

## Product datasheet for **MR230546**

### **Rpap2 (NM\_001289570) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rpap2 (NM_001289570) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpap2
Synonyms:	AW060207
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230546 representing NM\_001289570  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGACTCTGCCGTACCTTGCTCTCTAGGCCAAGTACCCGGGCTTCCAGCACCCACCGAGATGCTA  
 CCGGTAATAACAGACCCGAGCCCTGAAACGAGGAGATGCATCTAAAAGGCAAGCAGAAGCTGGAAGCTGC  
 TATACAAAGGAAGGTGGAGTTTGAAGGAAAGCTGTGCGCATCGTAGAGCAGCTCTTAGAGGAGAATC  
 ACAGAAGAATTCCTGAAGGAGTGTGGCATGTTTCACACCAGCTCACTACAGCGACGTTGTGGATGAGC  
 GGTCCATCATCAAACCTGTGGCTATCCTTTGTGTGAGAAGAAGCTAGGGGTTATCCCGAAACAGAAATA  
 TCGAATTTCTACTAAAACCAATAAAGTCTATGATATTACTGAAAGGAAGTCTTTCTGCAGCAATTTTGT  
 TACAGAGCATCTAAATTTTTTGAACACAGATCCCAAACCTCCAGTATGGGTCGAGAGGAAGAGAGGC  
 CTCCTGACTTTCAGCTGTGAAGAAAGGACAAAGCGGCAGTCTGGAGAAGTAGTACAGTCTTCCGAGA  
 TGCCGTGACAGCAGCAGATGTTGACGGTCCGGCGCCTTGAGGGCGCAGTGTACCCTGCTTCTCCAGC  
 TCTTGGAGTGAGCGAGCCAGTGTAGAGGAGGCAAGGCTTTGTTTCTTCTTCTACCAGGAAACAGAC  
 CAAAGGCAGTGGATACAAGACCCGAGCCGCACAAAAAGCAGCATCATGAGAAAGAAGGCTGCTCAGAA  
 CGTGGACTCCAAGGAGGGAGAGCAGACCGTGTGACAGGTTACCGAGCAGCTGGATAATTGCAGATTAGAT  
 AGTCAGGAGAAAGTGGCCACTTGTAAACGTCCTTTAAAGAAAGAAAGTACTCAGATTTCTCACCTGGCC  
 CTTTGTGTGACAGATTTAACTTCAGCCATTTCTGAACATAAACACGGTGTATCACAAGTTACGCTTGT  
 AGGCATAAGCAAGAAGAGTGTGAGCATTTGAGGAGCAAAATTTGCCAAGTCAAATCCAGGTTCTGGGTCA  
 GCCTCTGGTTTGGTACACGTGCGTCTGAGGTTGCGAAGGCAAATTTACTCCGAGTCTGTGCGGACACT  
 TGACTGAATGGAAGCAGAGAAGAAACACTGAAGTTTTTATATGGCCAGAACCACGATTCGTGTGTCTGAA  
 ACCCTCTCAGCCTCTGAGCCTGATGAAGAACTTGATGAAGATGACATAAGTTGTGACCCAGGTAGTTGT  
 GGTCTGCCCTGAGTCAAGCTCAGAACACCCCTAGATGCAACACTGCCCTTAGAGGCTCAGACACAGCCA  
 TTAAGCCACTGCCAAGTTATGAGAGCTTAAAAAGGAAACGGAGATGCTGAACCTGAGGGTCAGGGAGTT  
 CTACAGAGGGCGCTGTGTTTTAAATGAAGACTACCAAGTCTCAGGACTCTAAGAGAGTGTGCTTCAG  
 CGTGACCCAGCTTCCCGCTGATAGATTCAAGTCCCAGAACCAGATTAGAAGACGGATTGTTCTTGAAA  
 AACTGAGCAAAGTATTGCCTGGACTTTGGGTCTTTCAGATTACAATGGGAGATATTTACTGAACT  
 TAAAAACCTCATTAGACTTTTCAGATTCAAATAGAAACATTATACACAAACCTGTGGAGTGGACTTTA  
 ATTGCTGTGGTCTTGCTGTTACTGATCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230546 representing NM\_001289570  
 Red=Cloning site Green=Tags(s)

MADSAVPCSLGPSTRASSTHRDATGKQTRALKRGDASKRQAELEAAIQRKVEFERKAVRIVEQLLEENI  
 TEEFLKECGMFIIPAHYSDVVDERSIIKLCGYPLCQKLGVIKQKYRISTKTNKYVDITERKSFCSNFC  
 YRASKFFETQIPKTPVWVREERPPDFQLLKKGQSGSSGEVVQFFRDAVTAADVDGSGALEAQCDPASS  
 SWSERASDEEEQGFVSSLLPGNRPKAVDTRPQPHTKSSIMRKKAAQNVDSKEGEQTVSEVTEQLDNCRLD  
 SQEKVATCKRPLKKESTQISSPGPLCDFNTSAISEHKHGVSQVTLVGISKKSAEHFRSKFAKSNPGRGS  
 ASGLVHVRPEVAKANLLRVLSDTLTEWKTEETLKFLYQGNHDSVCLKPSSASEPDEELEDDEDDISCDPGSC  
 GPALSQAQNTLDATLPFRGSDTAIKPLPSYELKKEEMLNLRVREFYRGRCVLEDDTTKSQDSKESVLQ  
 RDPSPFLIDSSSQNQRIRRRIVLEKLSKVLPGLLGPLQITMGDIYTELKNLIQTFRLSNRNIIHKPVWTL  
 IAVVLLLLLIL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<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_001289570.1</a> , <a href="#">NP_001276499.1</a>
<b>RefSeq Size:</b>	2764 bp
<b>RefSeq ORF:</b>	1713 bp
<b>Locus ID:</b>	231571
<b>UniProt ID:</b>	<a href="#">Q8VC34</a>
<b>Cytogenetics:</b>	5 E5-F
<b>MW:</b>	63.9 kDa
<b>Gene Summary:</b>	Protein phosphatase that displays CTD phosphatase activity and regulates transcription of snRNA genes. Recognizes and binds phosphorylated 'Ser-7' of the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and mediates dephosphorylation of 'Ser-5' of the CTD, thereby promoting transcription of snRNA genes. [UniProtKB/Swiss-Prot Function]