

Product datasheet for **RN204920**

Rpap2 (NM_001013987) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpap2 (NM_001013987) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rpap2
Synonyms:	RGD1309034
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204920 representing NM_001013987
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCGGACTCTGCTGTTCTTACTCTCTGGGCCCAAGTGCCCGGGCTTCCAGCACCCACCGAGTCGCTA
 CCGGTACTAAACAGACCAGTGCCCTGAAACGAAGAGATGCGTCTAAAAGACAAGCGGAAGCTGGAAGCTGC
 CCTGCAAAGGAAGGTGGAGTCTGAGAGGAGAGCTGTACGCCTCGTAGAGCAGCTCCTGGAGGAGAACATC
 ACAGAAGAATTCCTGAAGGAGTGTGGGATGTTTCATCACACCGGCTCACTACAGCGACGTTGTGGATGAGC
 GGGCCATCATTAACTCTGTGGCTATCCTTTATGTGAGAAGAAGCTAGGGGTTATACCAAAACAGAAATA
 CCGGATTTCTACTAAAACCAATAAAGTCTATGATATTACTGAAAGAAAGTCTTTCTGCAGCAATTTTGT
 TACAAAGCATCTAAATTTTTTGAAGCACAGATCCCAAACTCCAGTATGGGTCGAGAGGAAGAGAGGC
 CTCCTGAATTTAGCTGCTGAAGAAAGGACAAAGTGGCTGTTCTGGAGAGGTCGTACAGTTCTTCAGAGA
 CGCCGTTACAGCAGCAGATGTGATGCTTATGGTGCCTTTGATGCACAGTGTGAAGCTGCTTCTCCAGC
 ACTTGGAGCGAGCGTGCCAGCGACGAGCGTGCCAGCGATGAGGAGGGGCCAGGCTTTGTTTCTTCTCTTC
 TCCCAGGAAACAGACCGAAGGCCGTGGGCACAAAACACAGCCACACAGACAAAGCAGCACCGTGAAGAA
 GAAGGCTGCTCAGAAAATGACCTCCAAGCACGGAGAACAGACCGTGTGAGAGTCACGGAGCAGTTGTCT
 AATTGTAGATTAGATAGTCAGGAGAAAGTAGCTACTTGTAACTTCTGCAAGAAAGAAACACTCAGA
 TTTCTTACCTGGCCCTTTGTGTGACAGATTAATACTTCAACAGTTTCTGAAAATAAACACAGTGATC
 ACAAGTTACTCTTGTGGGATAAGCAAGAAGAGTGCTGAGCATTTAGGAGCAAATTTGCCAAATCTAAC
 CCAGGGTCTGGGTCAGCCTCTGGTTTGGTGCAGGTGCGTCCTGAGGTCGCAAGGCAAATTTACTCCGAG
 TTCTAAAGGACACCCTGACTGAATGGAAGACAGACGAAACACTGAAGTTTTATATGGCCAAGACCATGG
 TTCTGTGTGCCTGCAACCCTCTGCAGCCTCTGGGCCTGATGAAGAAGTTGATGAAGATGACATAAGCTGT
 CAAGCTCAGAACACCTTGGATGAGACACTCCCCTTCAGAGGCTCAGATACAGCCATTAAGCCACTGCCAA
 GTTATGAGAGCCTGAAAAGGAAACAGAGATGTTGAACCTGAGGGTCAGGGAGTTCTACAGAGGACGCTG
 TGTTTTAAATGAAGACAGTACCAAGTCTCAGGACTCAAAAGAGAATGAGCTTCAGCGTGATCCAGCTTC
 CCCCTGATTGATTCGAGTTCCAGAACAGATTAGAAGACGATTGTTCTTGAAAATTGAGCAAAGTAT
 TGCCCGGCCTTTGGGTCCTCTTCAGATTACAATGGGAGATATTTACACTGAAGTTAAACCTTGTTC
 GACTTTTCAGATTATCAATAGAAACATTATCCACAACTGTGGAGTGGACTTTAATCGCCGTGGTCTTG
 CTGTCAGTGTGACACCAATTCTCGGCATTGAGAAGCATTCTCCAAAAATGTGGTATTTACACAGTTTA
 TAGCCACCTGCTGACAGAATTGCATCTAAAATGTGAAGATCTGGAAGAACTTAGCCATGATATTTAGAAC
 CAGCTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001013987

Insert Size: 1830 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_001013987.1, NP_001014009.1</u>
RefSeq Size:	2197 bp
RefSeq ORF:	1830 bp
Locus ID:	305120
UniProt ID:	<u>Q5I0E6</u>
Cytogenetics:	14p22
Gene Summary:	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]