGCTTGATGGCCAGAGCAGATGGAAGAGGGGAAGGCAGGCAGTGGACTCCGTCAATATT  
ATCTGTCCAAGATTGAAGAACTCCAGTTGATTGTGAATGACAAGAGTCAGAACCTCCGGAGACTGCAGGC  
CCAGAGGAATGAGCTCAATGCAAAAGTTCGTCTGTTGCGGGAGGAACTGCAGCTGCTGCAGGAACAGGGC  
TCCTACGTTGGAGAAGTCGTGAGGGCCATGGATAAGAAAAAGTGTGGTCAAGGTCATCTGAGGGCA  
AATTTGTTGTTGATGTGGACAAGAACATTGATATCAATGATGTGACACCAATTGTCCGGTGGCTCTAAG  
AAATGACAGCTACACTCTGCATAAGATCCTGCCTAACAAAGTGGACCTTTGGTATCACTAATGATGGTG  
GAAAAGGTGCCAGACTCAACCTACGAGATGATTGGCGGGCTAGACAAGCAGATCAAGGAGATCAAAGAAG  
TGATTGAGCTGCCTGTGAAGCACCTGAGCTCTTGAAGCCCTGGGCATTGCACAGCCAAAGGGAGTCTT  
GCTATATGGACCCCGGGCACTGGGAAGACGTTGTTGGCCCGGGCTGTGGCTCATCATACGGACTGTACC  
TTTATTCGTGTCTCTGGCTCTGAACTGGTACAGAAATTCATTGGGAAGGGCAAGAATGGTGAGGGAGC  
TGTTTGCATGGCCCGAGAACATGCTCCCTCCATCATCTTCATGGACGAGATCGACTCTATCGGTTCTTC  
ACGGCTGGAGGGAGGCTCTGGAGGCGACAGTGAGGTACAGCGCACAATGCTGGAAGTCTCAACAGCTG  
GATGGCTTTGAGGCCACTAAGAATATCAAGTTATCATGGCTACTAATAGGATTGATATCTGGACTCTG  
CCCTGCTTCGCTCTGGGAGGATTGACAGGAAAATTGAATCCCACCTCCCAATGAGGAGGCCCGGCTGGA  
CATTTTAAAAATCCACTCTCGAAAAATGAACTTGACCAGGGGGATCAACCTGAGGAAAATTGCTGAGTTG  
ATGCCAGGAGCTTCAGGGGCTGAAGTGAAGGGCGTGTGCACAGAGGCCGGCATGTATGCTCTCGGGAAAC  
GGCGTGTCCACGTTACTCAGGAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAAAGGATAGTGAGAA  
AAACATGTCCATCAAGAAGCTTTGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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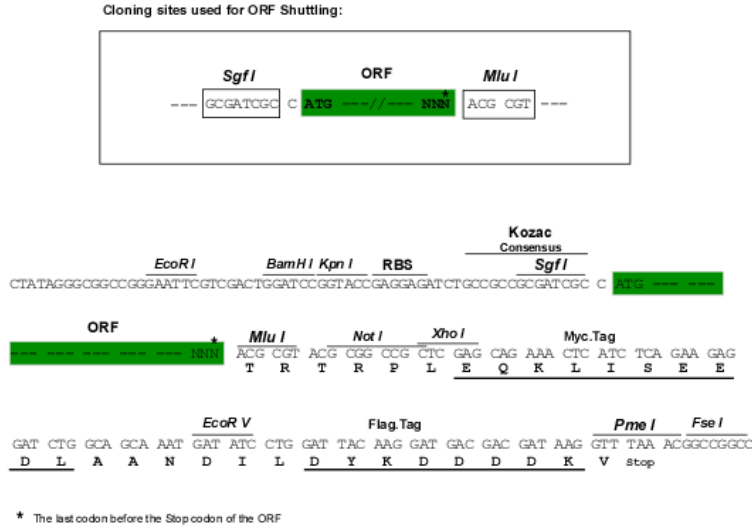
**Protein Sequence:** >RR205898 representing NM\_031149  
 Red=Cloning site Green=Tags(s)

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQLRRLQAQRNELNAKVRLREELQLLQEQG  
 SYVGEVVRAMDKKKVLKVHPEGKFVVDVVDKNIDINDVTPNCRVALRNDSTYTLHKILPNKVDPLVSLMMV  
 EKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLARAVAHHTDCT  
 FIRVSGSELVQKFIGEGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGDSEVQRTMLELLNQL  
 DGFEATKNIKVIMATNRIDILDSALLRPRGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAEL  
 MPGASGAEVKGVCTEAGMYALRERRVHVVTQEDFEMAVAKVMQKDEKNMSIKKLWK

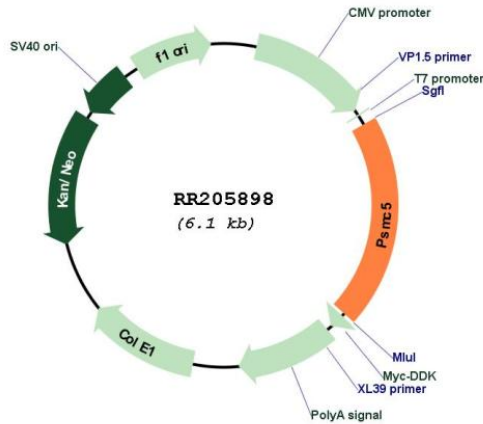
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031149

<b>ORF Size:</b>	1218 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_031149.1</a> , <a href="#">NP_112411.1</a>
<b>RefSeq Size:</b>	1288 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	81827
<b>UniProt ID:</b>	<a href="#">P62198</a>
<b>Cytogenetics:</b>	10q32.1
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	may play a role in ATP-dependent RNA/DNA unwinding [RGD, Feb 2006]