

Product datasheet for **MR209427**

Rpap2 (NM_144911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpap2 (NM_144911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpap2
Synonyms:	AW060207
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209427 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGACTCTGCCGTACCTTGTCTCTAGGCCAAAGTACCCGGGCTTCCAGCACCCACCGAGATGCTA
 CCGGTAATAACAGACCCGAGCCCTGAAACGAGGAGATGCATCTAAAAGGCAAGCAGAAGCTGGAAGCTGC
 TATAAAAAGGAAGGTGGAGTTTGAAGGAAAGCTGTGCGCATCGTAGAGCAGCTCTTAGAGGAGAATC
 ACAGAAGAATTCCTGAAGGAGTGTGGCATGTTTCACACCAGCTCACTACAGCGACGTTGTGGATGAGC
 GGTCCATCATCAAACCTGTGGCTATCCTTTGTGTGAGAAGAAGCTAGGGGTTATCCCGAAAACAGAAATA
 TCGAATTTCTACTAAAACCAATAAAGTCTATGATATTACTGAAAGGAAGTCTTTCTGCAGCAATTTTGT
 TACAGAGCATCTAAATTTTTTGAACACAGATCCCAAACCTCCAGTATGGGTCGAGAGGAAGAGAGGC
 CTCCTGACTTTCAGCTGTGAAGAAAGGACAAAGCGGCAGTCTGGAGAAGTAGTACAGTCTTCCGAGA
 TGCCGTGACAGCAGCAGATGTTGACGGTCCGGCGCCTTGACGCGCAGTGTACCCTGCTTCTCCAGC
 TCTTGGAGTGAGCGAGCCAGTATGAGGAGGAGCAAGGCTTTGTTTCTTCTTCTACCAGGAAAACAGAC
 CAAAGGCAGTGGATACAAGACCCGAGCCGACACAAAAAGCAGCATCATGAGAAAAGGAGGCTGCTAGAA
 CGTGGACTCCAAGGAGGAGAGCAGACCGTGTGACAGGTTACCGAGCAGCTGGATAATTGCAGATTAGAT
 AGTCAGGAGAAAGTGGCCACTTGTAAACGTCTTTAAAGAAAGAAAGTACTCAGATTTCTCACCTGGCC
 CTTTGTGTGACAGATTTAACTTCAGCCATTTCTGAACATACACACGGTGTATCACAAGTACGCTTGT
 AGGCATAAGCAAGAAGAGTGTGAGCATTTGAGGAGCAAAATTTGCCAAGTCAAATCCAGGTTCTGGGTCA
 GCCTCTGGTTTGGTACACGTGCGTCTGAGGTTGCGAAGGCAAATTTACTCCGAGTCTGTGCGGACACT
 TGACTGAATGGAAGCAGAAGAAACACTGAAGTTTTTATATGCCAGAACCAGTCTGTGTGTCTGAA
 ACCCTCTCAGCCTCTGAGCCTGATGAAGAACTTGATGAAGATGACATAAGTTGTGACCCAGGTAGTTGT
 GGTCTGCCCTGAGTCAAGCTCAGAACACCCCTAGATGCAACACTGCCCTTAGAGGCTCAGACACAGCCA
 TTAAGCCACTGCCAAGTTATGAGAGCTTAAAAAGGAAACGGAGATGCTGAACCTGAGGGTCAGGGAGTT
 CTACAGAGGGCGCTGTGTTTTAAATGAAGACTACCAAGTCTCAGGACTCTAAAGAGAGTGTGCTTCA
 CGTGACCCAGCTTCCCGCTGATAGATTCAAGTCCCAGAACCAGATTAGAAGACGGATTGTTCTTGAAA
 AACTGAGCAAAGTATTGCCTGGACTTTGGGTCTTTCAGATTACAATGGGAGATATTTACTGAACT
 TAAAAACCTCATTAGACTTTTCAAGTATCAAATAGAAACATTATACACAAACCTGTGGAGTGGACTTTA
 ATTGCTGTGGTCTTGTGTTACTATTGACACCGATTCTTGGCATTGAGAAGCATTCTCCGAAAAATGTGG
 TTTTACACAGTTTATAGCCACCCTGCTGACAGAATTGCATTTAAATTCGAAGATCTTAAAAATTAAC
 CATGATATTTAGAACCAGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

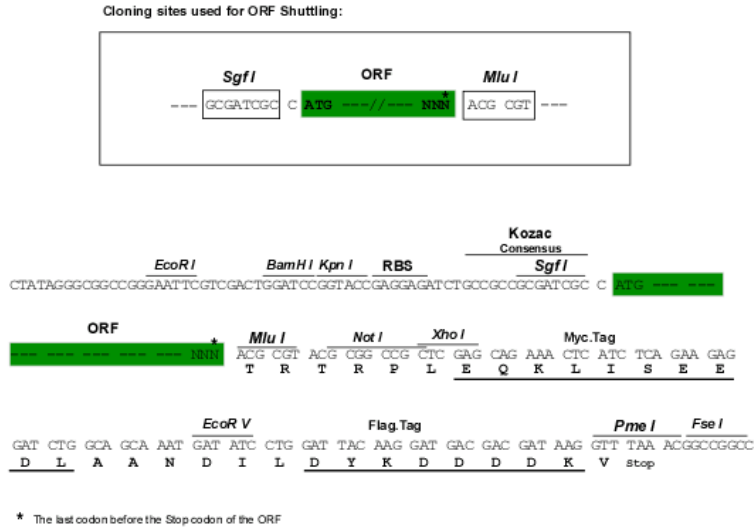
>MR209427 protein sequence
 Red=Cloning site Green=Tags(s)

MADSAVPCSLGPSTRASSTRDATGKQTRALKRGDASKRQAELEAAIQRKVEFERKAVRIVEQLLEENI
 TEEFLKECGMFIPTAHYSDVVDERSIIKLCGYPLCQKLGVIPKQYRISTKTNKVYDITERKSFCSNFC
 YRASKFFETQIPKTPVWVREEERPPDFQLLKKGQSGSSGEVVQFFRDAVTAADVDGSGALDAQCDPASS
 SWSERASDEEEQGFVSSLLPGNRPKAVDTRPQPHTKSSIMRKKAAQNVDSKEGEQTVSEVTEQLDNCRLD
 SQEKVATCKRPLKKESTQISSPGLCDRFNTSAISEHTHGVSQVTLVGISKSAEHFRSKFAKSNPQSGS
 ASGLVHVRPEVAKANLLRVLSDTLTEWTEETLKFLYGQNHDSVCLKPSSASEPDELEDDEDDISCDPGSC
 GPALSQAQNTLDATLPFRGSDTAIKPLPSYESLKKETEMLNLRVREFYRGRVNLNEDTTKSQDSKESVLQ
 RDPSPFLIDSSSQNQRIRRRIVLEKLSKVLPLGLQITMGDIYTELKNIQTFRLSNRNIHHPVEWTL
 IAVVLLLLLTPILGIQKHSPKNVFTQFIATLLTELHLKFEDLEKLTMIFFRTSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144911

ORF Size: 1845 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_144911.1](#), [NP_659160.1](#)

RefSeq Size: 2322 bp

RefSeq ORF: 1845 bp

Locus ID: 231571

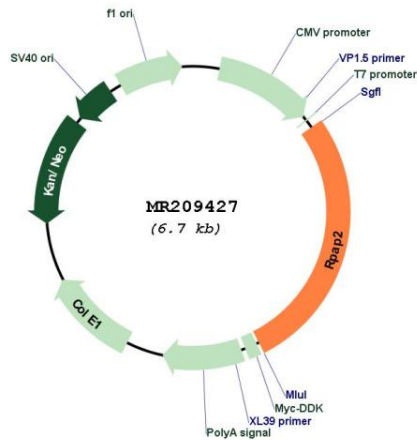
UniProt ID: [Q8VC34](#)

Cytogenetics: 5 E5-F

MW: 68.5 kDa

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]

Product images:



Circular map for MR209427